

# ArcGIS® 9

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**Installing ArcIMS® 9 on Sun™ Solaris™**



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# Introduction

## 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 9.0?

The following are included with ArcIMS 9.0:

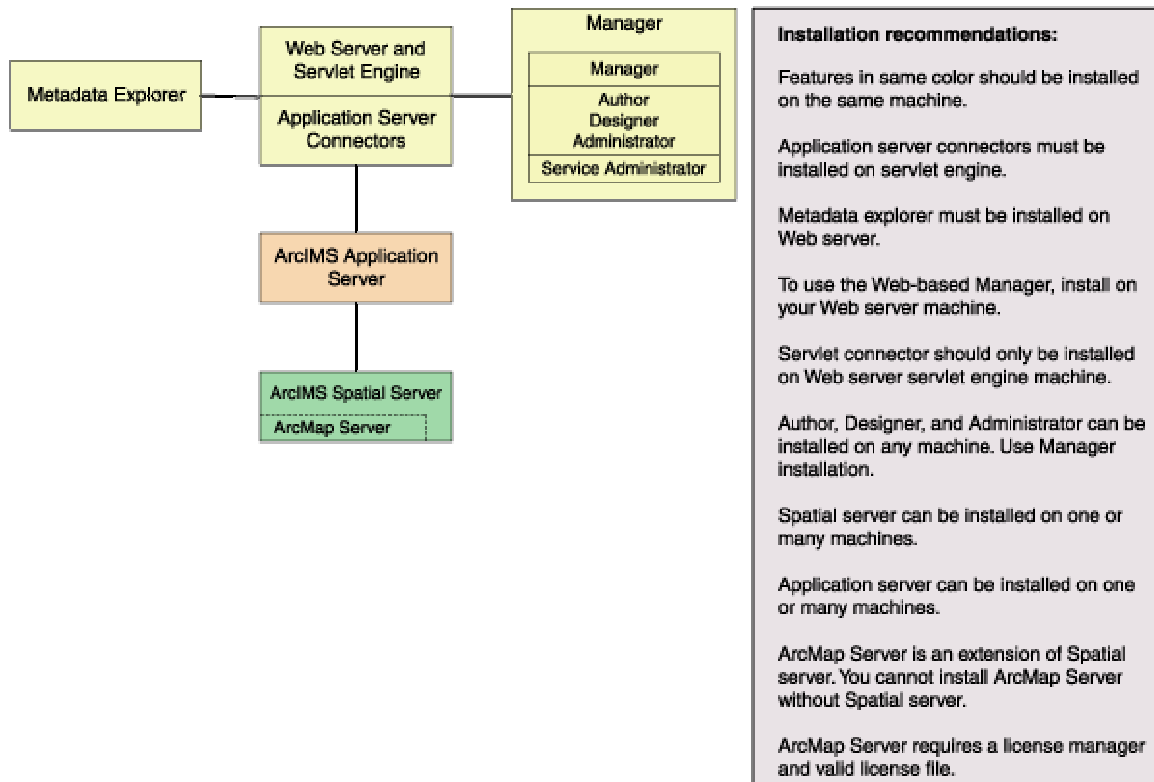
- The installation CD with ArcIMS software. See *Using ArcIMS* for details on working with ArcIMS. To find out about ArcIMS customization, see *Customizing ArcIMS*, a five-book documentation series you can install with the software. The *ArcXML Programmer's Reference Guide*, a programming guide for customizing 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.

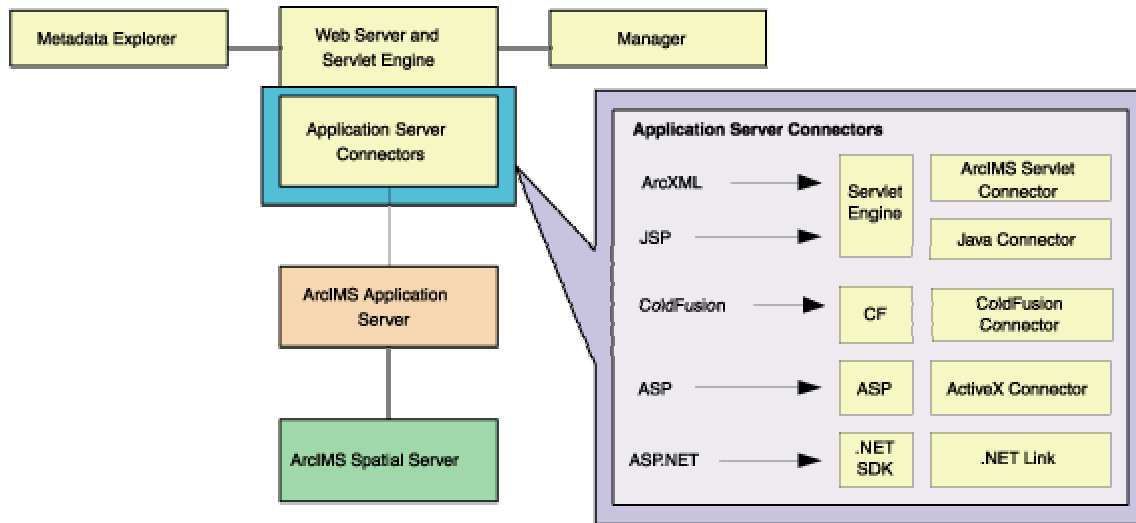
See *ArcIMS Help* for details on using ArcIMS Service Administrator.

## **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 is installed with the Servlet connector and enables ArcIMS to work within the OGC WMS 1.1.1 specification.

In addition to the ArcIMS Servlet 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 platforms and Solaris. ArcIMS Spatial Servers run on a Windows NT®

Server, Windows NT Workstation, Windows 2000, Windows 2000 Server, Windows XP, Windows Server 2003 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.

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)
- ☐ ColdFusion (required for ColdFusion Connector)

#### 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 and Solaris 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](mailto: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](http://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.

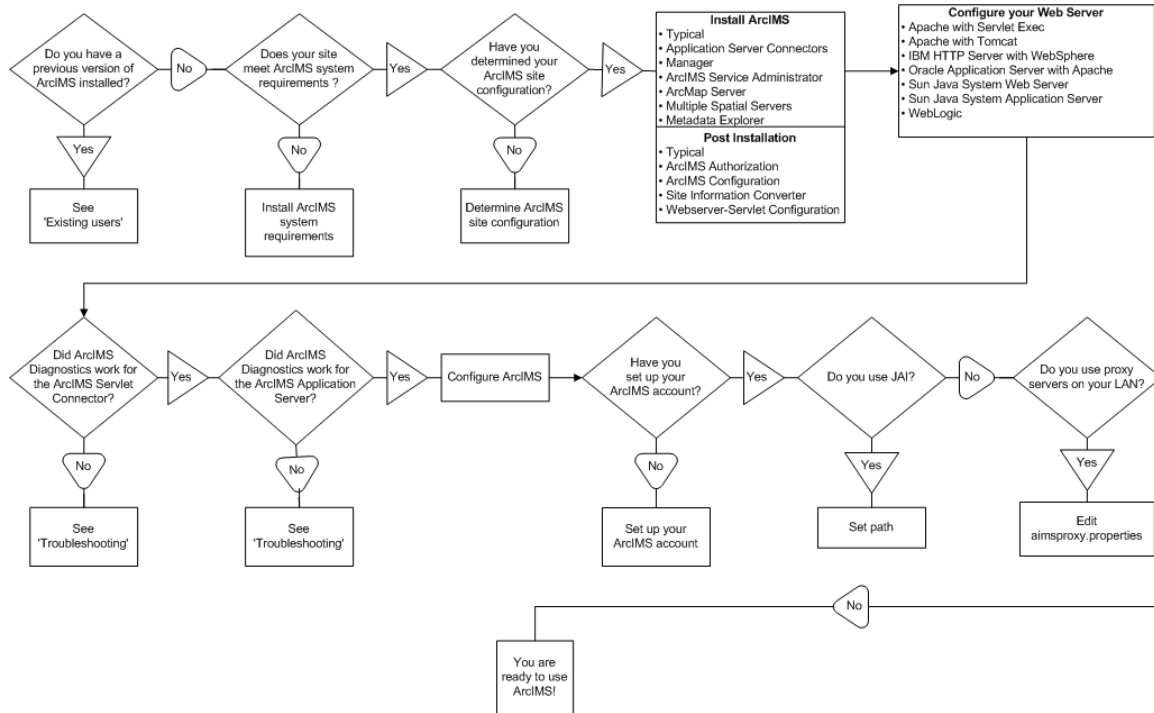
Visit the ArcIMS home page at [www.esri.com/software/arcims](http://www.esri.com/software/arcims) for the latest information about ArcIMS including a showcase of ArcIMS-enabled Web sites.



