

ArcGIS® 9.1

Installing ArcIMS® 9.1 on HP® PA-RISC® HP-UX®



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Introduction

ESRI® ArcIMS® is Internet Map Server (IMS) software for authoring, designing, publishing, and administering Internet mapping applications. ArcIMS allows Web clients, map servers, data servers, and the Web server to communicate with one another.

Use this guide to get ArcIMS up and running. If you are new to ArcIMS, start with the installation for your platform and install the features that have been pre-selected; referred to as a typical installation. A typical installation is when your Web site uses the resources of one computer; Web server software and ArcIMS are installed on the same computer. This configuration is useful for those with limited resources or light server loads. Once you are familiar with ArcIMS, use this guide to help define your site configuration and install ArcIMS on a distributed system.

This book assumes you have a Web server and servlet engine installed and operational and know how to administer the Web server, stop and start services/daemons, and create virtual directories. It also assumes knowledge of the Internet and related terminology.

Overview

ESRI® ArcIMS® is Internet Map Server (IMS) software for authoring, designing, publishing, and administering Internet mapping applications. ArcIMS allows Web clients, map servers, data servers, and the Web server to communicate with one another.

What's included with ArcIMS 9.1?

The following are included with ArcIMS 9.1:

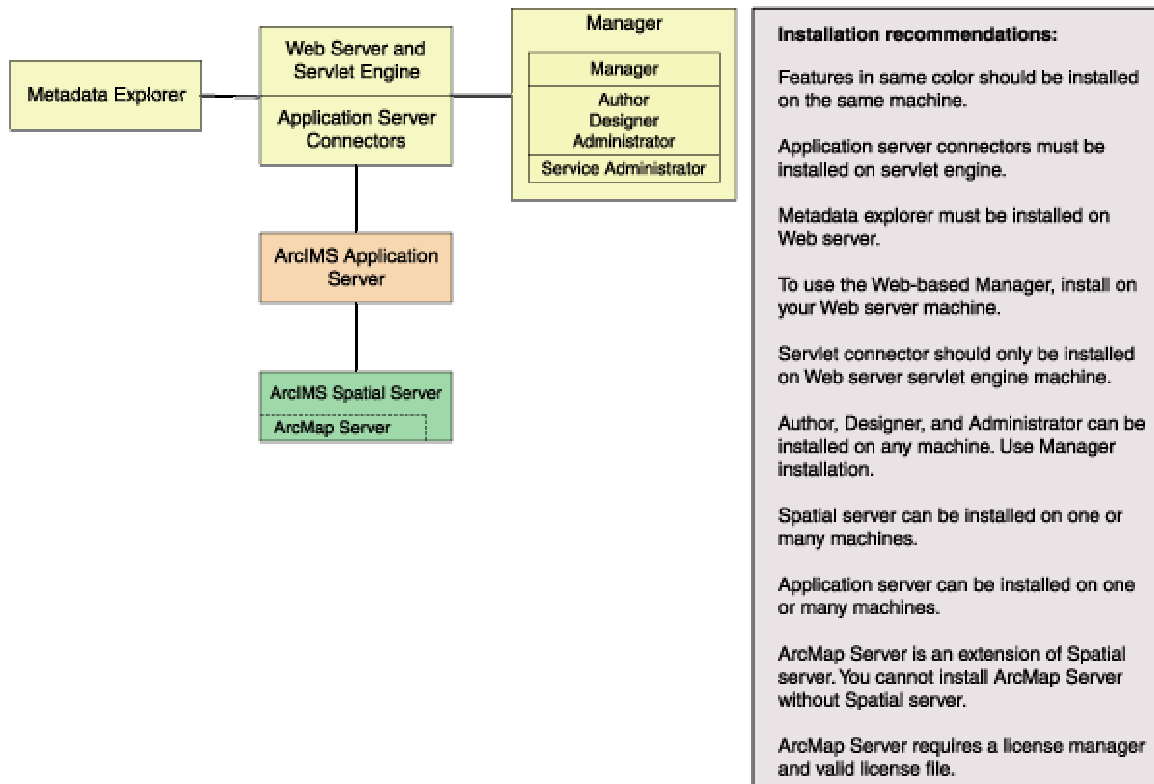
- The installation CD with ArcIMS software. See *Using ArcIMS* for details on working with ArcIMS. To find out about ArcIMS customization, see *Customizing ArcIMS*, a five-book documentation series you can install with the software. The *ArcXML Programmer's Reference Guide*, a programming guide for customizing map configuration files, is also included with the software. For a printable version of *Installing ArcIMS*, see [ArcIMS Online](#) for a PDF for your platform.
- Documentation for ArcIMS is included on the ESRI Software Documentation Library CD.
- ArcExplorer™—Java™ Edition is included with ArcIMS and is documented in *Using ArcExplorer—Java Edition*.
- ServletExec 5.0 is included on the ArcIMS CD under the ServletExec folder. See the ServletExec readme and the ServletExec installation guide, located in this folder, for more information on installing ServletExec.

Note: The digital books included with ArcIMS are in PDF (Portable Document Format). To view and print PDF files, you will need to install the Adobe Acrobat Reader. Visit the Adobe Web page to download Adobe Acrobat Reader.

ArcIMS components

ArcIMS is made up of:

- ArcIMS Manager/Manager Applications
- ArcIMS Application Server
- ArcIMS Application Server Connectors
- ArcIMS Spatial Servers
- ArcIMS Service Administrator
- ArcIMS Viewers



Each component is described in the following paragraphs.

See the discussion of architecture in *ArcIMS Help* for more detailed information on ArcIMS components.

ArcIMS Manager

The ArcIMS Manager provides the Web-based interface and supports the three main tasks you perform in ArcIMS—author ArcIMS services, design Web pages, and administer sites. As a Web interface, ArcIMS Manager also allows remote site management.

ArcIMS Manager resides on the Web server computer and can be accessed remotely via the Internet using the Microsoft® Internet Explorer Web browser.

ArcIMS Manager is supported only on Windows® using Internet Explorer. It is not supported on HP®-UX®, IBM® AIX®, Linux® Red Hat®, or Sun™ Solaris™, and it is not supported on Windows using Netscape Communicator™. This is because Netscape Communicator does not currently support scripting of applets—a feature that is critical for ArcIMS Manager.

ArcIMS Manager Applications

The ArcIMS Manager Applications—Author, Designer, and Administrator—are also provided as independent applications that run outside a Web browser. They are included with a Manager installation and can be installed on any computer.

ArcIMS Service Administrator

The ArcIMS Service Administrator is a remote site administration tool and can be used as an alternative to or in conjunction with ArcIMS Administrator. The ArcIMS Service Administrator uses the JavaServer™ Pages (JSP) tag libraries and the Java API (application program interface) of the ArcIMS Java Connector.

The ArcIMS Service Administrator is installed with a typical installation and a Manager installation on Windows and with a typical installation and ArcIMS Manager Applications installation on UNIX/Linux. When choosing to install ArcIMS Metadata Explorer or ArcIMS Manager (or ArcIMS Manager Applications on UNIX/Linux), you do not have to install the Java connector because the files are included with these installation features.

The ArcSDE Services Monitor is also available to administer ArcSDE. To administer ArcSDE on Windows or Solaris, an installation of the optional ArcSDE Services Monitor component on the ArcSDE Server is required; on other flavors of UNIX/Linux, a custom installation of the ArcSDE Services Monitor is required on the ArcSDE Server. The ArcIMS Service Administrator presents a unified interface for managing ArcIMS and ArcSDE services.

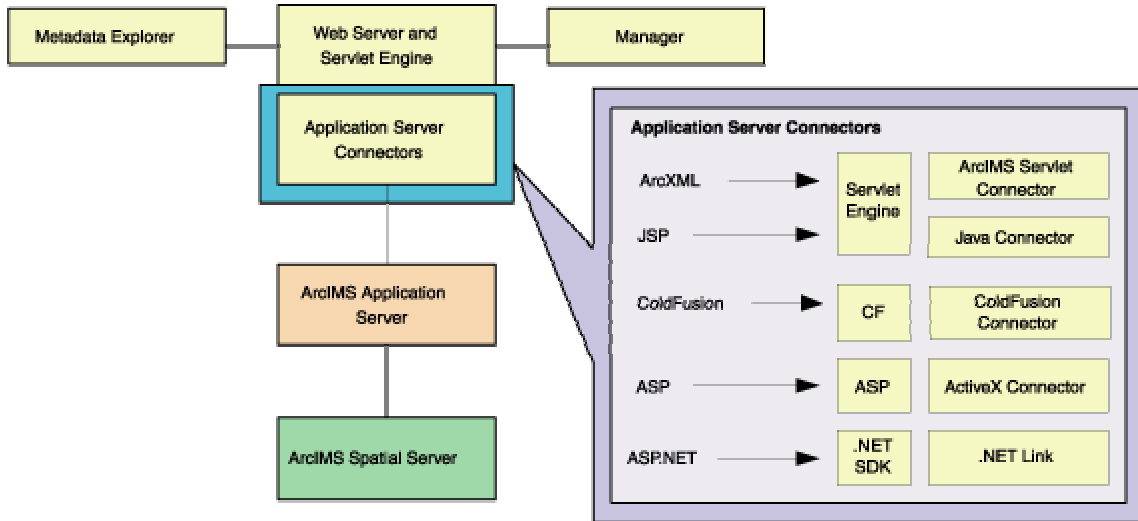
See *ArcIMS Help*, for details on using ArcIMS Service Administrator.

ArcIMS Application Server

The ArcIMS Application Server handles the incoming requests and tracks which ArcIMS Services are running on which ArcIMS Spatial Servers. The ArcIMS Application Server hands off a request to the appropriate Spatial Server. The Application Server is written as a Java application and runs as a Windows service or a daemon process (on UNIX/Linux®). It may reside on any computer.

ArcIMS Application Server Connectors

The ArcIMS Application Server Connectors are used to connect the Web server to the ArcIMS Application Server. Each instance of a connector is dedicated to one Web server and must be installed on the same computer as the Web server; however, a single Web server can support several connectors.



The ArcIMS Servlet Connector is the standard connector used for ArcIMS. It uses the ArcIMS language, ArcXML, to communicate from the Web server to the ArcIMS Application Server. The ArcIMS Servlet Connector provides Map Service-level user password authentication. You need the ArcIMS Servlet Connector to administer your ArcIMS site and author and design ArcIMS Web pages. The WMS connector for ArcIMS enables ArcIMS to work within the OGC WMS specification.

In addition to the ArcIMS Servlet Connector and WMS Connector, you can use the following connectors to link the Web server to the ArcIMS Application Server:

- ColdFusion® Connector
- ActiveX® Connector
- Java Connector
- .NET Link

The ColdFusion and ActiveX connectors work with custom clients and translate their own languages into ArcXML. The ArcIMS Java Connector communicates with the ArcIMS Application Server via a Java application or JSP client. The .NET Link Runtime and Developer Help allows you to integrate ArcIMS functionality within a .NET application. Samples can be installed with the software. For more information on these custom connectors, see the *Customizing ArcIMS* series located on the ESRI Software Documentation Library CD.

The ArcIMS Java Connector runs on Windows and UNIX/Linux, the ColdFusion Connector runs on Windows and Solaris, and the ActiveX Connector and .NET Link run on Windows only.

ArcIMS Spatial Servers

The ArcIMS Spatial Server is the backbone of ArcIMS. ArcIMS Spatial Servers process requests for maps and related information and serve the data to the client. For ArcIMS Metadata Service, ArcGIS™ and ArcSDE are required.

ArcMap™ Server installs ArcObjects™ runtime files. ArcMap Server only runs on Windows, Solaris and Linux platforms. ArcIMS Spatial Servers run on Windows or UNIX/Linux. A graphics card is not required.

ArcIMS Viewers

ArcIMS provides client-side viewers:

- ArcIMS HTML Viewer
- ArcIMS Java Viewer
- Metadata Explorer

The ArcIMS Viewers determine the functionality and graphical look of your Web site. The viewer is what appears in the Web browser when someone accesses your Web site.

The Java Viewers require a one time ArcIMS Viewer download to the client user's computer, and are only compatible with Web browsers that support Java plug-in functionality. See [Installing ArcIMS Viewer](#) for instructions regarding the Java client download.

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The Metadata Explorer can only be used to view metadata from an ArcIMS Metadata Service. The Metadata Explorer can be installed by selecting this feature during the ArcIMS installation. See *Creating and Using Metadata Services* for information on Metadata Explorer.

Five steps to get ArcIMS up and running

There are five steps required to get ArcIMS running:

1. Verify that your site meets ArcIMS system requirements.
2. Plan your ArcIMS site configuration.
3. Install ArcIMS. This includes the installation and post installation setup.
4. Configure your Web server.
5. Configure ArcIMS.

These steps are outlined below.

For the latest requirements or for any changes to the Installation Guide, see the [Support site for ArcIMS](#).

What you need to get ArcIMS running

Step 1: Verify that your site meets ArcIMS system requirements

Hardware configuration

- Memory requirements
- Disk space

System software

- Operating system
- Web server
- Servlet engine
- Java 2 Platform Standard Edition Runtime Environment (J2SE JRE)
- Web browser
- Authorization file (required for Spatial Server and ArcMap Server)
- Java 2 Platform Standard Edition SDK (J2SE SDK) (required for Java Connector, Metadata Explorer and Service Administrator)

Step 2: Plan your ArcIMS site configuration

- ArcIMS Typical Configuration—All on a single computer
- ArcIMS Custom Configuration—ArcIMS Application Server Connectors
- ArcIMS Custom Configuration—ArcIMS ArcMap Server (Windows, Solaris and Linux only)

- ArcIMS Custom Configuration—ArcIMS Manager Applications
- ArcIMS Custom Configuration—ArcIMS Service Administrator
- ArcIMS Custom Configuration—ArcSDE Services Monitor
- ArcIMS Custom Configuration—ArcIMS Spatial Servers
- ArcIMS Custom Configuration—Metadata Explorer

Step 3: Install ArcIMS

- Step 3a - Complete the installation for the features you select
- Step 3b - Complete the post installation setup for the features you installed

Step 4: Configure your Web server

Step 4 is required if you did not configure your Web server, using the Web Server-Servlet Engine Configuration option, in the post installation (Step 3b).

- Configure your Web server and servlet engine.
- Create virtual directories.

Step 5: Configure ArcIMS

- Using ArcIMS with a proxy server
- Starting the ArcIMS processes
- Running ArcIMS

See the [installation flowchart](#) for an overview of the steps required to get ArcIMS running.

Go to [Step 1: Verify that your site meets system requirements](#)

Questions, feedback, and information

There are a number of options to provide feedback or obtain further information.

Questions and feedback

ArcIMS Help provides information on how to contact ESRI Technical Support with questions or comments.

All questions and comments should be forwarded to ESRI Technical Support.

- Phone 909-793-3774.
- Fax 909-792-0960.
- E-mail support@esri.com.
- Hours 6:00 a.m to 6:00 p.m. Pacific time, Monday through Friday, except ESRI holidays. If you are outside the United States, please contact your local ESRI distributor.

ArcIMS Knowledge Base

The ArcIMS Knowledge Base is a database that contains:

- Frequently Asked Questions
- How To instructions
- Troubleshooting tips
- Error messages

You can search the Knowledge Base using keywords, or you can browse through folders that contain information on different topics relating to ArcIMS.

You can access the ArcIMS Knowledge Base from the ESRI support site at <http://support.esri.com>.

Using ArcIMS Help

If you need more information about a specific topic or procedure, use ArcIMS Help from within ArcIMS. You can locate what you need by searching the table of contents, finding terms in the index, or finding the number of times a term appears in a section.

Visit the ESRI home page on the Internet

Visit the ESRI home page at www.esri.com for up-to-date information on ESRI software and services. It is an invaluable resource in helping you expand your

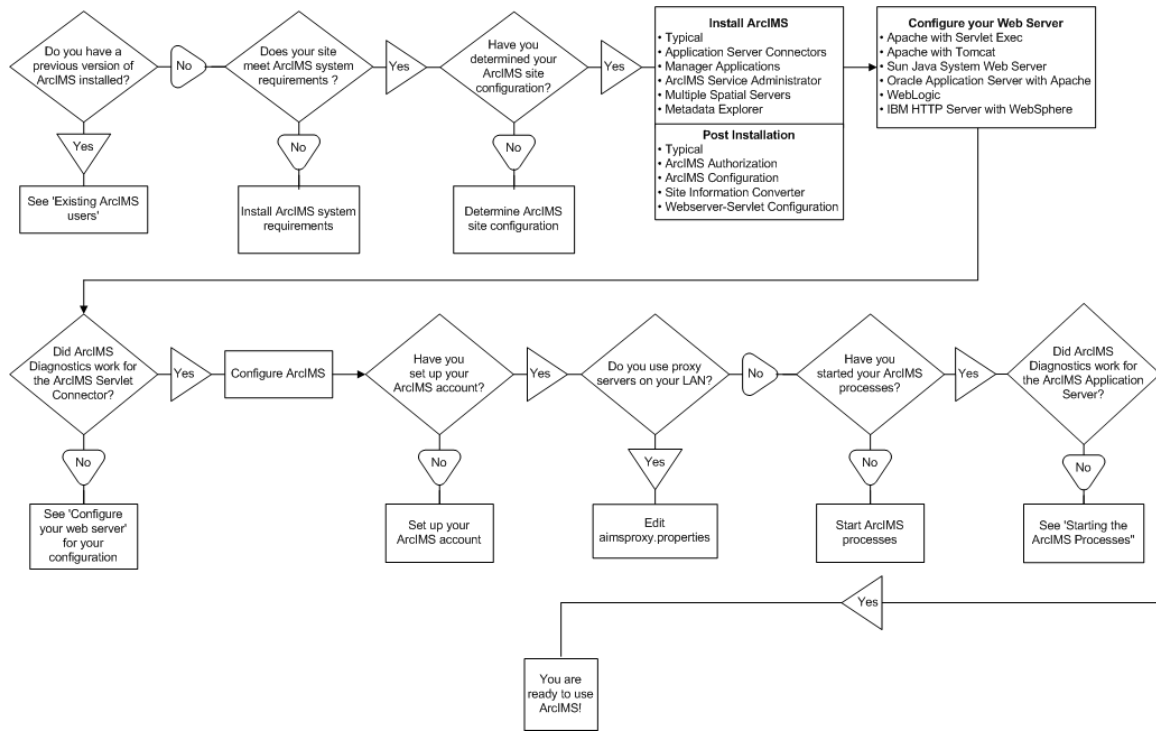
understanding of geographic information system (GIS) technology and Internet mapping.

Visit the ArcIMS home page at www.esri.com/software/arcims for the latest information about ArcIMS including a showcase of ArcIMS-enabled Web sites.

ESRI education solutions

ESRI provides educational opportunities related to geographic information science, GIS applications, and technology. You can choose among instructor-led courses, Web-based courses, and self-study workbooks to find education solutions that fit your learning style and pocketbook. For more information, go to www.esri.com/education.

Installation flowchart



Upgrading to ArcIMS 9.1

Existing ArcIMS users

Before installing ArcIMS 9.1, users should perform the following, depending on the version of ArcIMS installed.

ArcIMS 4.0 users should be aware of the following:

- ArcIMS 9.1 creates a new directory named arcims when installed. It is possible to have both ArcIMS 4.0 and ArcIMS 9.1 on the same system. However, there are many areas that can cause problems, and it is recommended that you run only one version of ArcIMS on your computer. See [Uninstalling ArcIMS 4.0](#) for details.
- Java 2 Platform Standard Edition Java Runtime Environment (J2SE JRE) version 1.4.2_06 is installed with ArcIMS 9.1. The JRE installation location is <ArcIMS installation directory>/arcims/jre.
- See [Supported Software Environments](#) for Web servers and Servlet Engines supported for ArcIMS 9.1.

ArcIMS 4.0.1 users should be aware of the following:

- ArcIMS 9.1 installs to a directory names arcims. It is possible to have both ArcIMS 4.0.1 and ArcIMS 9.1 on the same system. However, there are many areas that can cause problems, and it is recommended that you run only one version of ArcIMS on your computer. See [Uninstalling ArcIMS 4.0.1](#) for details.
- Java 2 Platform Standard Edition Java Runtime Environment (J2SE JRE) version 1.4.2_06 is installed with ArcIMS 9.1. The JRE installation location is <ArcIMS installation directory>/arcims/jre.
- See [Supported Software Environments](#) for Web servers and Servlet Engines supported for ArcIMS 9.1.

ArcIMS 9.0 users should be aware of the following:

- It is not possible to have both ArcIMS 9.0 and ArcIMS 9.1 on the same system.
- Java 2 Platform Standard Edition Java Runtime Environment (J2SE JRE) version 1.4.2_06 is installed with ArcIMS 9.1. The JRE installation location is <ArcIMS installation directory>/arcims/jre.
- See [Supported Software Environments](#) for Web servers and Servlet Engines supported for ArcIMS 9.1.

Authorizing ArcIMS

ArcIMS version 9.0 and higher require the ArcIMS Spatial Server to be authorized for use. To authorize ArcIMS for use you must complete the registration process. The end result of the registration process is an authorization file that is used to enable the software for use. If you are an existing ArcIMS user, your 4.0.1 keycode will not work with ArcIMS version 9.0 or higher. Each new version of ArcIMS requires a new authorization file.

There are several ways to register ArcIMS. You can visit <https://service.esri.com> to obtain an authorization file (by email, fax, phone or mail) before installing. You can also register ArcIMS using the post installation setup after installing ArcIMS (this is the recommended method). See [ArcIMS Authorization configuration](#) for registration methods using the post installation setup. If the Internet is not available, you can contact ESRI Customer Service or your local distributor.

Upgrading Metadata to 9.0x

At ArcIMS 9.0x, the tables associated with a Metadata Service have changed to improve performance and scalability. This change requires you to upgrade the metadata tables in the database before starting your Metadata Service in ArcIMS 9.0x. Performing this upgrade will not delete any metadata documents published to your metadata database. Detailed instructions for performing an upgrade can be found in *Creating and Using Metadata Services*.

Uninstalling ArcIMS 4.0

You must remove the following items to uninstall ArcIMS:

1. The ArcIMS 4.0 files ArcIMSSite.sez (configuration file for saved services) and ArcIMSFolders.sez contain your ArcIMS preferences. These files are located at <ArcIMS Installation Directory>/Middleware/Application_Server. It is recommended that you Back up these files prior to installation.
2. Remove <ArcIMS Installation Directory>/aims40exe.
3. Remove the following from the appropriate Web server location:
 - com directory
 - Esrimap_prop
 - ServletConnector_Res.properties
 - ServletConnector_Res_en_US.properties
 - WMSEsrimap_prop
4. Remove the following files from your \$HOME directory:
 - aimsdefaults.properties
 - aimsproxy.properties

Uninstalling ArcIMS 4.0.1

You must remove the following items to uninstall ArcIMS:

- Remove <ArcIMS Installation Directory>/arcims.
- Remove the following from the appropriate Web server location:
 - com directory
 - Esrimap_prop
 - ServletConnector_Res.properties
 - ServletConnector_Res_en_US.properties
 - WMSEsrimap_prop
- Remove the following files from your \$HOME directory:
 - aimsdefaults.properties
 - aimsproxy.properties, if applicable

Note: If you are using Sun Java System (formerly Sun ONE) 6.0 with ArcIMS, before Sun Java System (formerly Sun ONE) 6.0 will restart you must remove all references to ArcIMS from the web-apps.xml file located in: <Sun Java System (formerly Sun ONE) 6.0 Installation Directory>/servers/https-<localhost>.<domain>.com/config.-<localhost>.<domain>.com/config

Step 1: Verify system requirements

The system specifications, including hardware requirements, supported operating systems, file sets, J2SE SDK, and Web servers and servlet engines, that are required to run ArcIMS on Solaris are available at <http://support.esri.com>. Visit <http://support.esri.com>, select software > ArcIMS > System Requirements and verify that your machine meets system requirements before installing ArcIMS.

Supported operating systems

- HP-UX 11.11 (32-bit)

Tips

- ESRI recommends that you execute ArcIMS from a C shell. The instructions in this installation document are for a C shell environment setup only.
- The X Windows environment must be installed to use ArcIMS. X Windows is usually installed by default with the operating system.

Remote installations

To install ArcIMS remotely using the setup program dialogs, run the command `xhost +` to enable the X Windows display of a remote machine before running the setup program. On the machine used to view the setup program dialogs, set the DISPLAY environment variable to this machine.

Disk Space Requirements

A typical installation • 420 MB

A complete installation • 904 MB

Temp space requirements

The ArcIMS setup program requires 230 MB of temporary space for the extraction of installer resources. By default, installer resources are extracted to the system /tmp directory. If the required space is not available in the /tmp directory, the setup program will attempt to extract installer resources to the user's HOME directory. If the required space is not available in the user's HOME directory, the setup program will report an error indicating this problem.

ArcIMS 9.1 for HP-UX Install Guide

You may specify an alternate /tmp location by setting the following environment variable:

For c shell:

```
$ setenv IATEMPDIR /your/temp/space/directory
```

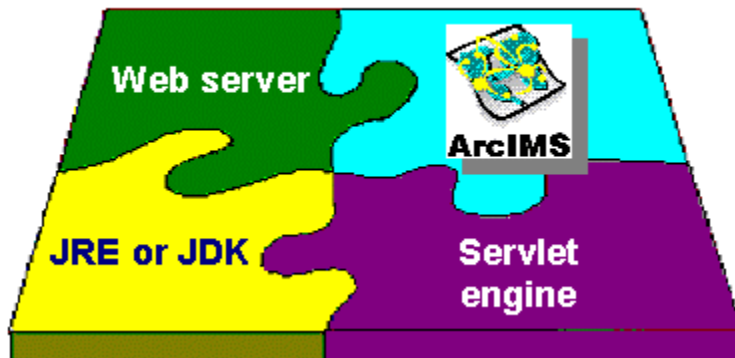
For bourne shell:

```
$ IATEMPDIR=/your/temp/space/directory
```

```
$ export IATEMPDIR
```

If the directory indicated by IATEMPDIR does not exist, the setup program will report an error indicating this problem.

The following system software is required to run ArcIMS.



Web server

ArcIMS works in conjunction with Web server software. A Web server must be installed and operational in order to start serving maps.

For information on setting up your Web server and Servlet Engine visit <http://support.esri.com/search/KbDocument.asp?dbid=28543>.

System administration access to the Web server computer is necessary, and knowing how to stop and start your Web server is mandatory.

For supported Web servers see [Supported Software Environments](#).

Servlet engine

ArcIMS requires a servlet engine if the Web server does not support servlets natively. For information on setting up your Web server and Servlet Engine visit <http://support.esri.com/search/KbDocument.asp?dbid=28543>.

The servlet engine must use Java 2 Platform Standard Edition Runtime Engine (J2SE JRE) or Java 2 Platform Standard Edition Software Development Kit (J2SE JDK) 1.3.1 or higher.

Step 1: Verify system requirements

For supported servlet engines see [Supported Software Environments](#) for other servlet engines and their ESRI support level.

Java 2 Platform Standard Edition Java Runtime Environment (J2SE JRE)

Java 2 Platform Standard Edition Java Runtime Environment (J2SE JRE) version 1.4.2_06 is installed with ArcIMS 9.1. J2SE JRE 1.4.2_06 will be installed in <ArcIMS installation directory>/arcims/jre.

Tips

- J2SE JRE 1.3.1_03, 1.3.1_04, 1.4.0_01 and 1.4.0_03 are NOT supported for use with ArcIMS 9.1.

Additional system requirements

For all other additional system requirements, such as supported versions of Web browsers, ColdFusion, and all additional requirements for ArcMap Server, ArcIMS Metadata Service, Service Administrator, Application Server Connectors and ArcSDE, visit <http://support.esri.com> and select software > ArcIMS > System Requirements.

ArcGIS Authorization file

ArcIMS Spatial server requires an ArcGIS authorization file for use. See [To obtain an Authorization file](#) for more information. Each new version of ArcIMS requires a new authorization file.

To obtain an authorization file

There are several ways to register ArcIMS. You can visit <https://service.esri.com> to obtain an authorization file (by email, fax, phone or mail) before installing. You can also register ArcIMS using the post installation setup after installing ArcIMS (this is the recommended method). See [ArcIMS Authorization configuration](#) for registration methods using the post installation setup. If the Internet is not available, you can contact ESRI Customer Service or your local distributor.

ArcIMS Spatial server requires an ArcGIS authorization file for use. Each new version of ArcIMS requires a new authorization file.

Step 2: ArcIMS configuration

Planning an ArcIMS site configuration

An ArcIMS site can consist of one or more computers, depending upon the needs of your site. It is therefore advisable to plan your ArcIMS site configuration before installing ArcIMS. This section includes an overview, and some common site configuration scenarios to help get you started on planning your ArcIMS site configuration.

Overview

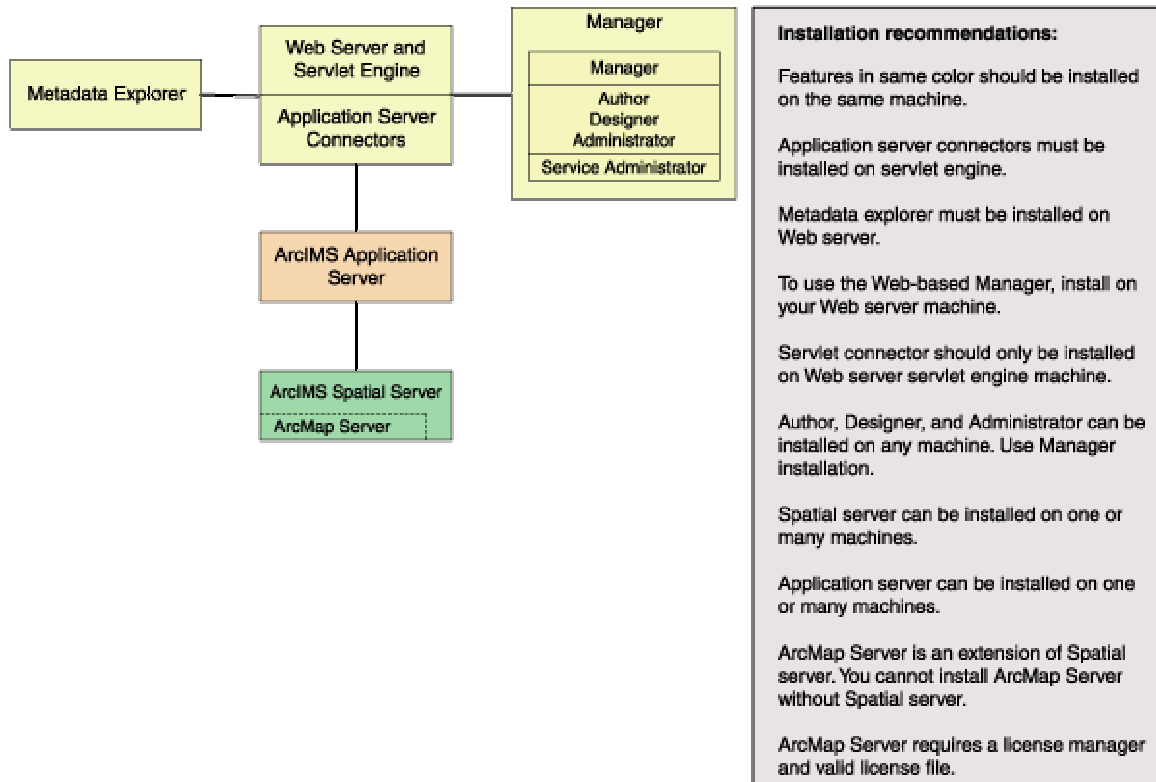
The ArcIMS architecture and functionality has been engineered specifically to serve geographic data and services on the Internet. The software is designed so that it is easy to create maps, develop Web pages that communicate with the maps, and administer the ArcIMS site. The software is also designed for distribution across a network and for scalability as the demand for maps increase.

An ArcIMS site consists of one or more computers where the ArcIMS host (ArcIMS Manager (includes Manager, Manager Applications and Service Administrator), Application Server Connectors and ArcIMS Application Server), ArcIMS Spatial Servers and data reside. The Application Server Connectors, ArcIMS Application Server, and ArcIMS Spatial Server are the components needed to create and manage services that process requests and responses. The ArcIMS framework also requires a Web server, Java Runtime Environment (J2SE JRE), and servlet engine. For more information on these components see the Overview topic of the Install Guide Introduction.

The ArcIMS site management applications (Manager, Author, Designer and Administrator, and Service Administrator), provide access to ArcIMS components for authoring maps, administering ArcIMS services and Spatial Servers, and designing Web sites. If you want to use the Web based Manager, it is strongly recommended that Manager be installed on your Web server machine. The Manager Applications (Author, Designer and Administrator) can be used on any machine. A Manager installation will install Manager, Manager Applications (Author, Designer and Administrator) and Service Administrator.

There are many possible ArcIMS site configurations. Some sites run all ArcIMS components on a single computer while other sites are comprised of multiple computers. Configurations will vary depending on the available computer resources and the mapping services provided. For ArcIMS Spatial Servers, processing speed and the ability to handle the load are important. Will the ArcIMS Services perform process-intensive functions or create basic map displays? How many services will be created at one time? Will the Web server computer be dedicated to the Web site or used for other purposes as well? Answers to these types of questions will assist in planning an ArcIMS site configuration.

Configure an ArcIMS site based on the anticipated number of simultaneous users visiting the site and the number of maps generated each day. For example, a Web site with very few anticipated users, averaging 100 to 1,000 maps per day, could run from one computer. A high volume Web site, with 100,000 to 1,000,000 maps per day, should be distributed to multiple ArcIMS Spatial Servers.



When planning your ArcIMS site configuration, there are some installation recommendations to take into account. The installation configuration diagram above illustrates ArcIMS installation features and some of the installation recommendations.

- The ArcIMS features in the installation configuration diagram, illustrated in the same color, should be installed on the same machine.
 - The Application Server Connectors must be installed on your Web server machine.
 - Metadata Explorer must be installed on your Web server machine.
 - To use Manager (the Web-based application used to author, design and administer), it is recommended that Manager be installed on your Web server machine.
- The ArcIMS Servlet Connector should only be installed on the Web server machine.
- The Manager Applications (Author, Designer and Administrator) can be installed on any machine. To install these applications, perform a Manager

installation. A Manager installation will install Manager and Author, Designer and Administrator, and Service Administrator.

- Spatial Server can be installed on one machine or many machines. Each Spatial Server installation needs to know the name of the machine where the Application Server is installed. The post installation will prompt you for the name of the Application Server and edit the monitor.properties file accordingly. One Spatial Server can not support multiple Application Servers, but one Application Server can support multiple Spatial Servers. An ArcGIS Authorization File is required to install ArcIMS Spatial Server.
- Application Server can be installed on one machine or many machines. Each Application Server installation needs to know the name of the Web server. The post installation will prompt you for the name of the Web Server and edit the site preferences and diagnostics property files.
- ArcMap Server is an extension of Spatial Server. You can not install ArcMap Server without installing Spatial Server. An ArcGIS Authorization File is required to install ArcMap Server. ArcMap Server is only available on Windows, Solaris and Linux platforms.
- ArcSDE Services Monitor can exist on any machine where ArcSDE is installed.

ArcIMS background processes

There are three background processes (Windows services or UNIX/Linux daemons) associated with ArcIMS:

- ArcIMS Application Server 9.1. The Application Server service is installed with the ArcIMS Application Server.
- ArcIMS Monitor 9.1. The Monitor service is installed with Spatial Server and ArcSDE Services Monitor.
- ArcIMS Tasker 9.1. The Tasker service is installed with the ArcIMS Application Server.

Common site configuration scenarios

This section presents a series of common configuration scenarios that illustrate how to distribute various installation components across various computer platforms.

[ArcIMS site on one machine](#)

[Multiple ArcIMS Spatial Servers](#)

[Dedicated Web server machine](#)

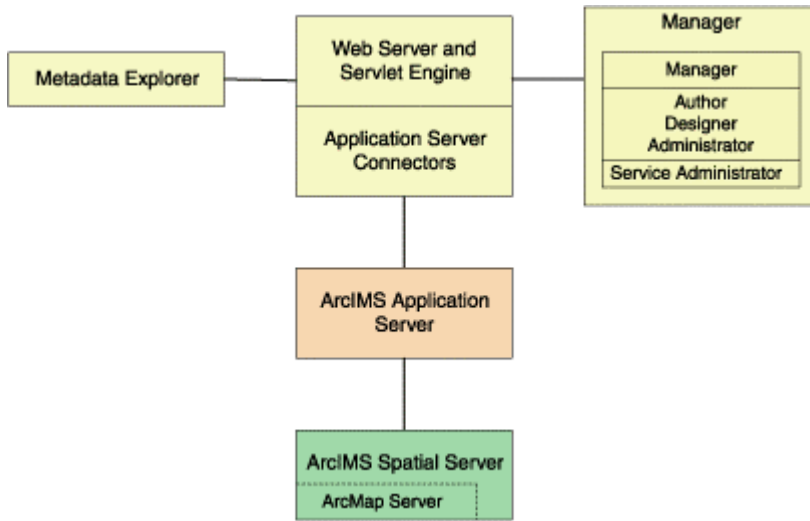
[Multiple Application Servers](#)

ArcIMS site on one machine

The ArcIMS site must have a Web server configured and communicating with a servlet engine before installing ArcIMS.

The entire ArcIMS site on one machine is referred to as a typical installation. This installation consists of the ArcIMS host (ArcIMS Manager, Application Server Connectors and ArcIMS Application Server) and ArcIMS Spatial Server installed on the Web server machine. A typical installation of ArcIMS will install Manager, the ArcIMS Application Server, the default ArcIMS Application Server Connector (the Servlet Connector), and the ArcIMS Spatial Server. Additionally, a typical ArcIMS installation will install Metadata Explorer, and some selected samples and documentation.

This site configuration is useful for those with limited resources or light server loads. If you are new to ArcIMS, start with this site configuration.



See [Performing a typical installation](#) for steps on installing these ArcIMS components on the same computer. To include ArcMap Server, leave all installation features checked, and in-addition check the box to install ArcMap Server.

Multiple ArcIMS Spatial Servers

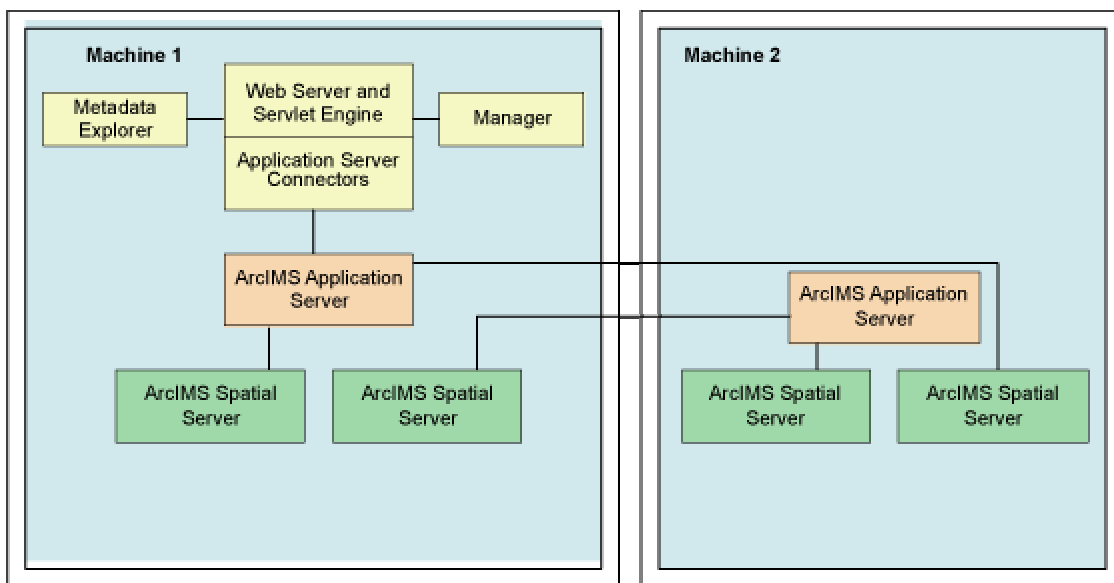
Additional ArcIMS Spatial Servers can be added to the ArcIMS site configuration, as the number of requests increases, if redundancy needs to be built in or to optimize performance.

There is no one formula for determining how many ArcIMS Spatial Servers are needed. The Spatial Server configuration will vary among ArcIMS sites depending on the number and size of services, time required to process requests, number of requests, Web and network traffic, and other factors specific to the site.

Since it is possible to have multiple ArcIMS Spatial Servers on multiple machines, a mechanism is needed to manage these Spatial Servers and the services running on them. ArcIMS uses a Virtual Server concept to manage services on multiple ArcIMS Spatial Servers. See the ArcIMS technical paper, *ArcIMS 4 Architecture and Functionality*, located on <http://support.esri.com> and the *ArcIMS Help* for more information on managing Spatial Servers and Virtual Servers.

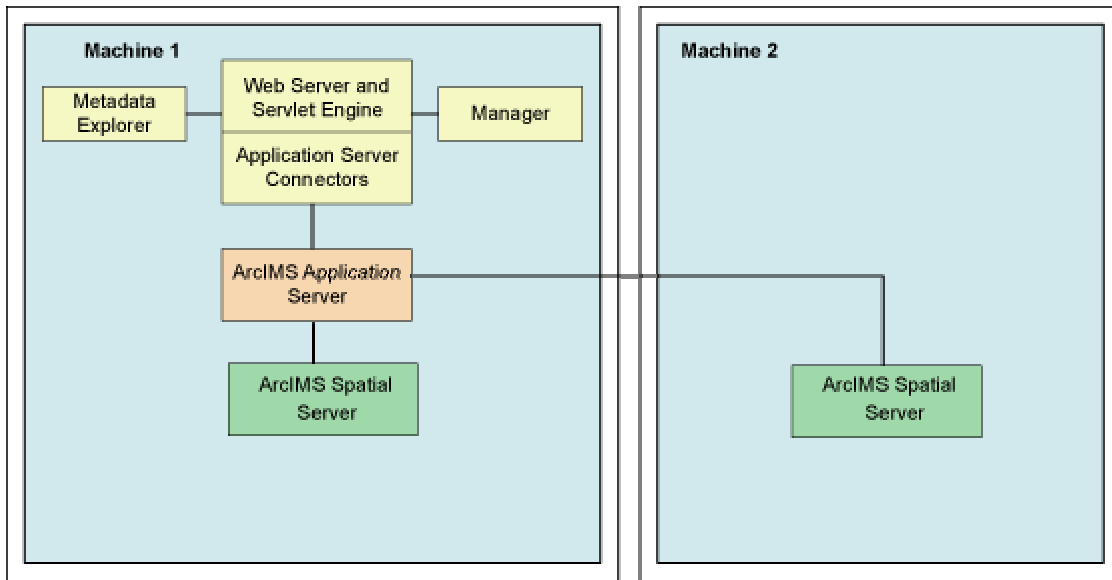
Spatial Servers can be distributed across an ArcIMS site in several ways as illustrated below.

- This configuration illustrates two ArcIMS Spatial Server on the same machine.



To set up your machine with more than one ArcIMS Spatial Server on the same machine, see the topic [Installing additional ArcIMS Monitors](#). For the additional ArcIMS Spatial Server (Monitor service/background process) running on the same machine, an additional ArcIMS Application Server is required. For more information on additional ArcIMS Spatial Servers on the same machine, see *ArcIMS Help*, and the *ArcIMS High-Availability Site Configuration* whitepaper, available in PDF from the [ESRI Support Site](#).

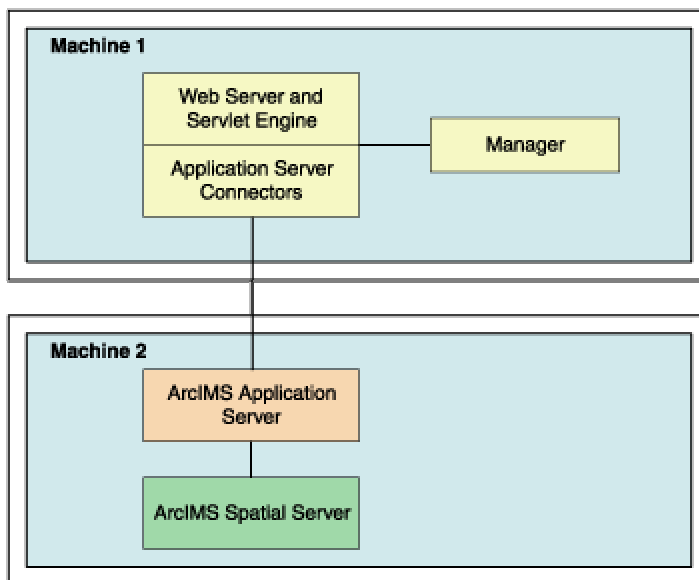
- This configuration illustrates two ArcIMS Spatial Servers on multiple machines.



To install multiple ArcIMS Spatial Servers on additional machines, see the topic [Installing multiple ArcIMS Spatial Servers on additional computers](#).

Dedicated Web server machine

Your site may require your Web server to be on one machine while the ArcIMS components reside on a different machine. In this configuration, the Application Server Connectors must reside on the same machine as the Web server.



If your Application Server is on a different machine than your Application Server Connector, some additional configuration of the Application Server Connector is required. If you are using the Servlet Connector, the Web server-servlet engine configuration available in the post installation will automatically edit your `Esrimap_prop` file with the Application Server name you provide. If you are using the ColdFusion Connector see the `CustomizingColdFusion.pdf` for details on the `servername` attribute value for any action. For the Java Connector see the `CustomizingJavaConnector.pdf` for information on the `ConnectionProxy` object or the `tcpConnection.tag`.

If you will be using Manager, Service Administrator and/or Metadata Explorer, it is also recommended that Manager, and/or Metadata Explorer be installed on the Web server machine. If you will be using Metadata Explorer and/or Service Administrator, J2SE JDK 1.3.1 or higher is required on this machine. See the topic [Verify your system requirements](#) for system requirement information.

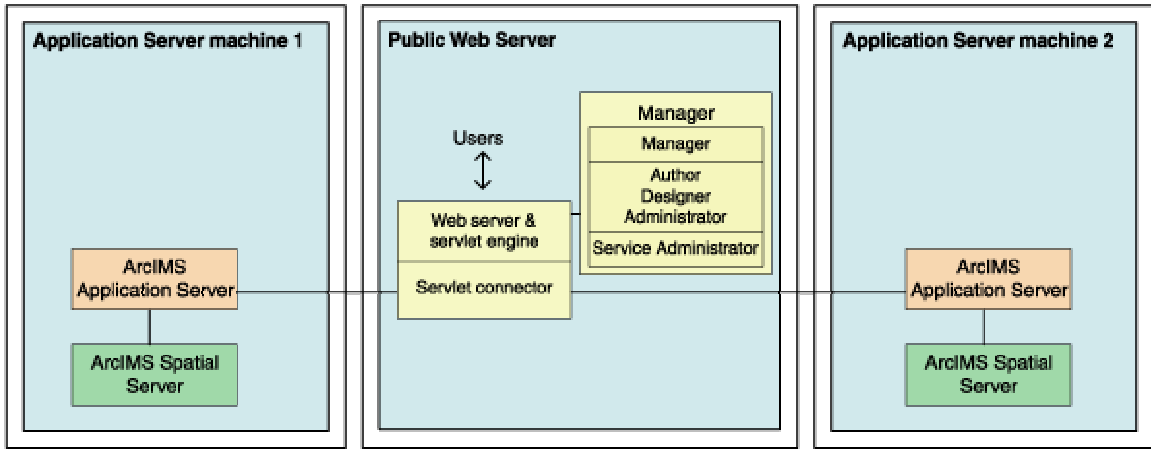
Multiple ArcIMS Application Servers

The ArcIMS Application Server runs as a background process (Windows service or UNIX/Linux daemon) and handles the load distribution of incoming requests. The Application Server also catalogs which services are running on which ArcIMS Spatial Servers. Using this information, the Application Server dispatches an incoming request to the appropriate Spatial Server.

Installing multiple ArcIMS Application Servers on different machines can improve load distribution of incoming requests and help create redundancy (failover). Installing the ArcIMS Application Server on a different machine to other ArcIMS components is common in a secure network environment where the Web server is located in the DMZ. The DMZ is established by an outside firewall. See the technical articles for ArcIMS located at <http://support.esri.com> for more information on system design strategies.

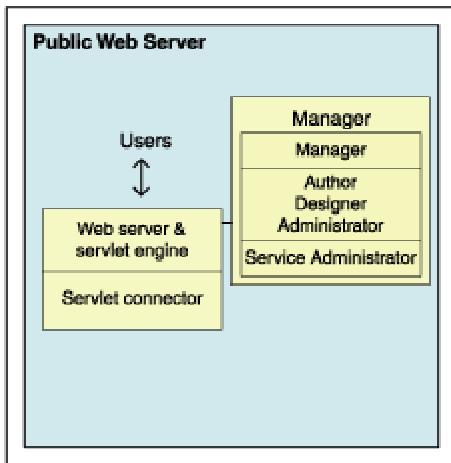
For high-volume implementations of ArcIMS, it is possible to have a single Web server communicate with several Application Servers in round-robin or failover configuration. If used for round-robin, the Application Server will rotate requests among the specified Application Servers. If used for failover, the back-up Application Server will serve maps when the primary Application Server machine is inaccessible. To support multiple Application Servers, the Application Server names and ports must be added to the `Esrimap_prop` file, located in your Web server's servlet directory. If more than one Application server is specified in the `Esrimap_prop` file, you cannot administer multiple Application Servers with Administrator. To administer multiple Application Servers, you can use the Service Administrator (installed with the Manager installation feature).

Below is an example of a multiple Application Server set up:



Steps to set up this scenario:

1. Set up a public Web server machine.



This machine will serve the Web sites to users.

1. Verify you meet system requirements, including that your Web server and servlet engine are running and communicating. For information on setting up your Web server and Servlet Engine visit <http://support.esri.com/search/KbDocument.asp?dbid=28543>. **IMPORTANT:** You will be using Service Administrator to administer the Application Servers. Service Administrator will be installed on this machine by the Manager feature. J2SE SDK is required to use Service Administrator. The document linked above includes instructions on installing J2SE SDK for your Web server and servlet engine configuration.

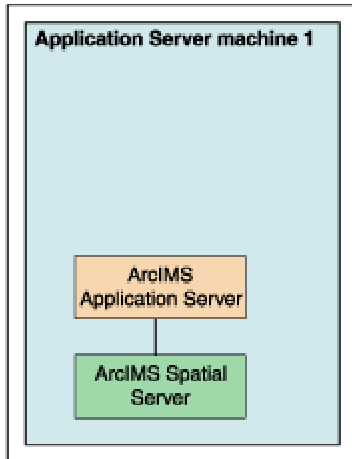
2. Run the ArcIMS setup. Choose to install the following (Uncheck all other ArcIMS installation features so that these features will not be installed):

Expand the Application Server Connectors feature, select to install the Servlet Connector only.

Select to install Manager

3. Follow the installation directions on the screen.
4. During the post installation setup you will be required to provide the following information:
 - The location of your Website and Output directories. In this scenario the Website and Output directories will be created on this machine, as this machine will be used to serve the Web sites. Choose the default directory, or change the location and create these directories on a different local drive.
 - Select to share your Output and Website directories by checking the box on the create Website and Output dialog box. Your Application Server machine will need to be able to access these directories (discussed in detail when setting up Application Server machines).
 - The location of your Axl directory. In this scenario the Axl directories will be created on this machine, as this machine will be used to serve the Web sites. Choose the default directory, or change the location and create these directories on a different local drive.
 - The name of your Web server. Enter this machine's Web server host name. By default the host name of this machine will be provided.
 - The Application Server name and ports. In this scenario you will have two Application Servers, for now enter the machine name where one of these Application Servers will be installed. By default the host name of this machine will be provided, change this to the host name of one of your Application Server machines.
 - Your Web server and servlet engine information. If you are using a Web server and servlet engine that is automatically configured for you, configuration will be performed by the post installation setup.
5. At the end of the post installation setup you will be required to stop and restart your Web server to apply configuration changes.
6. Share the directory containing the data you will be using (if it is local data and not ArcSDE data). Each Spatial Server machine must be able to access the data for map services created. The AXL files must be accessible by the Application Server.

2. Create Application Server machine 1

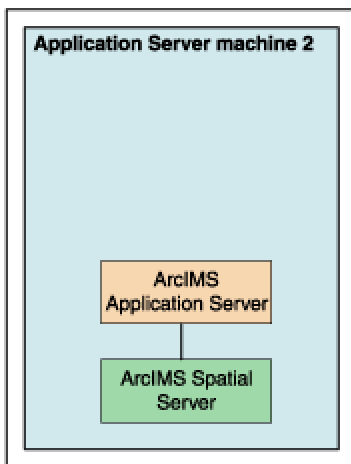


This will be the main Application Server machine. This machine will host the ArcIMS Application Server and the ArcIMS Spatial Server. The service Administrator will be used to administer this ArcIMS Application Server. We will also create an identical set up on another machine, which will be the back-up machine for failover.

1. Verify you meet system requirements.
2. Install the following ArcIMS features (Uncheck all other ArcIMS installation features so that these features will not be installed):
 - Application Server
 - Spatial Server only
3. Follow the installation directions on the screen.
4. During the post installation setup you will be required to provide the following information:
 - The location of your Website and Output directories. In this scenario browse to the Website and Output directories located on your public Web server machine (for example, UNC pathname \\publicwebserver\ArcIMS). Your public Web server machine will be used to serve the Web sites.
 - The location of your Axl directory. Browse to your public Web server machine (for example, UNC pathname \\publicwebserver\ArcIMS). Your AXL directory will be created by default under C:\ArcIMS on your public Web server machine. All Application Servers accessing the AXL files will share the files at this location.

- The name of your Web server. Enter this machine's Web server host name. By default the host name of this machine will be provided.
 - The Application Server name, and registry and connector ports. Enter this machine name, where this Application Server has been installed. By default the host name of this machine will be provided.
 - Your system domain, username and password to administer ArcIMS background processes. Enter the domain, username and password of the ArcIMS installation account. This account must have administrator privileges.
5. Each AXL file references the path to the data used. Verify that the path to the data is accessible by the Spatial Servers that are registered with the Application Servers, on Application Server machine 1 and Application Server machine 2. In general, the path to the data must be valid from the perspective of any Spatial Server. It is recommended that the path used be a UNC pathname.

3. Create Application Server machine 2



This machine will be identical to Application Server machine 1. If used for round-robin, it will rotate requests among the two Application Servers. If used for failover, it will serve maps when Application Server machine 1 is inaccessible. This machine, like Application Server machine 1, will host ArcIMS Application Server and ArcIMS Spatial Server. Service Administrator will be used to administer the Application Server.

Follow the same steps above to set up Application Server machine 2, as you did to set up Application Server machine

4. Configure the public Web server machine for multiple Application Servers

1. Find and open in a text editor the Esrimap_prop file located on your public Web server machine in the Web server servlets directory.
 - The following lists common default servlet directories for specific Web server and servlet engine combinations on Windows:
 - **Apache with Tomcat:** C:\<Tomcat installation directory>\Webapps\Servlet\WEB-INF\classes
 - **Apache with ServletExec:** C:\Program Files\New Atlanta\ServletExec AS\se-<instance name>\Servlets
 - **IBM HTTP Server with WebSphere:**
C:\Websphere\AppServer\installedApps\sampleApp.ear\default_app.war\WEB-INF\classes
 - **Sun Java System (formerly Sun ONE):**
C:\jplanet\servers\docs\servlet
 - **Microsoft IIS with JRun:** C:\Program Files\Allaire\Jrun\servlets
 - **Microsoft IIS with ServletExec:** C:\Program Files\New Atlanta\ServletExec ISAPI\Servlets
 - **Microsoft IIS with Tomcat:** C:\<Tomcat installation directory>\Webapps\ROOT\WEB-INF\classes
 - **Oracle Application Server:**
C:\Oracle\ias\Apache\Jserv\servlets
 - **WebLogic:**
C:\bea\wlserver70\config\<mydomain>\applications\DefaultWebApp\WEB-INF\classes
2. Edit the AppServerMachine parameter in the Esrimap_prop file with the names of the Application Servers you installed (The names of Application Server Machine 1 and Application Server Machine 2, for example,
appservermachine1,appservermachine2)

```
### The name of the machine or machines on which the ArcIMS Application Server is running.
### If multiple appServerMachines are specified then multiple appServerClientPort must
### also be specified.
### Example:
### appServerMachine=129.103.35.97,123.151.62.57
appServerMachine=appservermachine1,appservermachine2
```
3. Edit the AppServerClientPort parameter in the Esrimap_prop file with the registry port numbers of the Application Servers you installed (for example, 5300,5300).

```
### The port on which the ArcIMS Servlet Connector communicates with the ArcIMS Application
### Server. If multiple appServerMachines are specified,
### multiple appServerClientPorts must also be specified.
### Example:
### appServerClientPort=5300,5350
appServerClientPort=5300,5300
```

4. For round-robin, leave the failover parameter in the Esrimap_prop file set to false.

```
### Set this to True if you want all requests to be sent to the first
### appserverMachine until it fails to return a response. Then requests will
### be sent to the second machine in the appserverMachine list. If failover is
### set to False, the appserverMachines will be used in a round robin manner.
### This property only works with ArcExplorer, Java Viewers, and HTML Viewers.
failover=False
```
5. For failover, set the failover parameter in the Esrimap_prop file to true. This will specify that requests should be sent to the first Application Server machine listed, until it fails to return a response, then requests will be sent to the next Application Server listed.

```
### Set this to True if you want all requests to be sent to the first
### appserverMachine until it fails to return a response. Then requests will
### be sent to the second machine in the appserverMachine list. If failover is
### set to False, the appserverMachines will be used in a round robin manner.
### This property only works with ArcExplorer, Java Viewers, and HTML Viewers.
failover=False
```
6. After editing the Esrimap_prop file, save changes and stop and restart your Web server.

5. Create your map services for both Application Servers.

The Service Administrator will be used to administer the ArcIMS Application Servers. If you met all system requirements, and you used the post installation setup to configure your Web server, the Service Administrator will have been set up. If you manually configured your Web server you must manually configure your Web server for Service Administrator (see [Configure your Web server for Service Administrator](#)).

To access Service Administrator open your browser (on any machine), and type:
`http://<Web server machine name>/esriadmin`

For example: `http://publicwebserver/esriadmin`

By default the log in page for Application Server 1 will be displayed. The Application Server specified in the esriadmin.properties file determines the default log in page displayed. Provide the user name and password to log in to administer Application Server 1.

To administer Application Server 2, adapt the URL as follows:

```
http://<Web server machine
name>/esriadmin/logincheck.jsp?host=<Application Server Machine
2>&port=<appservermachine2port>
```

For example:

```
http://publicwebserver/esriadmin/logincheck.jsp?host=appservermachine2
&port=5300
```

For more information on using Service Administrator, see the ArcIMS Help.

Services created on each Application Server should be completely identical. The image below illustrates the parameters used in this scenario to create new services on Application Server machine 1 and Application Server machine 2. The public Web server machine serves the Web sites to the users, so the output files should be stored on this machine. The Server output locations were manually changed to point to the public Web server machine (In this example, "publicwebserver" will be the host name of your public Web server machine). In this example, the Axl file used is also stored on the public Web server machine, the UNC pathname to the Axl file is provided in the File Path field.

Home | Manage Services | **Add Service** | Configure Site

Help | Save Startup File

Settings for New Service

Name:

Virtual Server:

File Path:

Settings for Image and Metadata Services

Output File Path:

Output URL:

Clean Up Interval:

Image Format: *Image Services only

Image Memory Limit: *Image Services only

Once you have determined your ArcIMS site configuration, see Step 3a: Installing ArcIMS.

Step 3a: Installing ArcIMS 9.1

Installing ArcIMS overview

The ArcIMS 9.1 install consists of two parts, the installation and the post installation.

- The installation is the setup process where you determine what installation features you would like to install. The setup program will install the files required for these features.
- The post installation is the setup process that completes your ArcIMS installation. In the post installation setup, depending on what features were installed, you will be able to authorize ArcIMS for use, configure ArcIMS, set up the Site Information Converter, and configure your Web server-servlet engine. See the [post installation setup](#) section for more information.

To successfully install ArcIMS 9.1, both the installation and post installation must be completed.

To install ArcIMS 9.1

Choose the installation steps for your configuration:

[Performing a typical installation](#)

[Installing ArcIMS custom Application Server Connectors](#)

[Installing ArcIMS Manager Applications](#)

[Installing ArcIMS Service Administrator](#)

[Installing multiple ArcIMS Spatial Servers](#)

[Installing additional ArcIMS Monitors](#)

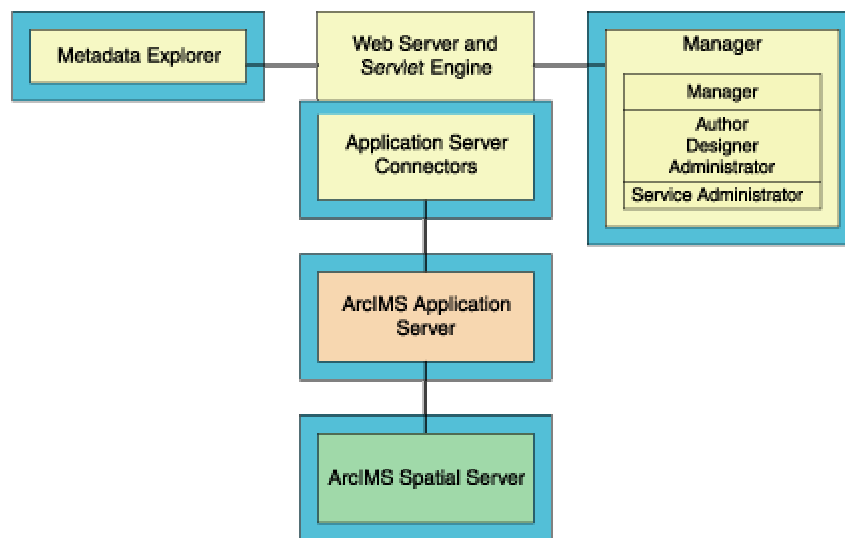
[Installing Metadata options](#)

[Installing ArcIMS in console mode](#)

Performing a typical installation

In this installation scenario, your Web site uses the resources of one computer; Web server software and ArcIMS are installed on the same computer. This configuration is useful for those with limited resources or light server loads. If you are new to ArcIMS, start with this installation and install the pre-selected features; referred to as a typical installation. The main ArcIMS features installed with a typical ArcIMS installation are highlighted in the diagram below. Note: All Application Server connectors are not installed; by default a typical installation installs the Servlet Connector. A typical ArcIMS installation assumes that your machine has met system requirements, and a Web server and servlet engine are installed and communicating. For more information on these features see the [Overview](#) and [ArcIMS site configuration](#) topics. You can access Manager remotely from any computer using your Internet Explorer web browser; you only need one Manager per ArcIMS web site.

The ArcIMS Host is considered to be the ArcIMS Manager, Application Server Connectors and ArcIMS Application Server. The ArcIMS Host is typically installed on the Web server machine. A typical ArcIMS installation, as described below, will install the ArcIMS Host and ArcIMS Spatial Server on the same machine as your Web server.

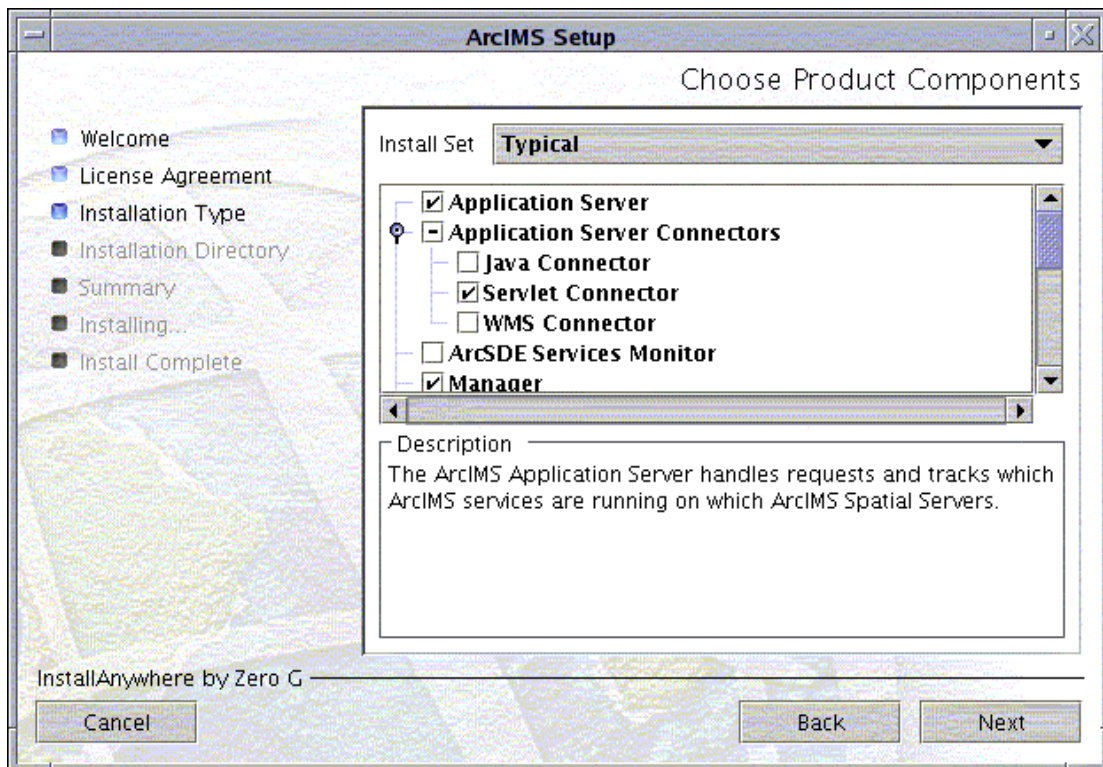


How to prepare to install ArcIMS

1. Verify that your site meets the system requirements. For system requirement information see [Step 1: Verify system requirements](#)
2. Make sure that the user account that installs ArcIMS has write permissions to the installation directory. **Note: For security reasons, don't install ArcIMS as super user. ESRI recommends that you create a separate user account for installing and administering ArcIMS.**
3. Execute the SetupArcIMS script located on the ArcIMS CD.

How to install ArcIMS

- During the installation you will be asked to read the license agreement and accept it, or exit if you don't agree with the terms.
- The ArcIMS install allows you to select the features you would like to install.



- By default the features of a typical ArcIMS installation are selected to be installed. A typical installation includes the features most commonly installed on one machine. The main features installed with a typical ArcIMS installation are highlighted in the diagram above (note: All Application Server connectors are not installed; by default a typical installation installs the Servlet Connector). For more information on these features see the [Overview](#) and [ArcIMS site configuration](#) topics.
- The ArcIMS installation consists of a collection of features and sub-features. An example of a feature is Spatial Server, which consists of a sub-feature, ArcMap Server. Many ArcIMS installation features contain sub-features. These features can be added a later stage. See [Adding additional installation components](#) for more information.

- To complete the installation, follow the directions on the screen.
- **Complete the post installation setup**

After completing the ArcIMS installation, you will be provided with the opportunity to begin the post installation setup. The following ArcIMS post installation options are required to successfully complete a typical ArcIMS installation:

[ArcIMS Configuration](#)

[Web Server-Servlet Engine Configuration](#)

If you select a typical post installation setup these post installation options are automatically selected. See [The Post Installation](#) topic for information on the post installation setup.

Before you begin ArcIMS, if you did not choose to automatically configure your Web server-Servlet Engine in the post installation, you must complete [Step 4: Configure your Web Server](#), either manually or by running the post installation setup again.

Tip

- The Spatial Server uses TrueType fonts located in:

`/usr/lib/X11/fonts/ms.st/typeface`. International fonts used are located in:
`/usr/lib/X11/fonts/TrueType/<language>/st`

ArcIMS Author and ArcExplorer Java use fonts from the font.properties file located at: `<JREHOME>/lib` or `<$JAVA_HOME>/lib`

You can modify the font property file for your own font by following the instructions from this link:

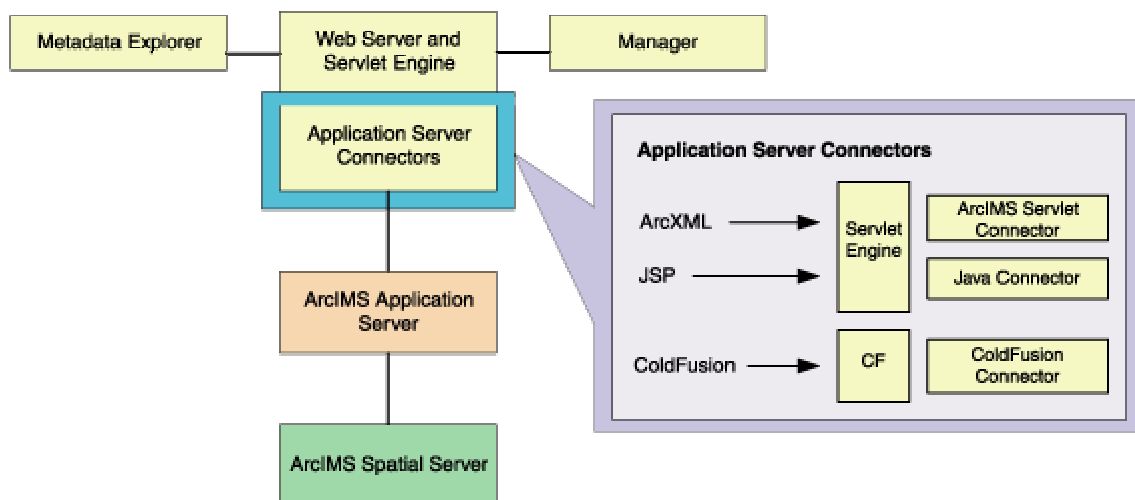
<http://java.sun.com/j2se/1.4.2/docs/guide/intl/fontprop.html>

- When choosing to install ArcIMS Metadata Explorer or ArcIMS Manager Applications, you do not have to install the Java connector because the files are included with these installation features.

Installing ArcIMS custom application server connectors

In this installation scenario, you select an ArcIMS Application Server Connector depending on the development environment you plan to use for creating Web pages. The available Application Server Connectors on HP-UX are ArcIMS Servlet Connector, Java Connector, WMS Connector and WFS Connector.

The Application Server Connectors reside on the Web server computer. Each Web server can have more than one Application Server Connector, as long as they are of different types.



The Servlet Connector is the standard ArcIMS Connector. The typical installation installs this connector. You need this connector if you plan to administer Web pages or use the Web design tools in ArcIMS (Author and Designer). The Servlet Connector also provides MapService-level user password authentication.

The WMS connector for ArcIMS enables ArcIMS to work within the OGC WMS (Open GIS Consortium standard Web Map Service) specification. The WFS Connector for ArcIMS enables ArcIMS to work within the OGC WFS (Open GIS Consortium standard Web Feature Service) specification. The Java Connector communicates with the ArcIMS Application Server and a JSP client.

The ColdFusion Connector is not available on HP-UX.

Tip

- These instructions describe an ArcIMS custom Application Server connector installation only. To install the ArcIMS Manager Applications, ArcIMS Application Server and ArcIMS Spatial Server, refer to [Performing a typical](#)

installation.

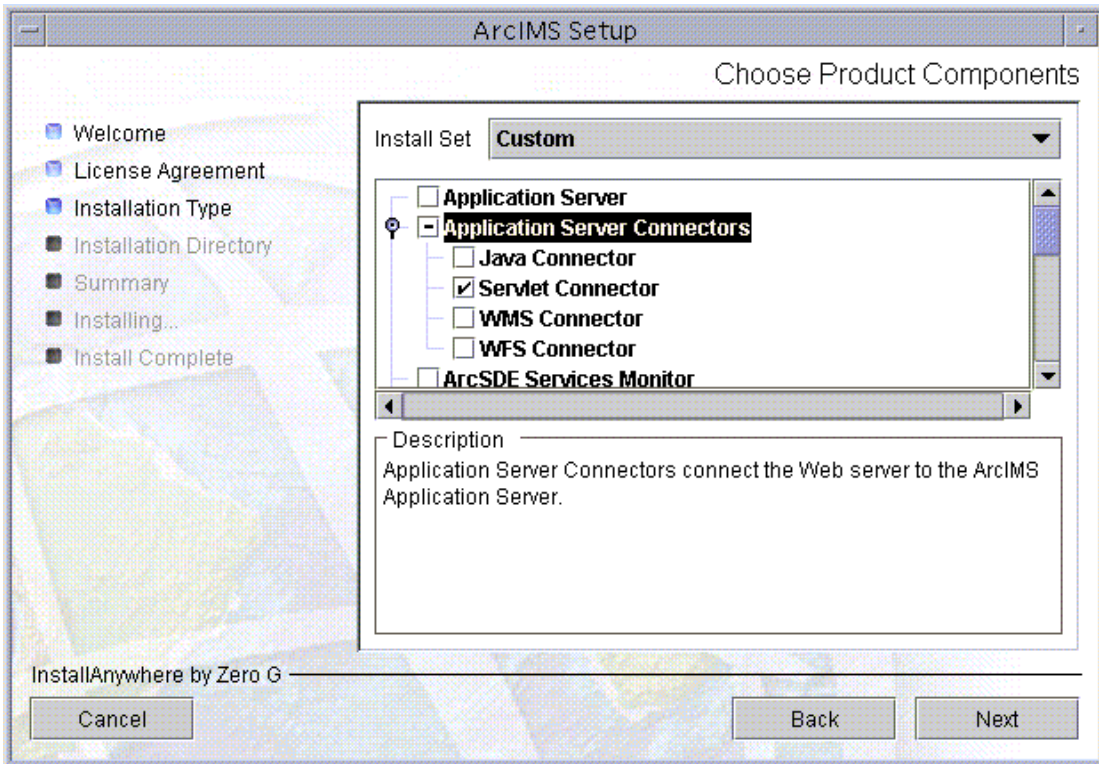
How to prepare to install ArcIMS custom Application Server Connectors

Perform the following steps on the computer where you want to install ArcIMS Application Server and custom Connectors:

1. Verify that your site meets the system requirements. For system requirement information see [Step 1: Verify system requirements](#)
2. Make sure that the user account that installs ArcIMS has write permissions to the installation directory. **Note: For security reasons, don't install ArcIMS as super user. ESRI recommends that you create a separate user account for installing and administering ArcIMS.**
3. Execute the SetupArcIMS script located on the ArcIMS CD.

How to install ArcIMS custom Application Server Connectors

- During the installation you will be asked to read the license agreement and accept it, or exit if you don't agree with the terms.
- At the Choose Product Components dialog, from the Install Set dropdown list, select Custom. By default, the features installed by a typical installation are selected. Unselect all the features you do not wish to install. The Application Server Connectors feature contains the Java Connector, Servlet Connector, WMS Connector and WFS Connector. Select the custom Application Server Connector you would like to install.



- There are also Application Server Connector Documentation and Samples available to install. Select the Samples you would like to install. Documentation is available from the ESRI Software Documentation Library CD.
- To complete the installation, follow the directions on your screen.

Tips

- The ArcIMS Servlet Connector is already installed if you previously performed a typical ArcIMS installation.
- When choosing to install ArcIMS Metadata Explorer or ArcIMS Manager Applications, you do not have to install the Java connector because the files are included with these installation features.

• **Complete the post installation setup**

The following ArcIMS post installation options are required to successfully install custom Application Server Connectors:

[ArcIMS Configuration](#)

[Web Server-Servlet Engine Configuration](#) (required only if the ArcIMS Servlet Connector was installed)

If you select a typical post installation setup these post installation options are automatically selected. See [The Post Installation](#) topic for information on the post installation setup options.

- **Additional configuration steps for custom Application Server Connectors**

Before the installation is complete, configure the connector you installed:

[ArcIMS Java Connector](#)

[ArcIMS Servlet Connector](#)

[WMS connector](#)

[WFS Connector](#)

Tips

- To install the Z39.50 Connector, the OAI-PMH Connector, or the CS-W Connector see [Installing Metadata options](#).

ArcIMS Java Connector

No additional configuration is required to install the Java Connector. See *Customizing ArcIMS—Using the Java Connector* for information on developing and deploying applications that use the Java connector. See the readme file under <ArcIMS installation location>/arcims/Samples/Java for information on how to deploy the Java connector samples.

ArcIMS Servlet Connector

If you installed the ArcIMS Servlet Connector, before you begin using ArcIMS software, you must configure your Web server and Servlet Engine. Your Web server and Servlet Engine can be configured automatically using the post installation setup, or manually.

To automatically configure your Web server and Servlet Engine use the post installation setup. See the [Web server-Servlet Engine Configuration](#) option for information on the following automated Web server Servlet Engine configurations:

- Apache 2.0.4x with ServletExec 5.0
- Apache 2.0.4x with Tomcat 4.1.xx/5.0.x (mod_jk2)
- IBM HTTP Server 1.3.26 with WebSphere 5.0
- Oracle Application Server 9i (9.0.3)
- Oracle Application Server 10g
- Sun Java System (formerly Sun ONE) Web server 6.1 SP 2
- Sun Java System (formerly Sun ONE) Application Server 7.0
- WebLogic 7.0 SP 1/WebLogic 8.1

To manually configure your Web server and Servlet Engine for ArcIMS use these steps:

- [Apache 2.0.4x with ServletExec 5.0](#)
- [Apache 2.0.4x with Tomcat 4.1.xx/5.0.x \(mod_jk2\)](#)
- [IBM HTTP Server 1.3.26 with WebSphere 5.0](#)
- [Oracle Application Server 9.0.3/10g](#)
- [Sun Java System \(formerly Sun ONE\) Web server 6.1 SP 2](#)
- [Sun Java System \(formerly Sun ONE\) Application Server 7.0](#)
- [WebLogic 7.0 SP 1/WebLogic 8.1](#)

For information on the ArcIMS Servlet Connector, see ArcIMS Help.

WMS Connector

If you chose to install the WMS connector and you completed the Web server-servlet engine configuration in the post installation setup, step 1 below will have automatically been completed for you. However, if you chose to install the WMS connector and you did not complete the post installation setup, you must manually configure your Web server and servlet engine. To manually configure your Web server and servlet engine, follow these steps:

The WMS connector setup feature will install a WAR file named `wmsconnector.war` in the following location: `<ArcIMS installation directory>\arcims\Middleware\wms_connector`

1. Deploy the `wmsconnector.war` file

After installing the WMS connector, you must deploy the WMS Connector WAR file. The steps to deploy the WAR file depend on your Web server and servlet engine. For supported Web servers see [Supported Software Environments](#).

Select your Web server and servlet engine for instructions on deploying the WMS connector:

- [Apache with ServletExec](#)
- [Apache with Tomcat](#)
- [Oracle Application Server](#)
- [Sun Java System Web Server 6.1 sp2](#)
- [Sun Java System Application Server 7.0](#)
- [WebLogic](#)
- [Websphere](#)

2. Verify that the WMS connector is installed

After deploying the WMS connector into your Web server and servlet engine environment, type the following URL in a Web browser to verify that it has been installed correctly.

`http://<hostname>/<deploy_name>/com.esri.wms.Esrimap?cmd=connectorPing`

where

`<hostname>` is the URL domain name for your site such as `www.esri.com` or `localhost`.

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<deploy_name> is the name you assigned when you deployed the WMS Connector. The recommended deployment name is "wmsconnector".

For more information on the URL and the connectorPing command, see the WMS connector documentation available from the ESRI Documentation Library CD.