## **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](http://www.esri.com/education).

# Installation flowchart





# Upgrading to ArcIMS 9.0

## Existing ArcIMS users

Before installing ArcIMS 9.0, users should perform the following, depending on the version of ArcIMS installed.

**ArcIMS 3.1** users should be aware of the following:

- ArcIMS 9.0 creates a new directory named ArcIMS when installed. It is possible to have both ArcIMS 3.1 and ArcIMS 9.0 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 3.1](#) for details.
- The ArcIMS 3.1 files EsriMapCatalog.ser (configuration file for saved services) and EsriMapCookies.ser contain your ArcIMS preferences. The Site Information Converter converts these files to files called ArcIMSSite.sez and ArcIMSFolders.sez. The Site Information Converter can be selected to be installed. It is a sub-feature of the Application Server installation feature. Once installed the Site Information Converter is available as a option in the post installation setup. To run the converter, see [Site Information Converter](#).
- Java 2 Platform Standard Edition Java Runtime Environment (J2SE JRE) version 1.4.2 is installed with ArcIMS 9.0. The JRE installation location is <ArcIMS installation directory>/arcims/jre.
- See [Supported Software environments](#) for Web servers and Servlet Engines supported for ArcIMS 9.0.

See 'What's new with ArcIMS' in ArcIMS Help for information on the what's new at ArcIMS 9.0.

**ArcIMS 4.0** users should be aware of the following:

- ArcIMS 9.0 creates a new directory named ArcIMS when installed. It is possible to have both ArcIMS 4.0 and ArcIMS 9.0 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 is installed with ArcIMS 9.0. The JRE installation location is <ArcIMS installation directory>/arcims/jre.
- See [Supported Software Environments](#) for Web servers and Servlet Engines supported for ArcIMS 9.0.

See 'What's new with ArcIMS' in ArcIMS Help for information on the what's new at ArcIMS 9.0.

**ArcIMS 4.0.1** users should be aware of the following:

- ArcIMS 9.0 installs to a directory names ArcIMS. It is possible to have both ArcIMS 4.0.1 and ArcIMS 9.0 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 is installed with ArcIMS 9.0. The JRE installation location is <ArcIMS installation directory>/arcims/jre.
- See [Supported Software Environments](#) for Web servers and Servlet Engines supported for ArcIMS 9.0.

See 'What's new with ArcIMS' in ArcIMS Help for information on the differences between ArcIMS 4.0.1 and ArcIMS 9.0

## Upgrading Metadata to 9.0

At ArcIMS 9.0, 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 9.0. 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*.

# Step 1: Verify system requirements

## Step 1: Verify system requirements

The following system requirements are required to run ArcIMS on Solaris.

### Hardware configuration

#### Memory Requirements

Manager Applications	<ul style="list-style-type: none"><li>• 64 MB of RAM recommended</li></ul>
ArcIMS Application Server:	<ul style="list-style-type: none"><li>• 256 MB of RAM recommended</li></ul>
ArcIMS Spatial Server:	<ul style="list-style-type: none"><li>• 256 MB of RAM recommended per CPU</li></ul>
ArcIMS ArcMap Server:	<ul style="list-style-type: none"><li>• 512 MB RAM minimum required</li></ul>
HTML Viewers:	<ul style="list-style-type: none"><li>• 64 MB of RAM recommended</li></ul>
Java Viewers and ArcExplorer—Java Edition:	<ul style="list-style-type: none"><li>• 128 MB of RAM recommended</li></ul>
All components:	<ul style="list-style-type: none"><li>• 256 MB of RAM recommended per CPU</li></ul>

#### Disk Space Requirements

A typical installation	<ul style="list-style-type: none"><li>• 560 MB</li></ul>
A complete installation	<ul style="list-style-type: none"><li>• 1.35 GB</li></ul>

## Temp space requirements

The ArcIMS setup program requires 125 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.

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:

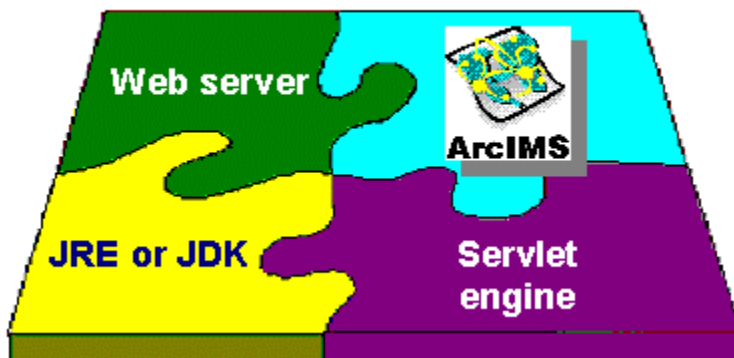
```
$ IATEMPDIR=/your/temp/space/directory
```

```
$ export IATEMPDIR
```

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

## System software

The following system software is required to run ArcIMS.



## Operating system

- Solaris 8
- Solaris 9

### 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.

## Web server and servlet engine

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=25867>.

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

ArcIMS is fully supported on the following Web servers:

- Apache Web Server for Solaris with Jakarta-Tomcat as its servlet engine (hereafter referred to as Tomcat)
- Apache Web Server for Solaris with ServletExec™ as its servlet engine
- Sun Java System (formerly Sun ONE)™ Web Server for Solaris using its native Java servlet engine
- Sun Java System (formerly Sun ONE) Application Server
- IBM HTTP Server with WebSphere® Application Server as its servlet engine
- Oracle® Application Server
- WebLogic® Application Server

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.

See [Supported Software Environments](#) for other Web servers and their ESRI support level.

### 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](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](#).

## Java 2 patches

Java 2 patches must be installed before operating Java 2 on Solaris.

- Patches and installation instructions are at <http://sunsolve.sun.com>

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

Java 2 Platform Standard Edition Java Runtime Environment (J2SE JRE) version 1.4.2 is installed with ArcIMS 9.0. J2SE JRE 1.4.2 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 9.0.

For the latest information on ArcIMS system requirements, see [support.esri.com](http://support.esri.com)

## Additional system requirements

### ArcIMS Spatial Server

ArcIMS Spatial Server requires an authorization file. See [To obtain an authorization file](#).

## ArcIMS Service Administrator requirements

The following software is required to use the ArcIMS Service Administrator:

- Java 2 Platform Standard Edition Software Development Kit (J2SE SDK) 1.3.1 or higher. The J2SE SDK is available from <http://java.sun.com/j2se>. Refer to your Web server documentation for supported J2SE SDK versions.

### Tip

- J2SE SDK 1.3.1\_03, 1.3.1\_04, 1.4.0\_01 and 1.4.0\_03 are NOT

recommended for use with ArcIMS 9.0.

## ArcIMS Metadata Service requirements

The following software is required to use the ArcIMS Metadata Service:

- ArcGIS 9.0 or higher
- ArcSDE 9.0 or higher for Oracle, DB2 and SQL Server

## ArcMap Server requirements

ArcMap Server on Solaris requires a MainWin runtime environment. The MainWin runtime environment can be installed by the ArcIMS setup.

To ensure that your system meets the requirements necessary for the MainWin runtime, run the following script:

```
<CD_ROOT>/ArcIMS/mwTools/checkRequirements
```

ArcMap Server also requires OpenGL version 1.2 or higher.

The following software is required to use the ArcMap Server:

- If ArcSDE data (only) is used, ArcGIS 8.2 or higher is needed to create the map documents that can be served in ArcIMS.
- If file based data is used, ArcGIS 9.0 is needed to create the map documents that can be served in ArcIMS.