After you have verified the WMS Connector is communicating properly, you can start administering the WMS connector. For more information on administering the WMS connector see the WMS connector documentation available from the ESRI Documentation Library CD.

Configuring WMS connector for Apache with ServletExec

If you chose to install the WMS connector and you completed the Web server-servlet engine configuration in the post installation setup, these manual steps will have automatically been completed for you.

Follow these steps to manually configure Apache with ServletExec for the WMS Connector:

1. Locate the file `wmsconnector.war` in the `<ArcIMS Installation Directory>/arcims/Middleware/wms_connector` directory. This is the WAR file you will deploy.

2. Start the Apache and ServletExec services.

3. In your web browser, to open ServletExec Admin type
`http://<localhost>/servletexec/admin` for ServletExec 5.0

4. In the left sidebar under Web Applications, click manage.

5. Click Add Web Application.

6. For Application Name, type: `wmsconnector`

7. For URL Context Path, type: `/wmsconnector`

This is the name you will use to run the WMS Connector.

Note: The context path you specify is case sensitive. You might want to create more than one Web Application with path names like `WMSConnector` or `WMSCONNECTOR` pointing to the ArcIMS WMS Connector.

8. For Location, type: `<ArcIMS Installation Directory>/arcims/Middleware/wms_connector/wmsconnector`

9. Click Submit and close ServletExec Admin.

10. Stop and Start Apache web server and ServletExec and close the Services window.

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When you deploy the WAR file, the servlet engine expands the WAR file. The default location is <ServletExec Installation Directory>/NewAtlanta/ServletExecAS/se-<instance>/ServletExecData/default/wmsconnector/WAR.

To complete configuration of the WMS connector, you must [verify that the connector was successfully installed](#).

Configuring WMS connector for Apache with Tomcat

If you chose to install the WMS connector and you completed the Web server-servlet engine configuration in the post installation setup, these manual steps will have automatically been completed for you.

Follow these steps to configure Apache 2.0.4x with Tomcat 4.1.xx/5.0.x (mod_jk2) for the WMS Connector:

1. Locate the file `wmsconnector.war` in the `<ArcIMS Installation Directory>/arcims/Middleware/wms_connector` directory. This is the WAR file you will deploy.
2. Copy `wmsconnector.war` to `<Tomcat Installation Directory>/webapps`.
3. Stop the Tomcat and Apache services.
4. Navigate to `<Apache Installation Directory>/conf/workers2.properties`. Add `[uri:wmsconnector/*]` to the file.
5. Start the Tomcat and Apache services by typing:

```
setenv JAVA_HOME <J2SE SDK Installation Directory>
setenv PATH $JAVA_HOME/bin:$PATH
<Tomcat Installation Directory>/bin/startup.sh
<Apache Installation Directory>/bin/apachectl start
```

When you deploy the WAR file, the servlet engine expands the WAR file. The default location is `<Tomcat Installation Directory>/webapps/wmsconnector`.

To complete configuration of the WMS connector, you must [verify that the connector was successfully installed](#).

Configuring WMS connector for Oracle Application Server

If you chose to install the WMS connector and you completed the Web server-servlet engine configuration in the post installation setup, these manual steps will have automatically been completed for you.

Follow the steps below to configure Oracle Application Server 9.0.3 or Oracle Application Server 10g:

1. Locate the file `wmsconnector.war` in the `<ArcIMS Installation Directory>/arcims/Middleware/wms_connector` directory. This is the WAR file you will deploy.
2. Open the Oracle Enterprise Manager in your Web browser (<http://mymachine.esri.com:1810>).
3. For OAS 9.0.3, click the `OC4J_home` link from the list of System Components.
For OAS 10g, click the `home` link from the list of System Components.
4. For OAS 9.0.3, on the `OC4J_home` page click the `Deploy War file` link under the `Applications` section to open the `Deploy Web Application` page.
For OAS 10g, on the `home` page click the `Deploy War file` link under the `Applications` section to open the `Deploy Web Application` page.
5. For `Web Application`, click `Browse` and navigate to `<ArcIMS Installation Directory>/arcims/Middleware/wms_connector/wmsconnector.war`.
6. For `Application Name` type `wmsconnector`
7. For `Map to URL` type `/wmsconnector`
8. Click `Deploy` to deploy the `wmsconnector.war` file. The WMS Connector is installed in the `<Oracle Application Server Installation Directory>/j2ee/home/applications` directory.
9. Click `OK` when the `Confirmation` is displayed.
10. Exit Oracle Enterprise Manager.

Step 3a: Installing ArcIMS 9.1

When you deploy the WAR file, the servlet engine expands the WAR file. The default location is <Oracle Application Server Installation Directory>/j2ee/home/application-deployments/wmsconnector.

To complete configuration of the WMS connector, you must [verify that the connector was successfully installed](#).

Configuring WMS connector for Sun Java System 6.1 sp 2

If you chose to install the WMS connector and you completed the Web server-servlet engine configuration in the post installation setup, these manual steps will have automatically been completed for you.

Follow these steps to configure Sun Java System (formerly Sun ONE) 6.1 SP2 for the WMS Connector:

1. Locate the file `wmsconnector.war` in the `<ArcIMS Installation Directory>/arcims/Middleware/wms_connector` directory. The war file will be expanded into a `wmsconnector` directory located in `<ArcIMS Installation Directory>/arcims/Middleware/wms_connector`

Note: Skip to Step 9 if you already configured your J2SE JRE/J2SE JDK paths.

2. In your Web browser, type: `http://<localhost.domain.com>:<serveradminport>`
For example: `http://arcims.esri.com:10000`

Tip

- If you don't know your server's administration port, open `<Sun Java System Installation Directory>/servers/https-admserv/config/admin.conf` in a text editor and read the `http://<localhost.domain.com>:<serveradminport>` there.

3. Type your user name and password and click OK.
4. Click Manage.
5. Click on the Virtual Server Class tab.
6. Next to Select a Class, click Manage.
7. Next to Select a Virtual Server, click Manage.

8. Click on the Web Applications tab.
9. Browse to the wmsconnector.war file located at <ArcIMS install directory>/arcims/Middleware/wms_connector
10. For the Application Uri, type /wmsconnector
11. Click OK.
12. In the top right hand corner, click Apply.
13. Click Apply changes.
14. Stop and Start the Sun Java System Web Server:
 - <Sun Java System Installation Directory>/https-<machine>.<domain>/restart
 - <Sun Java System Installation Directory>/https-admserv restart

When you are working with the administration component of the WMS Connector, you will need to know where the expanded WAR file is located. The setup expands the war file to <ArcIMS Installation Directory>/arcims/Middleware/wms_connector/wmsconnector.

To complete configuration of the WMS connector, you must [verify that the connector was successfully installed](#).

Configuring WMS connector for Sun Java System Application Server 7.0

If you chose to install the WMS connector and you completed the Web server-servlet engine configuration in the post installation setup, these manual steps will have automatically been completed for you.

Follow these steps to configure Sun Java System (formerly Sun ONE) Application Server 7.0 for the WMS Connector:

1. Locate the file `wmsconnector.war` in the `<ArcIMS Installation Directory>/arcims/Middleware/wms_connector` directory. The war file will be expanded into a `wmsconnector` directory located in `<ArcIMS Installation Directory>/arcims/Middleware/wms_connector`
2. In your Web browser, type: `http://<localhost.domain.com>:<serveradminport>`
For example: `http://arcims.esri.com:10000`

Tip

- If you don't know your server's administration port, open `<Sun Java System Installation Directory>/servers/https-admserver/config/admin.conf` in a text editor and read the `http://<localhost.domain.com>:<serveradminport>` there.

3. Type your user name and password and click OK.
4. In the left panel, expand Applications and click on Web Apps.
5. In the right panel, click on Deploy.
6. Browse to the `wmsconnector.war` file located at: `<ArcIMS Installation Directory>/arcims/Middleware/wms_connector/wmsconnector` and click OK.
7. Leave the Context Root at the default setting and click OK.
8. In another terminal, as root, browse to `/<SunONE_HOME>/domains/domain1/server1/config`.

9. Open the server.policy file for editing.

10. Add the following text directly above this line: //Following grant block is only required by Connectors

```
grant codeBase "file:/<Sun Java System (formerly Sun ONE)
HOME>/domains/domain1/server1/applications/j2ee-
modules/wmsconnector_1/WEB-INF/classes/-"
{
  permission java.util.PropertyPermission "*", "read,write";
  permission java.io.FilePermission "<<ALL FILES>>", "read,write,delete";
};
```

11. Save and close.

12. Restart the server.

When you deploy the WAR file, the servlet engine expands the WAR file. The default location is <Sun Java Installation Directory>/domains/domain1/server1/applications/j2ee-modules/wmsconnector_1.

To complete configuration of the WMS connector, you must [verify that the connector was successfully installed](#).

Configuring WMS connector for WebLogic

If you chose to install the WMS connector and you completed the Web server-servlet engine configuration in the post installation setup, these manual steps will have automatically been completed for you.

Follow these steps to configure WebLogic for the WMS Connector:

1. Locate the file `wmsconnector.war` in the `<ArcIMS Installation Directory>/arcims/Middleware/wms_connector` directory. This is the WAR file you will expand.
2. Expand the WAR file in the same directory. The command to expand the WAR file is: `jar xvf wmsconnector.war`
3. Start WebLogic.
4. In your web browser, type:
`http://<localhost.domain.com>:<serveradminport>/console`, for example,
`http://arcims.esri.com:10000/console`.
5. Type your password.
6. On the left sidebar, expand the `<Domain Name>`, Deployments and click Web Applications.
7. Click Deploy a new Web Application Module.
8. Browse to the location of the `wmsconnector` directory.
9. On the panel for selecting the archive for this Web application module, select the `wmsconnector` directory radio button. Do not select `wmsconnector.war`.
10. Click Target Module.
11. Click Deploy.

12. Stop and restart Weblogic.

When you are working with the administration component of the WFS Connector, you will need to know where the expanded WAR file is located. The setup expands the WAR file to <ArcIMS Installation Directory>/arcims/Middleware/wms_connector/wmsconnector.

To complete configuration of the WMS connector, you must [verify that the connector was successfully installed](#).

Configuring WMS connector for Websphere

If you chose to install the WMS connector and you completed the Web server-servlet engine configuration in the post installation setup, these manual steps will have automatically been completed for you.

Follow these steps to configure IBM HTTP Server 1.3.26 with Websphere 5.0 and IBM HTTP Server 1.3.28 with Websphere 5.1 for the WMS Connector:

1. Locate the file `wmsconnector.war` in the `<ArcIMS Installation Directory>/arcims/Middleware/wms_connector` directory. This is the WAR file you will deploy.
2. In a text editor, open `/opt/WebSphere/AppServer/config/cells/plugin-cfg.xml`.
3. Scroll down to the section "`<UriGroup Name="server1_Cluster_URIs">`"
4. Inside this block add the following
`<Uri Name="/wmsconnector/*"/>`
5. Save and Exit
6. Open the Websphere admin console in a browser: `http://localhost:9090/admin`
7. At the login page, type your username and click OK.
8. In the left panel, expand the Applications directory.
9. In the left panel, click on Install New Application.
10. In the right panel under local path, browse to `wmsconnector.war` file located at: `/<ArcIMS installation location>/arcims/Middleware/wms_connector`
11. Under Context Root, type `/wmsconnector` and click Next.
12. At the Generate Default Bindings screen, just click Next.

13. At the AppDeployment Options screen, just click Next.
14. At the Map Virtual Hosts for Web Modules screen, check the box next to wmsconnector.war and click Next.
15. At the Map Modules to Application Servers screen, check the box next to wmsconnector.war and click Next.
16. At the Summary screen, click Finish.
17. At the Installing screen, click on Save to Master Configuration link.
18. At the Save to Master Configuration screen, click Save.
19. In the left panel, click on Enterprise Applications.
20. In the right panel, check the box next to wmsconnector.war and click Start.
21. Stop and Start Websphere.
 - a. `cd /opt/WebSphere/AppServer/bin`
 - b. As root, `./firststeps.sh`
 - c. Click on Start, Stop Server.

When you deploy the WAR file, the servlet engine expands the WAR file. The default location is <Websphere Installation Directory>/AppServer/installedApps/<machine>/wmsconnector_war.ear/wmsconnector.war.

To complete configuration of the WMS connector, you must [verify that the connector was successfully installed](#).

WFS Connector

If you chose to install the WFS connector and you completed the Web server-servlet engine configuration in the post installation setup, step 1 below will have automatically been completed for you. However, if you chose to install the WFS connector and you did not complete the post installation setup, you must manually configure your Web server and servlet engine. To manually configure your Web server and servlet engine, follow these steps:

The WFS connector setup feature will install a WAR file named `wfsconnector.war` in the following location: `<ArcIMS installation directory>\arcims\Middleware\wfs_connector`

1. Deploy the `wfsconnector.war` file

After installing the WFS connector, you must deploy the WFS Connector WAR file. The steps to deploy the WAR file depend on your Web server and servlet engine. For supported Web servers see [Supported Software Environments](#).

Select your Web server and servlet engine for instructions on deploying the WFS connector:

- [Apache with ServletExec](#)
- [Apache with Tomcat](#)
- [Oracle Application Server](#)
- [Sun Java System Web Server 6.1 sp2](#)
- [Sun Java System Application Server 7.0](#)
- [WebLogic](#)
- [Websphere](#)

2. Verify that the WFS connector is installed

After deploying the WFS connector into your Web server and servlet engine environment, type the following URL in a Web browser to verify that it has been installed correctly.

`http://<hostname>/<deploy_name>/com.esri.wfs.Esrimap?cmd=connectorPing`

where

`<hostname>` is the URL domain name for your site such as `www.esri.com` or `localhost`.

Step 3a: Installing ArcIMS 9.1

<deploy_name> is the name you assigned when you deployed the WFS Connector. The recommended deployment name is "wfsconnector".

After you have verified the WFS Connector is communicating properly, you can start administering the WFS connector. For more information on administering the WFS connector see the WFS connector documentation.

Configuring WFS connector for Apache with ServletExec

If you chose to install the WFS connector and you completed the Web server-servlet engine configuration in the post installation setup, these manual steps will have automatically been completed for you.

Follow these steps to manually configure Apache with ServletExec for the WFS Connector:

1. Locate the file `wfsconnector.war` in the `<ArcIMS Installation Directory>/arcims/Middleware/wfs_connector` directory. This is the WAR file you will deploy.

2. Start the Apache and ServletExec services.

3. In your web browser, to open ServletExec Admin type
`http://<localhost>/servletexec/admin` for ServletExec 5.0

4. In the left sidebar under Web Applications, click manage.

5. Click Add Web Application.

6. For Application Name, type: `wfsconnector`

7. For URL Context Path, type: `/wfsconnector`

This is the name you will use to run the WFS Connector.

Note: The context path you specify is case sensitive. You might want to create more than one Web Application with path names like `WFSCONNECTOR` or `WFSCONNECTOR` pointing to the ArcIMS WFS Connector.

8. For Location, type: `<ArcIMS Installation Directory>/arcims/Middleware/wfs_connector/wfsconnector`

9. Click Submit and close ServletExec Admin.

10. Stop and Start Apache web server and ServletExec and close the Services window.

Step 3a: Installing ArcIMS 9.1

When you deploy the WAR file, the servlet engine expands the WAR file. The default location is <ServletExec Installation Directory>/NewAtlanta/ServletExecAS/se-<instance>/ServletExecData/default/wfsconnector/WAR.

To complete configuration of the WFS connector, you must [verify that the connector was successfully installed](#).

Configuring WFS connector for Apache with Tomcat

If you chose to install the WFS connector and you completed the Web server-servlet engine configuration in the post installation setup, these manual steps will have automatically been completed for you.

Follow these steps to configure Apache 2.0.4x with Tomcat 4.1.xx/5.0.x (mod_jk2) for the WFS Connector:

1. Locate the file `wfsconnector.war` in the `<ArcIMS Installation Directory>/arcims/Middleware/wfs_connector` directory. This is the WAR file you will deploy.
2. Copy `wfsconnector.war` to `<Tomcat Installation Directory>/webapps`.
3. Stop the Tomcat and Apache services.
4. Navigate to `<Apache Installation Directory>/conf/workers2.properties`. Add `[uri:wfsconnector/*]` to the file.
5. Start the Tomcat and Apache services by typing:

```
setenv JAVA_HOME <J2SE SDK Installation Directory>
setenv PATH $JAVA_HOME/bin:$PATH
<Tomcat Installation Directory>/bin/startup.sh
<Apache Installation Directory>/bin/apachectl start
```

When you deploy the WAR file, the servlet engine expands the WAR file. The default location is `<Tomcat Installation Directory>/webapps/wfsconnector`.

To complete configuration of the WFS connector, you must [verify that the connector was successfully installed](#).

Configuring WFS connector for Oracle Application Server

If you chose to install the WFS connector and you completed the Web server-servlet engine configuration in the post installation setup, these manual steps will have automatically been completed for you.

Follow the steps below to configure Oracle Application Server 9.0.3 or Oracle Application Server 10g:

1. Locate the file `wfsconnector.war` in the `<ArcIMS Installation Directory>/arcims/Middleware/wfs_connector` directory. This is the WAR file you will deploy.
2. Open the Oracle Enterprise Manager in your Web browser (<http://mymachine.esri.com:1810>).
3. For OAS 9.0.3, click the `OC4J_home` link from the list of System Components.
For OAS 10g, click the `home` link from the list of System Components.
4. For OAS 9.0.3, on the `OC4J_home` page click the `Deploy War file` link under the Applications section to open the `Deploy Web Application` page.
For OAS 10g, on the `home` page click the `Deploy War file` link under the Applications section to open the `Deploy Web Application` page.
5. For Web Application, click `Browse` and navigate to `<ArcIMS Installation Directory>/arcims/Middleware/wfs_connector/wfsconnector.war`.
6. For Application Name type `wfsconnector`
7. For Map to URL type `/wfsconnector`
8. Click `Deploy` to deploy the `wfsconnector.war` file. The WFS Connector is installed in the `<Oracle Application Server Installation Directory>/j2ee/home/applications` directory.
9. Click `OK` when the Confirmation is displayed.
10. Exit Oracle Enterprise Manager.

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When you deploy the WAR file, the servlet engine expands the WAR file. The default location is <Oracle Application Server Installation Directory>/j2ee/home/application-deployments/wfsconnector.

To complete configuration of the WFS connector, you must [verify that the connector was successfully installed](#).

Configuring WFS connector for Sun Java System 6.1 sp 2

If you chose to install the WFS connector and you completed the Web server-servlet engine configuration in the post installation setup, these manual steps will have automatically been completed for you.

Follow these steps to configure Sun Java System (formerly Sun ONE) 6.1 SP2 for the WFS Connector:

1. Locate the file `wfsconnector.war` in the `<ArcIMS Installation Directory>/arcims/Middleware/wfs_connector` directory. The war file will be expanded into a `wfsconnector` directory located in `<ArcIMS Installation Directory>/arcims/Middleware/wfs_connector`

Note: Skip to Step 9 if you already configured your J2SE JRE/J2SE JDK paths.

2. In your Web browser, type: `http://<localhost.domain.com>:<serveradminport>`
For example: `http://arcims.esri.com:10000`

Tip

- If you don't know your server's administration port, open `<Sun Java System Installation Directory>/servers/https-admserv/config/admin.conf` in a text editor and read the `http://<localhost.domain.com>:<serveradminport>` there.

3. Type your user name and password and click OK.
4. Click Manage.
5. Click on the Virtual Server Class tab.
6. Next to Select a Class, click Manage.
7. Next to Select a Virtual Server, click Manage.

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8. Click on the Web Applications tab.
9. Browse to the wfsconnector.war file located at <ArcIMS install directory>/arcims/Middleware/wfs_connector
10. For the Application Uri, type /wfsconnector
11. Click OK.
12. In the top right hand corner, click Apply.
13. Click Apply changes.
14. Stop and Start the Sun Java System Web Server:
 <Sun Java System Installation Directory>/https-<machine>.<domain>/restart
 <Sun Java System Installation Directory>/https-admserv restart

When you are working with the administration component of the WFS Connector, you will need to know where the expanded WAR file is located. The setup expands the war file to <ArcIMS Installation Directory>/arcims/Middleware/wfs_connector/wfsconnector.

To complete configuration of the WFS connector, you must [verify that the connector was successfully installed](#).

Configuring WFS connector for Sun Java System Application Server 7.0

If you chose to install the WFS connector and you completed the Web server-servlet engine configuration in the post installation setup, these manual steps will have automatically been completed for you.

Follow these steps to configure Sun Java System (formerly Sun ONE) Application Server 7.0 for the WFS Connector:

1. Locate the file `wfsconnector.war` in the `<ArcIMS Installation Directory>/arcims/Middleware/wfs_connector` directory. The war file will be expanded into a `wfsconnector` directory located in `<ArcIMS Installation Directory>/arcims/Middleware/wfs_connector`
2. In your Web browser, type: `http://<localhost.domain.com>:<serveradminport>`
For example: `http://arcims.esri.com:10000`

Tip

- If you don't know your server's administration port, open `<Sun Java System Installation Directory>/servers/https-admserver/config/admin.conf` in a text editor and read the `http://<localhost.domain.com>:<serveradminport>` there.

3. Type your user name and password and click OK.
4. In the left panel, expand Applications and click on Web Apps.
5. In the right panel, click on Deploy.
6. Browse to the `wfsconnector.war` file located at: `<ArcIMS Installation Directory>/arcims/Middleware/wfs_connector/wfsconnector` and click OK.
7. Leave the Context Root at the default setting and click OK.
8. In another terminal, as root, browse to `/<SunONE_HOME>/domains/domain1/server1/config`.

9. Open the server.policy file for editing.

10. Add the following text directly above this line: //Following grant block is only required by Connectors

```
grant codeBase "file:/<Sun Java System (formerly Sun ONE)
HOME>/domains/domain1/server1/applications/j2ee-
modules/wfsconnector_1/WEB-INF/classes/-"
{
  permission java.util.PropertyPermission "*", "read,write";
  permission java.io.FilePermission "<<ALL FILES>>", "read,write,delete";
};
```

11. Save and close.

12. Restart the server.

When you deploy the WAR file, the servlet engine expands the WAR file. The default location is <Sun Java Installation Directory>/domains/domain1/server1/applications/j2ee-modules/wfsconnector_1.

To complete configuration of the WFS connector, you must [verify that the connector was successfully installed](#).

Configuring WFS connector for WebLogic

If you chose to install the WFS connector and you completed the Web server-servlet engine configuration in the post installation setup, these manual steps will have automatically been completed for you.

Follow these steps to configure WebLogic for the WFS Connector:

1. Locate the file `wfsconnector.war` in the `<ArcIMS Installation Directory>/arcims/Middleware/wfs_connector` directory. This is the WAR file you will expand.
2. Expand the WAR file in the same directory. The command to expand the WAR file is: `jar xvf wfsconnector.war`
3. Start WebLogic.
4. In your web browser, type:
`http://<localhost.domain.com>:<serveradminport>/console`, for example,
`http://arcims.esri.com:10000/console`.
5. Type your password.
6. On the left sidebar, expand the `<Domain Name>`, Deployments and click Web Applications.
7. Click Deploy a new Web Application Module.
8. Browse to the location of the `wfsconnector` directory.
9. On the panel for selecting the archive for this Web application module, select the `wfsconnector` directory radio button. Do not select `wfsconnector.war`.
10. Click Target Module.
11. Click Deploy.

12. Stop and restart Weblogic.

When you are working with the administration component of the WFS Connector, you will need to know where the expanded WAR file is located. The setup expands the WAR file to <ArcIMS Installation Directory>/arcims/Middleware/wfs_connector/wfsconnector.

To complete configuration of the WFS connector, you must [verify that the connector was successfully installed](#).

Configuring WFS connector for Websphere

If you chose to install the WFS connector and you completed the Web server-servlet engine configuration in the post installation setup, these manual steps will have automatically been completed for you.

Follow these steps to configure IBM HTTP Server 1.3.26 with Websphere 5.0 and IBM HTTP Server 1.3.28 with Websphere 5.1 for the WFS Connector:

1. Locate the file wfsconnector.war in the <ArcIMS Installation Directory>/arcims/Middleware/wfs_connector directory. This is the WAR file you will deploy.
2. In a text editor, open /opt/WebSphere/AppServer/config/cells/plugin-cfg.xml.
3. Scroll down to the section "<UriGroup Name="server1_Cluster_URIs">
4. Inside this block add the following
`<Uri Name="/wfsconnector/*"/>`
5. Save and Exit
6. Open the Websphere admin console in a browser: <http://localhost:9090/admin>
7. At the login page, type your username and click OK.
8. In the left panel, expand the Applications directory.
9. In the left panel, click on Install New Application.
10. In the right panel under local path, browse to wfsconnector.war file located at: /<ArcIMS installation location>/arcims/Middleware/wfs_connector
11. Under Context Root, type /wfsconnector and click Next.
12. At the Generate Default Bindings screen, just click Next.

13. At the AppDeployment Options screen, just click Next.
14. At the Map Virtual Hosts for Web Modules screen, check the box next to wfsconnector.war and click Next.
15. At the Map Modules to Application Servers screen, check the box next to wfsconnector.war and click Next.
16. At the Summary screen, click Finish.
17. At the Installing screen, click on Save to Master Configuration link.
18. At the Save to Master Configuration screen, click Save.
19. In the left panel, click on Enterprise Applications.
20. In the right panel, check the box next to wfsconnector.war and click Start.
21. Stop and Start Websphere.
 - a. `cd /opt/WebSphere/AppServer/bin`
 - b. As root, `./firststeps.sh`
 - c. Click on Start, Stop Server.

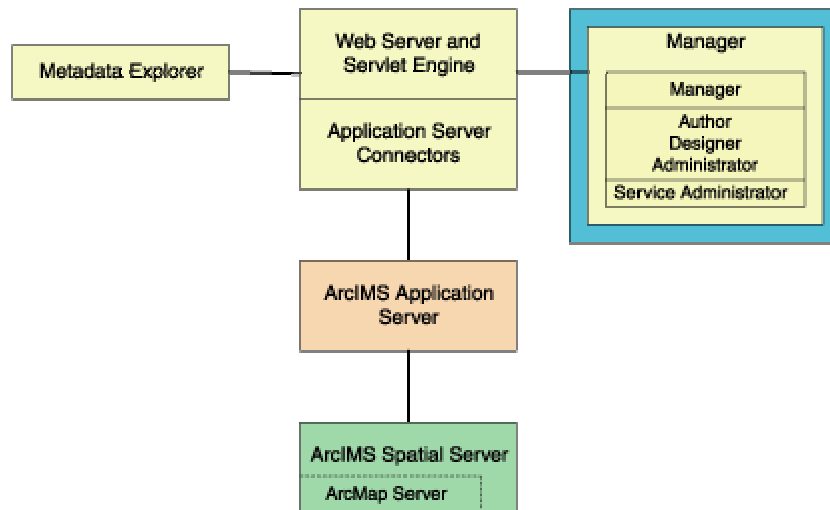
When you deploy the WAR file, the servlet engine expands the WAR file. The default location is <Websphere Installation Directory>/AppServer/installedApps/<machine>/wfsconnector_war.ear/wfsconnector.war.

To complete configuration of the WFS connector, you must **verify that the connector was successfully installed.**

Installing ArcIMS Manager Applications

In this installation scenario, ArcIMS Manager Applications—Author, Designer, and Administrator—can be installed on any computer on your network. ArcIMS Manager Applications do not require a Web browser.

ArcIMS Manager Applications (Author, Designer, and Administrator), may be used on any machine. This is optimal for UNIX/Linux users since ArcIMS Manager (the Web-based application) is not available for the UNIX/Linux environment.



ArcIMS Manager Applications are installed with [the typical installation](#); you only need one ArcIMS Manager installation per site.

For more information on ArcIMS Manager and ArcIMS Manager Applications, see [Overview](#).

Tip

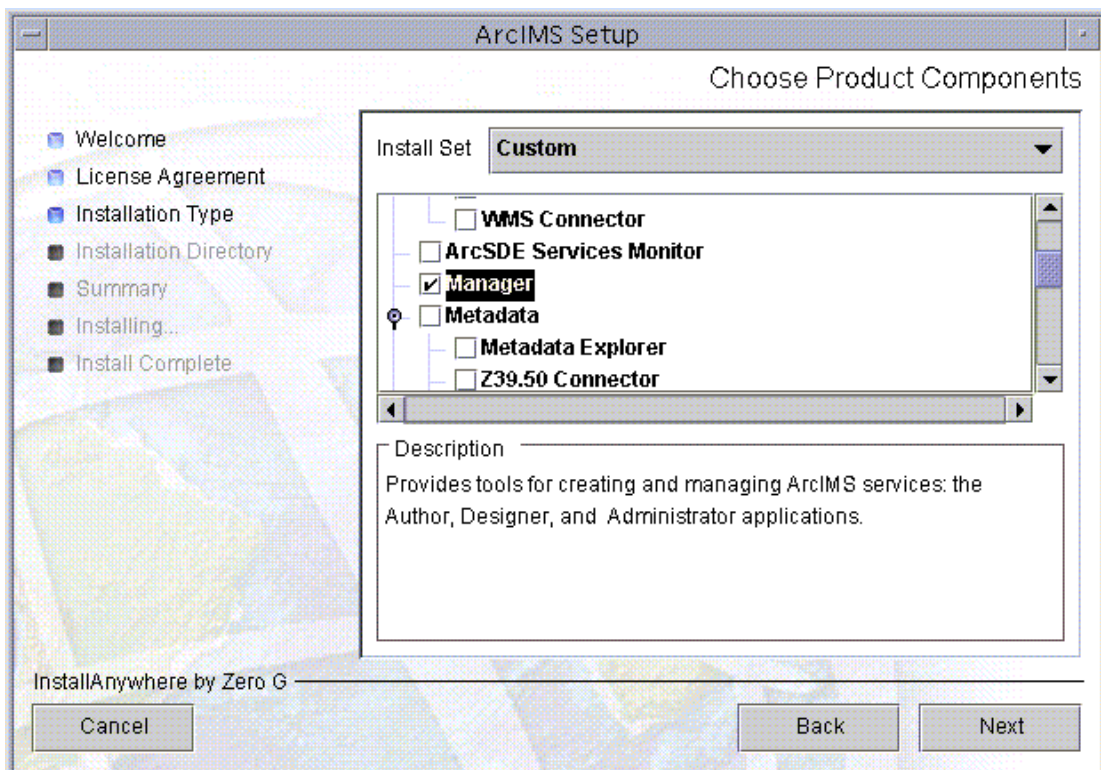
- **Note:** These instructions describe an ArcIMS Manager Applications only installation. To install ArcIMS Spatial Server, ArcIMS Application Server, and Application Server Connectors, refer to [Performing a typical installation](#).

How to prepare to install ArcIMS Manager Applications

1. Verify that your site meets the system requirements. For system requirement information see [Step 1: Verify system requirements](#)
2. Make sure that the user account that installs ArcIMS has write permissions to the installation directory. **Note: For security reasons, don't install ArcIMS as super user. ESRI recommends that you create a separate user account for installing and administering ArcIMS.**
3. Execute the SetupArcIMS script located on the ArcIMS CD.

How to install ArcIMS Manager Applications

- During the installation you will be asked to read the license agreement and accept it, or exit if you don't agree with the terms.
- At the Choose Product Components dialog, from the Feature Set dropdown list, select Custom. By default, the features installed by a typical installation are selected. Unselect all the features you do not wish to install. Select Manager to install the Manager Applications.



- To complete the installation, follow the directions on your screen.

- **Complete the post installation setup**

The following ArcIMS post installation options are required to successfully install Manager Applications:

[ArcIMS Configuration](#)

If you select a typical post installation setup these post installation options are automatically selected. See [The Post Installation](#) topic for information on the post installation setup options.

Tip

- ArcIMS Author and ArcExplorer Java use fonts from the font.properties file located at: <JREHOME>/lib or <\$JAVA_HOME>/lib

You can modify the font property file for your own font by following the instructions from this link:

<http://java.sun.com/j2se/1.4.2/docs/guide/intl/fontprop.html>

- When choosing to install ArcIMS Metadata Explorer or ArcIMS Manager Applications, you do not have to install the Java connector because the files are included with these installation features.

Installing ArcIMS Service Administrator

The ArcIMS Service Administrator is a remote site administration tool and can be used as an alternative to or in conjunction with ArcIMS Administrator. The ArcIMS Service Administrator uses the JavaServer Pages (JSP) tag libraries and the Java API (application program interface) of the ArcIMS Java Connector. Java 2 Platform Standard Edition Software Development Kit (J2SE SDK) is required for ArcIMS Service Administrator.

How to set up your machine to administer ArcIMS Services

The ArcIMS Service Administrator is installed with a typical installation and with an installation of Manager. If you plan to administer only ArcIMS Services, you need to:

1. Install ArcIMS using a typical installation.
2. Configure ArcIMS Service Administrator for your Web server.

Tip

- When choosing to install ArcIMS Metadata Explorer or ArcIMS Manager Applications, you do not have to install the Java connector because the files are included with these installation features.

How to set up your machine to administer ArcSDE Services

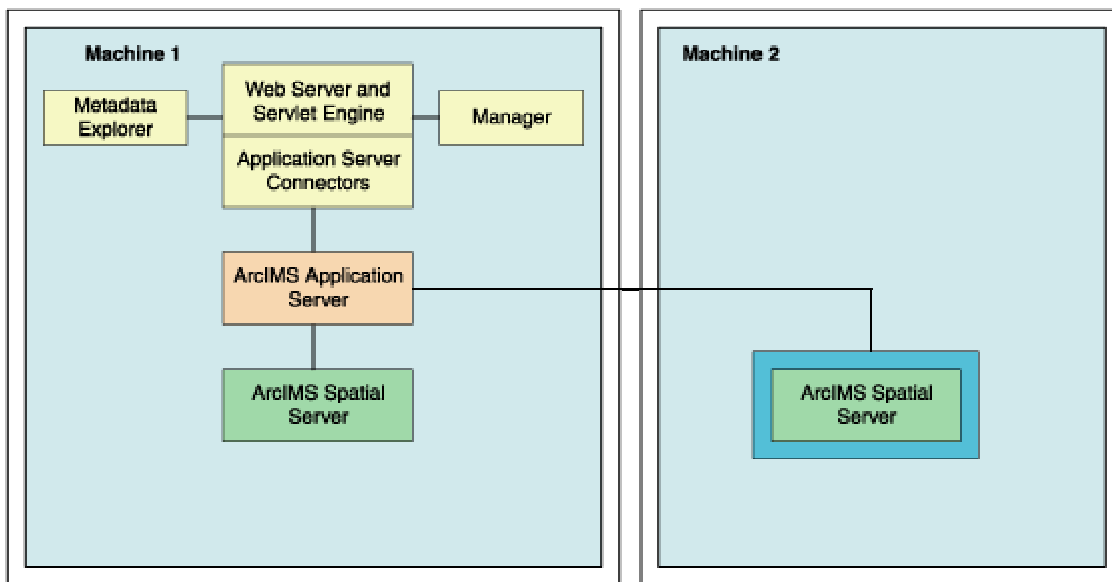
The ArcIMS Service Administrator can also be used to administer ArcSDE. To administer ArcSDE on UNIX/Linux, you need to do the following:

1. Install ArcIMS Manager Applications on the computer where you wish to use ArcIMS Service Administrator.
2. Configure ArcIMS Service Administrator for your Web server.
3. Install and set up the optional ArcSDE Administrator component on the ArcIMS Spatial Server computer.

Installing multiple Spatial Servers on additional machines

In this installation scenario, several computers run ArcIMS Spatial Server and communicate with the ArcIMS Host. One computer, the ArcIMS Host, runs Web server software with ArcIMS Manager, ArcIMS Application Server, and Application Server Connectors while, on other computers, ArcIMS Spatial Server runs. All ArcIMS Spatial Servers must point back to the ArcIMS Host, and the ArcIMS Host must be able to communicate with the ArcIMS Spatial Servers.

To install additional ArcIMS Monitor processes on the same machine, see the topic [Installing additional ArcIMS Monitors](#).



There are four parts to setting up a multiple ArcIMS Spatial Server configuration:

1. Obtain your Authorization files for each machine where Spatial Server will be installed. See [To Obtain an Authorization File](#) for more information.
2. Install ArcIMS Spatial Server (includes preparing to install, and installing)
3. Complete the post installation setup
4. Complete the additional installation steps for multiple ArcIMS Spatial Servers

All the necessary steps are described within this topic.

ArcIMS Authorization file

Spatial Server requires an Authorization File. Each machine installing this feature will require a unique authorization file. For information on obtaining an authorization file, see the topic [To obtain an authorization file](#).

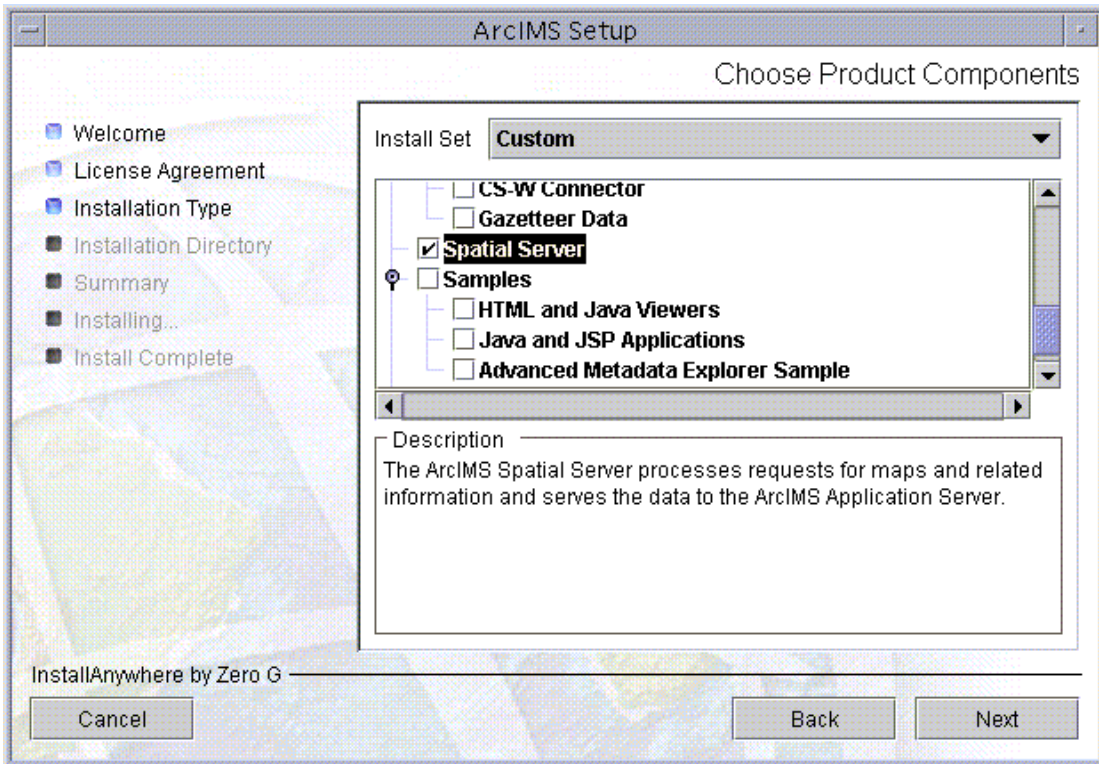
If you installed ArcIMS Spatial Server, the post installation option ArcIMS Authorization will configure your machine using the authorization file you received from Customer Service.

How to prepare to install ArcIMS Spatial Server

1. Obtain an authorization file for each machine you will install ArcIMS Spatial Server on.
2. Verify that your site meets the system requirements. For system requirement information see [Step 1: Verify system requirements](#)
3. Make sure that the user account that installs ArcIMS has write permissions to the installation directory. **Note: For security reasons, don't install ArcIMS as super user. ESRI recommends that you create a separate user account for installing and administering ArcIMS.**
4. Execute the SetupArcIMS script located on the ArcIMS CD.