ArcIMS Spatial Server and ArcMap Server require an authorization file. See [To obtain an authorization file](#).

## Metadata Explorer requirements

The following software is required to use the Metadata Explorer:

- Java 2 Platform Standard Edition Software Development Kit (J2SE SDK) 1.3.1 or higher. The J2SE SDK is available from <http://java.sun.com/j2se>. Refer to your Web server documentation for supported J2SE SDK versions.

### Tip

- J2SE SDK 1.3.1\_03, 1.3.1\_04, 1.4.0\_01 and 1.4.0\_03 are NOT recommended for use with ArcIMS 9.0.

## Web browser for ArcIMS Viewers

- HTML Viewer: Netscape Communicator 7
- The Java Viewers require that a one time download including the Java 2 Plug-in and ArcIMS Viewer be installed.
- Java Standard Viewer: Netscape Communicator 7
- The Java Custom Viewer doesn't run in Netscape Communicator.

### Tips

- See [Supported Software Environments](#) for the latest support information.
- All Web pages created on Sun Solaris can be viewed on Windows. See the ArcIMS install guide for Windows for Web browser requirements on Windows.

## Fonts

### Tip

- To install Chinese HKSCS font, see [Chinese HKSCS Font](#) topic.

## ArcIMS Application Server Connectors

ArcIMS Application Server requires the following optional software if you will be creating custom Viewers using ColdFusion or JSP:

### ColdFusion Connector

- ColdFusion MX 6.0 (As a self-contained server).
- Development Environment: ColdFusion Studio 4.5.1, 4.5.2 or 5.0.
- Not all the Web servers that are supported by ArcIMS are supported by ColdFusion. The following Web servers are supported by ArcIMS and ColdFusion:
  - Microsoft IIS
  - Apache
  - Sun Java System (formerly Sun ONE)

For ArcIMS system requirements see the ESRI support site at <http://support.esri.com/index.cfm?fa=software.filteredGateway&PID=16>

For ColdFusion MX, see [http://livedocs.macromedia.com/coldfusion/6/Installing\\_ColdFusion\\_MX/installing\\_3.htm#1159877](http://livedocs.macromedia.com/coldfusion/6/Installing_ColdFusion_MX/installing_3.htm#1159877) for more information.

**Tips**

- If you install ColdFusion MX Updater, some versions of Apache Web Server may please see <http://www.macromedia.com/support/coldfusion/releasenotes/mx/releasenotes.html#installApache> for more information.
- Apache.org has released an updated version of their 2.0 product (2.0.39) which ColdFusion MX and JRun 4.0 users upgrading this version to also apply patches. older mod\_jrun20.so modules with Apache 2.0.39 will cause Apache to fail to start. [http://www.macromedia.com/devnet/security/security\\_zone/mpsb02-07.html](http://www.macromedia.com/devnet/security/security_zone/mpsb02-07.html) for more information.

For ColdFusion information, see *Customizing ArcIMS—Using the ColdFusion Connector* on the ArcIMS CD.

**Java Connector**

- Java 2 Platform Standard Edition Software Development Kit (J2SE SDK) 1.3.1 or higher. The J2SE SDK is available from <http://java.sun.com/j2se>. Refer to your Web server documentation for supported J2SE SDK versions.

**Tip**

- J2SE SDK 1.3.1\_03, 1.3.1\_04, 1.4.0\_01 and 1.4.0\_03 are NOT recommended for use with ArcIMS 9.0.

For Java Connector information, see *Customizing ArcIMS—Using the Java Connector*.

**ArcSDE**

The following versions of ArcSDE are supported by ArcIMS:

**Metadata users only**

- ArcSDE 9.0 or higher for Oracle, DB2 and SQL Server

**Other users**

- ArcSDE 8.0.x, ArcSDE 8.1.x, ArcSDE 8.2, or ArcSDE 8.3 or higher.
- ArcSDE for Coverages 8.0.x, 8.1.x, 8.2, or 8.3.

**To view ArcIMS map services in ArcGIS**

ArcGIS 8.1.2 or higher is needed. ArcGIS 8.1.2 will only work if msxml3.dll is present and registered on the client machine. For information on obtaining msxml3.dll see the [ESRI Knowledge Base article 22313](#).

## ArcIMS 9.0 for Solaris Install Guide

Note: If ArcIMS and ArcGIS are on the same machine, they must be of the same version.

## **To obtain an authorization file**

Visit <https://service.esri.com> for information on obtaining an authorization file.



## **Step 2: ArcIMS configuration**

### **Step 2: 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.

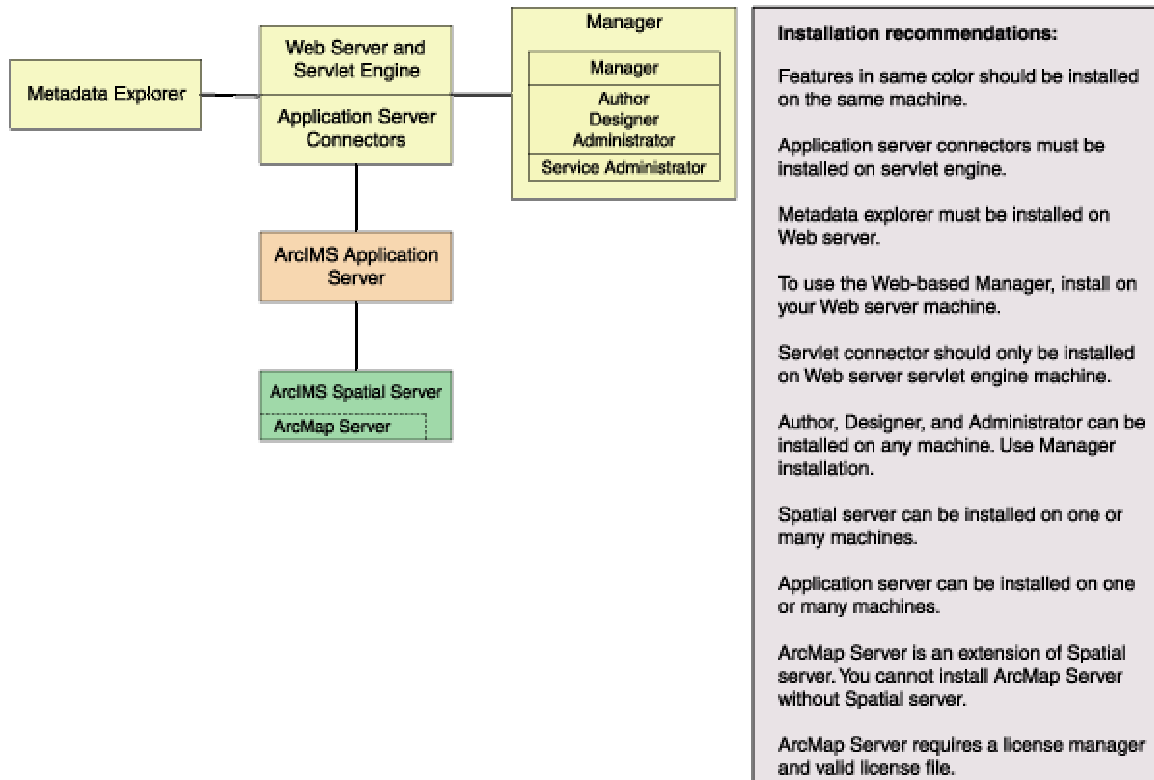
An ArcIMS site consists of one or more computers where the ArcIMS host (ArcIMS Manager (includes Manager, Manager Applications and Service Administrator), Application Server Connectors and ArcIMS Application Server), ArcIMS Spatial Servers and data reside. The Application Server Connectors, ArcIMS Application 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 and Solaris 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 9.0. The Application Server service is installed with the ArcIMS Application Server.
- ArcIMS Monitor 9.0. The Monitor service is installed with Spatial Server and ArcSDE Services Monitor.
- ArcIMS Tasker 9.0. 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](#)

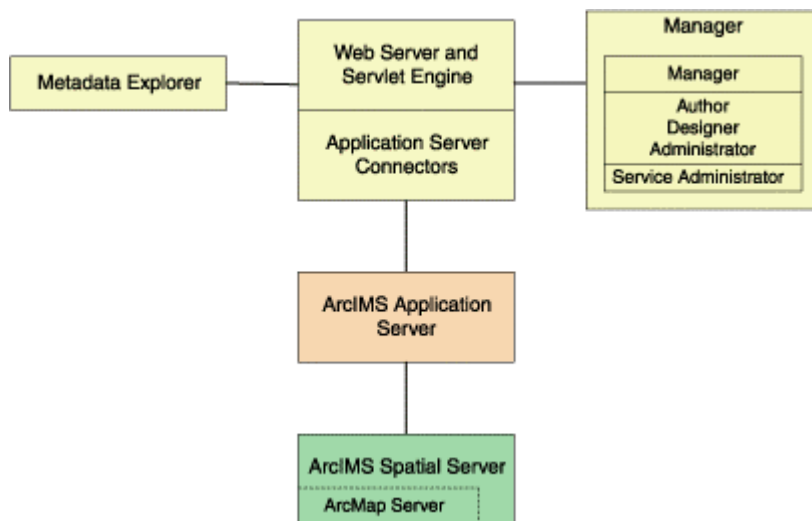
[Multiple Application Servers](#)

### **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

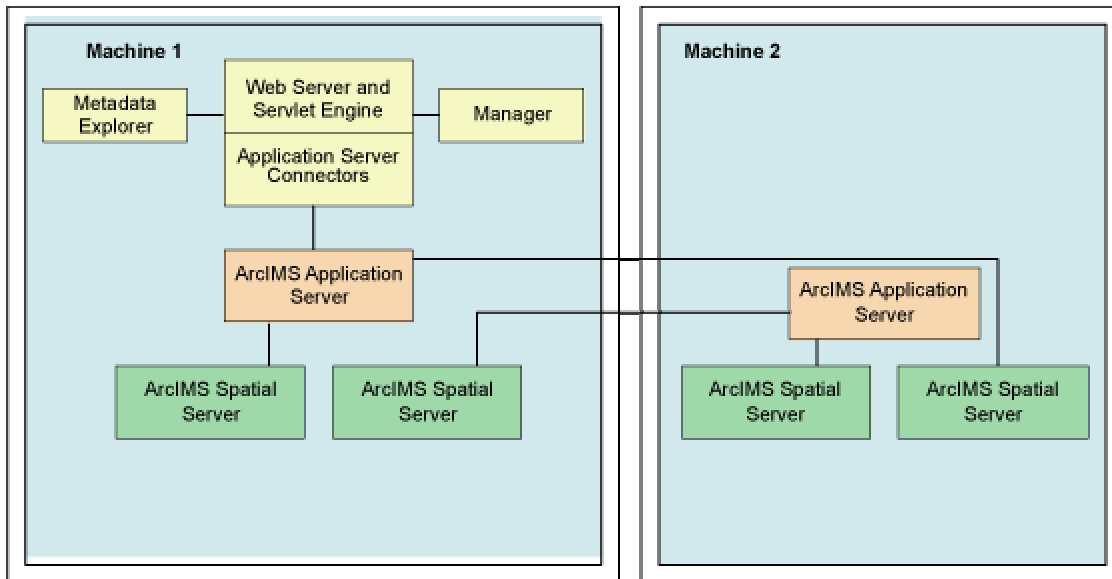
Additional ArcIMS Spatial Servers can be added to the ArcIMS site configuration, as the number of requests increases, if redundancy needs to be built in or to optimize performance.

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.

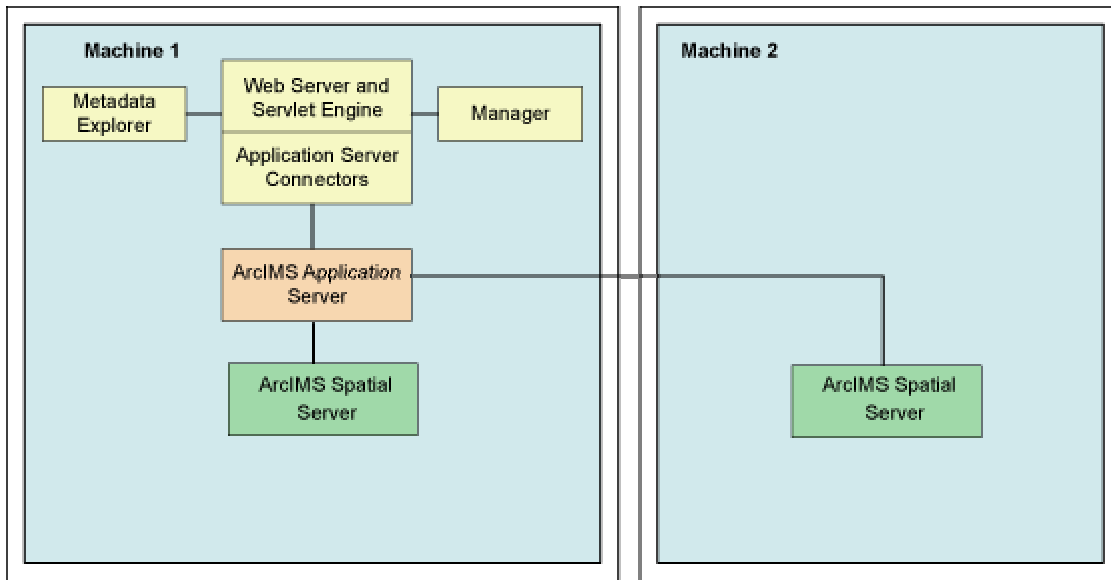
Spatial Servers can be distributed across an ArcIMS site in several ways as illustrated below.

- 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](#).

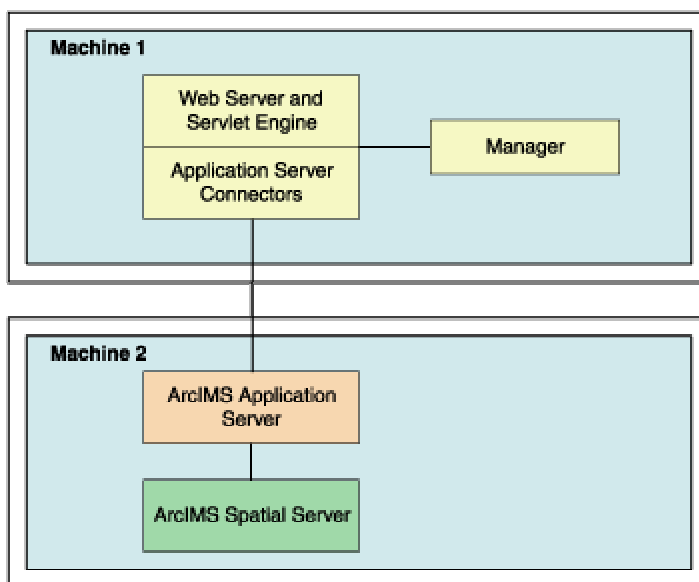
- This configuration illustrates two ArcIMS Spatial Servers on multiple machines.



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.