How to install ArcIMS Spatial Server

- During the installation you will be asked to read the license agreement and accept it, or exit if you don't agree with the terms.
- The ArcIMS install allows you to select the features you would like to install.



- At the Choose Product Components dialog, from the Feature Set dropdown list, select Custom. By default, the features installed by a typical installation are selected. Unselect all the features you do not wish to install. Select Spatial Server to install ArcIMS Spatial Server on your machine.
- To complete the installation, follow the directions on the screen.
- **Complete the post installation setup**

After completing the ArcIMS installation, you will be provided with the opportunity to begin the post installation setup. The following post installation features are required to successfully complete an ArcIMS Spatial Server installation:

 - [ArcIMS Configuration](#)
 - [ArcIMS Authorization](#)

If you select a typical post installation setup this post installation option is automatically selected. See [The Post Installation](#) topic for information on the post installation setup options.

- **Additional installation steps required for multiple Spatial Servers:**
 1. Make sure the following directories are mounted and visible on this computer:
 - The server output directory that was established as a virtual directory on your Web server. The output directory would have been created during the Web Server - Servlet Engine Configuration in the post installation on you host machine, if selected, or during your manual configuration of the Web server as described in [Step 4: Configure your Web server](#).
 - All data directories referenced in all your map configuration files.
 - Note: These directories must be mounted using exactly the same pathnames as on the Web server computer; for example, if your map configuration files reference data located in the directory /machine2/data, then /machine2 must be mounted on this computer as well. The path /net/machine/machine2/data is not considered the same, and ArcIMS will not work.
 2. Verify that your ArcIMS Monitor process is started.
 - To manually start ArcIMS Monitor, navigate to the \$AIMSHOME/Xenv directory and type the following:

```
./aimsmonitor start &
```
 2. Start ArcIMS Administrator on the Web server computer (or do a Site Refresh in Administrator if it is already running) to see the new Spatial Server listed under Servers.
- After installing an ArcIMS Spatial Server, see *ArcIMS Help*, for details on how to administer the ArcIMS Spatial Server.
- See ArcIMS Help for more information on configuring your Web site.

Tips

- When you install ArcIMS Spatial Servers on a system where you already have an existing ArcIMS 9.1 site configuration, you need to manually add a Metadata Server virtual server. See *ArcIMS Help* for details on configuring virtual servers for ArcIMS.
- The Spatial Server uses TrueType fonts located in: /usr/lib/X11/fonts/ms.st/typeface. International fonts used are located in: /usr/lib/X11/fonts/TrueType/<language>/st

Installing additional ArcIMS Monitors

These instructions describe how to use the ServiceInstaller utility to install and uninstall additional ArcIMS Monitor processes as background services on UNIX/Linux. The utility is based on the free JavaService utility available from Alexandria Software Consulting (<http://www.alexandriasc.com/software/JavaService/index.html>). The following license information comes from the Alexandria Software Consulting website:

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These instructions assume that ArcIMS is already installed and working in a single application server setup. To install ArcIMS see the topic [Performing a typical installation](#).

The second Monitor service added to a machine cannot point to the same ArcIMS Application Server as the first Monitor service on that machine.

Step #1: Setting up the additional Monitor

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1. Create an additional folder - Monitor2, for the new Monitor service under \$AIMSHOME

2. Copy the following properties files from \$AIMSHOME/Monitor folder to \$AIMSHOME/Monitor2 folder:

Monitor.properties

Monitor_Res.properties

Monitor_Res_en_US.properties

Sde.properties (available based on installed components)

3. Open the Monitor2\Monitor.properties file and,

- Edit the registryHost property in Monitor2\Monitor.properties to point to the remote AppServer.
- Edit the listenerPort property so that the additional Monitor Service communicates with its AppServer on a different listener port.

For example: listenerPort - 5051 (assuming this port is not already being used)

Note: The default Monitor listenerPort is set as 5050

The second Monitor service added to a machine cannot point to the same ArcIMS Application Server as the first Monitor service on that machine.

Step #2: Setting up your aimsmonitor scripts

1. Make a copy of aimsmonitor (in \$AIMSHOME/Xenv) as aimsmonitor2 and make it an executable.

2. In aimsmonitor2 change the line below:

```
$JAVA_HOME/bin/java $java_options -cp  
$AIMSHOME/Middleware/lib/aimsmutil.jar:$AIMSHOME/Manager/lib/jsde9  
1_sdk.jar:$AIMSHOME/Manager/lib/jsde91_sdkres.jar:$AIMSHOME/Monito  
r com.esri.mtier.ImsStopMonitor  
$AIMSHOME/Monitor/Monitor.properties >> $MONITOR_LOGFILE 2>&1
```

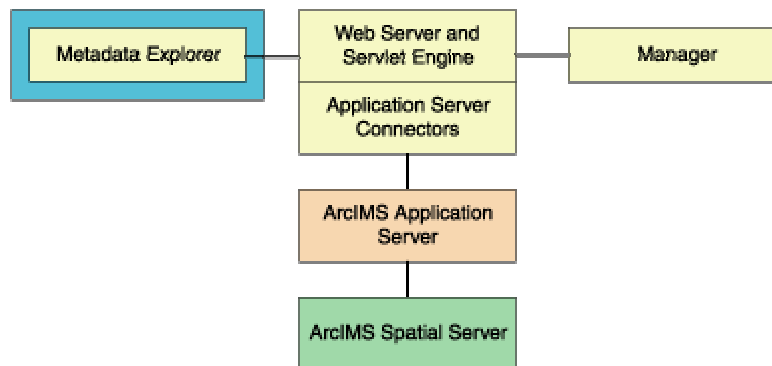
so that Monitor/Monitor.properties is replaced with Monitor2/Monitor.properties.

Step #3: Run aimsmonitor2

aimsmonitor2 start &

Installing ArcIMS Metadata options

In this installation scenario, you install Metadata Explorer to view metadata from an ArcIMS Metadata Service. Java 2 Platform Standard Edition Software Development Kit (J2SE SDK) is required for ArcIMS Metadata Explorer. This topic also provides information on installing the other Metadata installation options.



Tip

- These instructions describe a Metadata options installation only. To install the ArcIMS Manager, ArcIMS Application Server, ArcIMS Spatial Server, and Application Server Connectors, refer to [Performing a typical installation](#).

The following are required to successfully install Metadata Explorer:

1. Java 2 Platform Standard Edition Software Development Kit (J2SE SDK).
2. Metadata Explorer should be installed on your Web server machine.

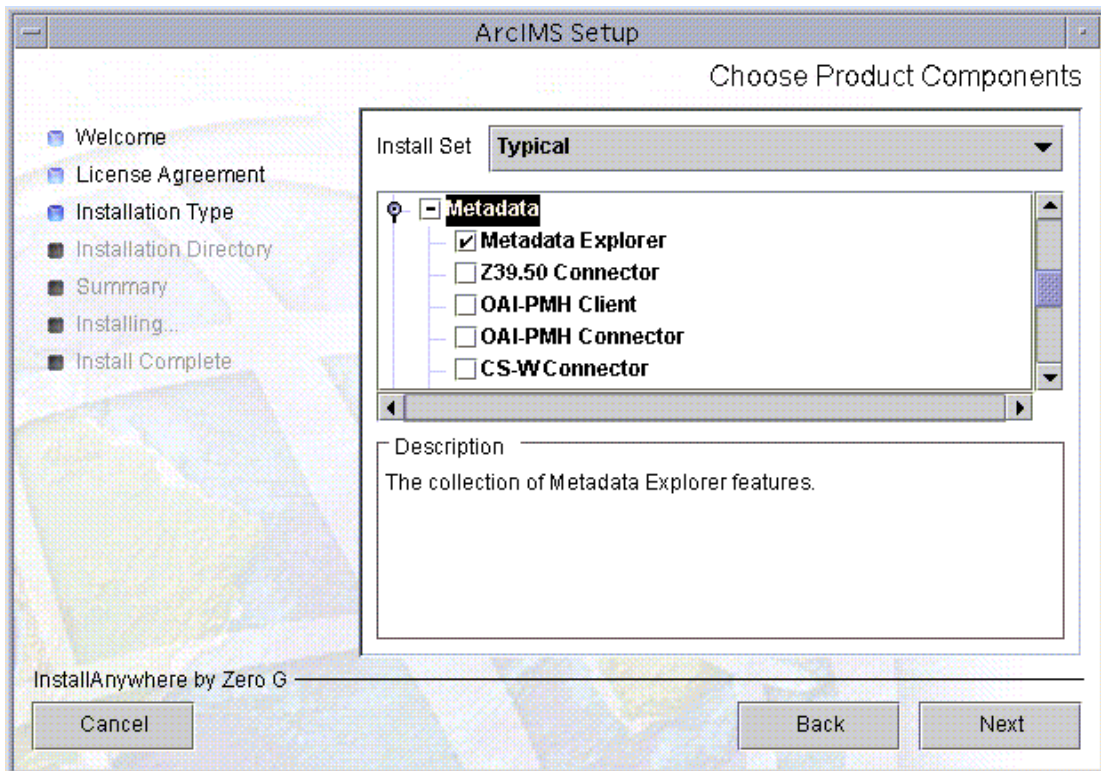
How to prepare to install ArcIMS Metadata Explorer

1. Verify that your site meets the system requirements. For system requirement information see [Step 1: Verify system requirements](#)
2. Make sure that the user account that installs ArcIMS has write permissions to the installation directory. **Note: For security reasons, don't install ArcIMS as super user. ESRI recommends that you create a separate user account for installing and administering ArcIMS.**

3. Execute the SetupArcIMS script located on the ArcIMS CD.

How to install ArcIMS Metadata Explorer

- During the installation you will be asked to read the license agreement and accept it, or exit if you don't agree with the terms.
- The ArcIMS install allows you to select the features you would like to install.



- At the Choose Product Components dialog, from the Feature Set dropdown list, select Custom. By default, the features installed by a typical installation are selected. Unselect all the features you do not wish to install. The Metadata feature contains Metadata Explorer, Gazetteer Data, the Z39.50 Connector, the OAI-PMH connector, the OAI-PMH client and the CS-W connector. Select Metadata Explorer and other features you would like to install.
- There is also Metadata Explorer Documentation available to install. Documentation is available on the ESRI Software Documentation Library CD.

- To complete the installation, follow the directions on the screen.

Tip

- See *Creating and Using Metadata Services* for information on Metadata Explorer.

- **Complete the post installation setup.**

The following ArcIMS post installation option is required to successfully install ArcIMS Metadata Explorer:

[Web server-Servlet Engine configuration.](#)

You need to [configure your Web server to use ArcIMS Metadata Explorer.](#)

If you choose to use the automated Web server-Servlet Engine configuration provided in the post installation setup, this step will be completed for you (see [Web server-Servlet Engine configuration](#)). If you manually configure your Web server and Servlet Engine (see [Step 4: Configure your Web Server](#)) you will need to also manually configure your web server for ArcIMS Metadata Explorer. For information on manually configuring your Web server for ArcIMS Metadata Explorer see [configure your Web server to use ArcIMS Metadata Explorer.](#)

Tip

- When choosing to install ArcIMS Metadata Explorer or ArcIMS Manager Applications, you do not have to install the Java connector because the files are included with these installation features.

Additional Metadata options

- If you choose to install the Z39.50 Connector, you will need to configure the connector before you can use it. See [Configuring the Z39.50 connector](#)
- If you choose to install the **OAI-PMH connector** and you do not perform the automated Web server-Servlet Engine configuration provided in the post installation setup, you will need to configure your Web server. See [Configuring your Web server for the OAI-PMH connector](#) for details. After your Web server has been configured you will need to configure the OAI-PMH

connector for your Metadata Service. See the [Creating_Metadata_Services.pdf](#) Harvesting Documents section for details.

- If you choose to install the **OAI-PMH client**, no further configuration is required.
- If you choose to install the **CS-W connector** and you do not perform the automated Web server-Servlet Engine configuration provided in the post installation setup, you will need to configure your Web server. See [Configuring your Web server for the CS-W connector](#) for details.
- An **Advanced Metadata Explorer Sample** is also available for installation under the Samples installation feature. If you choose to install the Advanced Metadata Explorer Sample, you will need to deploy the advancedmetadataexplorer.war file before you can use it. The file advancedmetadataexplorer.war file is located in the <ArcIMS installation Directory>/arcims/Samples/Metadata folder. To deploy advancedmetadataexplorer.war, follow the same steps for configuring your Web server for Metadata Explorer, but deploy the advancedmetadataexplorer.war file instead of metadataexplorer.war. See [Configuring your Web server for ArcIMS Metadata Explorer](#) for information on deploying the war file.

Configuring the Z39.50 connector

The Z39.50 Connector must be installed prior to configuring. For information on installing the Z39.50 Connector see [Installing Metadata Explorer](#).

To configure ArcIMS with Z39.50, perform the following:

1. In a text editor, open z3950.properties.

```
<ArcIMS Installation
Directory>\ArcIMS\Metadata\z3950Connector\z3950.properties
```

2. If necessary, change the port number the Z39.50 Connector will use.

```
port=210
```

The default port number is 210 but it can be modified depending on your network configuration.

3. Edit defaultServiceName=MyMetadataService to match your Metadata Service name.

If you have not created your Metadata Service yet, accept the default value and edit the property as necessary at a later date.

See [Creating and Using Metadata Services](#) for details on creating the necessary Metadata Service.

4. The default connection type is HTTP. If utilizing TCP/IP connection protocols, proceed to Step 7 below.

```
connectionType=http
```

5. If browsing of the Metadata Service used in Step 3 is restricted by user name and password, set these values. The user name and password remain blank if browse access is unrestricted.

```
username=
```

```
password=
```

If you have not created your Metadata Service yet, accept the default blank values and edit the property as necessary at a later date.

See [Creating and Using Metadata Services](#) or *ArcIMS Help* for details on the methods used to restrict access to services.

Proceed to Step 7.

6. If connectionType=http in Step 4 above, proceed to Step 7.

```
connectionType=tcp,
```

7. Save and close the file.

8. On Windows 2000, choose Start > Settings > Control Panel > Administrative Tools > Component Services and click Services on the Tree tab;

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On Windows XP, choose Start > Control Panel > Performance and Maintenance > Administrative Tools > Component Services and click Services on the Tree tab.

9. Start the ArcIMS Z3950 9.1 service listed in the Services window.

Installation of the Z39.50 Connector is complete. For more information about the Z39.50 Connector, see *Creating and Using Metadata Services*.

Note: If you are using TCP/IP, the connector must be configured for authentication of users. Detailed steps are provided in *Creating and Using Metadata Services*.

Configuring your Web server for OAI-PMH Connector

If you did not configure your Web server Servlet Engine using the post installation setup and you wish to use the OAI-PMH connector, you must configure your Web server:

- [Apache with ServletExec](#)
- [Apache 2.0.4.x with Tomcat 4.1.xx/5.0.x using mod_jk2](#)
- [Sun Java System \(formerly Sun ONE\) Web server 6.1 sp 2](#)
- [Sun Java System \(formerly Sun ONE\) Application Server 7.0](#)
- [WebLogic 7.0/WebLogic 8.1](#)
- [Oracle Application Server 9.0.3/10g](#)
- [IBM HTTP Server 1.3.26 with WebSphere 5.0](#)

To configure your Web server Servlet Engine using the post installation setup, select the Web server Servlet Engine configuration option in the post installation setup and see [Web Server - Servlet Engine Configuration](#) for more information.

After your Web server has been configured you will need to configure the OAI-PMH connector for your Metadata Service. See the *Creating_Metadata_Services.pdf* (Harvesting documents section) for details.

Configuring Apache with ServletExec for OAI-PMH connector

If you chose to install the OAI-PMH connector and you completed the Web server-servlet engine configuration in the post installation setup, these manual steps will have automatically been completed for you.

Follow these steps to manually configure Apache with ServletExec for the OAI-PMH Connector:

1. Locate the file `aimsharvester.war` in the `<ArcIMS Installation Directory>/arcims/Metadata/OAI-PMH/Connector` directory. The war file will be expanded into an `aimsharvester` directory located in `<ArcIMS Installation Directory>/arcims/Metadata/OAI-PMH/Connector`
2. In a text editor (such as Notepad), open `<ArcIMS install directory>/arcims/Metadata/OAI-PMH/Connector/aimsharvester/WEB-INF/config/aims_oai.properties`. You will need to change the properties of the `aims_oai.properties` file so that this file is writable, if it is not already. For example: `chmod +w aims_oai.properties`.
3. Start the Apache and ServletExec services.
4. In your web browser, to open ServletExec Admin type `http://<localhost>/servletexec/admin` for ServletExec 5.0
5. In the left sidebar under Web Applications, click manage.
6. Click Add Web Application.
7. For Application Name, type: `aimsharvester`
8. For URL Context Path, type: `/aimsharvester`
This is the name you will use to run the OAI-PMH connector.
Note: The context path you specify is case sensitive. You might want to create more than one Web Application with path names like `AimsHarvester` or `AIMSHARVESTER` pointing to the OAI-PMH connector.
9. For Location, type: `<ArcIMS Installation Directory>/arcims/Metadata/OAI-PMH/Connector`

Click Submit and close ServletExec Admin.

10. Stop and Start Apache web server and ServletExec and close the Services window.

11. In a text editor (such as Notepad), open `aims_oai.properties`. This file is located at the deployed WAR file location. The default location is `<ServletExec Installation Directory>/NewAtlanta/ServletExecAS/se-<instance>/ServletExecData/default/aimsharvester/WAR/WEB-INF/config`.

In the `aims_oai.properties` file, edit the following variables:

```
appServerMachine=hostname (replace hostname with Application Server machine)
```

```
appServerPort=5300 (or port for Application Server machine)
```

```
Identify.baseURL=http://localhost/aimsharvester/oai2.0 (replace localhost with appropriate local host name)
```

```
Identify.repositoryIdentifier=myhost.org (replace myhost with appropriate host name)
```

When you deploy the WAR file, the servlet engine expands the WAR file. The default location is `<ServletExec Installation Directory>/NewAtlanta/ServletExecAS/se-<instance>/ServletExecData/default/aimsharvester/WAR`.

After your Web server has been configured you will need to configure the OAI-PMH connector for your Metadata Service. See the *Creating_Metadata_Services.pdf* (Harvesting documents section) for details.

Configuring Apache with Tomcat using mod_jk2 for OAI-PMH connector

If you chose to install the OAI-PMH connector and you completed the Web server-servlet engine configuration in the post installation setup, these manual steps will have automatically been completed for you.

Follow these steps to configure Apache 2.0.4x with Tomcat 4.1.xx/5.0.x (mod_jk2) for the OAI-PMH Connector:

1. Locate the file aimsharvester.war in the <ArcIMS Installation Directory>/arcims/Metadata/OAI-PMH/Connector directory. The war file will be expanded into an aimsharvester directory located in <ArcIMS Installation Directory>/arcims/Metadata/OAI-PMH/Connector
2. In a text editor (such as Notepad), open <ArcIMS install directory>/arcims/Metadata/OAI-PMH/Connector/aimsharvester/WEB-INF/config/aims_oai.properties. You will need to change the properties of the aims_oai.properties file so that this file is writable, if it is not already. For example: `chmod +w aims_oai.properties`.
3. In the aims_oai.properties file, edit the following variables:
 - appServerMachine=hostname (replace hostname with Application Server machine)
 - appServerPort=5300 (or port for Application Server machine)
 - Identify.baseURL=http://localhost/aimsharvester/oai2.0 (replace localhost with appropriate local host name)
 - Identify.repositoryIdentifier=myhost.org (replace myhost with appropriate host name)
4. Copy aimsharvester.war to <Tomcat Installation Directory>/webapps.
5. Stop the Tomcat and Apache services.
6. Navigate to <Apache Installation Directory>/conf/workers2.properties. Add [uri:aimsharvester/*] to the file.
7. Start the Tomcat and Apache services by typing:
 - setenv JAVA_HOME <J2SE SDK Installation Directory>

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```
setenv PATH $JAVA_HOME/bin:$PATH
<Tomcat Installation Directory>/bin/startup.sh
<Apache Installation Directory>/bin/apachectl start
```

When you deploy the WAR file, the servlet engine expands the WAR file. The default location is <Tomcat Installation Directory>/webapps/aimsharvester.

After your Web server has been configured you will need to configure the OAI-PMH connector for your Metadata Service. See the *Creating_Metadata_Services.pdf* (Harvesting documents section) for details.

Configuring Sun Java System 6.1 sp 2 for OAI-PMH connector

If you chose to install the OAI-PMH connector and you completed the Web server-servlet engine configuration in the post installation setup, these manual steps will have automatically been completed for you.

Follow these steps to configure Sun Java System (formerly Sun ONE) 6.1 SP2 for the OAI-PMH Connector:

1. Locate the file `aimsharvester.war` in the <ArcIMS Installation Directory>/arcims/Metadata/OAI-PMH/Connector directory. The war file will be expanded into an `aimsharvester` directory located in <ArcIMS Installation Directory>/arcims/Metadata/OAI-PMH/Connector

Note: Skip to Step 9 if you already configured your J2SE JRE/J2SE JDK paths.

2. In a text editor (such as Notepad), open <ArcIMS install directory>/arcims/Metadata/OAI-PMH/Connector/aimsharvester/WEB-INF/config/aims_oai.properties. You will need to change the properties of the `aims_oai.properties` file so that this file is writable, if it is not already. For example: `chmod +w aims_oai.properties`.

3. In your Web browser, type: `http://<localhost.domain.com>:<serveradminport>`
For example: `http://arcims.esri.com:10000`

Tip

- If you don't know your server's administration port, open <Sun Java System Installation Directory>/servers/https-admserv/config/admin.conf in a text editor and read the `http://<localhost.domain.com>:<serveradminport>` there.

4. Type your user name and password and click OK.

5. Click Manage.

6. Click on the Virtual Server Class tab.

7. Next to Select a Class, click Manage.
8. Next to Select a Virtual Server, click Manage.
9. Click on the Web Applications tab.
10. Browse to the aimsharvester.war file located at <ArcIMS install directory>/arcims/Metadata/OAI-PMH/Connector
11. For the Application Uri, type /aimsharvester
12. Click OK.
13. In the top right hand corner, click Apply.
14. Click Apply changes.
15. Stop and Start the Sun Java System Web Server:
 <Sun Java System Installation Directory>/https-<machine>.<domain>/restart
 <Sun Java System Installation Directory>/https-admserv restart
16. In a text editor (such as Notepad), open aims_oai.properties. This file is located at the deployed WAR file location. The default location is <ArcIMS Installation Directory>/arcims/Metadata/OAI-PMH/Connector/aimsharvester/WEB-INF/config.

In the aims_oai.properties file, edit the following variables:

```
appServerMachine=hostname (replace hostname with Application Server machine)
appServerPort=5300 (or port for Application Server machine)
Identify.baseURL=http://localhost/aimsharvester/oai2.0 (replace localhost with appropriate local host name)
Identify.repositoryIdentifier=myhost.org (replace myhost with appropriate host name)
```

When you are working with the administration component of the OAI-PMH Connector, you will need to know where the expanded WAR file is located. The setup

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expands the war file to <ArcIMS Installation Directory>/arcims/Metadata/OAI-PMH/Connector/aimsharvester.

After your Web server has been configured you will need to configure the OAI-PMH connector for your Metadata Service. See the *Creating_Metadata_Services.pdf* (Harvesting documents section) for details.

Configuring Sun Java System Application Server 7.0 for OAI-PMH connector

If you chose to install the OAI-PMH connector and you completed the Web server-servlet engine configuration in the post installation setup, these manual steps will have automatically been completed for you.

Follow these steps to configure Sun Java System (formerly Sun ONE) Application Server 7.0 for the OAI-PMH Connector:

1. Locate the file `aimsharvester.war` in the <ArcIMS Installation Directory>/arcims/Metadata/OAI-PMH/Connector directory. The war file will be expanded into an `aimsharvester` directory located in <ArcIMS Installation Directory>/arcims/Metadata/OAI-PMH/Connector
2. In a text editor (such as Notepad), open <ArcIMS install directory>/arcims/Metadata/OAI-PMH/Connector/aimsharvester/WEB-INF/config/aims_oai.properties. You will need to change the properties of the `aims_oai.properties` file so that this file is writable, if it is not already. For example: `chmod +w aims_oai.properties`.
3. In your Web browser, type: `http://<localhost.domain.com>:<serveradminport>`
For example: `http://arcims.esri.com:10000`

Tip

- If you don't know your server's administration port, open <Sun Java System Installation Directory>/servers/https-admserver/config/admin.conf in a text editor and read the `http://<localhost.domain.com>:<serveradminport>` there.

4. Type your user name and password and click OK.
5. In the left panel, expand Applications and click on Web Apps.
6. In the right panel, click on Deploy.
7. Browse to the `aimsharvester.war` file located at: <ArcIMS Installation Directory>/arcims/Metadata/OAI-PMH/Connector and click OK.

8. Leave the Context Root at the default setting and click OK.
9. In another terminal, as root, browse to
/<SunONE_HOME>/domains/domain1/server1/config.
10. Open the server.policy file for editing.
11. Add the following text directly above this line: //Following grant block is only required by Connectors

```
grant codeBase "file:/<Sun Java System (formerly Sun ONE)
HOME>/domains/domain1/server1/applications/j2ee-
modules/aimsharvester_1/WEB-INF/classes/-"
{
    permission java.util.PropertyPermission "*", "read,write";
};
```

12. Save and close.
13. Restart the server.
14. In a text editor (such as Notepad), open aims_oai.properties. This file is located at the deployed WAR file location. The default location is <Sun Java Installation Directory>/domains/domain1/ server1/applications/j2ee-modules/aimsharvester_1/WEB-INF/config.

In the aims_oai.properties file, edit the following variables:

```
appServerMachine=hostname (replace hostname with Application Server
machine)
appServerPort=5300 (or port for Application Server machine)
Identify.baseURL=http://localhost/aimsharvester/oai2.0 (replace
localhost with appropriate local host name)
Identify.repositoryIdentifier=myhost.org (replace myhost with
appropriate host name)
```

When you deploy the WAR file, the servlet engine expands the WAR file. The default location is <Sun Java Installation Directory>/domains/domain1/server1/applications/j2ee-modules/aimsharvester_1.

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After your Web server has been configured you will need to configure the OAI-PMH connector for your Metadata Service. See the *Creating_Metadata_Services.pdf* (Harvesting documents section) for details.

Configuring WebLogic for OAI-PMH connector

If you chose to install the OAI-PMH connector and you completed the Web server-servlet engine configuration in the post installation setup, these manual steps will have automatically been completed for you.

Follow these steps to configure WebLogic for the OAI-PMH Connector:

1. Locate the file `aimsharvester.war` in the <ArcIMS Installation Directory>/arcims/Metadata/OAI-PMH/Connector directory. The war file will be expanded into an `aimsharvester` directory located in <ArcIMS Installation Directory>/arcims/Metadata/OAI-PMH/Connector
2. In a text editor (such as Notepad), open <ArcIMS install directory>/arcims/Metadata/OAI-PMH/Connector/aimsharvester/WEB-INF/config/aims_oai.properties. You will need to change the properties of the `aims_oai.properties` file so that this file is writable, if it is not already. For example:
`chmod +w aims_oai.properties.`
3. Start WebLogic.
4. In your web browser, type:
`http://<localhost.domain.com>:<serveradminport>/console`, for example,
`http://arcims.esri.com:10000/console.`
5. Type your password.
6. On the left sidebar, expand the <Domain Name>, Deployments and click Web Applications.
7. Click Deploy a new Web Application Module.
8. Browse to the location of the `aimsharvester` directory.
9. On the panel for selecting the archive for this Web application module, select the `aimsharvester` directory radio button. Do not select `aimsharvester.war`.
10. Click Target Module.

11. Click Deploy.
12. Stop and restart Weblogic.
13. In a text editor (such as Notepad), open `aims_oai.properties`. This file is located at the deployed WAR file location. The default location is `<ArcIMS Installation Directory>/Metadata/OAI-PMH/Connector/aimsharvester/WEB-INF/config`.

In the `aims_oai.properties` file, edit the following variables:

```
appServerMachine=hostname (replace hostname with Application Server machine)
appServerPort=5300 (or port for Application Server machine)
Identify.baseURL=http://localhost/aimsharvester/oai2.0 (replace localhost with appropriate local host name)
Identify.repositoryIdentifier=myhost.org (replace myhost with appropriate host name)
```

When you are working with the administration component of the OAI-PMH connector, you will need to know where the expanded WAR file is located. The setup expands the war file to `<ArcIMS Installation Directory>/Metadata/OAI-PMH/Connector/aimsharvester`.

After your Web server has been configured you will need to configure the OAI-PMH connector for your Metadata Service. See the *Creating_Metadata_Services.pdf* (Harvesting documents section) for details.

Configuring Oracle Application Server 9.0.3/10g for OAI-PMH connector

If you chose to install the OAI-PMH connector and you completed the Web server-servlet engine configuration in the post installation setup, these manual steps will have automatically been completed for you.

Follow the steps below to configure Oracle Application Server 9.0.3 or Oracle Application Server 10g:

1. Locate the file `aimsharvester.war` in the `<ArcIMS Installation Directory>/arcims/Metadata/OAI-PMH/Connector` directory. The war file will be expanded into an `aimsharvester` directory located in `<ArcIMS Installation Directory>/arcims/Metadata/OAI-PMH/Connector`
2. In a text editor (such as Notepad), open `<ArcIMS install directory>/arcims/Metadata/OAI-PMH/Connector/aimsharvester/WEB-INF/config/aims_oai.properties`. You will need to change the properties of the `aims_oai.properties` file so that this file is writable, if it is not already. For example: `chmod +w aims_oai.properties`.
3. Open the Oracle Enterprise Manager in your Web browser (<http://mymachine.esri.com:1810>).
4. For OAS 9.0.1, click the `OC4J_home` link from the list of System Components.
For OAS 10g, click the `home` link from the list of System Components.
5. For OAS 9.0.3, on the `OC4J_home` page click the `Deploy War` file link under the Applications section to open the `Deploy Web Application` page.
For OAS 10g, on the `home` page click the `Deploy War` file link under the Applications section to open the `Deploy Web Application` page.
6. For Web Application, click `Browse` and navigate to `<ArcIMS Installation Directory>/arcims/Metadata/OAI-PMH/Connector/aimsharvester.war`.
7. For Application Name type `aimsharvester`
8. For Map to URL type `/aimsharvester`

9. Click Deploy to deploy the aimsharvester.war file. The OAI-PMH Connector is installed in the <Oracle Application Server Installation Directory>/j2ee/home/applications directory.
10. Click OK when the Confirmation is displayed.
11. Exit Oracle Enterprise Manager.
12. In a text editor (such as Notepad), open aims_oai.properties. This file is located at the deployed WAR file location. The default location is <Oracle Application Server Installation Directory>/j2ee/home/application-deployments/aimsharvester/WEB-INF/config.

In the aims_oai.properties file, edit the following variables:

```
appServerMachine=hostname (replace hostname with Application Server
machine)

appServerPort=5300 (or port for Application Server machine)

Identify.baseURL=http://localhost/aimsharvester/oai2.0 (replace
localhost with appropriate local host name)

Identify.repositoryIdentifier=myhost.org (replace myhost with
appropriate host name)
```

When you deploy the WAR file, the servlet engine expands the WAR file. The default location is <Oracle Application Server Installation Directory>/j2ee/home/application-deployments/aimsharvester.

After your Web server has been configured you will need to configure the OAI-PMH connector for your Metadata Service. See the *Creating_Metadata_Services.pdf* (Harvesting documents section) for details.

Configuring WebSphere for OAI-PMH

If you chose to install the OAI-PMH connector and you completed the Web server-servlet engine configuration in the post installation setup, these manual steps will have automatically been completed for you.

Follow these steps to configure IBM HTTP Server 1.3.26 with Websphere 5.0 for the OAI-PMH Connector :

1. Locate the file aimsharvester.war in the <ArcIMS Installation Directory>/arcims/Metadata/OAI-PMH/Connector directory. The war file will be expanded into an aimsharvester directory located in <ArcIMS Installation Directory>/arcims/Metadata/OAI-PMH/Connector
2. In a text editor (such as Notepad), open <ArcIMS install directory>/arcims/Metadata/OAI-PMH/Connector/aimsharvester/WEB-INF/config/aims_oai.properties. You will need to change the properties of the aims_oai.properties file so that this file is writable, if it is not already. For example: `chmod +w aims_oai.properties`.
3. In a text editor, open /opt/WebSphere/AppServer/config/cells/plugin-cfg.xml.
4. Scroll down to the section "<UriGroup Name="server1_Cluster_URIs">
5. Inside this block add the following
`<Uri Name="/aimsharvester/*"/>`
6. Save and Exit
7. Open the Websphere admin console in a browser: <http://localhost:9090/admin>
8. At the login page, type your username and click OK.
9. In the left panel, expand the Applications directory.
10. In the left panel, click on Install New Application.

11. In the right panel under local path, browse to aimsharvester.war file located at: /<ArcIMS installation location>/arcims/Metadata/OAI-PMH/Connector

12. Under Context Root, type /aimsharvester and click Next.

13. At the Generate Default Bindings screen, click Next.

14. At the AppDeployment Options screen, click Next.

15. At the Map Virtual Hosts for Web Modules screen, check the box next to aimsharvester.war and click Next.

16. At the Map Modules to Application Servers screen, check the box next to aimsharvester.war and click Next.

17. At the Summary screen, click Finish.

18. At the Installing screen, click on Save to Master Configuration link.

19. At the Save to Master Configuration screen, click Save.

20. In the left panel, click on Enterprise Applications.

21. In the right panel, check the box next to aimsharvester.war and click Start.

22. Stop and Start Websphere.

a. `cd /opt/WebSphere/AppServer/bin`

b. As root, `./firststeps.sh`

c. Click on Start, Stop Server.

23. In a text editor (such as Notepad), open aims_oai.properties. This file is located at the deployed WAR file location. The default location is <Websphere Installation Directory>/AppServer/installedApps/<machine>/aimsharvester_war.ear/aimsharvester.war/WEB-INF/config.

In the aims_oai.properties file, edit the following variables:

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`appServerMachine=hostname` (replace hostname with Application Server machine)

`appServerPort=5300` (or port for Application Server machine)

`Identify.baseURL=http://localhost/aimsharvester/oai2.0` (replace localhost with appropriate local host name)

`Identify.repositoryIdentifier=myhost.org` (replace myhost with appropriate host name)

When you deploy the WAR file, the servlet engine expands the WAR file. The default location is `<Websphere Installation Directory>/AppServer/installedApps/<machine>/aimsharvester_war.ear/aimsharvester.war`.

After your Web server has been configured you will need to configure the OAI-PMH connector for your Metadata Service. See the *Creating_Metadata_Services.pdf* (Harvesting documents section) for details.

Configuring your Web server for CS-W Connector

If you did not configure your Web server Servlet Engine using the post installation setup and you wish to use the CS-W connector, you must configure your Web server:

- [Apache with ServletExec](#)
- [Apache 2.0.4.x with Tomcat 4.1.xx/5.0.x using mod_jk2](#)
- [Sun Java System \(formerly Sun ONE\) Web server 6.1 sp 2](#)
- [Sun Java System \(formerly Sun ONE\) Application Server 7.0](#)
- [WebLogic 7.0/WebLogic 8.1](#)
- [Oracle Application Server 9.0.3/10g](#)
- [IBM HTTP Server 1.3.26 with WebSphere 5.0](#)

To configure your Web server Servlet Engine using the post installation setup, select the Web server Servlet Engine configuration option in the post installation setup and see [Web Server - Servlet Engine Configuration](#) for more information.

Configuring Apache with ServletExec for CS-W connector

If you chose to install the CS-W connector and you completed the Web server-servlet engine configuration in the post installation setup, these manual steps will have automatically been completed for you.

Follow these steps to manually configure Apache with ServletExec for the CS-W Connector:

1. Locate the file `aimscsw.war` in the `<ArcIMS Installation Directory>/arcims/Metadata/CSW/Connector` directory. The war file will be expanded into an `aimscsw` directory located in `<ArcIMS Installation Directory>/arcims/Metadata/CSW/Connector`

2. In a text editor (such as Notepad), open `<ArcIMS install directory>/arcims/Metadata/CSW/Connector/aimscsw/WEB-INF/classes/csw.properties`. You will need to change the properties of the `csw.properties` file so that this file is writable, if it is not already. For example: `chmod +w csw.properties`.

3. Start the Apache and ServletExec services.

4. In your web browser, to open ServletExec Admin type `http://<localhost>/servletexec/admin` for ServletExec 5.0

5. In the left sidebar under Web Applications, click manage.

6. Click Add Web Application.

7. For Application Name, type: `aimscsw`

8. For URL Context Path, type: `/aimscsw`

This is the name you will use to run the CS-W connector.

Note: The context path you specify is case sensitive. You might want to create more than one Web Application with path names like `AimsCSW` or `AIMSCSW` pointing to the CS-W connector.

9. For Location, type: <ArcIMS Installation Directory>/arcims/Metadata/CSW/Connector

Click Submit and close ServletExec Admin.

10. Stop and Start Apache web server and ServletExec and close the Services window.

11. In a text editor (such as Notepad), open csw.properties. This file is located at the deployed WAR file location. The default location is <ServletExec Installation Directory>/NewAtlanta/ServletExecAS/se-<instance>/ServletExecData/default/aimscsw/WAR/WEB-INF/config.

In the csw.properties file, edit the following variables:

```
url=http://WEB_SERVER_HOST_NAME (replace with Web server host name)
```

```
appServerMachine=hostname (replace hostname with Application Server machine)
```

```
appServerPort=5300 (or connector port)
```

```
CSW_SERVICE_URL=http://WEB_SERVER_HOST_NAME/aimscsw/csw2.0 (replace WEB_SERVER_HOST_NAME with hostname of Web server machine)
```

When you deploy the WAR file, the servlet engine expands the WAR file. The default location is <ServletExec Installation Directory>/NewAtlanta/ServletExecAS/se-<instance>/ServletExecData/default/aimscsw/WAR.

Configuring Apache with Tomcat using mod_jk2 for CS-W connector

If you chose to install the CS-W connector and you completed the Web server-servlet engine configuration in the post installation setup, these manual steps will have automatically been completed for you.

Follow these steps to configure Apache 2.0.4x with Tomcat 4.1.xx/5.0.x (mod_jk2) for the CS-W Connector:

1. Locate the file aimscsw.war in the <ArcIMS Installation Directory>/arcims/Metadata/CSW/Connector directory. The war file will be expanded into an aimscsw directory located in <ArcIMS Installation Directory>/arcims/Metadata/CSW/Connector
2. In a text editor (such as Notepad), open <ArcIMS install directory>/arcims/Metadata/CSW/Connector/aimscsw/WEB-INF/classes/csw.properties. You will need to change the properties of the csw.properties file so that this file is writable, if it is not already. For example: `chmod +w csw.properties`.
3. Copy aimscsw.war to <Tomcat Installation Directory>/webapps.
4. Stop the Tomcat and Apache services.
5. Navigate to <Apache Installation Directory>/conf/workers2.properties. Add `[uri:aimscsw/*]` to the file.
6. Start the Tomcat and Apache services by typing:

```
setenv JAVA_HOME <J2SE SDK Installation Directory>
setenv PATH $JAVA_HOME/bin:$PATH
<Tomcat Installation Directory>/bin/startup.sh
<Apache Installation Directory>/bin/apachectl start
```
7. In a text editor (such as Notepad), open csw.properties. This file is located at the deployed WAR file location. The default location is <Tomcat Installation Directory>/webapps/aimscsw/WEB-INF/config.

In the csw.properties file, edit the following variables:

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`url=http://WEB_SERVER_HOST_NAME` (replace with Web server host name)

`appServerMachine=hostname` (replace hostname with Application Server machine)

`appServerPort=5300` (or connector port)

`CSW_SERVICE_URL=http://WEB_SERVER_HOST_NAME/aimscsw/csw2.0` (replace WEB_SERVER_HOST_NAME with hostname of Web server machine)

When you deploy the WAR file, the servlet engine expands the WAR file. The default location is <Tomcat Installation Directory>/webapps/aimscsw.

Configuring Sun Java System 6.1 sp 2 for CS-W connector

If you chose to install the CS-W connector and you completed the Web server-servlet engine configuration in the post installation setup, these manual steps will have automatically been completed for you.

Follow these steps to configure Sun Java System (formerly Sun ONE) 6.1 SP2 for the CS-W Connector:

1. Locate the file `aimscsw.war` in the `<ArcIMS Installation Directory>/arcims/Metadata/CSW/Connector` directory. The war file will be expanded into an `aimscsw` directory located in `<ArcIMS Installation Directory>/arcims/Metadata/CSW/Connector`

Note: Skip to Step 9 if you already configured your J2SE JRE/J2SE JDK paths.

2. In a text editor (such as Notepad), open `<ArcIMS install directory>/arcims/Metadata/CSW/Connector/aimscsw/WEB-INF/classes/csw.properties`. You will need to change the properties of the `csw.properties` file so that this file is writable, if it is not already. For example: `chmod +w csw.properties`.

3. In your Web browser, type: `http://<localhost.domain.com>:<serveradminport>`
For example: `http://arcims.esri.com:10000`

Tip

- If you don't know your server's administration port, open `<Sun Java System Installation Directory>/servers/https-admserv/config/admin.conf` in a text editor and read the `http://<localhost.domain.com>:<serveradminport>` there.

4. Type your user name and password and click OK.

5. Click Manage.

6. Click on the Virtual Server Class tab.

7. Next to Select a Class, click Manage.
8. Next to Select a Virtual Server, click Manage.
9. Click on the Web Applications tab.
10. Browse to the aimscsw.war file located at <ArcIMS install directory>/arcims/Metadata/CSW/Connector
11. For the Application Uri, type /aimscsw
12. Click OK.
13. In the top right hand corner, click Apply.
14. Click Apply changes.
15. Stop and Start the Sun Java System Web Server:
 <Sun Java System Installation Directory>/https-<machine>.<domain>/restart
 <Sun Java System Installation Directory>/https-admserv restart
16. In a text editor (such as Notepad), open csw.properties. This file is located at the deployed WAR file location. The default location is <ArcIMS Installation Directory>/aarcims/Metadata/CSW/Connector/aimscsw/WEB-INF/config.

In the csw.properties file, edit the following variables:

```
url=http://WEB_SERVER_HOST_NAME (replace with Web server host name)
appServerMachine=hostname (replace hostname with Application Server
machine)
appServerPort=5300 (or connector port)
CSW_SERVICE_URL=http://WEB_SERVER_HOST_NAME/aimscsw/csw2.0 (replace
WEB_SERVER_HOST_NAME with hostname of Web server machine)
```

When you are working with the administration component of the CS-W Connector, you will need to know where the expanded WAR file is located. The setup expands

ArcIMS 9.1 for HP-UX Install Guide

the war file to <ArcIMS Installation Directory>/aarcims/Metadata/CSW/Connector/aimscsw.

Configuring Sun Java System Application Server 7.0 for CS-W connector

If you chose to install the CS-W connector and you completed the Web server-servlet engine configuration in the post installation setup, these manual steps will have automatically been completed for you.

Follow these steps to configure Sun Java System (formerly Sun ONE) Application Server 7.0 for the CS-W Connector:

1. Locate the file `aimscsw.war` in the `<ArcIMS Installation Directory>/arcims/Metadata/CSW/Connector` directory. The war file will be expanded into an `aimscsw` directory located in `<ArcIMS Installation Directory>/arcims/Metadata/CSW/Connector`
2. In a text editor (such as Notepad), open `<ArcIMS install directory>/arcims/Metadata/CSW/Connector/aimscsw/WEB-INF/classes/csw.properties`. You will need to change the properties of the `csw.properties` file so that this file is writable, if it is not already. For example: `chmod +w csw.properties`.
3. In your Web browser, type: `http://<localhost.domain.com>:<serveradminport>`
For example: `http://arcims.esri.com:10000`

Tip

- If you don't know your server's administration port, open `<Sun Java System Installation Directory>/servers/https-admserver/config/admin.conf` in a text editor and read the `http://<localhost.domain.com>:<serveradminport>` there.

4. Type your user name and password and click OK.
5. In the left panel, expand Applications and click on Web Apps.
6. In the right panel, click on Deploy.
7. Browse to the `aimscsw.war` file located at: `<ArcIMS Installation Directory>/arcims/Metadata/CSW/Connector` and click OK.

8. Leave the Context Root at the default setting and click OK.
9. In another terminal, as root, browse to
/<SunONE_HOME>/domains/domain1/server1/config.
10. Open the server.policy file for editing.
11. Add the following text directly above this line: //Following grant block is only required by Connectors

```
grant codeBase "file:/<Sun Java System (formerly Sun ONE)
HOME>/domains/domain1/server1/applications/j2ee-
modules/aimscsw_1/WEB-INF/classes/-"
{
permission java.util.PropertyPermission "*", "read,write";
};
```

12. Save and close.
13. Restart the server.
14. In a text editor (such as Notepad), open csw.properties. This file is located at the deployed WAR file location. The default location is <Sun Java Installation Directory>/domains/domain1/ server1/applications/j2ee-modules/aimscsw_1/WEB-INF/config.

In the csw.properties file, edit the following variables:

```
url=http://WEB_SERVER_HOST_NAME (replace with Web server host name)
appServerMachine=hostname (replace hostname with Application Server
machine)
appServerPort=5300 (or connector port)
CSW_SERVICE_URL=http://WEB_SERVER_HOST_NAME/aimscsw/csw2.0 (replace
WEB_SERVER_HOST_NAME with hostname of Web server machine)
```


Step 3a: Installing ArcIMS 9.1

When you deploy the WAR file, the servlet engine expands the WAR file. The default location is <Sun Java Installation Directory>/domains/domain1/server1/applications/j2ee-modules/aimscsw_1.

Configuring WebLogic for CS-W connector

If you chose to install the CS-W connector and you completed the Web server-servlet engine configuration in the post installation setup, these manual steps will have automatically been completed for you.

Follow these steps to configure WebLogic for the CS-W Connector:

1. Locate the file `aimscsw.war` in the `<ArcIMS Installation Directory>/arcims/Metadata/CSW/Connector` directory. The war file will be expanded into an `aimscsw` directory located in `<ArcIMS Installation Directory>/arcims/Metadata/CSW/Connector`
2. In a text editor (such as Notepad), open `<ArcIMS install directory>/arcims/Metadata/CSW/Connector/aimscsw/WEB-INF/classes/csw.properties`. You will need to change the properties of the `csw.properties` file so that this file is writable, if it is not already. For example: `chmod +w csw.properties`.
3. Start WebLogic.
4. In your web browser, type:
`http://<localhost.domain.com>:<serveradminport>/console`, for example,
`http://arcims.esri.com:10000/console`.
5. Type your password.
6. On the left sidebar, expand the `<Domain Name>`, Deployments and click Web Applications.
7. Click Deploy a new Web Application Module.
8. Browse to the location of the `aimscsw` directory.
9. On the panel for selecting the archive for this Web application module, select the `aimscsw` directory radio button. Do not select `aimscsw.war`.
10. Click Target Module.

11. Click Deploy.
12. Stop and restart Weblogic.
13. In a text editor (such as Notepad), open `csw.properties`. This file is located at the deployed WAR file location. The default location is `<ArcIMS Installation Directory>/Metadata/CSW/Connector/aimscsw/WEB-INF/config`.

In the `csw.properties` file, edit the following variables:

```
url=http://WEB_SERVER_HOST_NAME (replace with Web server host name)
```

```
appServerMachine=hostname (replace hostname with Application Server machine)
```

```
appServerPort=5300 (or connector port)
```

```
CSW_SERVICE_URL=http://WEB_SERVER_HOST_NAME/aimscsw/csw2.0 (replace WEB_SERVER_HOST_NAME with hostname of Web server machine)
```

When you are working with the administration component of the CS-W connector, you will need to know where the expanded WAR file is located. The setup expands the war file to `<ArcIMS Installation Directory>/Metadata/CSW/Connector/aimscsw`.

Configuring Oracle Application Server 9.0.3/10g for CS-W connector

If you chose to install the CS-W connector and you completed the Web server-servlet engine configuration in the post installation setup, these manual steps will have automatically been completed for you.

Follow the steps below to configure Oracle Application Server 9.0.3 or Oracle Application Server 10g for the CS-W connector:

1. Locate the file `aimscsw.war` in the `<ArcIMS Installation Directory>/arcims/Metadata/CSW/Connector` directory. The war file will be expanded into an `aimscsw` directory located in `<ArcIMS Installation Directory>/arcims/Metadata/CSW/Connector`
2. In a text editor (such as Notepad), open `<ArcIMS install directory>/arcims/Metadata/CSW/Connector/aimscsw/WEB-INF/classes/csw.properties`. You will need to change the properties of the `csw.properties` file so that this file is writable, if it is not already. For example: `chmod +w csw.properties`.
3. Open the Oracle Enterprise Manager in your Web browser (<http://mymachine.esri.com:1810>).
4. For OAS 9.0.3, click the `OC4J_home` link from the list of System Components.
For OAS 10g, click the `home` link from the list of System Components.
5. For OAS 9.0.3, on the `OC4J_home` page click the `Deploy War file` link under the Applications section to open the `Deploy Web Application` page.
For OAS 10g, on the `home` page click the `Deploy War file` link under the Applications section to open the `Deploy Web Application` page.
6. For Web Application, click `Browse` and navigate to `<ArcIMS Installation Directory>/arcims/Metadata/CSW/Connector/aimscsw.war`.
7. For Application Name type `aimscsw`
8. For Map to URL type `/aimscsw`

9. Click Deploy to deploy the aimscsw.war file. The CS-W Connector is installed in the <Oracle Application Server Installation Directory>/j2ee/home/applications directory.
10. Click OK when the Confirmation is displayed.
11. Exit Oracle Enterprise Manager.
12. In a text editor (such as Notepad), open csw.properties. This file is located at the deployed WAR file location. The default location is <Oracle Application Server Installation Directory>/j2ee/home/application-deployments/aimscsw/WEB-INF/config.

In the csw.properties file, edit the following variables:

```
url=http://WEB_SERVER_HOST_NAME (replace with Web server host name)
appServerMachine=hostname (replace hostname with Application Server
machine)
appServerPort=5300 (or connector port)
CSW_SERVICE_URL=http://WEB_SERVER_HOST_NAME/aimscsw/csw2.0 (replace
WEB_SERVER_HOST_NAME with hostname of Web server machine)
```

When you deploy the WAR file, the servlet engine expands the WAR file. The default location is <Oracle Application Server Installation Directory>/j2ee/home/application-deployments/aimscsw.

Configuring WebSphere for CS-W connector

If you chose to install the CS-W connector and you completed the Web server-servlet engine configuration in the post installation setup, these manual steps will have automatically been completed for you.

Follow these steps to configure IBM HTTP Server 1.3.26 with Websphere 5.0 for the CS-W Connector :

1. Locate the file aimscsw.war in the <ArcIMS Installation Directory>/arcims/Metadata/CSW/Connector directory. The war file will be expanded into an aimscsw directory located in <ArcIMS Installation Directory>/arcims/Metadata/CSW/Connector
2. In a text editor (such as Notepad), open <ArcIMS install directory>/arcims/Metadata/CSW/Connector/aimscsw/WEB-INF/classes/csw.properties. You will need to change the properties of the csw.properties file so that this file is writable, if it is not already. For example: `chmod +w csw.properties`.
3. In a text editor, open /opt/WebSphere/AppServer/config/cells/plugin-cfg.xml.
4. Scroll down to the section "<UriGroup Name="server1_Cluster_URIs">
5. Inside this block add the following
`<Uri Name="/aimscsw/*"/>`
6. Save and Exit
7. Open the Websphere admin console in a browser: <http://localhost:9090/admin>
8. At the login page, type your username and click OK.
9. In the left panel, expand the Applications directory.
10. In the left panel, click on Install New Application.

11. In the right panel under local path, browse to aimscsw.war file located at:
/<ArcIMS installation location>/arcims/Metadata/CSW/Connector
12. Under Context Root, type /aimscsw and click Next.
13. At the Generate Default Bindings screen, click Next.
14. At the AppDeployment Options screen, click Next.
15. At the Map Virtual Hosts for Web Modules screen, check the box next to aimscsw.war and click Next.
16. At the Map Modules to Application Servers screen, check the box next to aimscsw.war and click Next.
17. At the Summary screen, click Finish.
18. At the Installing screen, click on Save to Master Configuration link.
19. At the Save to Master Configuration screen, click Save.
20. In the left panel, click on Enterprise Applications.
21. In the right panel, check the box next to aimscsw.war and click Start.
22. Stop and Start Websphere.
 - a. cd /opt/WebSphere/AppServer/bin
 - b. As root, ./firststeps.sh
 - c. Click on Start, Stop Server.
23. In a text editor (such as Notepad), open csw.properties. This file is located at the deployed WAR file location. The default location is <Websphere Installation Directory>/AppServer/installedApps/<machine>/aimscsw_war.ear/aimscsw.war/WEB-INF/config.

In the csw.properties file, edit the following variables:

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`url=http://WEB_SERVER_HOST_NAME` (replace with Web server host name)

`appServerMachine=hostname` (replace hostname with Application Server machine)

`appServerPort=5300` (or connector port)

`CSW_SERVICE_URL=http://WEB_SERVER_HOST_NAME/aimscsw/csw2.0` (replace WEB_SERVER_HOST_NAME with hostname of Web server machine)

When you deploy the WAR file, the servlet engine expands the WAR file. The default location is <Websphere Installation Directory>/AppServer/installedApps/<machine>/aimscsw_war.ear/aimscsw.war.

Installing ArcIMS in console mode

The ArcIMS setup can also be run in console mode. This runs the setup without the graphical user interface. To install ArcIMS in console mode:

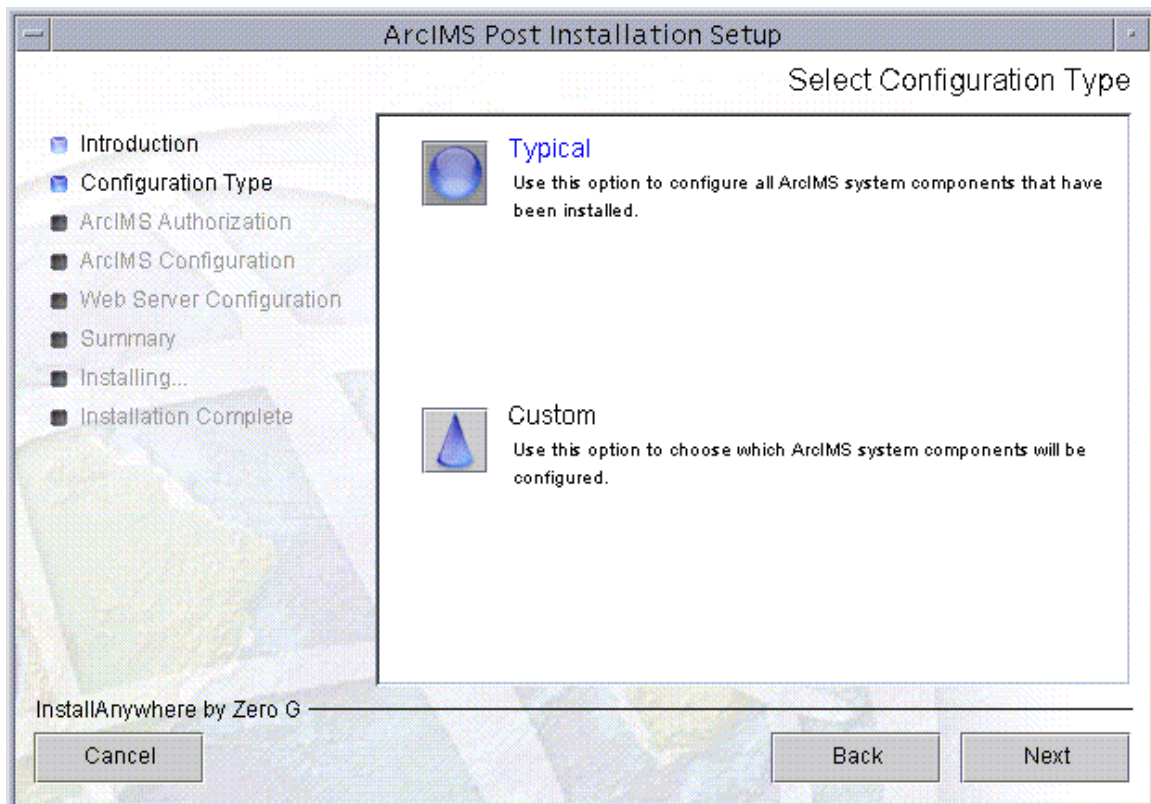
1. Use the following command: `./SetupArcIMS -c`
2. Follow the directions on your screen to install ArcIMS.
3. Launch the post installation setup in console mode using the following command: `./SetupArcIMS_PostInstall -c`
4. Follow the directions on your screen to complete the post installation setup.
5. The setup will provide information on launching the Web server - servlet engine configuration in console mode. You must be logged in as root to perform this task.

Step 3b: ArcIMS post installation setup

Post installation overview

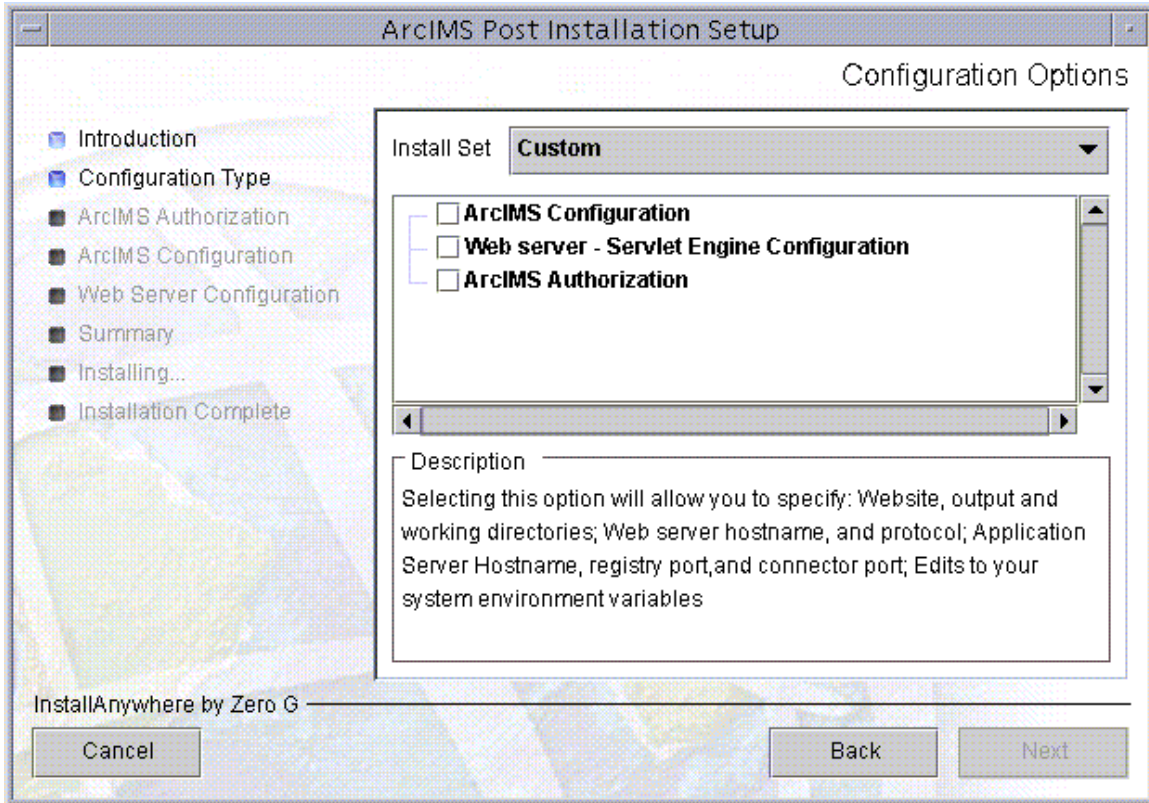
You must complete the ArcIMS post installation setup to successfully configure your ArcIMS installation for use. You can complete the post installation during the initial installation, or you can run the post installation setup at a later time by running the `arcims/tools/SetupArcIMS_PostInstall` script.

Choose a Typical or a Custom post installation setup.



A Typical post installation setup will guide you through the basic configurations for the features you installed. A Typical post installation setup will automatically choose the necessary post installation options required for your installation.

Select a Custom installation to choose from any of the available post installation setup options.



The available post installation setup options depend on what features were installed. If a post installation setup option is unavailable it will not be displayed.

ArcIMS 9.1 offers the following post installation setup options:

ArcIMS Configuration

Web Server-Servlet Engine Configuration

ArcIMS Authorization

ArcIMS Authorization

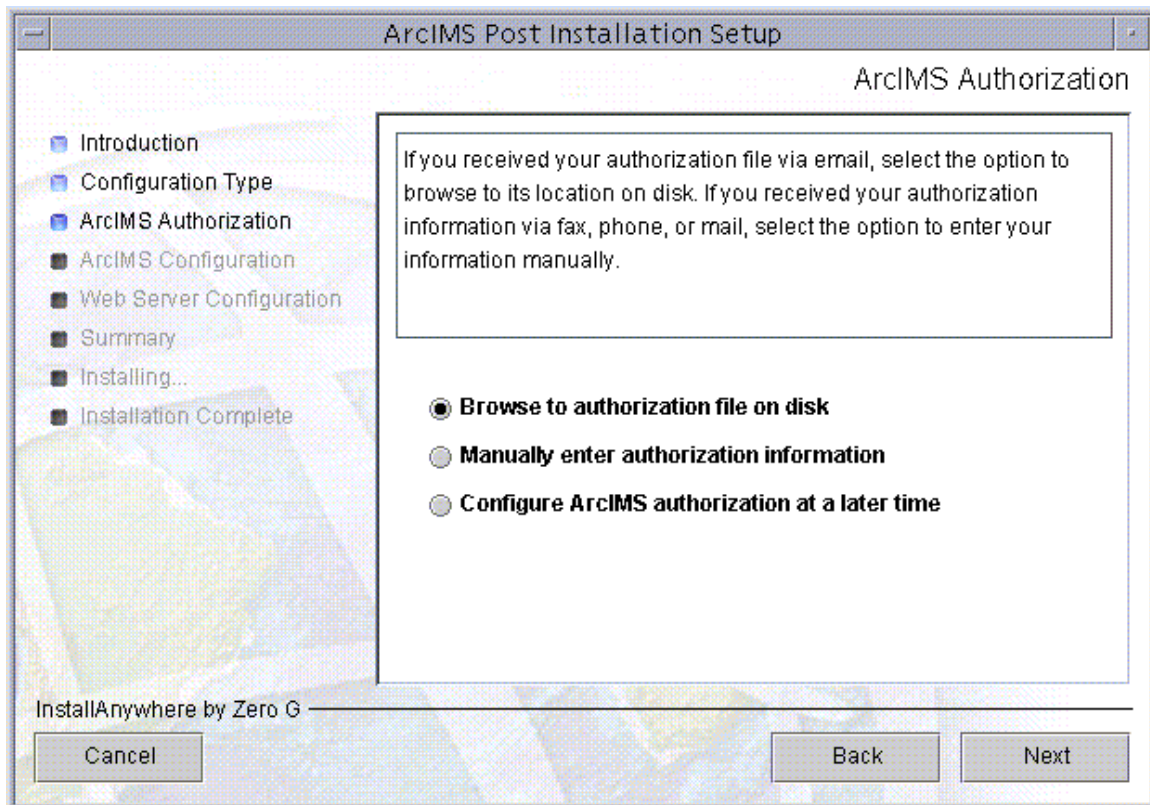
ArcIMS Spatial Server requires an authorization file for use. Each machine installing this feature will require an authorization file. For information on obtaining an authorization file, see the topic [To obtain an authorization file](#).

If you installed ArcIMS Spatial Server, the post installation option ArcIMS Authorization will configure your machine using the authorization file you received from Customer Service.

To re-configure your machine with an updated authorization file, run through this post installation option again. To launch the post installation setup at a later time, run the <ArcIMS Install Directory>/arcims/tools/SetupArcIMS_PostInstall script.

Provide the following information to successfully configure your machine using your authorization file:

- **Choose your ArcIMS Authorization option**



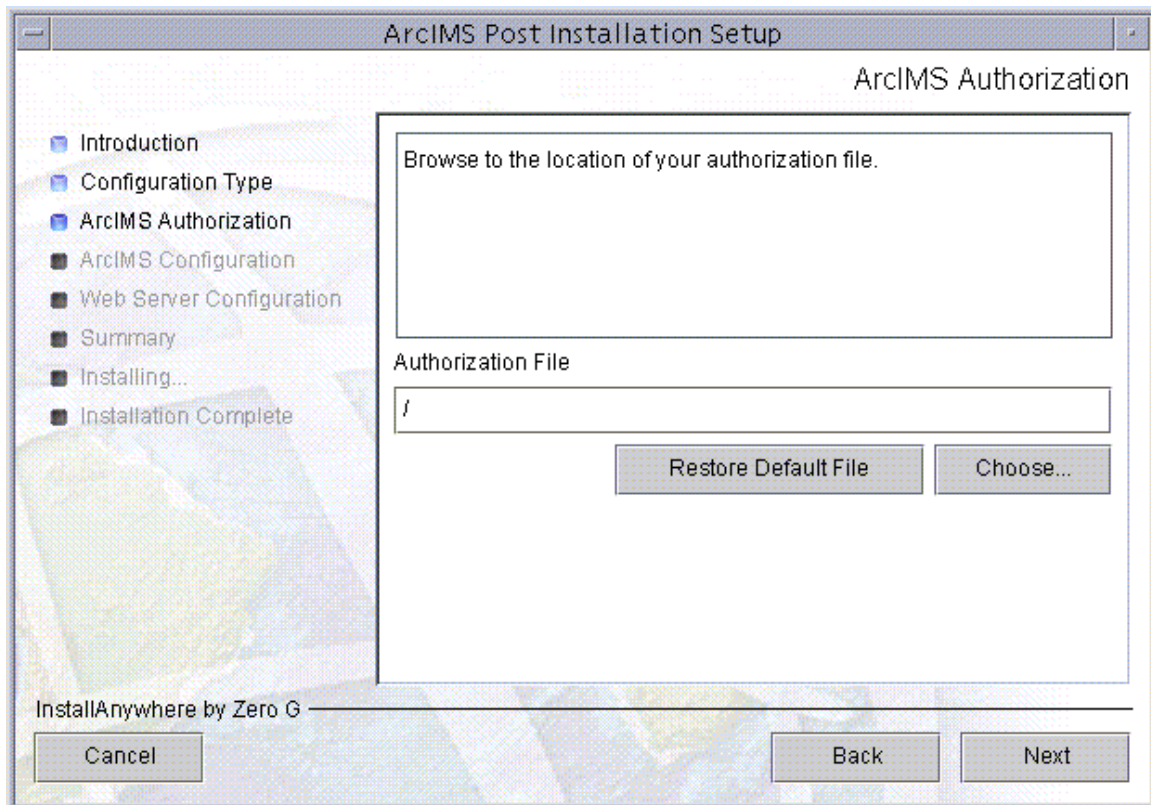
You can configure your machine using two methods:

- Browse to the location of the authorization file
- Manually enter the authorization information

Choose the method in which you will provide the authorization file information.

You can also choose to configure ArcIMS Authorization later. But, you will need to configure your machine using an authorization file before using ArcIMS Spatial Server.

- **Browsing to an authorization file on disk**



If you chose the option to browse to an authorization file on disk, you are required to Choose or enter the location of your authorization file that you received from customer service.

- **Manually entering the authorization information**

Step 3b: ArcIMS post installation setup

ArcIMS Post Installation Setup

ArcIMS Authorization

Provide the required information.

Introduction
Configuration Type
ArcIMS Authorization
ArcIMS Configuration
Web Server Configuration
Summary
Installing...
Installation Complete

Feature Name: ArcIMSServer

License Version: 9

Time-out Date: []

Registration Number: []

License Key: []

InstallAnywhere by Zero G

Cancel Back Next

If you chose the option to manually enter the authorization information, you are required to provide the following information: (This information can be obtained from the authorization file you received by mail, email, telephone or fax)

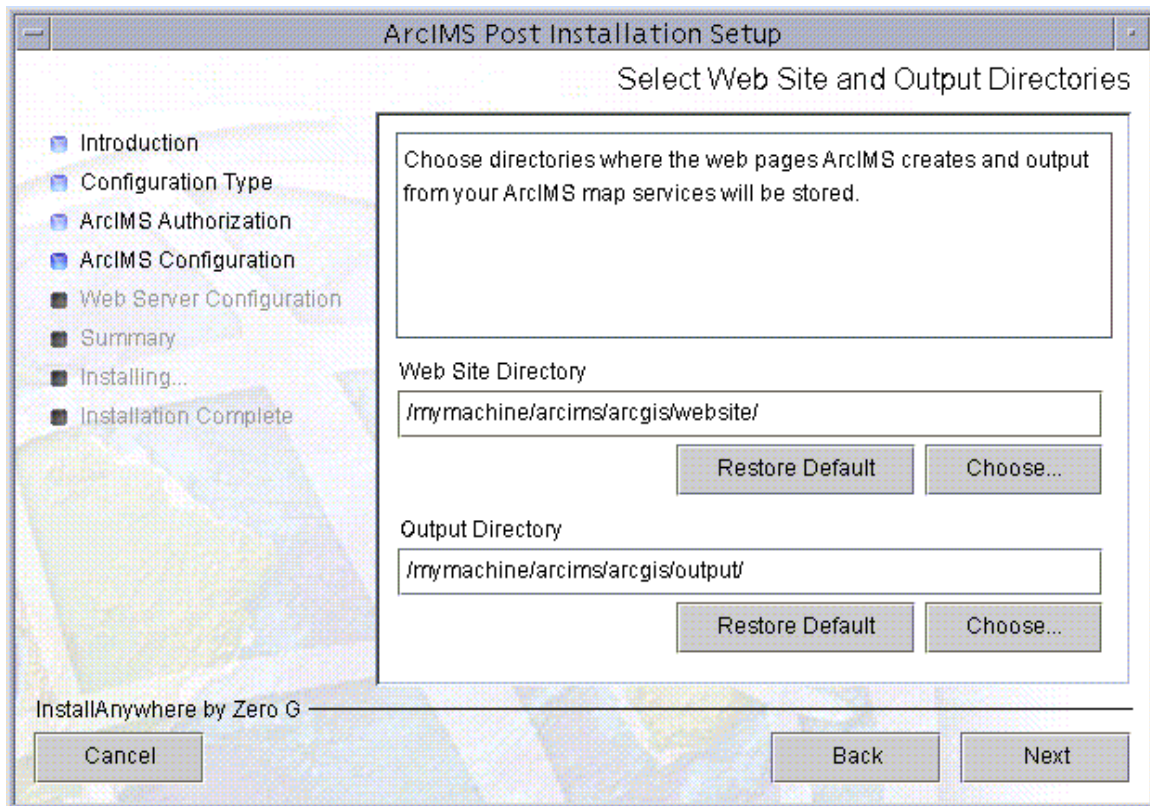
- Feature name
- License version
- Time-out date
- Registration number
- License key

ArcIMS configuration

Selecting the ArcIMS Configuration post installation setup option will configure any of the following, depending on what features you installed:

- website and output directories
- Working directory
- Netscape installation directory
- Web server hostname and protocol
- Hostname, registry port and connector port for Application Server communication
- System Environment variables

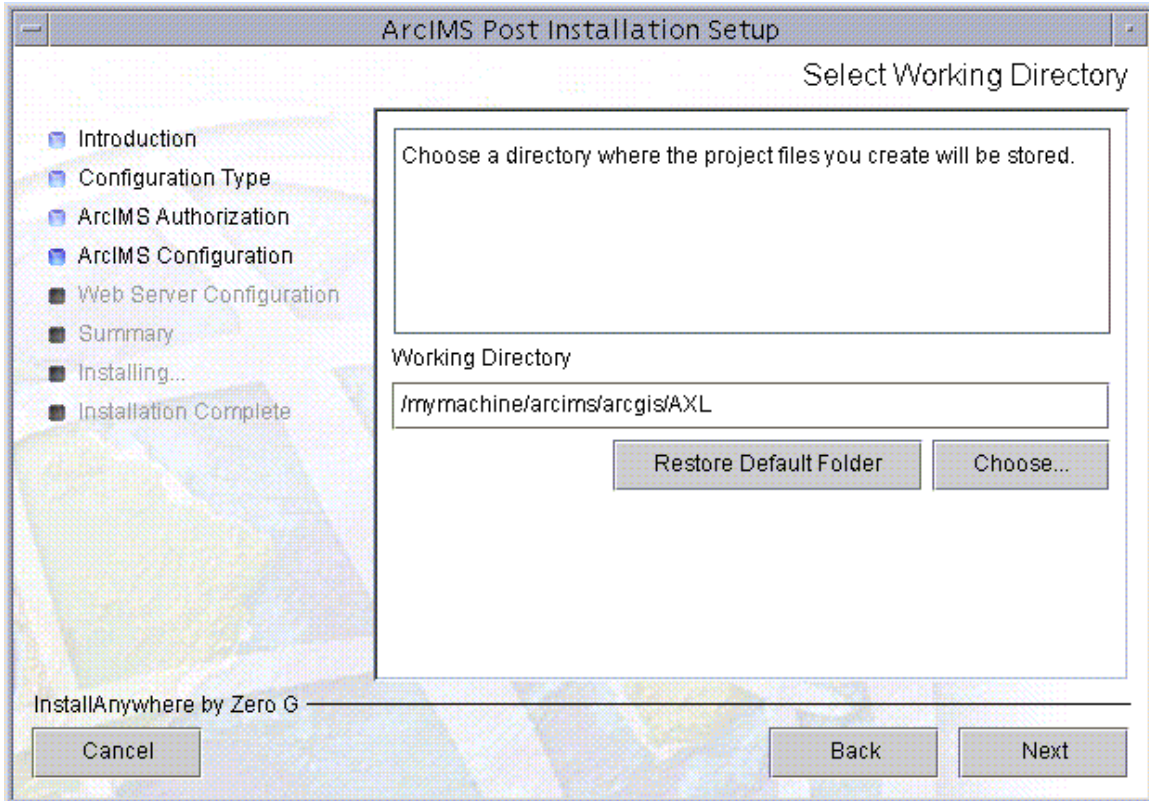
- **Set a location to store ArcIMS Web sites and temporary output files**



Your ArcIMS Web sites will be stored in the website directory. Provide a location to store your ArcIMS Web sites, or accept the default location. A website directory will be created in this location.

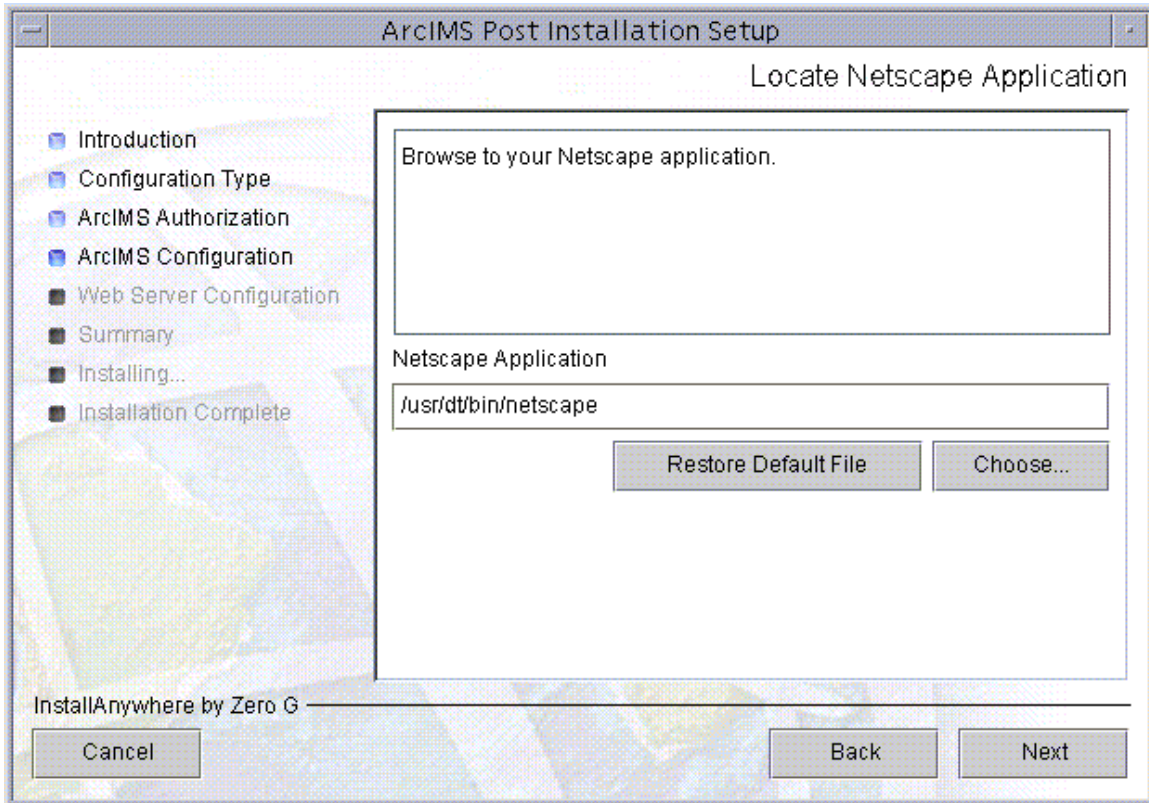
Your ArcIMS Web site output will be stored in the output directory. Provide a location to store your ArcIMS Web site output files, or accept the default location. An output directory will be created in this location.

- **Provide a working directory**



A working directory (Axl directory) is created where your ArcIMS project files will be stored.

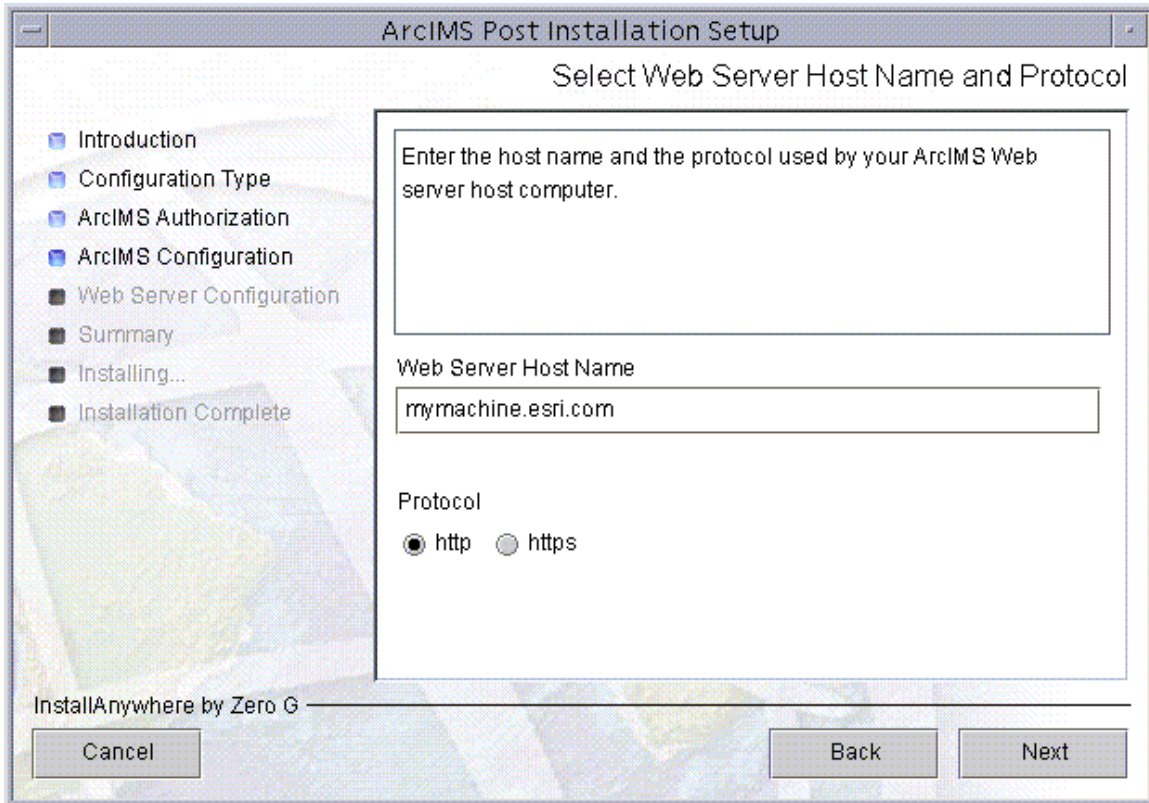
- **Provide the Netscape application location**



The location of your Netscape application is required if you choose to install Manager Applications. If you have not installed Netscape, you may open another window and do so now.

Typically the location of your Netscape application can be determined by running the "which netscape" or "whereis netscape" command. For example, your Netscape Application may be located at /usr/dt/bin/netscape.

- **Provide Web server host name and protocol**



Enter your Web server host name (this may be appended with your domain.com). By default your machine name, followed by esri.com will be provided.

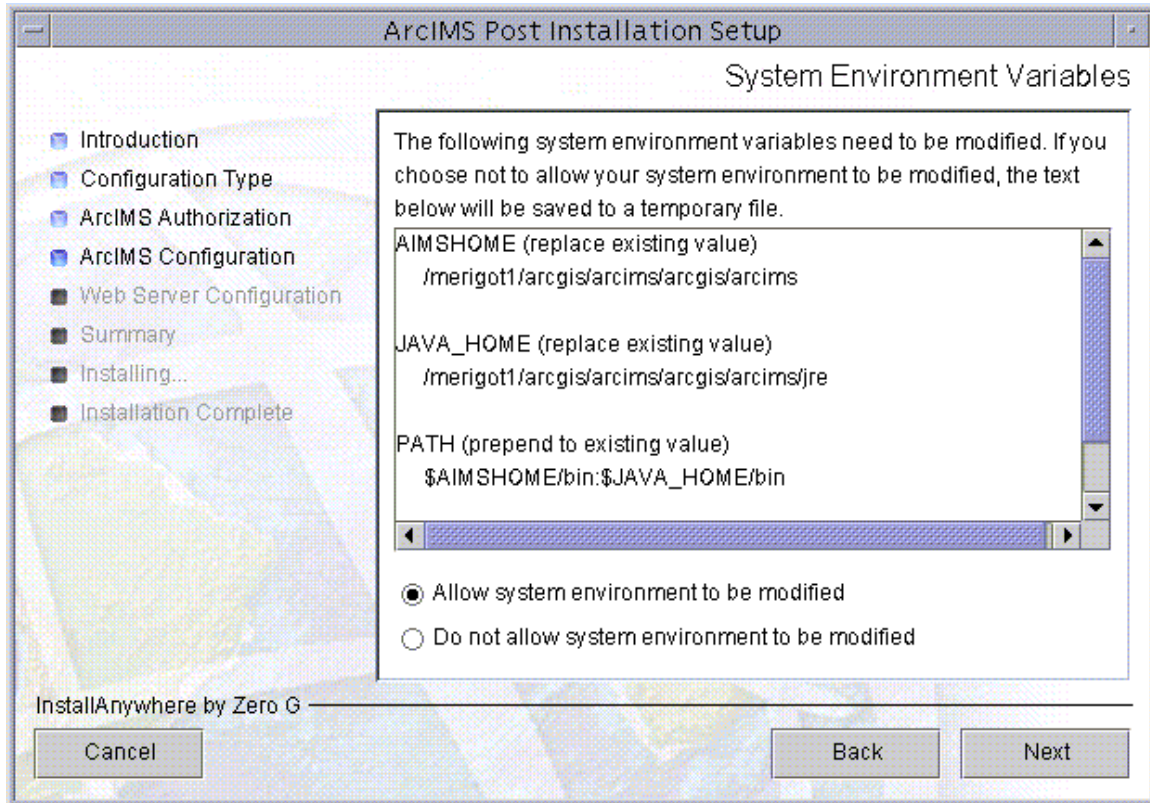
Select the protocol used by your Web server host computer. For Protocol, specify HTTP or HTTPS protocol.

- **Provide Application Server information**

The screenshot shows a window titled "ArcIMS Post Installation Setup" with a sub-header "Application Server Information". On the left is a navigation pane with the following items: Introduction (selected), Configuration Type, ArcIMS Authorization, ArcIMS Configuration, Web Server Configuration, Summary, Installing..., and Installation Complete. The main area contains a text box with the instruction: "Enter your application server host name, registry port, and connector port." Below this are three input fields: "Application Server Host Name" with the value "rrymachine", "Registry Port" with the value "5353", and "Connector Port" with the value "5300". At the bottom left is the text "InstallAnywhere by Zero G" and a "Cancel" button. At the bottom right are "Back" and "Next" buttons.

Enter the name of the machine where the Application Server is installed. Your machine name is provided as you Application Server host name by default. The Registry Port default is 5353. The ArcIMS Spatial Server, Monitor, and Tasker communicate with the ArcIMS Application Server via the Registry port. The Connector port default is 5300. The Servlet Connector and ArcIMS Application Server communicate via the Connector port.

- **System Environment Variables edited**



A list of required edits is displayed. The post installation setup can make these changes to your system environment variables for you. If you do not allow the post installation setup to make these edits, to successfully complete your ArcIMS installation you must make the edits manually. A temporary file containing the necessary edits is created for you. The temporary file is located at: \$HOME/ArcIMS_envVars.txt.

The following variables will be edited:

AIMSHOME = <ArcIMS installation directory>/arcims

JAVA_HOME = \$AIMSHOME/jre

PATH = \$AIMSHOME/bin:\$JAVA_HOME/bin

SHLIB_PATH = \$AIMSHOME/lib:\$AIMSHOME/bin:\$AIMSHOME/raster/bin/hp700

For additional information see [Setting up your ArcIMS account](#).

Web server and servlet engine configuration

You must have a Web server and Servlet Engine installed and operational before you can configure them for ArcIMS. For information on setting up your Web server and Servlet Engine visit <http://support.esri.com/search/KbDocument.asp?dbid=28543>.

For supported Web servers and Servlet Engines, See [Step 1: Verify system requirements](#). After you have installed your Web server and Servlet Engine you must verify that they are communicating with each other. If your Web server and Servlet Engine do not appear to be successfully communicating with each other, see your Servlet Engine's Web site for further information.

ServletExec 5.0 AS users

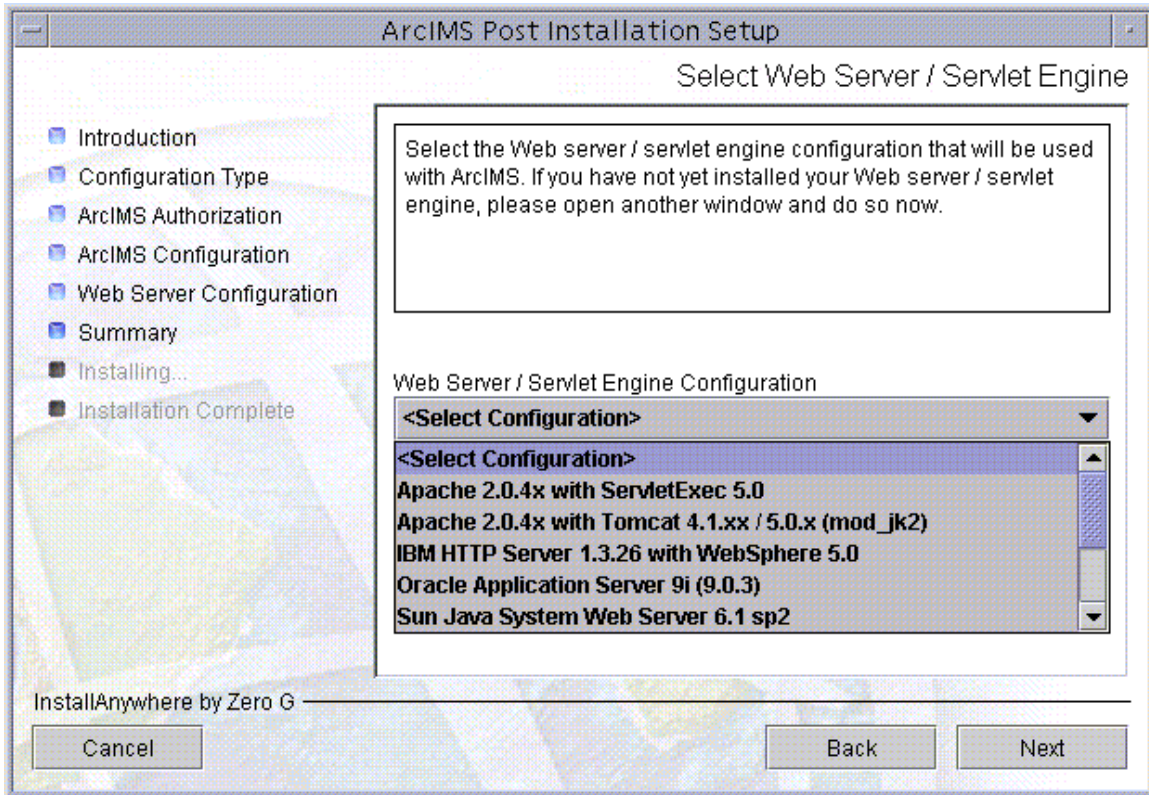
If you are using ServletExec 5.0 AS and you did not install it from the ArcIMS CD, you will need to verify that you are using ServletExec native adapter version 5.0c or greater. See http://www.newatlanta.com/biz/c/products/servletexec/self_help/faq/detail?faqId=94 for directions on determining the version of the ServletExec AS native adapter you have installed. ArcIMS Supports ServletExec 5.0 (patch level c or greater). If you do not have ServletExec 5.0 (patch level c or greater) installed you can obtain it from the ArcIMS CD or from the [New Atlanta Web site](#).

Automated Web server - Servlet Engine configuration is provided for the following:

- Apache 2.0.4x with ServletExec 5.0
- Apache 2.0.4x with Tomcat 4.1.xx/5.0x (mod_jk2)
- IBM HTTP Server 1.3.26 with WebSphere 5.0
- Oracle Application Server 9i (9.0.3)
- Oracle Application Server 10g
- Sun Java System (formerly Sun ONE) Web server 6.1 SP 2
- Sun Java System (formerly Sun ONE) Application Server 7.0
- WebLogic 7.0 SP 1/WebLogic 8.1

You can run the post installation setup at any time by running the ArcIMS/tools/SetupArcIMS_PostInstall script.

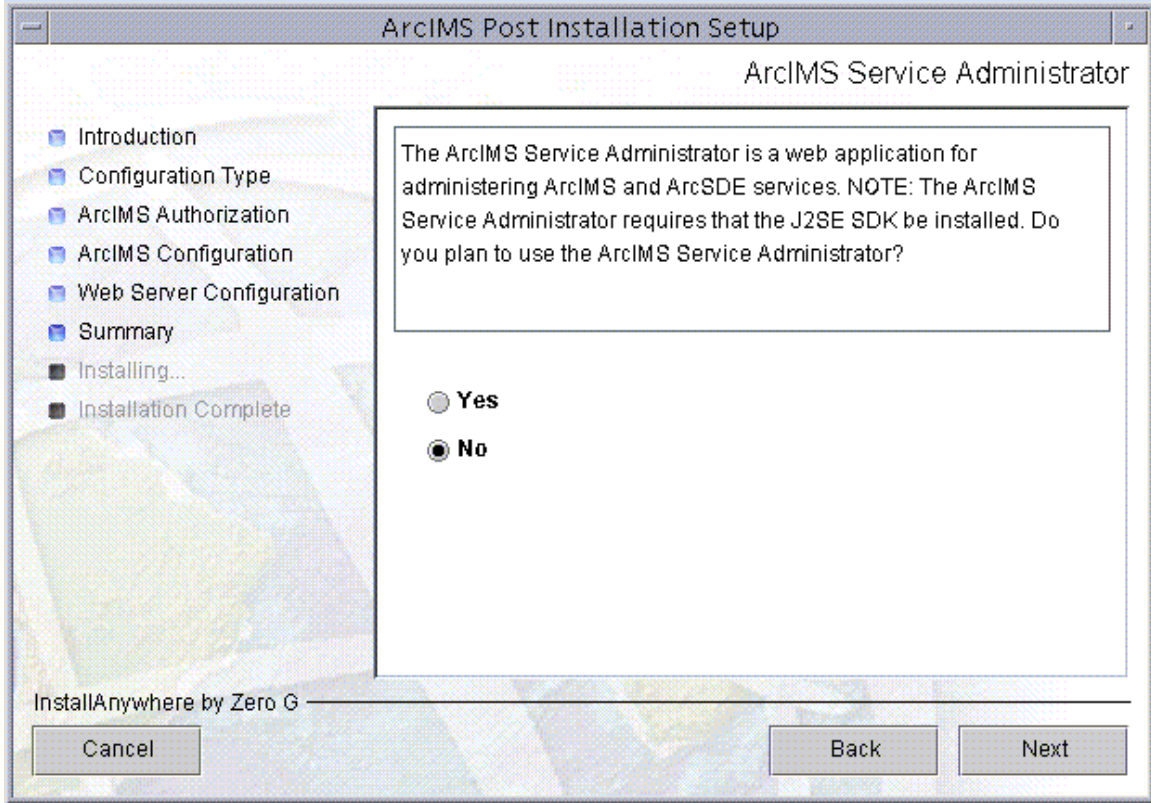
- **Select the Web server-Servlet Engine configuration that you installed**



If your Web server-Servlet Engine configuration is not listed select I will manually configure my Web server - servlet engine. If you select I will manually configure my Web server - servlet engine you will need to manually configure your Web server before using ArcIMS. See [Step 4: Configure your Web Server](#) for steps on manually configuring your Web server.

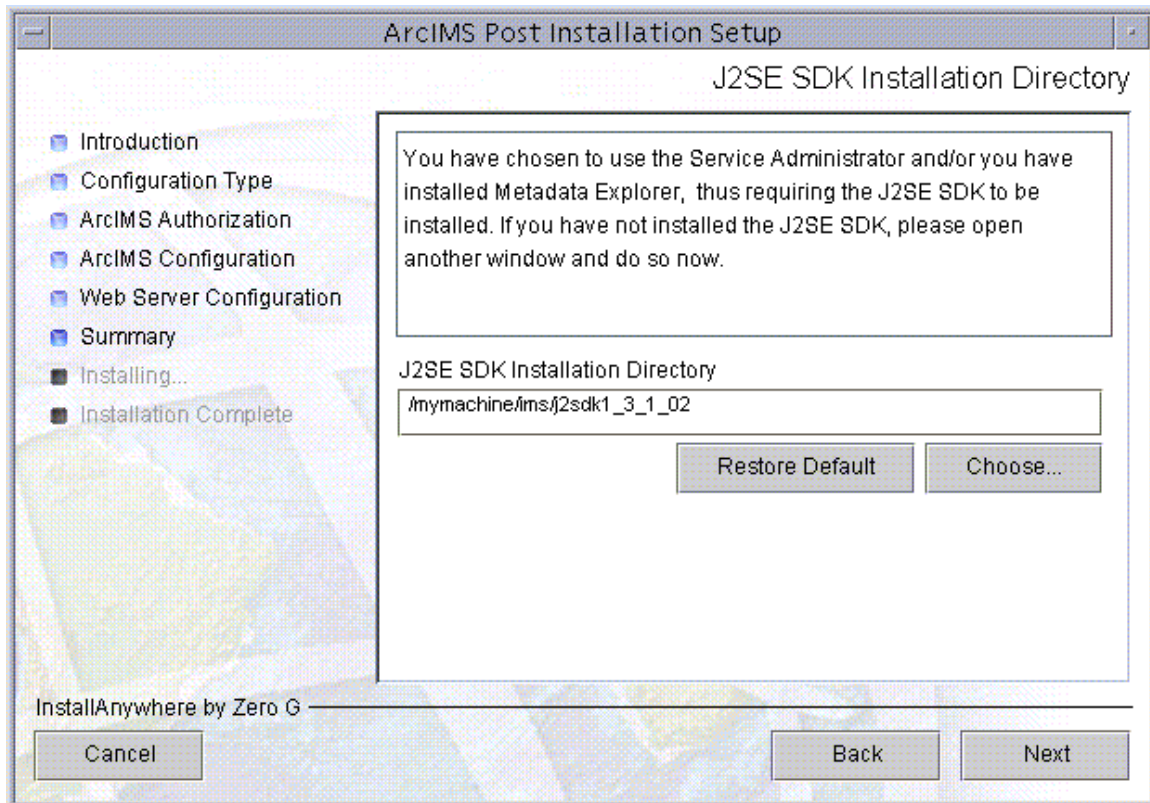
- **ArcIMS Service Administrator configuration**

The ArcIMS Service Administrator is a remote site administration tool that allows you to administer ArcIMS and ArcSDE services. If you plan to use the ArcIMS Service Administrator the post installation setup can configure it for you.



The ArcIMS Service Administrator requires the Java 2 Platform Standard Edition Software Development Kit (J2SE SDK). If you choose to use the ArcIMS Service Administrator you will be required to provide your J2SE SDK installation directory.

- **Provide your JDK installation directory**



If you are using the ArcIMS Service Administrator, and/or you installed Metadata Explorer, you will be required to provide your Java 2 Platform Standard Edition Software Development Kit (J2SE SDK) installation directory. If you have not installed the J2SE SDK you can open another window and do so now.

- **Provide information on your Web server-Servlet Engine**

You will be required to provide some information on the Web server and Servlet Engine you are configuring. The information required will vary depending on your Web server-Servlet Engine configuration.

For **Apache with Tomcat using mod_jk2**

You will be required to provide the following information:

- Apache installation directory (for example, /disk1/apache_2.0.46)
- Tomcat installation directory (for example, /disk1/tomcat4.1.24/jakarta-tomcat-4.1.24)

For **Apache with ServletExec**

You will be required to provide the following information:

- Apache installation directory (for example, /disk1/apache_2.0.46)

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- ServletExec installation directory (for example, /disk1/NewAtlanta/ServletExecAS)
- The ServletExec instance name you will be using for ArcIMS

For **Oracle Application Server 9i (9.0.3)**

You will be required to provide the following information:

- Oracle Application Server 9i (9.0.3) installation directory (for example, disk1/ora9is)

For **IBM HTTP Server 1.3.26 with Websphere 5.0**

You will be required to provide the following information:

- IBM HTTP server installation directory (for example, /opt/IBMhttpServer)
- Websphere installation directory (for example, /opt/WebSphere)

For **Sun Java System (formerly Sun ONE) 6.1**

You will be required to provide the following information:

- Sun Java System (formerly Sun ONE) installation directory (for example, /disk1/iplanet6.0/servers)

For **Sun Java System (formerly Sun ONE) Application Server 7.0**

You will be required to provide the following information:

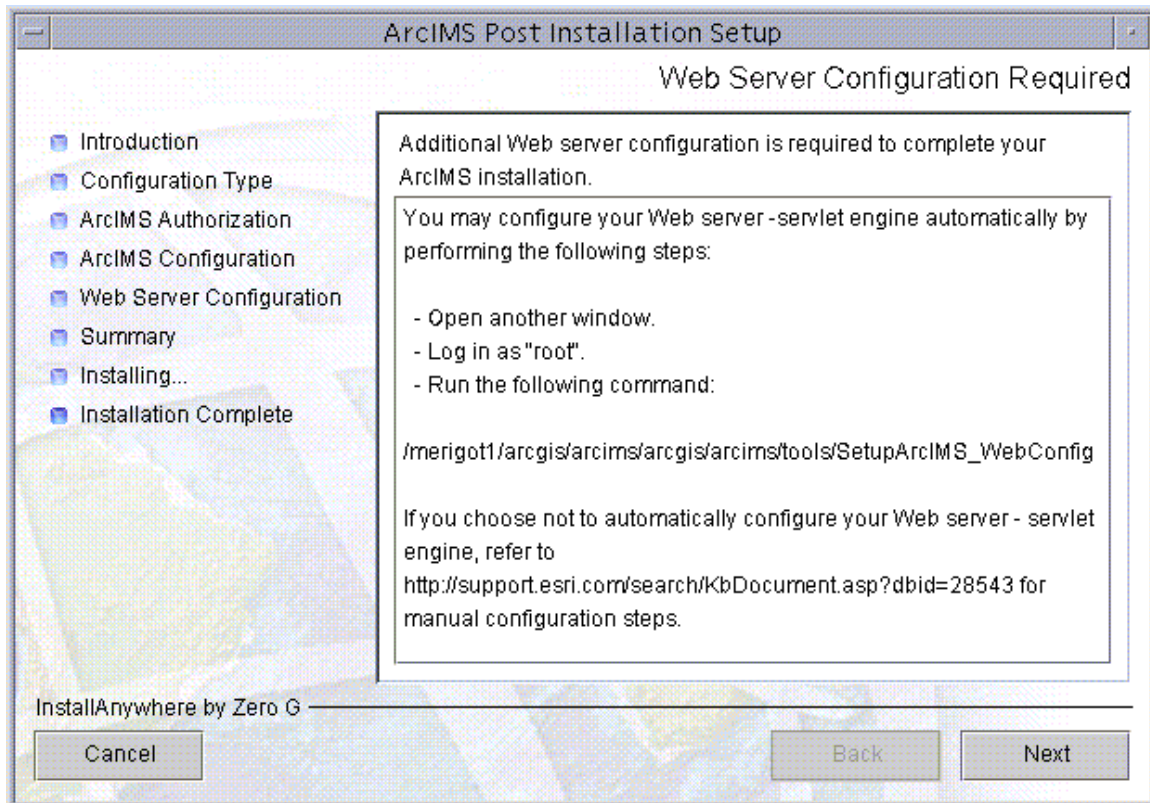
- Sun Java System (formerly Sun ONE) 7.0 installation directory (for example, /disk1/sun-appserver7)
- Sun Java System (formerly Sun ONE) 7.0 server configuration directory (for example, /disk1/sun-appserver7)

For **WebLogic 7.0 sp1/WebLogic 8.1**

You will be required to provide the following information:

- WebLogic installation directory (for example, /disk1/WebLogic70/bea)

- **Run the Web server configuration setup**



To automatically configure your Web server, based on the information provided during the post installation setup, follow these steps:

- open another window
- log on as "root"
- Run the command provided on the Web server configuration screen (for example <ArcIMS installation location>/arcims/tools/SetupArcIMS_WebConfig
- Follow the directions on your screen

If you do not want to automatically configure your Web server for ArcIMS the configuration must be completed manually. To manually configure your Web server for ArcIMS, see [Step 4: Configure your Web server](#).

If you chose to use the ArcIMS Services Administrator, and/or you installed Metadata Explorer, the ArcIMS Web Server Configuration Setup will automatically configure these for use.

NOTE: During the ArcIMS Web Server Configuration Setup, Web services will be stopped and restarted. If you do not want your Web services stopped at this time, exit the setup and run the Web Server Configuration Setup at a later time.

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When the ArcIMS Web server configuration setup is complete, you are provided with directions to use the ArcIMS Diagnostics tool to test your ArcIMS installation.

For manual Web server Servlet Engine configuration see [Step 4: Configure your Web server](#) for the following:

- Apache 2.0.4x with ServletExec 5.0
- Apache 2.0.4x with Tomcat 4.1.xx/5.0.x (mod_jk2)
- IBM HTTP Server 1.3.26 with WebSphere 5.0
- Oracle Application Server 9i (9.0.3)/Oracle Application Server 10g
- Sun Java System (formerly Sun ONE) Web server 6.1 SP 2
- Sun Java System (formerly Sun ONE) Application Server 7.0
- WebLogic 7.0 SP 1/WebLogic 8.1

Step 4: Configure your Web server

You must have a Web server and Servlet Engine installed and operational before they can be configured for ArcIMS. For information on setting up your Web server and Servlet Engine visit

<http://support.esri.com/search/KbDocument.asp?dbid=28543>. For supported Web servers and Servlet Engines, See [Step 1: Verify system requirements](#). After you have installed your Web server and Servlet Engine you must verify that they are communicating with each other. If your Web server and Servlet Engine do not appear to be successfully communicating with each other, see your Servlet Engine's Web site for further information.

Your Web server and Servlet Engine can be configured automatically using the post installation setup, or they can be configured manually.

ServletExec 5.0 AS users

If you are using ServletExec 5.0 AS and you did not install it from the ArcIMS CD, you will need to verify that you are using ServletExec native adapter version 5.0c or greater. See

http://www.newatlanta.com/biz/c/products/servletexec/self_help/faq/detail?faqId=94 for directions on determining the version of the ServletExec AS native adapter you have installed. ArcIMS Supports ServletExec 5.0 (patch level c or greater). If you do not have ServletExec 5.0 (patch level c or greater) installed you can obtain it from the ArcIMS CD or from the [New Atlanta Web site](#).

How to automatically configure your Web server using the post installation setup

To automatically configure your Web server and Servlet Engine use the post installation setup. See the [Web Server-Servlet Engine Configuration](#) option for information on the following automated Web server Servlet Engine configurations:

- Apache 2.0.4x with ServletExec 5.0
- Apache 2.0.4x with Tomcat 4.1.xx/5.0.x (mod_jk2)
- IBM HTTP Server 1.3.26 with WebSphere 5.0
- Oracle Application Server 9i (9.0.3)
- Oracle Application Server 10g
- Sun Java System (formerly Sun ONE) Web server 6.1 SP 2
- Sun Java System (formerly Sun ONE) Application Server 7.0
- WebLogic 7.0 SP 1/WebLogic 8.1

If you have Metadata Explorer installed, and/or are using ArcIMS Service Administrator, the post installation setup will also configure your Web server to work with these applications.

How to manually configure your Web server

If you did not use the post installation to configure your Web server, you must do so manually. To manually configure your Web server and Servlet Engine for ArcIMS use these steps:

- [Apache 2.0.4x with ServletExec 5.0](#)
- [Apache 2.0.4x with Tomcat 4.1.xx/5.0.x \(mod_jk2\)](#)
- [IBM HTTP Server 1.3.26 with WebSphere 5.0](#)
- [Oracle Application Server 9.0.3/10g](#)
- [Sun Java System \(formerly Sun ONE\) Web server 6.1 SP 2](#)
- [Sun Java System \(formerly Sun ONE\) Application Server 7.0](#)
- [WebLogic 7.0 SP 1/WebLogic 8.1](#)

If you manually configured your Web server and Servlet Engine, and you will be using Metadata Explorer or the ArcIMS Services Administrator, verify your system requirements, install the features required, then configure your Web server for use with these features using the steps below:

[Configuring your Web server for ArcIMS Metadata Explorer](#)

[Configuring your Web server for ArcIMS Service Administrator](#)

How to use the Diagnostics tool to test your ArcIMS installation

After Configuring your Web server and Servlet engine, follow these steps to use the ArcIMS Diagnostics tool to test your ArcIMS installation:

1. Open `<ArcIMS Installation Directory>/arcims/Xenv/ArcIMS_Diagnostics/ArcIMS_Diagnostics.html` in web browser. The ArcIMS Diagnostics tool displays.
2. Select your Web server protocol, type your Web server name including domain, and type your port number. The default is 80.
3. Click 1 to test the ArcIMS Servlet Connector.
4. Click 2 to test the ArcIMS Application Server.

Step 4: Configure your Web server

If these tests are successful, your ArcIMS Application Server and ArcIMS Servlet Connector are configured correctly.

If you receive an error message, select the error number in the dropdown list and click View. The error number and a description display. Follow the instructions in the description to fix the problem and try the Diagnostics tool again.

Configuring ServletExec for Apache

After installing ArcIMS, you must configure your Web server for ArcIMS. If your Web server and servlet engine are not operational, contact your system administrator before you proceed. See www.newatlanta.com for information on problems with ServletExec.

1. Stop Apache and Servlet Exec.
2. Copy the following from <ArcIMS Installation Directory>/arcims/Middleware/servlet_connector to <ServletExec Installation Directory>/NewAtlanta/ServletExecAS/se-<instance-name>/Servlets:
 - com directory
 - Eormap_prop
 - ServletConnector_Res.properties
 - ServletConnector_Res_en_US.properties
3. Open the Eormap_prop file in a text editor.
4. Change the value of appServerMachine to the name of your Application Server computer. For example:
`appServerMachine=<server name>.esri.com`
5. Save and close the file.

Creating virtual directories

6. After installing ArcIMS, you must create virtual directories for output and website. A virtual directory is a mapped location on the web server to a physical path.
7. Open the file <Apache Installation Directory>/conf/httpd.conf.
8. In the Alias section, add the following for web site and server output:

```
Alias /output "/<Path to output directory>/output"  
<Directory "/<Path to output directory>/output">  
Options Indexes MultiViews  
AllowOverride None  
Order allow,deny  
Allow from all  
</Directory>  
Alias /website "/<Path to website directory>/website"  
<Directory "/<Path to website directory>/website">  
Options Indexes MultiViews  
AllowOverride None  
Order allow,deny  
Allow from all  
</Directory>
```
9. For the web pages designed in ArcIMS to start automatically, make sure your DirectoryIndex line includes default.htm. For example:
`DirectoryIndex index.html default.htm`
10. Save and close the file.

Using the Diagnostics tool to test your ArcIMS installation

11. Start the Apache and ServletExec services.
12. Open <ArcIMS Installation Directory>/arcims/Xenv/ArcIMS_Diagnostics/ArcIMS_Diagnostics.html in Netscape. The ArcIMS Diagnostics tool displays.
13. Select your Web server protocol, type your Web server name including domain, and type your port number. The default is 80.
14. Click 1 to test the ArcIMS Servlet Connector.
If this test is successful, your ArcIMS Servlet Connector is configured correctly. If you receive an error message, select the error number in the dropdown list and click View. The error number and a description display. Follow the instructions in the description to fix the problem and try the Diagnostics tool again.

See [Configuring ServletExec for Service Administrator](#) for information on configuring ArcIMS Service Administrator.

See [Configuring ServletExec for Metadata Explorer](#) for information on configuring Metadata Explorer.

See [Step 5: Configure ArcIMS](#) for the final step required to get ArcIMS running.

Configuring Apache 2.0.4x with Tomcat 4.1.xx/5.0.x (mod_jk2) for ArcIMS

After installing ArcIMS on your system, you must configure the Apache Web Server and Tomcat for ArcIMS. These following steps assume Apache and Tomcat are running successfully. If your Web server and servlet engine are not operational, contact your system administrator before you proceed. See www.apache.org for information on problems with Apache and Tomcat.

Follow these steps to configure Apache 2.0.4x with Tomcat 4.1.xx/5.0.x (mod_jk2):

1. Make sure that tomcat and apache are not running.

2. Copy the arcimsservletconnector.war file from <ArcIMS Installation Directory>/arcims/ Middleware/servlet_connector/arcimsservletconnector.war to \$CATALINA_HOME/webapps directory.

Note: where \$CATALINA_HOME is the Tomcat installation directory.

3. Start and Stop the Tomcat and Apache services.

4. Under \$CATALINA_HOME/webapps directory, rename arcimsservletconnector directory to servlet.

```
cd $CATALINA_HOME/webapps
mv arcimsservletconnector servlet
```

5. Open the Esrimap_prop file located in \$CATALINA_HOME/webapps/servlet/WEB-INF/classes directory in a text editor. You will need to change the properties of the Esrimap_prop file so that this file is writable, if it is not already. For example: `chmod +w esrimap_prop`

6. Change the value of appServerMachine to the name of your Application Server computer. For example:

```
appServerMachine=<server name>.esri.com.
```

7. Save and close the file.

8. Edit the workers2.properties file located in \$APACHE_HOME/conf directory to include the following lines:

```
[uri:/servlet/*]
```

```
info=ArcIMS servlet connector
```

Creating virtual directories

After installing ArcIMS, you must create virtual directories for output and Website. A virtual directory is a mapped location on the Web server to a physical path.

9. Open the file <Apache Installation Directory>/conf/httpd.conf.

10. In the Alias section, add the following for Web site and server output:

```
Alias /output "/<Path to output directory>/output"
```

```
<Directory "/<Path to output directory>/output">
```

```
    Options Indexes MultiViews
```

```
    AllowOverride None
```

```
    Order allow,deny
```

```
    Allow from all
```

```
</Directory>
```

```
Alias /website "/<Path to Website directory>/website"
```

```
<Directory "/<Path to Website directory>/website">
```

```
    Options Indexes MultiViews
```

```
    AllowOverride None
```

```
    Order allow,deny
```

```
    Allow from all
```

```
</Directory>
```

11. For the Web pages designed in ArcIMS to start automatically, make sure your DirectoryIndex line includes default.htm. For example:

```
DirectoryIndex index.html default.htm
```

12. Save and close the file.

13. Start the Tomcat and Apache services by typing:

```
setenv JAVA_HOME <J2SE SDK Installation Directory>
```

```
setenv PATH $JAVA_HOME/bin:$PATH
```

```
<Tomcat Installation Directory>/bin/startup.sh
```

```
<Apache Installation Directory>/bin/apachectl start
```

Using the Diagnostics tool to test your ArcIMS installation

14. Verify that your ArcIMS installation was successful.
 - a. Open <ArcIMS Installation Directory>/arcims/Xenv/ArcIMS_Diagnostics/ArcIMS_Diagnostics.html in Netscape. The ArcIMS Diagnostics tool displays.
 - b. Select your Web server protocol, type your Web server name including domain, and type your port number. The default is 80.
 - c. Click 1 to test the ArcIMS Servlet Connector.

If this test is successful, your ArcIMS Servlet Connector is configured correctly.

If you receive an error message, select the error number in the dropdown list and click View. The error number and a description display. Follow the instructions in the description to fix the problem and try the Diagnostics tool again.

See [Configuring Apache 2.0.4x with Tomcat 4.1.xx/5.0.x \(mod_jk2\) for ArcIMS Service Administrator](#) for information on configuring ArcIMS Service Administrator.

See [Configuring Apache 2.0.4x with Tomcat 4.1.xx/5.0.x \(mod_jk2\) for Metadata Explorer](#) for information on configuring Metadata Explorer.

See [Step 5: Configure ArcIMS](#) for instructions on running ArcIMS.

Configuring IBM HTTP Server 1.3.26 with Websphere 5.0 for ArcIMS

After installing ArcIMS, you must configure your Web server for ArcIMS. If your Web server is not operational, contact your system administrator before you proceed. Follow these steps to configure IBM HTTP Server 1.3.26 with Websphere 5.0:

1. `cd /opt/IBMHttpServer/conf` and edit the `httpd.conf` file.

2. Scroll down to `ServerName` and make sure it reads:

```
<hostname>.esri.com (ie: pebblebeach.esri.com)
```

3. Scroll down to the `Alias` section and add:

```
Alias /output <path to output dir>
Alias /website <path to website dir>
<Directory "path to website dir">
Options Indexes MultiViews
AllowOverride None
Order allow,deny
Allow from all
</Directory>
```

4. Scroll down to the `DirectoryIndex` section and add `default.htm` to this line.

```
DirectoryIndex index.html default.htm
```

5. Stop and Start IBM Http Server.

```
cd /opt/IBMHttpServer/bin
```

```
As root, ./apachectl stop
```

```
As root, ./apachectl start
```

6. In a text editor, open `/opt/WebSphere/AppServer/config/cells/plugin-cfg.xml`.

7. Scroll down to the section `<UriGroup Name="server1_Cluster_URIs">`

Inside this block add the following:

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```
<Uri Name="/servlet/*"/>
```

Save and Exit

8. Open the Websphere admin console in a browser: <http://localhost:9090/admin>

9. At the login page, type your username and click OK.

10. In the left panel, expand the Applications directory.

11. In the left panel, click on Install New Application.

12. In the right panel under local path, browse to `arcimsservletconnector.war` file located at: `/<ArcIMS install location>/arcims/Middleware/servlet_connector`

13. Under Context Root, type `/servlet/*` and click Next.

14. At the Generate Default Bindings screen, just click Next.

15. At the AppDeployment Options screen, just click Next.

16. At the Map Virtual Hosts for Web Modules screen, check the box next to `arcimsservletconnector.war` and click Next.

17. At the Map Modules to Application Servers screen, check the box next to `arcimsservletconnector.war` and click Next.

18. At the Summary screen, click Finish.

19. At the Installing screen, click on Save to Master Configuration link.

20. At the Save to Master Configuration screen, click Save.

21. In the left panel, click on Enterprise Applications.

22. In the right panel, check the box next to arcimsservletconnector.war and click Start.

23. Stop and Start Websphere.

- a. cd /opt/WebSphere/AppServer/bin
- b. As root, ./firststeps.sh
- c. Click on Start, Stop Server.

Using the Diagnostics tool to test your ArcIMS installation.

24. Verify your ArcIMS installation was successful.

- a. Open <ArcIMS Installation Directory>/arcims/Xenv/ArcIMS_Diagnostics/ArcIMS_Diagnostics.html in Netscape. The ArcIMS Diagnostics tool displays.
- b. Select your Web server protocol. Type your Web server name including domain, and type your port number. The default is 80.
- c. Click 1 to test the ArcIMS Servlet Connector.

If this test is successful, your ArcIMS Servlet Connector is configured correctly.

If you receive an error message, select the error number in the dropdown list and click view. The error number and a description display. Follow the instructions in the description to fix the problem and try the Diagnostics tool again.

See [Configuring IBM HTTP Server 1.3.26 with Websphere 5.0 for Service Administrator](#) for information on configuring ArcIMS Service Administrator.

See [Configuring IBM HTTP Servr 1.3.26 with Websphere 5.0 for Metadata Explorer](#) for information on configuring ArcIMS Metadata Explorer.

See [Step 5: Configure ArcIMS](#) for the final step required to get ArcIMS running.

Configuring Oracle Application Server 9.0.3/10g for ArcIMS

After installing ArcIMS, you must configure your Web server for ArcIMS. If your Web server and servlet engine are not operational, contact your system administrator before you proceed. See www.oracle.com for information on problems with Oracle Application Server (OAS).

Follow the steps below to configure your Oracle Application Server for ArcIMS:

1. Open the Oracle Enterprise Manager in your Web browser (<http://mymachine.esri.com:1810>).
2. For OAS 9.0.3, click the OC4J_home link from the list of System Components.
For OAS 10g, click the home link from the list of System Components.
3. For OAS 9.0.3, on the OC4J_home page click the Deploy War file link under the Applications section to open the Deploy Web Application page.
For OAS 10g, on the home page click the Deploy War file link under the Applications section to open the Deploy Web Application page.
4. For Web Application, click Browse and navigate to <ArcIMS Installation Directory>/arcims/Middleware/servlet_connector/arcimsservletconnector.war.
5. For Application Name type servlet.
6. For Map to URL type /servlet.
7. Click Deploy to deploy the arcimsservletconnector.war file. The ArcIMS servlet connector is installed in the <Oracle Application Server Installation Directory>/j2ee/home/applications directory.
8. Click OK when the Confirmation is displayed.
9. Navigate to the <Oracle Application Server Installation Directory>/j2ee/home/applications/servlet/servlet/WEB-INF/classes directory.

Step 4: Configure your Web server

10. Open the Esrimap_prop file in a text editor. You will need to change the properties of the Esrimap_prop file so that this file is writable, if it is not already. For example: `chmod +w esrimap_prop`

11. Change the value of appServerMachine to the name of your Application Server computer. For example:

```
appServerMachine=<server name>.esri.com
```

12. Save and close the file.

13. Click the HTTP Server link from the list of System Components.

14. Under the Administration section click the Advanced Server Properties link.

15. In the Advanced Server Properties page, click the httpd.conf link under Configuration Files to edit the httpd.conf file.