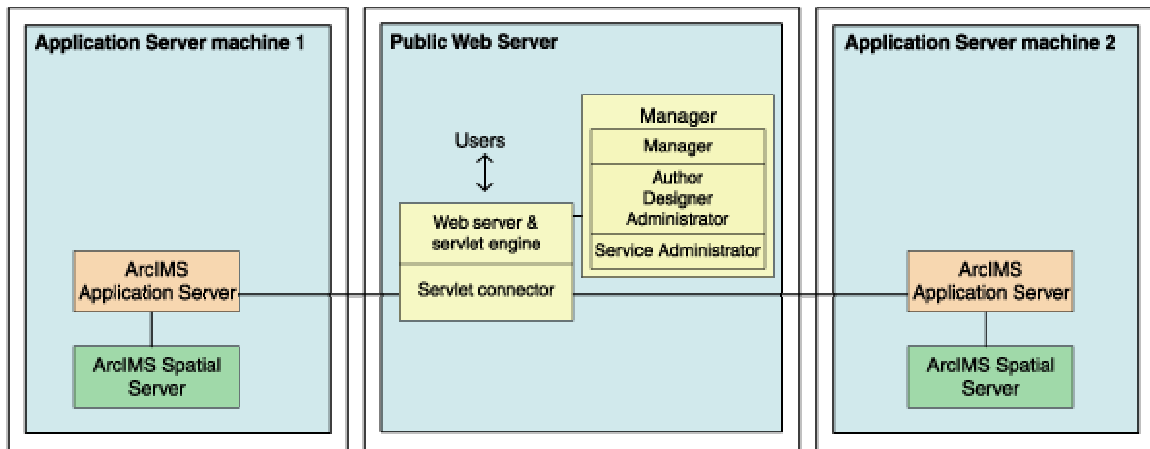
### Multiple ArcIMS Application Servers

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.

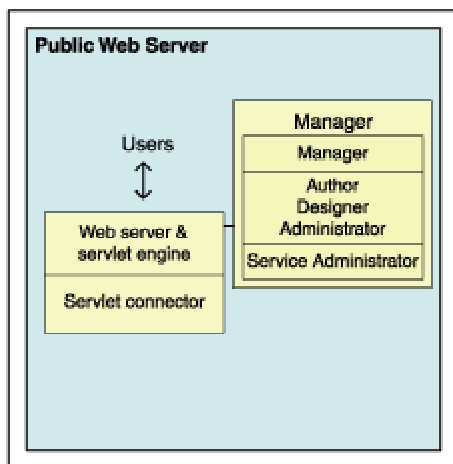
For high-volume implementations of ArcIMS, it is possible to have a single Web server communicate with several Application Servers in round-robin or failover configuration. If used for round-robin, the Application Server will rotate requests among the specified Application Servers. If used for failover, 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=25867>.  
**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.

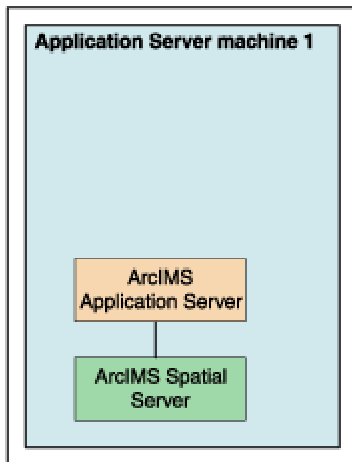
Select to install Manager

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

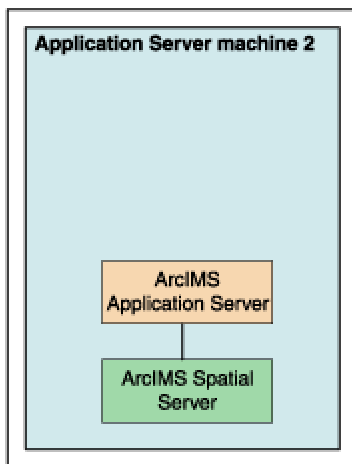


This will be the main Application Server machine. This machine will host the ArcIMS Application Server and the ArcIMS Spatial Server. The service Administrator will be used to administer this ArcIMS Application Server. We will also create an identical set up on another machine, which will be the back-up 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 6.0 (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.

The screenshot shows the 'Settings for New Service' web interface. At the top, there are four tabs: 'Home', 'Manage Services', 'Add Service' (which is active), and 'Configure Site'. Below the tabs are links for 'Help' and 'Save Startup File'. The main form area is titled 'Settings for New Service' and contains the following fields:

- Name:** A text input field containing 'myservice'.
- Virtual Server:** A dropdown menu showing 'ImageServer1 - Image'.
- File Path:** A text input field containing '//publicwebserver/ArcIMS/Axl/myservice.axl' and a 'Browse...' button.

---

Below a horizontal line, there is a section titled 'Settings for Image and Metadata Services' with the following fields:

- Output File Path:** A text input field containing '//publicwebserver/ArcIMS/Output'.
- Output URL:** A text input field containing '//publicwebserver/output'.
- Clean Up Interval:** A dropdown menu showing 'Every 10 Minutes'.
- Image Format:** A dropdown menu showing 'JPEG (.JPG)' with a note '\*Image Services only'.
- Image Memory Limit:** A dropdown menu showing '4 MB - Pixels:1048576 (1024 x 1024)' with a note '\*Image Services only'.

At the bottom of the form is a 'Create' button.

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

# Step 3a: Installing ArcIMS 9.0

## Step 3a: Installing ArcIMS overview

The ArcIMS 9.0 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 9.0, both the installation and post installation must be completed.

### To install ArcIMS 9.0

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 ArcMap Server](#)

[Installing multiple ArcIMS Spatial Servers](#)

[Installing additional ArcIMS Monitors](#)

[Installing Metadata Explorer](#)

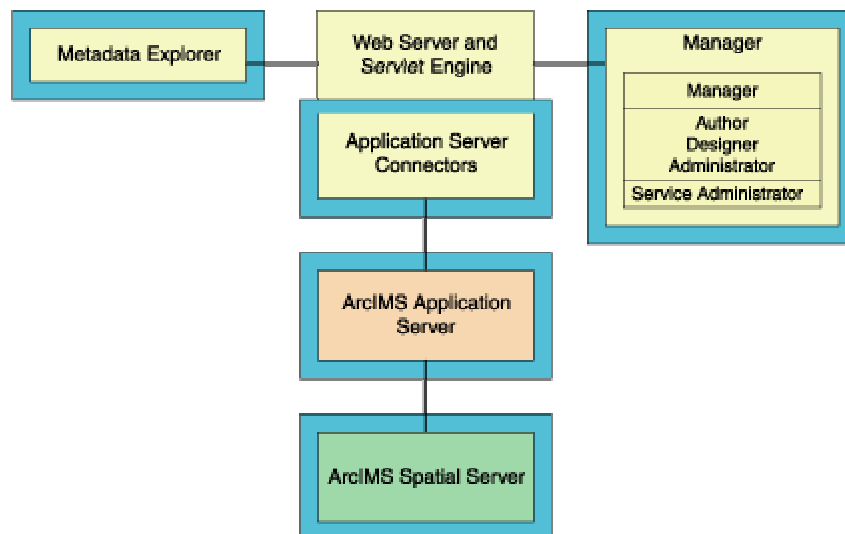
[Installing ArcIMS in console mode](#)

## 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.

ArcIMS Spatial Server requires an Authorization file, you will be required to browse to the location of the authorization file during the post installation setup. See the topic [To obtain an authorization file](#).



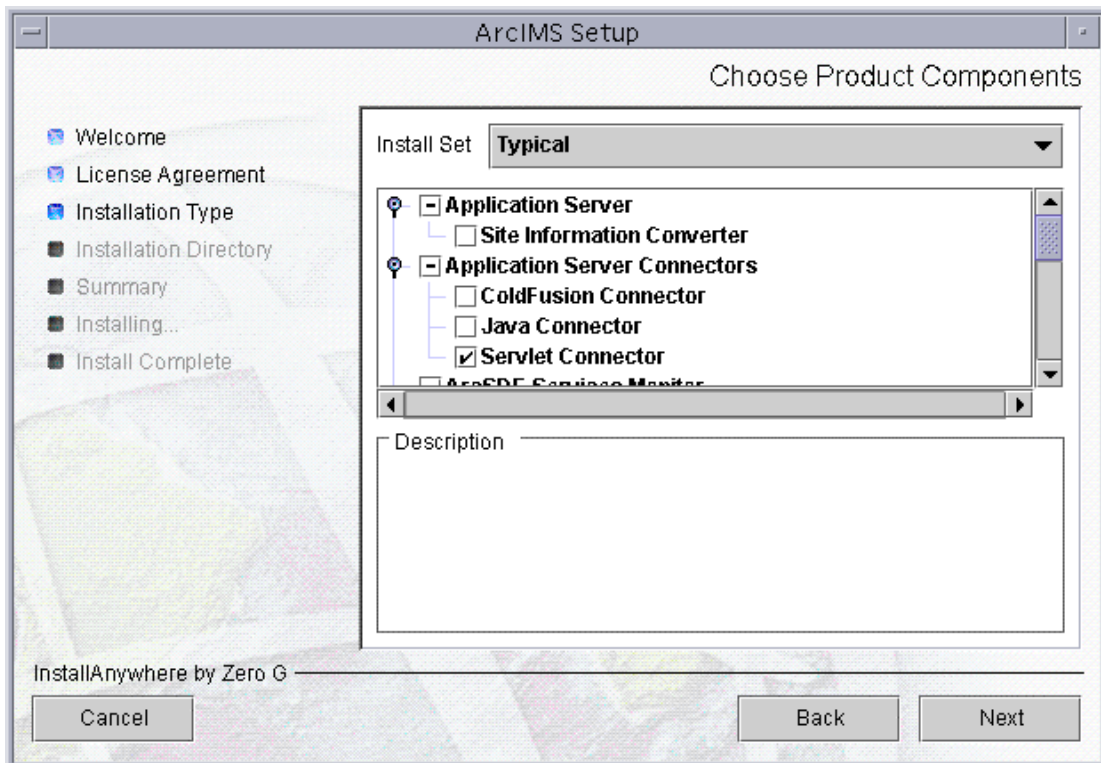
## How to prepare to install ArcIMS

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](#)

[ArcIMS Authorization](#)

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/openwin/lib/X11/fonts/TrueType. 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>

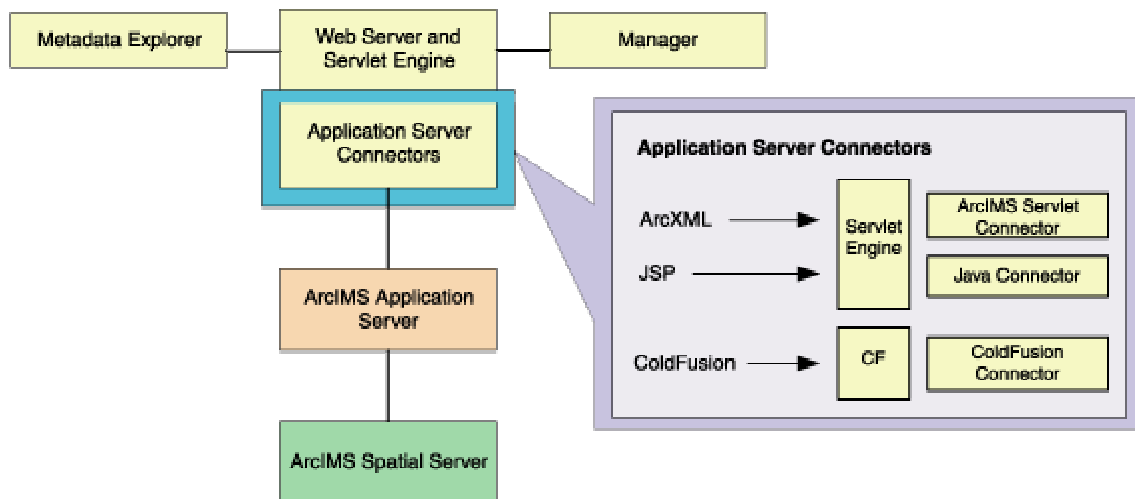
- When choosing to install ArcIMS Metadata Explorer or ArcIMS Manager Applications, you do not have to install the Java connector because the files are included with these installation features.



## 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 Solaris are ArcIMS Servlet Connector, ColdFusion Connector and Java 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 is installed with the Servlet connector see the [WMS connector](#) section for steps to enable ArcIMS to work within the OGC WMS 1.1.1 specification.

Use the ColdFusion Connector if you plan to embed ColdFusion applications in your Web pages. The Java Connector communicates with the ArcIMS Application Server and a JSP client.

See [System requirements](#) for requirements for the ColdFusion connector.

### 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.

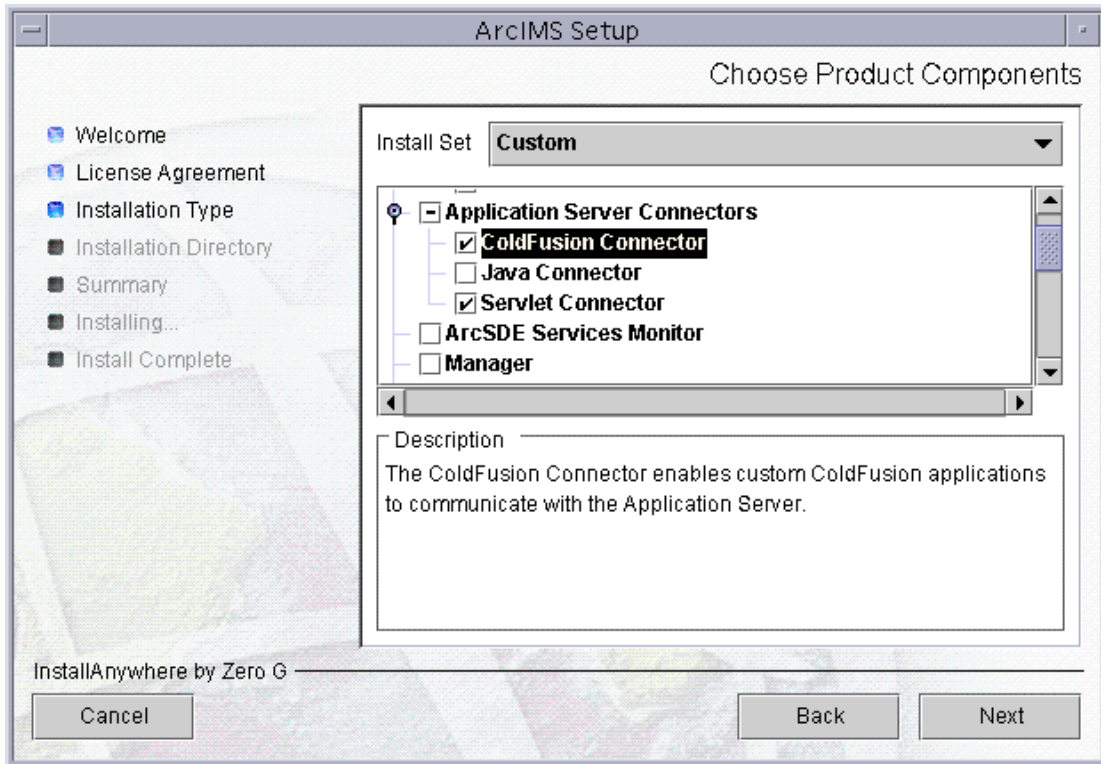
## How to prepare to install ArcIMS custom Application Server Connectors

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 ColdFusion Connector, Java Connector and Servlet 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.
- The OGC WMS Connector can also be downloaded from:  
<http://www.esri.com/software/opengis/interopdownload.html>

- **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 ColdFusion Connector](#)

[ArcIMS Java Connector](#)

[ArcIMS Servlet Connector](#)

[WMS connector](#)

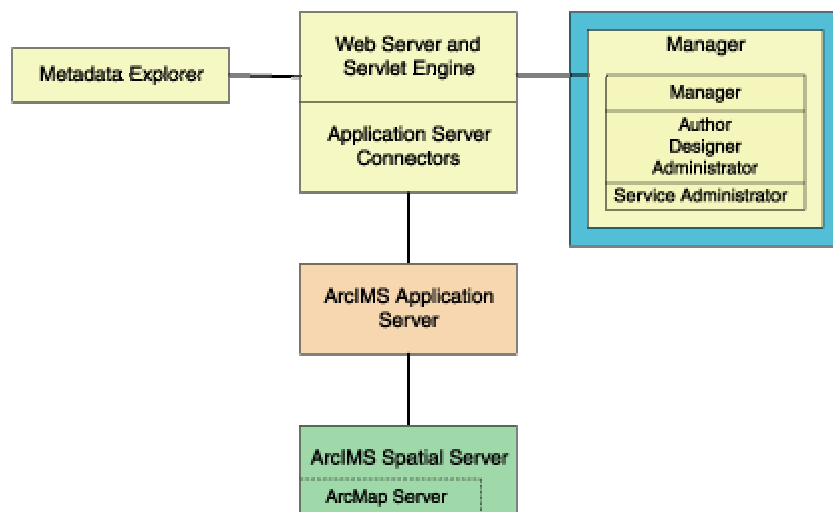
**Tips**

- To install the Z39.50 Connector see [Installing Metadata Explorer](#).