Tip

- If you do not see the contents of the httpd.conf file in the text edit window that is displayed in your browser, do not edit the httpd.conf file. You should manually edit the httpd.conf file in the <Oracle Application Server Installation Directory>/Apache/Apache/conf directory in a text editor. Before manually editing the httpd.conf file, stop Oracle Application Server (OC4J_home and HTTPServer) and the Oracle Enterprise Manager. Once your edits are completed, restart Oracle Application Server and the Oracle Enterprise Manager.

16. In the Alias section, add the following for Web site and server output:

```
Alias /output/ "<Path to output directory>/output/"
<Directory "<Path to output directory>/output/">
    Options Indexes MultiViews
    AllowOverride None
    Order allow,deny
    Allow from all
</Directory>
Alias /website/ "<Path to website directory>/website/"
```

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```
<Directory "<Path to website directory>/website/">  
    Options Indexes MultiViews  
    AllowOverride None  
    Order allow,deny  
    Allow from all  
</Directory>
```

17. For the Web pages designed in ArcIMS to start automatically, make sure your DirectoryIndex line includes default.htm. For example:

```
DirectoryIndex index.html default.htm
```

18. Click Apply to save changes.

19. Click Yes to restart the HTTP server.

20. To provide your Web users with the ArcIMS files that are necessary to view your Java Web pages, you need to copy the /install directory from the ArcIMS installation directory to your website directory. For example:

```
cp -r <ArcIMS Installation Directory>/arcims/ViewerDownload/install  
<Path to website directory>
```

Using the Diagnostics tool to test your ArcIMS installation

21. Verify your ArcIMS installation was successful.

- a. Open <ArcIMS Installation Directory>/arcims/Xenv/ArcIMS_Diagnostics/ArcIMS_Diagnostics.html in Netscape. The ArcIMS Diagnostics tool displays.
- b. Select your Web server protocol, type your Web server name including domain, and type your port number. The default is 80.
- c. Click 1 to test the ArcIMS Servlet Connector.

If this test is successful, your ArcIMS Servlet Connector is configured correctly.

If you receive an error message, select the error number in the dropdown list and click View. The error number and a description display. Follow the instructions in the description to fix the problem and try the Diagnostics tool again.

Step 4: Configure your Web server

See [Configuring Oracle Application Server 9.0.3/10g for Service Administrator](#) for information on configuring ArcIMS Service Administrator.

See [Configuring Oracle Application Server 9.0.3/10g for Metadata Explorer](#) for information on configuring Metadata Explorer.

See [Step 5: Configure ArcIMS](#) for instructions on running ArcIMS.

Configuring Sun Java System (formerly Sun ONE) 6.1 SP 2 for ArcIMS

After installing ArcIMS, you must configure your Web server for ArcIMS. If your Web server is not operational, contact your system administrator before you proceed. See www.sun.com/software for information on problems with Sun Java System (formerly Sun ONE) 6.1 SP2. Follow these steps to configure Sun Java System (formerly Sun ONE) 6.1 SP 2 with ArcIMS:

1. In your Web browser, type:

```
http://<localhost.domain.com>:<serveradminport>
```

For example: `http://arcims.esri.com:10000`

Tip

- If you don't know your server's administration port, open <Sun Java System Installation Directory>/servers/https-admserv/config/admin.conf in a text editor and read the `http://<localhost.domain.com>:<serveradminport>` there.

2. Type your user name and password and click OK.

3. Click Manage.

4. Click on the Virtual Server Class tab.

5. Next to Select a Class, click Manage.

6. Next to Select a Virtual Server, click Manage.

7. Click on the Web Applications tab.

8. Browse to the `arcimsservletconnector.war` file located at <ArcIMS Installation Directory>/arcims/Middleware/servlet_connector

9. For the Application Uri, type `servlet`

10. Click OK.
11. In the top right hand corner, click Apply.
12. Click Apply changes.
13. Open the Esrimap_prop file in a text editor. Esrimap_prop is located at <Sun Java System Installation location>/https-<machinename>/webapps/servlet/WEB-INF/classes

You will need to change the properties of the Esrimap_prop file so that this file is writable, if it is not already. For example: `chmod +w esrimap_prop`

14. In Esrimap_prop, replace APPSMACHINE with you machine's hostname, if it is not already there.
15. Stop and Start the Sun Java System Web Server:
`<Sun Java System Installation Directory>/https-<machine>.<domain>/restart`
`<Sun Java System Installation Directory>/https-admserv restart`

Using the Diagnostics tool to test your ArcIMS installation

16. Verify your ArcIMS installation was successful.
 - a. Open <ArcIMS Installation Directory>/Xenv/ArcIMS_Diagnostics/ArcIMS_Diagnostics.html in Netscape. The ArcIMS Diagnostics tool displays.
 - b. Select your Web server protocol, type your web server name including domain, and type your port number. The default is 80.
 - c. Click 1 to test the ArcIMS Servlet Connector.

If this test is successful, your ArcIMS Servlet Connector is configured correctly.

If you receive an error message, select the error number in the dropdown list and click View. The error number and a description are displayed. Follow the instructions in the description to fix the problem and try the Diagnostics tool again.

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See [Configuring Sun Java System \(formerly Sun ONE\) 6.1 SP2 for ArcIMS Service Administrator](#) for information on configuring ArcIMS Service Administrator.

See [Configuring Sun Java System \(formerly Sun ONE\) 6.1 SP2 for Metadata Explorer](#) for information on configuring Metadata Explorer.

See [Step 5: Configuring ArcIMS](#) for instructions on running ArcIMS.

Configuring Sun Java System (formerly Sun ONE) Application Server 7.0

After installing ArcIMS, you must configure your Web server for ArcIMS. If your Web server is not operational, contact your system administrator before you proceed. See www.sun.com/software for information on problems with Sun Java System (formerly Sun ONE) 7.0. Follow these steps to configure Sun Java System (formerly Sun ONE) 7.0 for ArcIMS:

1. cd to /<Sun Java System (formerly Sun ONE) install directory>/domains/domain1/admin-server/bin and run ./startserv
2. Open netscape and open the admin console (ie: http://<servername>:10000).
3. Type in the admin username and password.
4. In the left panel, expand Applications and click on Web Apps.
5. In the right panel, click on Deploy.
6. Browse to the arcimsservletconnector.war file located at: <ArcIMS Installation Directory>/arcims/Middleware/servlet_connector and click OK.
7. For the context Root type: servlet
8. Click OK.
9. In another terminal, as root, browse to: /<Sun Java System Installation Directory>/domains/domain1/server1/applications/j2ee-modules/arcimsservletconnector_1/WEB-INF/classes
10. Edit the Esrimap_prop file. You will need to change the properties of the Esrimap_prop file so that this file is writable, if it is not already. For example: `chmod +w esrimap_prop`
11. Replace APPSMACHINE with your machine name.

12. Next, browse to /<Sun Java System Installation Directory>/domains/domain1/server1/config and open the server.policy for editing.

13. Add the following right above this line: //Following grant block is only required by Connectors.

```
grant codeBase "file:/<Sun Java System (formerly Sun ONE)
HOME>/domains/domain1/server1/applications/j2ee-
modules/arcimsservletconnector_1/WEB-INF/classes/-"
{
  permission java.util.PropertyPermission "*", "read,write";
};
```

14. Save and close.

15. Go back into the Sun Java System (formerly Sun ONE) Admin console and in the left panel, expand HTTP Server/Virtual Servers and click on server1.

16. In the right panel, click on Doc Handling Tab, then click on Doc Preferences right under it.

17. Add default.htm, default.html, index.htm

18. Click OK.

19. In the right panel, click on Doc Directories and add a directory for website and output.

20. Restart the server.

21. Start ArcIMS.

Using the Diagnostics tool to test your ArcIMS installation

22. Verify your ArcIMS installation was successful.

a. Open <ArcIMS Installation Directory>/arcims/Xenv/ArcIMS_Diagnostics/ArcIMS_Diagnostics.html in Netscape. The ArcIMS Diagnostics tool displays.

Step 4: Configure your Web server

- b. Select your Web server protocol, type your Web server name including domain, and type your port number. The default is 80.
- c. Click 1 to test the ArcIMS Servlet Connector.

If this test is successful, your ArcIMS Servlet Connector is configured correctly.

If you receive an error message, select the error number in the dropdown list and click View. The error number and a description display. Follow the instructions in the description to fix the problem and try the Diagnostics tool again.

See [Configuring Sun Java System \(formerly Sun ONE\) Application Server 7.0 for Service Administrator](#) for information on configuring ArcIMS Service Administrator.

See [Configuring Sun Java System \(formerly Sun ONE\) Application Server 7.0 for Metadata Explorer](#) for information on configuring Metadata Explorer.

See [Step 5: Configure ArcIMS](#) for instructions on running ArcIMS.

Configuring WebLogic 7.0/8.1 for ArcIMS

After installing ArcIMS, you must configure your Web server for ArcIMS. If your Web server is not operational, contact your system administrator before you proceed. See www.bea.com for information on problems with WebLogic.

1. Copy the following items from <ArcIMS Installation Directory>/arcims/Middleware/servlet_connector to <WebLogic Installation Directory>/user_projects/<Domain Name>/applications/DefaultWebApp/WEB-INF/classes:

- com directory
- Esrimap_prop
- ServletConnector_Res.properties
- ServletConnector_Res_en_US.properties

Note: You may need to create a classes directory.

2. Open the Esrimap_prop file in a text editor. You will need to change the properties of the Esrimap_prop file so that this file is writable, if it is not already. For example:
chmod +w esrimap_prop

3. Change the value of appServerMachine to the name of your Application Server computer. For example:

```
appServerMachine=<server name>.esri.com
```

4. Save and close the file.

5. In a text editor, open the <WebLogic Installation Directory>/user_projects/<Domain Name>/applications/DefaultWebApp/WEB-INF/web.xml file.

6. Find the line <web-app> and add the following under it:

```
<servlet>
<servlet-name>Esrimap</servlet-name>
<servlet-class>com.esri.esrimap.Esrimap</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>Esrimap</servlet-name>
```

Step 4: Configure your Web server

```
<url-pattern>/servlet/com.esri.esrimap.Esrimap/*</url-pattern>  
</servlet-mapping>  
<welcome-file-list>  
<welcome-file>default.htm</welcome-file>  
</welcome-file-list>
```

7. Save and close the file.

8. Create a directory for ArcIMS image output:

```
mkdir <WebLogic Installation Directory>/user_projects/<Domain  
Name>/applications/DefaultWebApp/output
```

Note: Make sure you have write permission to this directory.

9. Create a directory for ArcIMS Web site files:

```
mkdir <WebLogic Installation Directory>/user_projects/<Domain  
Name>/applications/DefaultWebApp/website
```

Note: Make sure you have write permission to this directory.

10. Restart the WebLogic Server.

11. In the WebLogic console, on the left sidebar, click Web Applications.

12. Click DefaultWebApp.

13. On the right panel, under the Files tab, check the box to enable Index Directories and click Apply.

14. Close the console.

Making ArcIMS files available to Web users

15. To provide your Web users with the ArcIMS files that are necessary to view your Java Web pages, you need to do the following:

```
cp -r <ArcIMS Installation Directory>/arcims/ViewerDownLoad/install  
<Path to Website directory>
```

For more information, see [Installing ArcIMS Viewer](#).

Using the Diagnostics tool to test your ArcIMS installation

16. Verify that your ArcIMS installation was successful.
 - a. Open <ArcIMS Installation Directory>/arcims/Xenv/ArcIMS_Diagnostics/ArcIMS_Diagnostics.html in Netscape. The ArcIMS Diagnostics tool displays.
 - b. Select your Web server protocol, type your Web server name including domain, and type your port number. The default is 80.
 - c. Click 1 to test the ArcIMS Servlet Connector.

If this test is successful, your ArcIMS Servlet Connector is configured correctly.

If you receive an error message, select the error number in the dropdown list and click View. The error number and a description display. Follow the instructions in the description to fix the problem and try the Diagnostics tool again.

See [Configuring WebLogic 7.0/8.1 for ArcIMS Service Administrator](#) for information on configuring ArcIMS Service Administrator.

See [Configuring WebLogic 7.0/8.1 for Metadata Explorer](#) for information on configuring Metadata Explorer.

See [Step 5: Configure ArcIMS](#) for instructions on running ArcIMS.

Configuring your Web server for ArcIMS Metadata Explorer

If you did not configure your Web server Servlet Engine using the post installation setup and you wish to use ArcIMS Metadata Explorer, you must configure your Web server:

- [Apache 2.0.4x with ServletExec 5.0](#)
- [Apache 2.0.4x with Tomcat 4.1.xx/5.0.x \(mod_jk2\)](#)
- [Sun Java System \(formerly Sun ONE\) Web server 6.1 SP 2](#)
- [Sun Java System \(formerly Sun ONE\) Application Server 7.0](#)
- [IBM HTTP Server 1.3.26 with WebSphere 5.0](#)
- [WebLogic 7.0/8.1](#)
- [Oracle Application Server 9.0.3/10g](#)

To configure your Web server Servlet Engine using the post installation setup, select the Web server Servlet Engine configuration option in the post installation setup and see [Web Server - Servlet Engine Configuration](#) for more information.

Configuring ServletExec for Apache for Metadata Explorer

If you wish to use Metadata Explorer, you must configure your Web server:

1. Locate the file `metadataexplorer.war` in the `<ArcIMS installation directory>/arcims/Metadata` directory. This is the war file you will deploy.

2. Start the Apache and ServletExec services.

3. In your web browser, to open ServletExec admin type:

`http://<localhost>/servlet/admin` for ServletExec 4.2

`http://<localhost>/servletexec/admin` for ServletExec 5.0

4. In the left sidebar under Web Applications, click manage.

5. Click Add Web Application.

6. For Application Name, type: `metadataexplorer`

7. For URL Context Path, type: `/metadataexplorer`

This is the name you will use to run Metadata Explorer.

Note: The context path you specify is case sensitive. You might want to create more than one Web Application with path names like `MetadataExplorer` or `METADATAEXPLORER` pointing to the ArcIMS Metadata Explorer.

8. For Location, type: `<ArcIMS Installation Directory>/arcims/Metadata/metadataexplorer`

9. Click Submit and close ServletExec Admin.

10. Open the file `<Apache Installation Directory>/conf/httpd.conf`.

11. Add the following to the bottom of the `httpd.conf`

```
AddHandler servlet-exec jsp
ServletExecApplications <localhost> /metadataexplorer
<Location /metadataexplorer>
```

Step 4: Configure your Web server

```
SetHandler servlet-exec  
</Location>
```

12. Stop and Start Apache web server and ServletExec and close the Services window.

See *Creating and Using Metadata Services* for information on Metadata Explorer.

See [Configuring ServletExec for Service Administrator](#) for information on configuring Service Administrator.

See [Step 5: Configuring ArcIMS](#) for the final step required to get ArcIMS running.

Configuring Apache 2.0.4x with Tomcat 4.1.xx/5.0.x (mod_jk2) for Metadata Explorer

If you wish to use Metadata Explorer, you must configure your Web server. Follow these steps to configure Apache 2.0.4x with Tomcat 4.1.xx/5.0.x (mod_jk2) for Metadata Explorer:

1. Locate the file `metadataexplorer.war` in the <ArcIMS Installation Directory>/arcims/Metadata directory.
2. Copy `metadataexplorer.war` to <Tomcat installation directory>/webapps.
3. Stop the Tomcat and Apache services.

4. Start the Tomcat and Apache services by typing:

```
setenv JAVA_HOME <J2SE SDK Installation Directory>
setenv PATH $JAVA_HOME/bin:$PATH
<Tomcat Installation Directory>/bin/startup.sh
<Apache Installation Directory>/bin/apachectl start
```

See *Creating and Using Metadata Services* for information on Metadata Explorer.

See [Configuring Apache 2.0.4x with Tomcat 4.1.xx/5.0.x \(mod_jk2\) for ArcIMS Service Administrator](#) for information on configuring ArcIMS Service Administrator.

See [Step 5: Configuring ArcIMS](#) for the final step required to get ArcIMS running.

Configuring Sun Java System (formerly Sun ONE) 6.1 SP2 for Metadata Explorer

If you wish to use Metadata Explorer, you must configure your Web server. Follow these steps to configure Sun Java System (formerly Sun ONE) 6.1 SP 2 for Metadata Explorer:

Note: Skip to Step 8 if you already configured your J2SE JRE/J2SE JDK paths for ArcIMS Service Administrator.

1. Locate the metadataexplorer.war file in the <ArcIMS installation directory>/arcims/Metadata directory.

2. In your Web browser, type:

`http://<localhost.domain.com>:<serveradminport>`

For example: `http://arcims.esri.com:10000`

Tip

- If you don't know your server's administration port, open <Sun Java System Installation Directory>/servers/https-admserv/config/admin.conf in a text editor and read the `http://<localhost.domain.com>:<serveradminport>` there.

3. Type your user name and password and click OK.

4. Click Manage.

5. Click on the Virtual Server Class tab.

6. Next to Select a Class, click Manage.

7. Next to Select a Virtual Server, click Manage.

8. Click on the Web Applications tab.

9. Browse to the metadataexplorer.war file located at <ArcIMS installation directory>/arcims/Metadata

10. For the Application Uri, type /metadatatexplorer

11. Click OK.

12. In the top right hand corner, click Apply.

12. Click Apply changes.

13. Stop and Start the Sun Java System Web Server:

<Sun Java System Installation Directory>/https-<machine>.<domain>/restart

<Sun Java System Installation Directory>/https-admserv restart

See *Creating and Using Metadata Services* for information on Metadata Explorer.

See [Configuring Sun Java System \(formerly Sun ONE\)6.1 SP 2 for ArcIMS Service Administrator](#) for information on configuring ArcIMS Service Administrator.

See [Step 5: Configuring ArcIMS](#) for the final step required to get ArcIMS running.

Configuring Sun Java System (formerly Sun ONE) Application Server 7.0 for Metadata Explorer

If you wish to use ArcIMS Metadata Explorer, you must configure your Web server. Follow these steps to configure Sun Java System (formerly Sun ONE) Application Server 7.0 for Metadata Explorer:

1. Locate the metadataexplorer.war file in the <ArcIMS installation directory>/arcims/Metadata directory.

2. In your Web browser, type:

`http://<localhost.domain.com>:<serveradminport>`

For example: `http://arcims.esri.com:10000`

Tip

- If you don't know your server's administration port, open <Sun Java System Installation Directory>/servers/https-admserver/config/admin.conf in a text editor and read the `http://<localhost.domain.com>:<serveradminport>` there.

3. Type your user name and password and click OK.

4. In the left panel, expand Applications and click on Web Apps.

5. In the right panel, click on Deploy.

6. Browse to the metadataexplorer.war file located at: <ArcIMS installation directory>/arcims/Metadata and click OK.

7. Leave the Context Root at the default setting and click OK.

8. In another terminal, as root, browse to /<SunONE_HOME>/domains/domain1/server1/config and open the server.policy file for editing.

9. Add the following right above this line: //Following grant block is only required by Connectors.

```
grant codeBase "file:/<Sun Java System (formerly Sun ONE)
HOME>/domains/domain1/server1/applications/j2ee-
modules/metadataexplorer_1/WEB-INF/classes/-"
{
  permission java.util.PropertyPermission "*", "read,write";
};
```

10. Save and close.

11. Restart the server.

See *Creating and Using Metadata Services* for information on Metadata Explorer.

See [Configuring Sun Java System \(formerly Sun ONE\) Application Server 7.0 for Service Administrator](#) for information on configuring ArcIMS Service Administrator.

See [Step 5: Configuring ArcIMS](#) for the final step required to get ArcIMS running.

For information about applying templates to topics, press **F1**.

Configuring IBM HTTP Server 1.3.26 with Websphere 5.0 for Metadata Explorer

If you wish to use Metadata Explorer, you must configure your Web server. Follow these steps to configure IBM HTTP Server 1.3.26 with Websphere 5.0 for Metadata Explorer:

1. Locate the file `metadataexplorer.war` located in the `<ArcIMS installation directory>/arcims/Metadata` directory.
2. In a text editor, open `/opt/WebSphere/AppServer/config/cells/plugin-cfg.xml`.
3. Scroll down to the section `<UriGroup Name="server1_Cluster_URIs">`
Inside this block add the following
`<Uri Name="/metadataexplorer/*"/>`
Save and Exit
4. Open the Websphere admin console in a browser: `http://localhost:9090/admin`
5. At the login page, type your username and click OK.
6. In the left panel, expand the Applications directory.
7. In the left panel, click on Install New Application.
8. In the right panel under local path, browse to `metadataexplorer.war` file located at: `<ArcIMS installation location>/arcims/Metadata`
9. Under Context Root, type `/metadataexplorer` and click Next.
10. At the Generate Default Bindings screen, click Next.
11. At the AppDeployment Options screen, click Next.

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12. At the Map Virtual Hosts for Web Modules screen, check the box next to metadataexplorer.war and click Next.
13. At the Map Modules to Application Servers screen, check the box next to metadataexplorer.war and click Next.
14. At the Summary screen, click Finish.
15. At the Installing screen, click on Save to Master Configuration link.
16. At the Save to Master Configuration screen, click Save.
17. In the left panel, click on Enterprise Applications.
18. In the right panel, check the box next to metadataexplorer.war and click Start.
19. Stop and Start Websphere.
 - a. `cd /opt/WebSphere/AppServer/bin`
 - b. As root, `./firststeps.sh`
 - c. Click on Start, Stop Server.

See *Creating and Using Metadata Services* for information on Metadata Explorer.

See [Configuring IBM HTTP Server 1.3.26 for Websphere 5.0 for Service Administrator](#) for information on configuring ArcIMS Service Administrator.

See [Step 5: Configuring ArcIMS](#) for the final step required to get ArcIMS running.

Configuring WebLogic 7.0/8.1 for Metadata Explorer

If you wish to use ArcIMS Service Administrator to remotely administer ArcIMS services, you must configure your Web server:

1. Locate the metadataexplorer.war file located in the <ArcIMS installation directory>/arcims/Metadata directory. The war file will be expanded into a metadataexplorer directory located in <ArcIMS Installation Directory>/arcims/Metadata directory.
2. Start WebLogic.
3. In your web browser, type:
`http://<localhost.domain.com>:<serveradminport>/console`, for example,
`http://arcims.esri.com:10000/console`.
4. Type your password.
5. On the left sidebar, expand the <Domain Name>, Deployments and click Web Applications.
6. Click Configure a new Web Application.
7. Browse to the location of the Metadata directory.
8. On the panel for selecting the archive for this Web application module, select the metadataexplorer directory radio button. Do not select the metadataexplorer.war file.
9. Click Target Module.
10. Click Deploy.
11. Copy the aimsmeta.properties file from <ArcIMS Installation Directory>/arcims/Metadata/metadataexplorer/WEF-INF/classes to <WebLogic Installation Directory>/user_projects/<Domain Name> directory, where the startWeblogic script is and modify this properties file where appropriate.

12. Stop and restart Weblogic

See *Creating and Using Metadata Services* for information on Metadata Explorer.

See [Configuring WebLogic 7.0/8.1 for ArcIMS Service Administrator](#) for information on configuring ArcIMS Service Administrator.

See [Step 5: Configuring ArcIMS](#) for the final step required to get ArcIMS running.

Configuring Oracle Application Server 9.0.3/10g for Metadata Explorer

If you wish to use ArcIMS Metadata Explorer with Oracle Application Server 9.0.3 or Oracle Application Server 10g, you must configure your Web server.

Follow the steps below to configure Oracle Application Server 9.0.3 or Oracle Application Server 10g:

1. Locate the file `metadataexplorer.war` located in the <ArcIMS installation directory>/arcims/Metadata directory.
2. Open the Oracle Enterprise Manager in your Web browser (<http://mymachine.esri.com:1810>).
3. For OAS 9.0.3, click the OC4J_home link from the list of System Components.
For OAS 10g, click the home link from the list of System Components.
4. For OAS 9.0.3, on the OC4J_home page click the Deploy War file link under the Applications section to open the Deploy Web Application page.
For OAS 10g, on the home page click the Deploy War file link under the Applications section to open the Deploy Web Application page.
5. For Web Application, click Browse and navigate to <ArcIMS Installation Directory>/arcims/Metadata/metadataexplorer.war.
6. For Application Name type `metadataexplorer`
7. For Map to URL type `/metadataexplorer`
8. Click Deploy to deploy the `metadataexplorer.war` file. The Metadata Explorer is installed in the <Oracle Application Server Installation Directory>/j2ee/home/applications directory.
9. Click OK when the Confirmation is displayed.
10. Exit Oracle Enterprise Manager.

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See *Creating and Using Metadata Services* for information on Metadata Explorer.

See [Configuring Oracle Application Server 9.0.3/10g for Service Administrator](#) for information on configuring ArcIMS Service Administrator.

See [Step 5: Configuring ArcIMS](#) for the final step required to get ArcIMS running.

Configuring your Web server for ArcIMS Service Administrator

If you did not configure your Web server Servlet Engine using the post installation setup and you wish to use ArcIMS Service Administrator to remotely administer ArcIMS services, you must configure your Web server:

- [Apache 2.0.4x with ServletExec 5.0](#)
- [Apache 2.0.4x with Tomcat 4.1.xx/5.0.x \(mod_jk2\)](#)
- [Sun Java System \(formerly Sun ONE\) Web server 6.1 SP 2](#)
- [Sun Java System \(formerly Sun ONE\) Application Server 7.0](#)
- [IBM HTTP Server 1.3.26 with WebSphere 5.0](#)
- [WebLogic 7.0/8.1](#)
- [Oracle Application Server 9.0.3/10g](#)

To configure your Web server Servlet Engine using the post installation setup, select the Web server Servlet Engine configuration option in the post installation setup and see [Web Server - Servlet Engine Configuration](#) for more information.

Configuring ServletExec for Apache for ArcIMS Service Administrator

If you wish to use ArcIMS Service Administrator to remotely administer ArcIMS services, you must configure your Web server:

If you wish to use Service Administrator, you must configure your Web server:

1. Locate the file `esriadmin.war` in the `<ArcIMS installation directory>/arcims/Administrator` directory. This is the war file you will deploy.

2. Start the Apache and ServletExec services.

3. In your web browser, to open ServletExec admin type:

`http://<localhost>/servletexec/admin` for ServletExec 5.0

4. In the left sidebar under Web Applications, click manage.

5. Click Add Web Application.

6. For Application Name, type: `esriadmin`

7. For URL Context Path, type: `/esriadmin`

This is the name you will use to run ArcIMS Service Administrator.

Note: The context path you specify is case sensitive. The context path you specify is case sensitive. You might want to create more than one Web Application with path names like `ESRIadmin` or `ESRIADMIN` pointing to the ArcIMS Service Administrator.

8. For Location, type: `<ArcIMS Installation Directory>/arcims/Administrator/esriadmin`

9. Click Submit and close ServletExec Admin.

10. Open the file `<Apache Installation Directory>/conf/httpd.conf`.

11. Add the following to the bottom of the `httpd.conf`

```
AddHandler servlet-exec jsp
ServletExecApplications <localhost> /esriadmin
```

Step 4: Configure your Web server

```
<Location /esriadmin>  
SetHandler servlet-exec  
</Location>
```

12. Stop and Start Apache web server and ServletExec and close the Services window.

See *ArcIMS Help* for information.

See [Configuring ServletExec for Metadata Explorer](#) for information on configuring Metadata Explorer.

See [Step 5: Configuring ArcIMS](#) for the final step required to get ArcIMS running.

Configuring Apache 2.0.4x with Tomcat 4.1.xx/5.0.x (mod_jk2) for Service Administrator

If you wish to use ArcIMS Service Administrator to remotely administer ArcIMS services, you must configure your Web server. Follow these steps to configure Apache 2.0.4x with Tomcat 4.1.xx/5.0.x (mod_jk2) for Service Administrator:

1. Locate the esriadmin.war file in the <ArcIMS Installation Directory>/arcims/Administrator directory.
2. Copy esriadmin.war to <Tomcat installation Directory>/webapps directory.
3. Stop the Tomcat and Apache services.
4. In a text editor, open <ArcIMS Installation Directory>/arcims/Middleware/Application_Server/AppServer.properties. You will need to change the properties of the AppServer.properties file so that this file is writable, if it is not already. For example: `chmod +w AppServer.properties`.
5. Find `preferenceFile=` and edit it to point to the `sitePreferences.properties` file:
`preferenceFile=<ArcIMS Installation Directory>/arcims/Middleware/Application_Server/sitePreferences.properties`
4. Save and close the file.
5. Start the Tomcat and Apache services by typing:

```
setenv JAVA_HOME <J2SE SDK Installation Directory>
setenv PATH $JAVA_HOME/bin:$PATH
<Tomcat Installation Directory>/bin/startup.sh
<Apache Installation Directory>/bin/apachectl start
```

See *ArcIMS Help* for information.

See [Configuring Apache 2.0.4x with Tomcat 4.1.xx/5.0.x \(mod_jk2\) for Metadata Explorer](#) for information on configuring Metadata Explorer.

Step 4: Configure your Web server

See [Step 5: Configuring ArcIMS](#) for the final step required to get ArcIMS running.

Configuring Sun Java System (formerly Sun ONE) 6.1 SP2 for Service Administrator

If you wish to use ArcIMS Service Administrator to remotely administer ArcIMS services, you must configure your Web server. Follow these steps to configure Sun Java System (formerly Sun ONE) 6.1 SP2 for Service Administrator:

1. Locate the file `esriadmin.war` in the `<ArcIMS installation directory>/arcims/Administrator` directory. This is the war file you will deploy.

2. In your Web browser, type:

`http://<localhost.domain.com>:<serveradminport>`

For example: `http://arcims.esri.com:10000`

Tip

- If you don't know your server's administration port, open `<Sun Java System Installation Directory>/servers/https-admserv/config/admin.conf` in a text editor and read the `http://<localhost.domain.com>:<serveradminport>` there.

3. Type your user name and password and click OK.

4. Click Manage.

5. Click on the Virtual Server Class tab.

6. Next to Select a Class, click Manage.

7. Next to Select a Virtual Server, click Manage.

8. Click on the Web Applications tab.

9. Browse to the `esriadmin.war` file located at `<ArcIMS installation directory>/arcims/Administrator`

10. For the Application Uri, type `/esriadmin`

Step 4: Configure your Web server

11. Click OK.
12. In the top right hand corner, click Apply.
13. Click Apply changes.
14. Stop and Start the Sun Java System Web Server:
 - <Sun Java System Installation Directory>/https-<machine>.<domain>/restart
 - <Sun Java System Installation Directory>/https-admserv restart

See *ArcIMS Help* for information.

See [Configuring Sun Java System \(formerly Sun ONE\) 6.1 SP2 for Metadata Explorer](#) for information on configuring Metadata Explorer.

See [Step 5: Configuring ArcIMS](#) for the final step required to get ArcIMS running.

Configuring Sun Java System (formerly Sun ONE) Application Server 7.0 for Service Administrator

If you wish to use ArcIMS Service Administrator to remotely administer ArcIMS services, you must configure your Web server. Follow these steps to configure Sun Java System (formerly Sun ONE) Application Server 7.0 for Service Administrator:

1. Locate the esriadmin.war file in the <ArcIMS installation directory>/arcims/Administrator directory.

2. In your Web browser, type:

`http://<localhost.domain.com>:<serveradminport>`

For example: `http://arcims.esri.com:10000`

Tip

- If you don't know your server's administration port, open <Sun Java System Installation Directory>/servers/https-admserver/config/admin.conf in a text editor and read the `http://<localhost.domain.com>:<serveradminport>` there.

3. Type your user name and password and click OK.

4. In the left panel, expand Applications and click on Web Apps.

5. In the right panel, click on Deploy.

6. Browse to the esriadmin.war file located at: <ArcIMS installation directory>/arcims/Administrator and click OK.

7. Leave the Context Root at the default setting and click OK.

8. Save and close.

9. Restart the server.

See *ArcIMS Help* for information.

Step 4: Configure your Web server

See [Configuring Sun Java System \(formerly Sun ONE\) Application Server 7.0 for Metadata Explorer](#) for information on configuring Metadata Explorer.

See [Step 5: Configuring ArcIMS](#) for the final step required to get ArcIMS running

Configuring IBM HTTP Server 1.3.26 with Websphere 5.0 for Service Administrator

If you wish to use ArcIMS Service Administrator to remotely administer ArcIMS services, you must configure your Web server. Follow these steps to configure IBM HTTP Server 1.3.26 with Websphere 5.0 for ArcIMS Service Administrator:

1. Locate the file `esriadmin.war` located in the `<ArcIMS installation directory>/arcims/Administrator` directory.
2. In a text editor, open `/opt/WebSphere/AppServer/config/cells/plugin-cfg.xml`.
- 3.. Scroll down to the section `<UriGroup Name="server1_Cluster_URIs">`
Inside this block add the following
`<Uri Name="/esriadmin/*"/>`
Save and Exit
4. Open the Websphere admin console in a browser: `http://localhost:9090/admin`
5. At the login page, type your username and click OK.
6. In the left panel, expand the Applications directory.
7. In the left panel, click on Install New Application.
8. In the right panel under local path, browse to `esriadmin.war` file located at:
`/<ArcIMS installation location>/arcims/Administrator`
9. Under Context Root, type `/esriadmin` and click Next.
10. At the Generate Default Bindings screen, click Next.
11. At the AppDeployment Options screen, click Next.

Step 4: Configure your Web server

12. At the Map Virtual Hosts for Web Modules screen, check the box next to esriadmin.war and click Next.

13. At the Map Modules to Application Servers screen, check the box next to esriadmin.war and click Next.

14. At the Summary screen, click Finish.

15. At the Installing screen, click on Save to Master Configuration link.

16. At the Save to Master Configuration screen, click Save.

17. In the left panel, click on Enterprise Applications.

18. In the right panel, check the box next to esriadmin.war and click Start.

19. Stop and Start Websphere.

a. `cd /opt/WebSphere/AppServer/bin`

b. As root, `./firststeps.sh`

c. Click on Start, Stop Server.

See ArcIMS Help for information.

See [Configuring IBM HTTP Server 1.3.26 for Websphere 5.0 for Metadata Explorer](#) for information on configuring Metadata Explorer.

See [Step 5: Configuring ArcIMS](#) for the final step required to get ArcIMS running.

Configuring WebLogic 7.0/8.1 for Service Administrator

If you wish to use ArcIMS Service Administrator to remotely administer ArcIMS services, you must configure your Web server:

1. Locate the esriadmin.war file located in the <ArcIMS installation directory>/arcims/Administrator directory. The war file will be expanded into a esriadmin directory located in <ArcIMS Installation Directory>/arcims/Administrator directory.

2. Start WebLogic.

3. In your web browser, type:

`http://<localhost.domain.com>:<serveradminport>/console`, for example,
`http://arcims.esri.com:10000/console`.

4. Type your password.

5. On the left sidebar, expand the <Domain Name>, Deployments and click Web Applications.

6. Click Configure a new Web Application.

7. Browse to the location of the Administrator directory.

8. On the panel for selecting the archive for this Web application module, select the esriadmin directory radio button. Do not select the esriadmin.war file.

8. Click Target Module.

10. Click Deploy.

11. Stop and restart Weblogic

Step 4: Configure your Web server

See *ArcIMS Help* for information.

See [Configuring WebLogic 7.0/8.1 for Metadata Explorer](#) for information on configuring Metadata Explorer.

See [Step 5: Configuring ArcIMS](#) for the final step required to get ArcIMS running

Configuring Oracle Application Server 9.0.3/10g for Service Administrator

If you wish to use ArcIMS Service Administrator to remotely administer ArcIMS services, you must configure your Web server.

Follow the steps below to configure your Oracle Application Server 9.0.3 or Oracle Application Server 10g:

1. Locate the file `esriadmin.war` located in the `<ArcIMS installation directory>/arcims/Administrator` directory.
2. Open the Oracle Enterprise Manager in your Web browser (<http://mymachine.esri.com:1810>).
3. For OAS 9.0.3, click the `OC4J_home` link from the list of System Components.
For OAS 10g, click the `home` link from the list of System Components.
4. For OAS 9.0.3, on the `OC4J_home` page click the `Deploy War file` link under the `Applications` section to open the `Deploy Web Application` page.
For OAS 10g, on the `home` page click the `Deploy War file` link under the `Applications` section to open the `Deploy Web Application` page.
5. For `Web Application`, click `Browse` and navigate to `<ArcIMS Installation Directory>/arcims/Administrator/esriadmin.war`.
6. For `Application Name` type `esriadmin`
7. For `Map to URL` type `/esriadmin`
8. Click `Deploy` to deploy the `esriadmin.war` file. The ArcIMS Service Administrator is installed in the `<Oracle Application`
9. `Server Installation Directory>/j2ee/home/applications` directory.
10. Click `OK` when the `Confirmation` is displayed.

Step 4: Configure your Web server

11. Exit Oracle Enterprise Manager.

See *ArcIMS Help* for information.

See [Configuring Oracle Application Server 9.0.3/10g for Metadata Explorer](#) for information on configuring Metadata Explorer.

See [Step 5: Configuring ArcIMS](#) for the final step required to get ArcIMS running

Step 5: Configure ArcIMS

Perform the following activities to set up your ArcIMS environment:

[Using ArcIMS with a proxy server](#)

[Starting the ArcIMS processes](#)

[Running ArcIMS](#)

ESRI recommends that you execute ArcIMS from a C shell. The following instructions are for a C shell environment setup.

Using ArcIMS with a proxy server

Use the Proxy Server properties to specify whether your LAN uses a proxy server to connect to the Internet. A proxy server is a computer on your LAN that connects to the Internet without compromising the security of your internal network. If you are not sure how your LAN connects to the Internet, contact your system administrator.

If you use proxy servers, then set the appropriate properties in the `aimsproxy.properties` file, which is located in your `$HOME` directory.

- If your LAN uses a proxy server to connect to the Internet for HTTP protocol requests:

1. Open `$AIMSHOME/Xenv/aimsproxy.properties` in a text editor.
2. Set the `HostName` and `Port` of the proxy server to use. For example:

```
httpproxyhost=proxy.esri.com
```

```
httpproxyport=5000
```

3. After editing the `aimsproxy.properties` file, copy it to your `$HOME` directory:

```
cp $AIMSHOME/Xenv/aimsproxy.properties $HOME
```

- If your LAN connects to the Internet via a proxy server using a secure HTTP protocol (HTTPS):

1. Open `$AIMSHOME/Xenv/aimsproxy.properties` in a text editor.
2. Set the `HostName` and `Port` of the https proxy server to use. For example:

```
httpsproxyhost=httpsproxy.esri.com
```

```
httpsproxyport=5010
```

3. After editing the `aimsproxy.properties` file, copy it to your `$HOME` directory:

```
cp $AIMSHOME/Xenv/aimsproxy.properties $HOME
```

- If your LAN does not use a proxy server and is directly connected to the Internet, do **not** set these properties. By default, they are not set.

Starting the ArcIMS processes

Three scripts are located in the \$AIMSHOME/Xenv directory. These scripts are used to start the ArcIMS processes. They are:

aimsappsvr—Starts and Stops the ArcIMS Application Server

aimsmonitor—Starts and Stops the ArcIMS Monitor

aimstasker—Starts and Stops the ArcIMS Tasker

Note: To start the ArcIMS Monitor process at system boot, refer to the instructions provided in the file \$AIMSHOME/Xenv/automatic_startup_instructions.

The ArcIMS processes rely on property files for some of their information. These files are located at:

Application Server: \$AIMSHOME/Middleware/
Application_Server/AppServer.properties

Monitor: \$AIMSHOME/Monitor/Monitor.properties

Tasker: \$AIMSHOME/Middleware/Tasker/Tasker.properties

Each file contains a description of the various settings. Follow the descriptions to customize the processes. The Monitor.properties and the Tasker.properties files should be edited prior to starting the aimsmonitor and aimstasker processes. The Monitor.properties and the Tasker.properties files were edited during the ArcIMS post installation setup to include the Application Server name.

1. To start the processes manually, navigate to the \$AIMSHOME/Xenv directory and start the services in the following order:
 1. `./aimsappsvr start &`
 2. `./aimsmonitor start &`
 3. `./aimstasker start &`
2. To test the processes, open /<ArcIMS Installation Directory>/arcims/Xenv/ArcIMS_Diagnostics/ArcIMS_Diagnostics.html in Netscape. The ArcIMS Diagnostics displays.
 - a. Select your Web server protocol, type your Web server name including domain, and type your port number. The default is 80.
 - b. Click 2 to test the ArcIMS Application Server. If this test is successful, your ArcIMS Application Server is configured correctly. If you receive an error message, select the error number in the dropdown list. The error number and a description display. Follow the instructions in the description to fix the problem and try the Diagnostics tool again.
3. To stop the processes manually, navigate to the \$AIMSHOME/Xenv directory and stop the services in the following order:
 1. `./aimstasker stop`

2. `./aimsmonitor stop`
3. `./aimsappsrvr stop`

Running ArcIMS

The various ArcIMS components can be launched by typing the following commands at the system prompt:

`aimsadmin`

`aimsauthor`

`aimsdesigner`

The scripts are located in the `$AIMSHOME/bin` directory and are accessed by including this directory in the `$PATH` variable.

You are ready to use ArcIMS.

Adding additional installation components

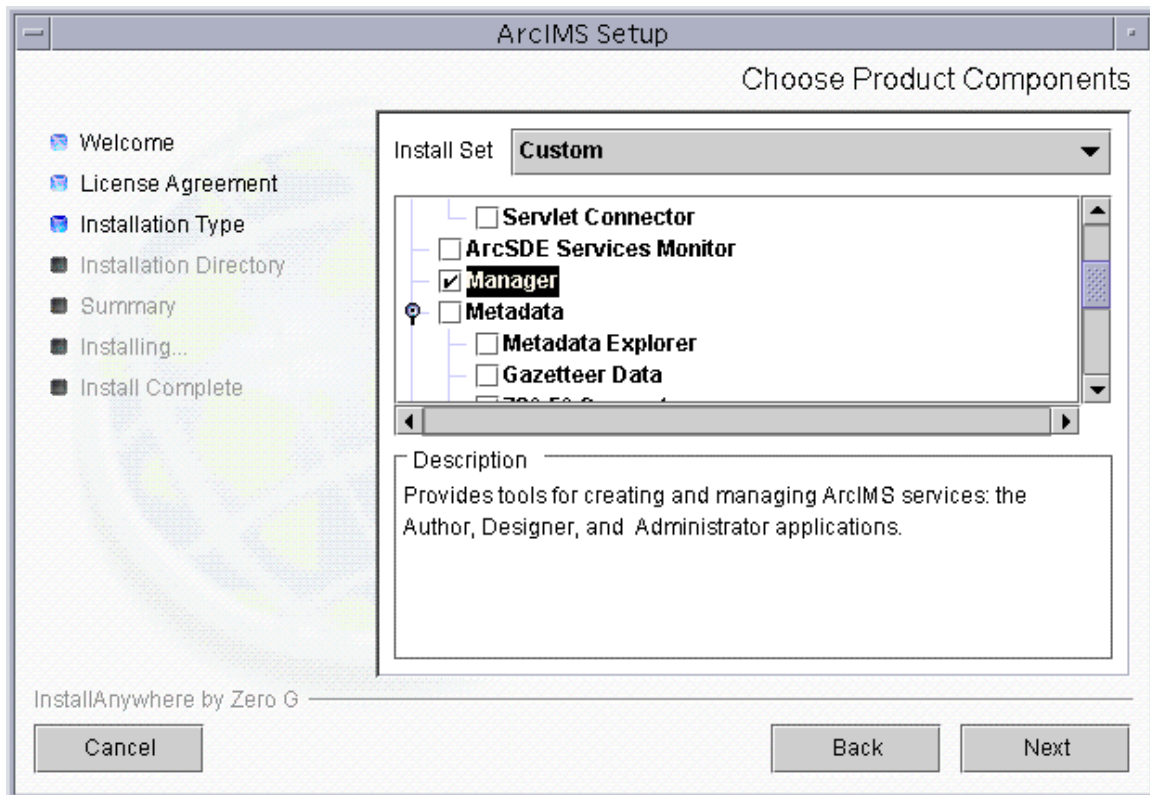
If you did not choose to add other ArcIMS components during the initial installation, they can be added later using the setup program.

Tip

- Adding additional installation components requires access to the original installation source. This includes the ArcIMS CD or the network location if you installed from a network source.

How to add ArcIMS installation components

1. Execute the SetupArcIMS script located on the ArcIMS CD.
2. At the Choose Product Components dialog, from the Install Set dropdown list, select Custom. The features installed on your machine are selected. Unselect all the features you do not wish to re-install, and select the new features you would like to add. In the graphic below, Manager has been selected as the installation feature to add.



Tip

- If ArcMap Server is not listed in the Choose Product Components dialog box, this feature is not available to install.

Installing ArcIMS Viewer

Overview

The ArcIMS Viewer installation allows your end users to view ArcIMS Web sites created using the Java Viewers.

The client is supported on Windows 98, Windows NT, Windows 2000, Windows XP, HP-UX, IBM AIX, Linux Red Hat, and Sun Solaris; 128 MB of RAM are required for the Java clients.

The items installed are:

- Java Plug-in 1.3.1 or higher (if needed)
- ESRI ArcIMS Viewer
- ArcExplorer—Java 9.1

To install ArcIMS Viewer see the section for your platform:

[Installing ArcIMS Viewer on HP-UX](#)

[Installing ArcIMS Viewer on IBM AIX](#)

[Installing ArcIMS Viewer on Linux Red Hat](#)

[Installing ArcIMS Viewer on Microsoft Windows](#)

[Installing ArcIMS Viewer on Sun Solaris](#)

Setting up the ArcIMS host computer on UNIX/LINUX

To provide Internet clients with the ability to download the ArcIMS Viewer from an ArcIMS Web site, the ArcIMS Web site Administrator must verify that the directory `install`, and the file `install.htm` are located in your ArcIMS website directory (for example, `/disk1/website/install`).

For information on the ArcIMS Website directory specific to the type of Web server you are using, see [Configuring your Web server for HP-UX, IBM AIX, Linux Red Hat, or Sun Solaris](#).

If you are using Sun Java System Web server, you must make changes to support the use of ArcIMS Viewer. See the instructions for [Configuring your Sun Java System Web server for ArcIMS Viewer](#).

Once you have set up the ArcIMS Host computer, the next step is to install J2SE JRE 1.3.1 or higher on a remote [HP-UX, IBM AIX, Linux Red Hat, or Sun Solaris](#) computer.

Setting up ArcExplorer - Java Edition on a remote UNIX/LINUX machine

Intranet and Internet clients

Check with your ArcIMS system administrator if you do not know what \$AEJHOME should be set to.

1. To enable ArcExplorer—Java Edition, set the following variable in your .cshrc file:

```
setenv AEJHOME <ArcExplorer Installation Directory>/aej91exe
```

2. In your .cshrc file, add \$AEJHOME/bin to your \$PATH variable or set an alias to the startup script:

```
set path = ( $path $AEJHOME/bin )
```

or

```
alias aejava $AEJHOME/bin/aejava
```

3. To enable ArcExplorer—Java Edition Help, copy the aimsclient.properties file from <ArcExplorer Installation Directory>/Xenv to your \$HOME directory, open the file in a text editor, and edit the values for:

```
WebBrowser=<Netscape Installation Directory>/netscape
AEJavaHelp=<ArcExplorer Installation
Directory>/aej91exe/Help/aejava_help.htm
```

Save and close the file.

4. Source your .cshrc file:

```
source .cshrc
```

5. To start ArcExplorer—Java Edition, type:

```
aejava
```

You can now use ArcExplorer—Java Edition to view local data and ArcIMS services.

Tips

- If your remote IBM AIX computer accesses an ArcIMS Web site created using the Java Standard Viewer on Windows or Solaris, then you will encounter the following warning message: 'You need a font named Arial to view data from this server.' Click OK. This is just a warning message, and it should not affect the functionality of the Java Standard Viewer.

Installing ArcIMS Viewer on HP-UX

The ArcIMS Host computer runs the ArcIMS Web site, and the ArcIMS remote computer accesses the Web site from a Web browser via the Intranet or Internet.

An Intranet client has NFS access to the ArcIMS Host, and an Internet client has only HTTP access.

Tip

- ArcIMS Web sites created using the Java Custom Viewer cannot be viewed from an HP-UX remote computer.

To view ArcIMS Web sites created using the ArcIMS Java Standard Viewer, the following components must be installed on the remote computer:

- J2SE JRE 1.3.1 (the Java Plug-in is included with JRE)
- ArcIMS Viewer

If the remote computer has ArcIMS Manager or ArcExplorer—Java Edition installed, the J2SE JRE and ArcIMS Viewer are already available on it. If not, Internet clients are prompted to install these via the ArcIMS Viewer installation. Intranet clients can copy the necessary components to their computer. See *Installing ArcIMS Viewer on a remote HP-UX computer*.

There are four steps required to set up a remote ArcIMS Viewer:

1. [Setting up the ArcIMS Host computer](#)
2. [Installing J2SE JRE 1.4.2_06 on a remote HP-UX computer](#)
3. [Installing ArcIMS Viewer on a remote HP-UX computer](#)
4. [Setting up ArcExplorer—Java Edition on a remote computer](#)

The steps have different instructions for Internet and Intranet clients, where appropriate.

Installing J2SE JRE 1.4.2_06 on a remote HP-UX machine

Internet clients only

When a remote HP-UX computer tries to access an ArcIMS Java Standard Web site, the application automatically detects whether the J2SE JRE 1.3.1 or higher and the Plug-in are installed. If not, the browser is redirected to the [HP Web site](#) to download J2SE JRE 1.4.2_06. If you have already installed J2SE JRE 1.3.1 but still receive the redirect message, the Plug-in may not be configured properly. Skip to Step 3 below for instructions on configuring J2SE JRE and the Plug-in.

Internet and Intranet clients

1. Register and follow the instructions to download and install JRE .
2. ESRI recommends that you increase the Java VM memory parameters. Open the Java Plug-in Control Panel and set the required memory parameters in the field named Java Run Time parameters to

```
-Xms10m -Xmx256m
```

and click Apply.

The Java Plug-in Control Panel is located at <J2SE JRE Installation Directory>/bin/ControlPanel.

3. Configure J2SE JRE:
 - a. Make sure the correct J2SE JRE is being used. Add the following to your .cshrc file:

```
setenv JAVA_HOME <J2SE JRE Installation Directory>  
set path = ( $JAVA_HOME/bin $path)
```

- b. Source the .cshrc file:

```
source .cshrc
```

Once you have J2SE JRE 1.4.2_06 installed, the next step is to [install ArcIMS Viewer](#).

Installing ArcImS Viewer on a remote HP-UX machine

Internet clients only

1. Once you have installed J2SE JRE and configured JPI, close your browser to clear the cache and reopen it.
2. Type the URL to the ArcIMS Web site:
`http://<hostname>/website/<name>/default.htm`
3. The ArcIMS Viewer installer, AEJava.bin is downloaded to your \$HOME directory.
4. To install the ArcIMS Viewer, grant execute permissions to the AEJava.bin file and execute it.
5. At the language screen, choose a language and click OK.
6. At the Location of J2SE JRE screen, choose the location where you installed J2SE JRE 1.3.1 or higher. This should be the same as what your \$NPX_JRE_PATH variable is set to in Step 4 of [Installing J2SE JRE 1.4.2_06 on a remote HP-UX computer](#). Click Next.

Note: You must have write access to the lib and bin directories in JRE .

7. At the Introduction screen, click Next.
8. At the Installation Directory screen, choose the installation directory and click Install. The installer creates a directory called AEJava at this location.

Note: The Viewer JAR files and libraries are installed directly into the J2SE JRE directory that you selected in Step 8. See the install.log file located in AEJava/UninstallerData for a list of where each file is copied.

9. At the Install Complete screen, click Done.
10. Close the browser to clear the cache, and reopen it.

You are now ready to view ArcIMS Web pages created using the Java Standard Viewer. Proceed to [Setting up ArcExplorer Java Edition on a remote UNIX/Linux computer](#).

Intranet clients only

Check with your ArcIMS system administrator if you do not know what \$AEJHOME should be set to.

1. Copy the Viewer *.jar files to your J2SE JRE ext directory:

```
cp $AEJHOME/lib/*.jar $NPX_JRE_PATH/lib/ext
```

2. Add \$AEJHOME/lib to your SHLIB_PATH in your .cshrc file:

```
setenv SHLIB_PATH $AEJHOME/lib:$SHLIB_PATH
```

You are now ready to view ArcIMS Web pages created using the Java Standard Viewer. Proceed to [Setting up ArcExplorer-Java Edition on a remote UNIX/Linux computer](#).

Installing ArcIMS Viewer on IBM AIX

The ArcIMS Host computer runs the ArcIMS Web site, and the ArcIMS remote computer accesses the Web site from a Web browser via the Intranet or Internet.

Tip

- ArcIMS Web sites created using the Java Custom Viewer cannot be viewed from an AIX remote computer.

An Intranet client has NFS access to the ArcIMS Host, and an Internet client has only HTTP access.

To view ArcIMS Web sites created using the ArcIMS Java Standard Viewer, the following components must be installed on the remote computer:

- J2SE JRE 1.3.1 or higher (the Java Plug-in is included with JRE)
- ArcIMS Viewer

If the remote computer has ArcExplorer—Java Edition installed, the J2SE JRE and ArcIMS Viewer are already available on it. If not, Internet clients are prompted to install these via the ArcIMS Viewer installation. Intranet clients can copy the necessary components to their computer. See *Installing ArcIMS Viewer on a remote AIX computer*.

There are four steps required to set up a remote ArcIMS Viewer:

1. [Setting up the ArcIMS Host computer on UNIX/Linux](#)
2. [Installing J2SE JRE 1.4.2 or higher on a remote IBM AIX computer](#)
3. [Installing ArcIMS Viewer on a remote IBM AIX computer](#)
4. [Setting up ArcExplorer—Java Edition on a remote UNIX/Linux computer](#)

The steps have different instructions for Internet and Intranet clients, where appropriate.

Installing J2SE JRE 1.4.2 on a remote IBM AIX machine

Internet clients only

When a remote computer tries to access an ArcIMS Java Standard Web site, the application automatically detects whether the J2SE JRE and Plug-in are installed. If it does not detect your J2SE JRE 1.3.1 or higher, you are directed to the following IBM Web site to download J2SE JRE 1.4.2: <http://www-106.ibm.com/developerworks/java/jdk/aix/service.html?SDFticket=>

If you have already installed J2SE JRE 1.3.1 or higher, but it is not detected, the Plug-in may not be configured properly. Skip to Step 4 below for instructions on configuring J2SE JRE and the Plug-in.

Internet and Intranet clients

The URL for the IBM J2SE JRE 1.4.2 download is <http://www-106.ibm.com/developerworks/java/jdk/aix/service.html?SDFticket=>

1. Register and follow the instructions to download the JRE .
2. ESRI recommends that you increase the Java VM memory parameters. Open the Java Plug-in Control Panel located at <J2SE JRE Installation Directory>/bin/JavaPluginControlPanel. Set the required memory parameters in the field named Java Run Time Parameters:

```
-Xms10m -Xmx256m
```

Click Apply.

3. Make sure that you add \$JAVA_HOME/bin to LIBPATH. See System requirements for more information.
4. Configure J2SE JRE:
 - a. Make sure the correct J2SE JRE is being used. Add the following to your .cshrc file:

```
setenv JAVA_HOME <J2SE JRE Installation Directory>  
set path = ( $JAVA_HOME/bin $path)
```

- b. Source the .cshrc:

```
source .cshrc
```

- c. For Netscape to use the correct Plug-in, copy the javaplugin.a file from your \$JAVA_HOME/bin directory to your Netscape plugin directory:

```
cp <J2SE JRE Installation Directory>/bin/javaplugin.a  
<Netscape Installation Directory>/plugins
```

Once you have J2SE JRE 1.4.2 installed, the next step is to [install ArcIMS Viewer](#).

Installing ArcIMS Viewer on a remote IBM AIX machine

Internet clients only

1. Once you have installed JRE , close your browser to clear the cache and reopen it.
2. Type the URL to the ArcIMS Web site:

```
http://<hostname>/website/<name>/default.htm
```

3. The ArcIMS Viewer installer, AEJava.bin is downloaded to your \$HOME directory.
4. To install the ArcIMS Viewer, grant execute permissions to the AEJava.bin file and execute it.
5. At the language screen, choose a language and click OK.
6. At the Location of J2SE JRE screen, choose the location where you installed J2SE JRE 1.3.1 or higher. This should be the same as what your \$JAVA_HOME variable is set to in step 3 of [Installing J2SE JRE 1.4.2 or higher on a remote computer](#). Click Next.

Note: You must have write access to the lib and bin directories in JRE .

7. At the Introduction screen, click Next.
8. At the Installation Directory screen, choose the installation directory and click Install. The installer creates a directory called AEJava at this location.

Note: The Viewer JAR files and libraries are installed directly into the J2SE JRE directory that you selected in Step 8. See the install.log file located in AEJava/UninstallerData for a list of where each file is copied.

9. At the Install Complete screen, click Done.
10. Close the browser to clear the cache, and reopen it.

You are now ready to view ArcIMS Web pages created using the Java Standard Viewer. Proceed to [Setting up ArcExplorer-Java Edition on a remote UNIX/Linux computer](#).

Intranet clients only

Check with your ArcIMS system administrator if you do not know what \$AEJHOME should be set to.

1. Copy the Viewer *.jar files to your J2SE JRE ext directory:

```
cp $AEJHOME/lib/*.jar <J2SE JRE Installation Directory>/lib/ext
```

2. Add \$AEJHOME/lib to your LIBPATH in your .cshrc file:

```
setenv LIBPATH $AEJHOME/lib:$LIBPATH
```

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You are now ready to view ArcIMS Web pages created using the Java Standard Viewer. Proceed to [Setting up ArcExplorer-Java Edition on a remote UNIX/Linux computer](#).

Installing ArcIMS Viewer on Microsoft Windows

To install ArcIMS Viewer on Windows 98, Windows NT, Windows 2000, or Windows XP, perform the following instructions for your Web browser:

[Installing ArcIMS Viewer on Internet Explorer 5.0](#)

[Installing ArcIMS Viewer on Internet Explorer 5.5 and 6.0](#)

[Installing ArcIMS Viewer on Netscape](#)

Installing ArcIMS Viewer on Internet Explorer 5.0 on Microsoft Windows

To install ArcIMS Viewer on Windows 98, Windows NT, Windows 2000, or Windows XP:

1. Type the URL to the ArcIMS Web site:

`http://<hostname>/website/<name>`

Note: If you do not have the correct Java Plug-in, you will be prompted to install Java 2 Runtime Environment, otherwise [skip to step 6](#).

2. At the Security Warning screen for Java Plug-in, click Yes.
3. At the Locale selection screen, click Install.
4. At the Software License Agreement screen, click Yes.
5. At the Choose Destination Location screen, click Next. J2SE JRE 1.4.2_06 is installed on your computer, and the ArcIMS Viewer installation begins.
Note: You may see steps 6 and 7, otherwise [skip to step 8](#).
6. Install on Demand displays if Java Virtual Machine is needed, click Download.
7. A Security Warning for Microsoft Virtual Machine displays. Click Yes.
8. At the Security Warning screen for InstallAnywhere Web Installer, click Yes.
9. Click Start Installer for Windows.
10. At the language screen, choose English and click OK.
11. At the Welcome screen, click Next.
12. At the J2SE JRE and Java Plug-in screen, click Next.
13. At the Installation Directory screen, click Next.
14. At the Location of J2SE JRE screen, highlight the correct path and click Install.
15. At the Summary screen, click Next.
16. At the Install Complete screen, click Done.
17. Close your browser to clear the cache and reopen it.
18. Type the URL to the Web site:

`http://<hostname>/website/<name>`.

Now you can access the ArcIMS Web site.

Note: If you receive the following error message, 'Problem in opening a connection to the installer on the Server. It is possible that the installer cannot be found or has a different name,' tell your ArcIMS system administrator to refer to the instructions for [Configuring your Sun Java System \(formerly Sun ONE\) 6.0 Web server for ArcIMS Viewer](#).

Uninstalling ArcIMS Viewer

To uninstall ArcIMS Viewer:

1. Click Start > Settings > Control Panel and double-click Add/Remove Programs on Windows NT, or Change/Remove on Windows 2000; or click Start > Control Panel and double-click Add or Remove Programs on Windows XP.
2. Click ArcGIS ArcIMS Viewer and click Add/Remove on Windows NT or Change/Remove on Windows 2000 or Windows XP.

Installing ArcIMS Viewer on Internet Explorer 5.5 and 6.0 on Microsoft Windows

To install ArcIMS Viewer on Windows 98, Windows NT, Windows 2000, or Windows XP:

1. Type the URL to the ArcIMS Web site:

`http://<hostname>/website/<name>`

Note: If you do not have the correct Java Plug-in, you will be prompted to install Java 2 Runtime Environment, otherwise [skip to step 6](#).

2. At the Security Warning screen for Java Plug-in, click Yes.
3. At the Locale selection screen, click Install.
4. At the Java 2 Runtime Environment Software License Agreement screen, click Yes.
5. At the Choose Destination Location screen, click Next. J2SE JRE 1.4.2_06 is installed on your computer, and the ArcIMS Viewer installation begins.
Note: You may see steps 6 and 7, otherwise [skip to step 8](#).
6. Install on Demand displays if Java Virtual Machine is needed, click Download.
7. A Security Warning for Microsoft Virtual Machine displays. Click Yes.
8. At the Security Warning screen for InstallAnywhere Web Installer, click Yes.
9. Click Start Installer for Windows.
10. At the language screen, choose English and click OK.
11. At the Welcome screen, click Next.
12. At the J2SE JRE and Java Plug-in screen, click Next.
13. At the Installation Directory screen, click Next.
14. At the Location of J2SE JRE screen, highlight the correct path and click Install. If you do not highlight the path, the ArcIMS Viewer installation will not be complete.
15. At the Summary screen, click Next.
16. At the Install Complete screen, click Done.
17. Close your browser to clear the cache and reopen it.
18. Type the URL to the Web site:

`http://<hostname>/website/<name>`.

Now you can access the ArcIMS Web site.

Note: If you receive the following error message, 'Problem in opening a connection to the installer on the Server. It is possible that the installer cannot

be found or has a different name,' tell your ArcIMS system administrator to refer to the instructions for [Configuring your Sun Java System \(formerly Sun ONE\) 6.0 Web server for ArcIMS Viewer](#).

Uninstalling ArcIMS Viewer

To uninstall ArcIMS Viewer:

1. Click Start > Settings > Control Panel and double-click Add/Remove Programs on Windows NT, or Change/Remove on Windows 2000; or click Start > Control Panel and double-click Add or Remove Programs on Windows XP.
2. Click ArcGIS ArcIMS Viewer and click Add/Remove on Windows NT or Change/Remove on Windows 2000 or Windows XP.

Installing ArcIMS Viewer on Netscape 4.75 or 6 on Microsoft Windows

To install ArcIMS Viewer on Windows 98, Windows NT, Windows 2000, or Windows XP:

1. Type the URL to the ArcIMS Web site:

`http://<hostname>/website/<name>`

Note: If you do not have the correct Java Plug-in, you will be prompted to install Java 2 Runtime Environment, otherwise [skip to step 5](#).

2. At the Plug-in not loaded screen, click Get the Plug-in.
3. After being directed to the Java Web site, you will be prompted to download Java 2 Runtime Environment. Follow the instructions. (If the you are not automatically prompted to download, click the download link for Windows on the Java 2 Runtime Page.)
4. Install JRE .
5. Type the URL to the ArcIMS Web site:
`http://<hostname>/website/<name>`
6. On Netscape 6.0, at the Java Plug-in security warning, select Grant this session.
On Netscape 4.75, at the Java Security screen, select Grant.
7. Click Start Installer for Windows.
8. At the language screen, choose English and click OK.
9. At the Welcome screen, click Next.
10. At the J2SE JRE and Java Plug-in screen, click Next.
11. At the Installation Directory screen, click Next.
12. At the Summary screen, click Next.
13. At the Location of J2SE JRE screen, highlight the correct path and click Install.
14. At the Install Complete screen, click Done.
15. Close your browser to clear the cache and reopen it.
16. Type the URL to the Web site:

`http://<hostname>/website/<name>.`

Now you can access the ArcIMS Web site.

Note: If you receive the following error message, 'Problem in opening a connection to the installer on the Server. It is possible that the installer cannot be found or has a different name,' tell your ArcIMS system administrator to refer to the instructions for [Configuring your Sun Java System \(formerly Sun ONE\) 6.0 Web server for ArcIMS Viewer](#).

Uninstalling ArcIMS Viewer

To uninstall ArcIMS Viewer:

1. Click Start > Settings > Control Panel and double-click Add/Remove Programs on Windows NT, or Change/Remove on Windows 2000; or click Start > Control Panel and double-click Add or Remove Programs on Windows XP.
2. Click ArcGIS ArcIMS Viewer and click Add/Remove on Windows NT or Change/Remove on Windows 2000 or Windows XP.

Installing ArcIMS Viewer on Red Hat Linux

The ArcIMS Host computer runs the ArcIMS Web site, and the ArcIMS remote computer accesses the Web site from a Web browser via the Intranet or Internet.

An Intranet client has NFS access to the ArcIMS Host, and an Internet client has only HTTP access.

Tip

- ArcIMS Web sites created using the Java Custom Viewer cannot be viewed from a Linux remote computer.

To view ArcIMS Web sites created using the ArcIMS Java Standard Viewer, the following components must be installed on the remote computer:

- J2SE JRE 1.3.1 or higher (the Java Plug-in is included with JRE)
- ArcIMS Viewer

If the remote computer has ArcIMS Manager or ArcExplorer—Java Edition installed, the J2SE JRE and ArcIMS Viewer are already available on it. If not, Internet clients are prompted to install these via the ArcIMS Viewer installation. Intranet clients can copy the necessary components to their computer. See [Installing ArcIMS Viewer on a remote Linux computer](#).

There are four steps required to set up a remote ArcIMS Viewer:

1. [Setting up the ArcIMS Host computer](#)
2. [Installing J2SE JRE 1.4.2_06 or higher on a remote computer](#)
3. [Installing ArcIMS Viewer on a remote Linux computer](#)
4. [Setting up ArcExplorer-Java Edition on a remote computer](#)

The steps have different instructions for Internet and Intranet clients, where appropriate.

Installing J2SE JRE 1.4.2_06 on a remote LINUX machine

Internet clients only

When a remote Linux computer tries to access an ArcIMS Java Standard Web site, the application automatically detects whether the J2SE JRE and the Plug-in are installed. If not, the browser is redirected to the [Sun Web site](#) to download J2SE JRE 1.4.2_06. If you have already installed J2SE JRE 1.3.1 or higher but still receive the redirect message, the Plug-in may not be configured properly. Skip to Step 4 below for instructions on configuring J2SE JRE and the Plug-in.

Internet and Intranet clients

The URL for the Linux J2SE JRE 1.4.2_06 or higher download is <http://java.sun.com/j2se/1.4.2/index.jsp>

1. Register and follow the instructions to download and install JRE .
2. ESRI recommends that you increase the Java VM memory parameters. Open the Java Plug-in Control Panel and set the required memory parameters in the field named Java Run Time parameters to

```
-Xms10m -Xmx256m
```

and click Apply.

The Java Plug-in Control Panel is located at <J2SE JRE Installation Directory>/bin/ControlPanel.

3. Execute the J2SE JRE script for Linux.
4. Configure J2SE JRE:
 - a. Make sure the correct J2SE JRE is being used. Add the following to your .cshrc file:

```
setenv JAVA_HOME <J2SE JRE Installation Directory>
set path = ( $JAVA_HOME/bin $path)
```

- b. Source the .cshrc file:

```
source .cshrc
```

Once you have J2SE JRE 1.4.2_06, the next step is to [install ArcIMS Viewer](#).

Installing ArcIMS Viewer on a remote Red Hat LINUX machine

Internet clients only

1. Once you have installed J2SE JRE and configured JPI, close your browser to clear the cache and reopen it.
2. Type the URL to the ArcIMS Web site:
`http://<hostname>/website/<name>/default.htm`
3. The ArcIMS Viewer installer, AEJava.bin is downloaded to your \$HOME directory.
4. To install the ArcIMS Viewer, grant execute permissions to the AEJava.bin file and execute it.
5. At the language screen, choose a language and click OK.
6. At the Location of J2SE JRE screen, choose the location where you installed J2SE JRE 1.3.1 or higher. This should be the same as what your \$NPX_JRE_PATH variable is set to in Step 4 of [Installing J2SE JRE 1.4.2_06 or higher on a remote Linux computer](#). Click Next.

Note: You must have write access to the lib and bin directories in JRE .

7. At the Introduction screen, click Next.
8. At the Installation Directory screen, choose the installation directory and click Install. The installer creates a directory called AEJava at this location.

Note: The Viewer JAR files and libraries are installed directly into the J2SE JRE directory that you selected in Step 8. See the install.log file located in AEJava/UninstallerData for a list of where each file is copied.

9. At the Install Complete screen, click Done.
10. Close the browser to clear the cache, and reopen it.

You are now ready to view ArcIMS Web pages created using the Java Standard Viewer. Proceed to [Setting up ArcExplorer Java Edition on a remote UNIX/Linux computer](#).

Intranet clients only

Check with your ArcIMS system administrator if you do not know what \$AEJHOME should be set to.

1. Copy the Viewer *.jar files to your J2SE JRE ext directory:
`cp $AEJHOME/lib/*.jar $NPX_JRE_PATH/lib/ext`
2. Add \$AEJHOME/lib to your LD_LIBRARY_PATH in your .cshrc file:

```
setenv LD_LIBRARY_PATH $AEJHOME/lib:$LD_LIBRARY_PATH
```

You are now ready to view ArcIMS Web pages created using the Java Standard Viewer. Proceed to [Setting up ArcExplorer-Java Edition on a remote UNIX/Linux computer](#).

Installing ArcIMS Viewer on Solaris

The ArcIMS Host computer runs the ArcIMS Web site, and the ArcIMS remote computer accesses the Web site from a Web browser via the Intranet or Internet.

An Intranet client has NFS access to the ArcIMS Host, and an Internet client has only HTTP access.

Tip

- ArcIMS Web sites created using the Java Custom Viewer cannot be viewed from a Solaris remote computer.

To view ArcIMS Web sites created using the ArcIMS Java Standard Viewer, the following components must be installed on the remote computer:

- J2SE JRE 1.3.1 or higher (the Java Plug-in is included with JRE)
- ArcIMS Viewer

If the remote computer has ArcIMS Manager or ArcExplorer—Java Edition installed, the J2SE JRE and ArcIMS Viewer are already available on it. If not, Internet clients are prompted to install these via the ArcIMS Viewer installation. Intranet clients can copy the necessary components to their computer. See [Installing ArcIMS Viewer on a remote Solaris computer](#).

There are four steps required to set up a remote ArcIMS Viewer:

1. [Setting up the ArcIMS Host computer](#)
2. [Installing J2SE JRE 1.4.2_06 on a remote computer](#)
3. [Installing ArcIMS Viewer on a remote Solaris computer](#)
4. [Setting up ArcExplorer—Java Edition on a remote computer](#)

The steps have different instructions for Internet and Intranet clients, where appropriate.

Installing J2SE JRE 1.4.2_06 on a remote Solaris machine

Internet clients only

When a remote Solaris computer tries to access an ArcIMS Java Standard Web site, the application automatically detects whether the J2SE JRE and the Plug-in are installed. If not, the browser is redirected to the [Sun Web site](#) to download J2SE JRE 1.4.2_06. If you have already installed J2SE JRE 1.3.1 but still receive the redirect message, the Plug-in may not be configured properly. Skip to Step 4 below for instructions on configuring J2SE JRE and the Plug-in.

Note: If you use J2SE JRE 1.3.1, you need to install the required Sun OS patches listed on the java.sun.com Web site for Solaris: <http://java.sun.com/j2se/1.3/install-solaris-patches.html>.

Internet and Intranet clients

The URL for the Sun J2SE JRE 1.4.2_06 download is <http://java.sun.com/j2se/1.4.2/index.jsp>

1. Register and follow the instructions to download and install JRE .
2. ESRI recommends that you increase the Java VM memory parameters. Open the Java Plug-in Control Panel and set the required memory parameters in the field named Java Run Time parameters to

```
-Xms10m -Xmx256m
```

and click Apply.

The Java Plug-in Control Panel is located at <J2SE JRE Installation Directory>/bin/ControlPanel.

3. Execute the J2SE JRE script for Solaris.

Note: Be sure to check the Solaris patch requirements for the JPI and J2SE JRE prior to installing these components.

4. Configure J2SE JRE:
 - a. Make sure the correct J2SE JRE is being used. Add the following to your .cshrc file:

```
setenv JAVA_HOME <J2SE JRE Installation Directory>  
set path = ( $JAVA_HOME/bin $path)
```

- b. Source the .cshrc file:

```
source .cshrc
```

Once you have J2SE JRE 1.4.2_06 installed, the next step is to [install ArcIMS Viewer](#).

Installing ArcIMS Viewer on a remote Solaris machine

Internet clients only

1. Once you have installed J2SE JRE and configured JPI, close your browser to clear the cache and reopen it.
2. Type the URL to the ArcIMS Web site:
`http://<hostname>/website/<name>/default.htm`
3. The ArcIMS Viewer installer, AEJava.bin is downloaded to your \$HOME directory.
4. To install the ArcIMS Viewer, grant execute permissions to the AEJava.bin file and execute it.
5. At the language screen, choose a language and click OK.
6. At the Location of J2SE JRE screen, choose the location where you installed J2SE JRE 1.3.1 or higher. This should be the same as what your \$NPX_JRE_PATH variable is set to in Step 4 of [Installing J2SE JRE 1.4.2_06 or higher on a remote Solaris computer](#). Click Next.

Note: You must have write access to the lib and bin/sparc directories in JRE .

7. At the Introduction screen, click Next.
8. At the Installation Directory screen, choose the installation directory and click Install. The installer creates a directory called AEJava at this location.

Note: The Viewer JAR files and libraries are installed directly into the J2SE JRE directory that you selected in Step 8. See the install.log file located in AEJava/UninstallerData for a list of where each file is copied.

9. At the Install Complete screen, click Done.
10. Close the browser to clear the cache, and reopen it.

You are now ready to view ArcIMS Web pages created using the Java Standard Viewer. Proceed to [Setting up ArcExplorer Java Edition on a remote UNIX/Linux computer](#).

Intranet clients only

Check with your ArcIMS system administrator if you do not know what \$AEJHOME should be set to.

1. Copy the Viewer *.jar files to your J2SE JRE ext directory:
`cp $AEJHOME/lib/*.jar $NPX_JRE_PATH/lib/ext`
2. Add \$AEJHOME/lib to your LD_LIBRARY_PATH in your .cshrc file:

```
setenv LD_LIBRARY_PATH $AEJHOME/lib:$LD_LIBRARY_PATH
```

You are now ready to view ArcIMS Web pages created using the Java Standard Viewer. Proceed to [Setting up ArcExplorer-Java Edition on a remote UNIX/Linux computer](#).

Uninstalling ArcIMS 9.1

To uninstall ArcIMS 9.1 follow the directions below. To uninstall other versions of ArcIMS, see the appropriate install guide.

How to prepare to uninstall ArcIMS

Before uninstalling ArcIMS, you may want to backup the following files. These files can not be directly used with the new version of the software that you install, but they can be used as a reference when reconfiguring your site.

- .axl files located in the <ArcIMS Installation Directory>\arcims\Metadata
- Any aimsacl.xml files (including those used by the ArcIMS Servlet Connector, Java Connector, and Z39.50 Connector.
- Any files that have been manually configured to meet your ArcIMS site needs, including AppServer.properties, Esrimap_prop, aimsmeta.properties, Monitor.properties, and <ArcIMS Installation Directory>\ArcIMS\Server\etc.cfg files.
- Any .ser and/or .sez files

How to uninstall ArcIMS

You must remove the following items to uninstall ArcIMS:

1. launch the Uninstall from <ArcIMS installation directory>/arcims/tools/uninstallArcIMS. Follow the directions on your screen.
2. After the setup has successfully uninstalled ArcIMS. Remove the following from the appropriate Web server location:
 - com directory
 - Esrimap_prop
 - ServletConnector_Res.properties
 - ServletConnector_Res_en_US.properties

For example:

Apache with ServletExec: <ServletExec Installation Directory>/NewAtlanta/ServletExecAS/se-<instance-name>/Servlets

Apache with Tomcat: <Tomcat Installation Directory>/webapps/ROOT/WEB-INF/classes; esriadmin and metadataexplorer directories from <Tomcat Installation Directory>/webapps, if applicable

Sun Java System (formerly Sun ONE): com directory from <Sun Java System (formerly Sun ONE) Installation Directory>/servers/docs/servlet; Esrimap_prop, ServletConnector_Res.properties, and

ServletConnector_Res_en_US.properties files from <Sun Java System (formerly Sun ONE) Installation Directory>/servers/https-<localhost>.<domain>.com/config

IBM HTTP Server with WebSphere: <WebSphere Installation Directory>/AppServer/servlets

Oracle Application Server: <OAS Installation Directory>/Apache/Jserv/servlets

WebLogic: <WebLogic Installation Directory>/bea/wlserver70/config/mydomain/applications/DefaultWebApp/WEB-INF/classes

Note: If you are using Sun Java System (formerly Sun ONE) with ArcIMS, before Sun Java System (formerly Sun ONE) will restart you must remove all references to ArcIMS from the web-apps.xml file located in <Sun Java System (formerly Sun ONE) Installation Directory>/servers/https-<localhost>.<domain>.com/config

Troubleshooting

Online Troubleshooting articles:

Troubleshooting ArcIMS Installation:

[23357](#) - ArcIMS Viewer must be removed before installing ArcIMS

[23672](#) - Post installation setup - Web server servlet engine configuration completed with errors

[23727](#) - Error: Please enter a valid username on your domain

[20394](#) - (Windows only) AdminSiteApplet is not found for Manager

Troubleshooting Web server & servlet engine:

[22327](#) - Jakarta Tomcat service fails to start due to internal error

[20340](#) - HowTo: Update ServletExec to use a new version of JRE

[18766](#) - (Windows only) Tomcat service fails to start

Check out <http://support.esri.com/search/KbDocument.asp?dbid=28543> for information on setting up your Web server and servlet engine.

Troubleshooting Application start up after installation:

[23057](#) - Unable to login to Administrator in ArcIMS

[22055](#) - Add virtual server failed

[22185](#) - (LINUX only) Map service not available due to fonts missing

[20915](#) - ArcIMS services or Tomcat stop immediately after starting

[15442](#) - Reset ArcIMS so that Administrator prompts for new user information

[23622](#) - HowTo: Create a scripts virtual directory in IIS

[19439](#) - HowTo: View error messages generated by Administrator, Author, and ArcExplorer Java while developing an ArcIMS site

[20844](#) - HowTo: Enable Complete Logging for the ArcIMS Application Server and Spatial Server

[22034](#) - Unable to add ArcMapImage Service because the ArcMap image server is not showing up

[22039](#) - Unable to create an ArcMap Image Service

[21331](#) - "Requested Map Service not available" error in HTML viewer

[23444](#) - URL is invalid, or ArcIMS is not running in Administrator

ArcIMS 9.1 for HP-UX Install Guide

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