## 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

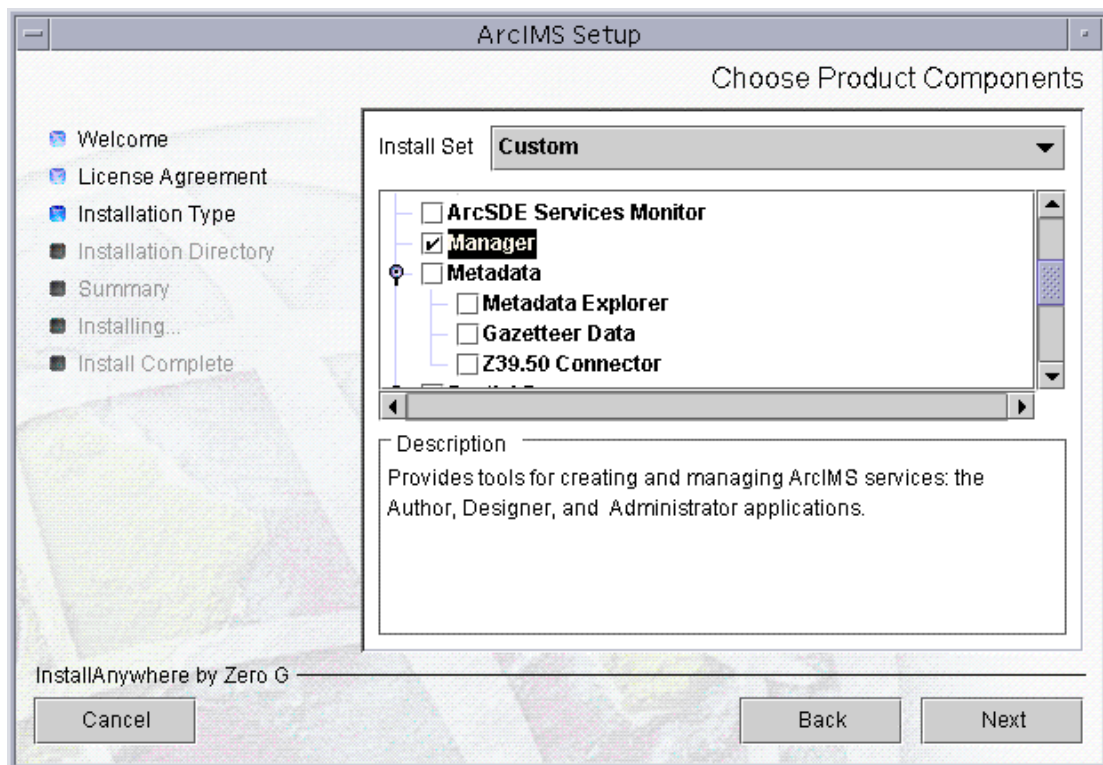
- **Note:** These instructions describe an ArcIMS Manager Applications only installation. To install ArcIMS Spatial Server, ArcIMS Application Server, and Application Server Connectors, refer to [Performing a typical installation](#).

## 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.

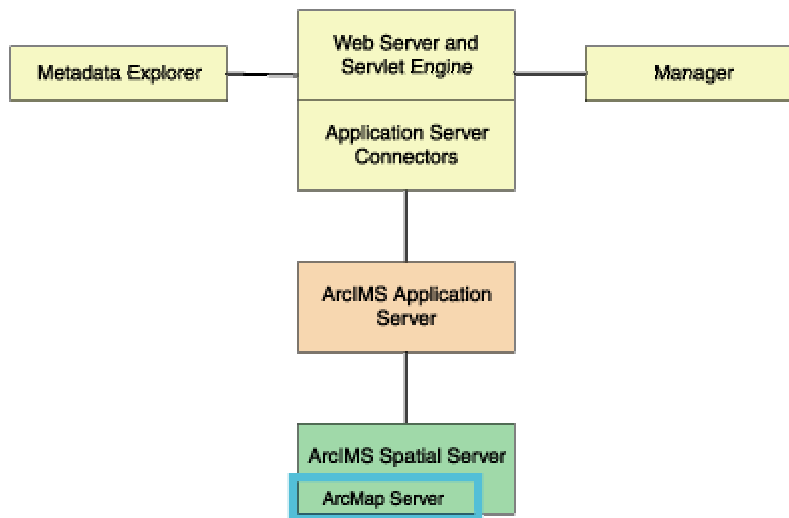
### How to set up your machine to administer ArcSDE Services

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 ArcMap Server

ArcIMS ArcMap Server, installed as a sub-feature of ArcIMS Spatial Server, allows users to create maps in ArcMap and serve them over the internet via an ArcIMS Web site. Services created with ArcMap Server, called ArcMap Image Services, can be viewed using the same client viewers as ArcIMS Image and Feature Services. ArcMap Server requires an Authorization file.



If installing ArcMap Server as part of a distributed system, you will need to also set up your ArcIMS Host Machine. See [Installing multiple Spatial Servers](#) (Installing and Configuring your ArcIMS Host Machine, and Additional Configuration of the ArcIMS Host Machine), for information on setting up your ArcIMS Host Machine.

### Tips

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

## ArcIMS Authorization file

ArcIMS Spatial Server and ArcIMS ArcMap Server require an authorization file for use. Each machine installing these features will require a unique authorization file. For information on obtaining an authorization file, see the topic [To obtain an authorization file](#).

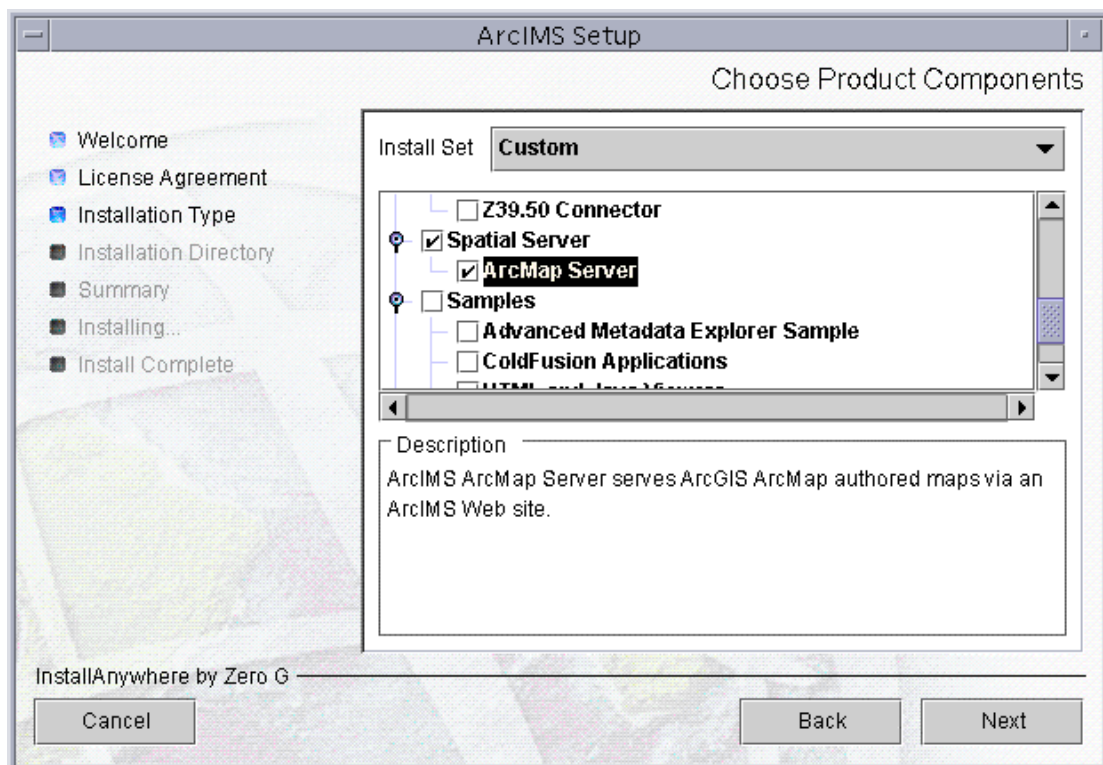
If you install ArcIMS Spatial Server and/or ArcIMS ArcMap Server, the post installation option ArcIMS Authorization will configure your machine using the authorization file you received from Customer Service.

## How to prepare to install ArcMap Server

1. Obtain an authorization file for the machine you will install ArcMap 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 ArcMap Server

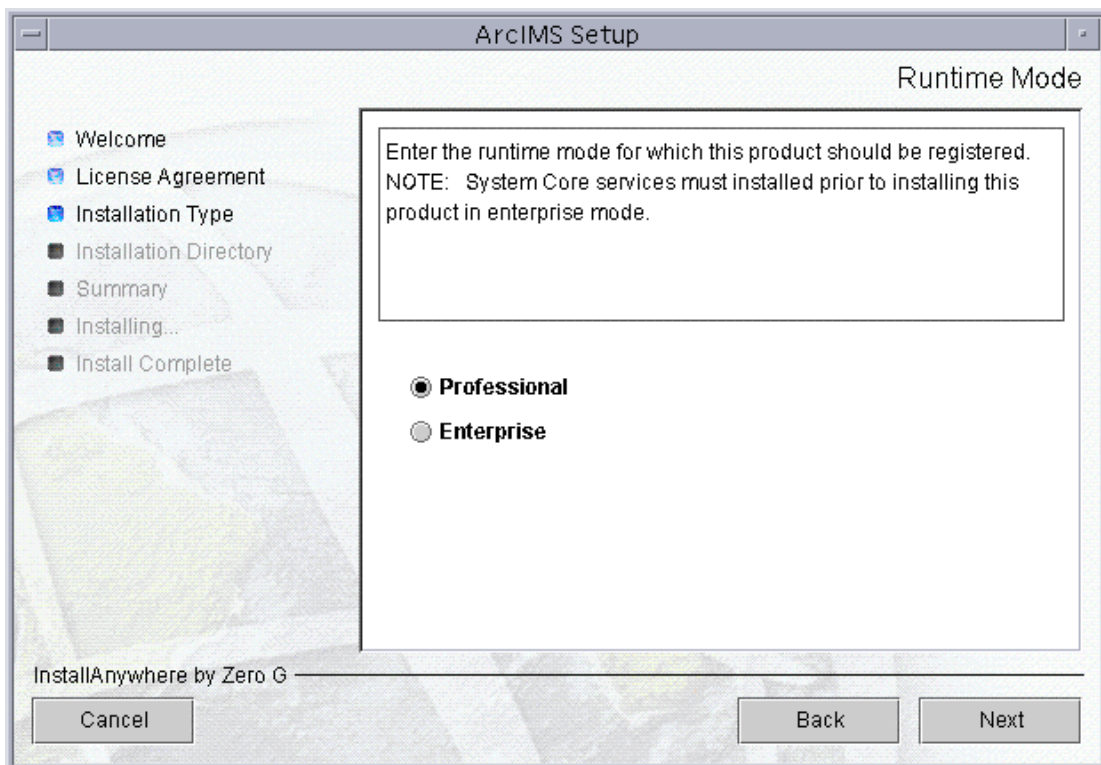
- During the installation you will be asked to read the license agreement and accept it, or exit if you don't agree with the terms.
- At the Select Features dialog box, expand the Spatial Server to view the sub-features. Spatial Server contains the ArcMap Server sub-feature. Select the ArcMap Server sub-feature to install.



- An ArcMap Server sample is also available for installation. Expand the Samples feature and select ArcMap Server Sample. Click on the dropdown arrow to the left of the ArcMap Server Sample sub-feature. From the list, select Will be installed on local hard drive to install the ArcMap Server sample.

The setup program will verify that all MainWin runtime system requirements have been met. If your system does not meet system requirements, the setup program will display a warning dialog referencing a log file (\$HOME/MWSysReq.log) identifying the missing required system components. ArcMap Server may not be installed correctly if you continue the setup program without meeting the MainWin runtime system requirements.

- After selecting the ArcMap Server feature to install, a dialog box for MainWin Runtime Mode will appear. The MainWin runtime environment is required to use ArcMap Server. See [Step 1: Verify system requirements](#) for ArcMap Server requirements.



- By default, Professional is selected as the MainWin runtime mode for which ArcMap Server should be registered. If MainWin runtime is not installed on your machine, the ArcIMS setup will install and register it for you. To install MainWin runtime in Enterprise mode MainWin System Core (MSC) services

must be installed and running. To install MainWin System Core services, run the following script as root: <CD\_ROOT>/support/msc/SetupMSC

- Select the MainWin runtime mode you will be using.
- To complete the installation, follow the directions on your screen.

**Tip**

- If you will be accessing ArcGIS Server data you will need to use Enterprise runtime mode. See [Step 1: Verify system requirements](#) for more information on ArcMap Server requirements.

- **Complete the post installation setup**

The following ArcIMS post installation options are required to successfully install ArcIMS ArcMap Server:

[ArcIMS Configuration](#)

[ArcIMS Authorization](#)

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.

**Tips**

- The Spatial Server uses TrueType fonts located in:

/usr/openwin/lib/X11/fonts/TrueType. 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>

- For information on using ArcMap Server see *ArcIMS Help*.
- If you installed ArcMap Server, and ImageServerArcMap1 is not available in the Virtual Server list of Administrator, you must manually

create the ArcMap virtual Server. See *ArcIMS Help* for information on creating the ArcMap virtual server.

- To determine the status of MSC services:

```
mwadm start
```

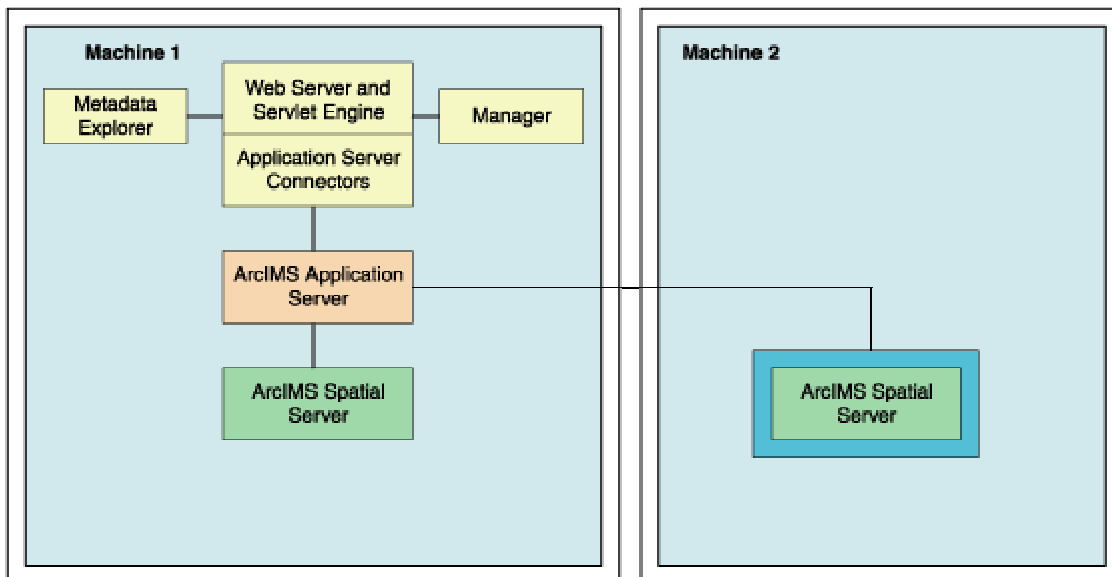
```
mwadm stop
```

```
mwadm status
```

## 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](#).

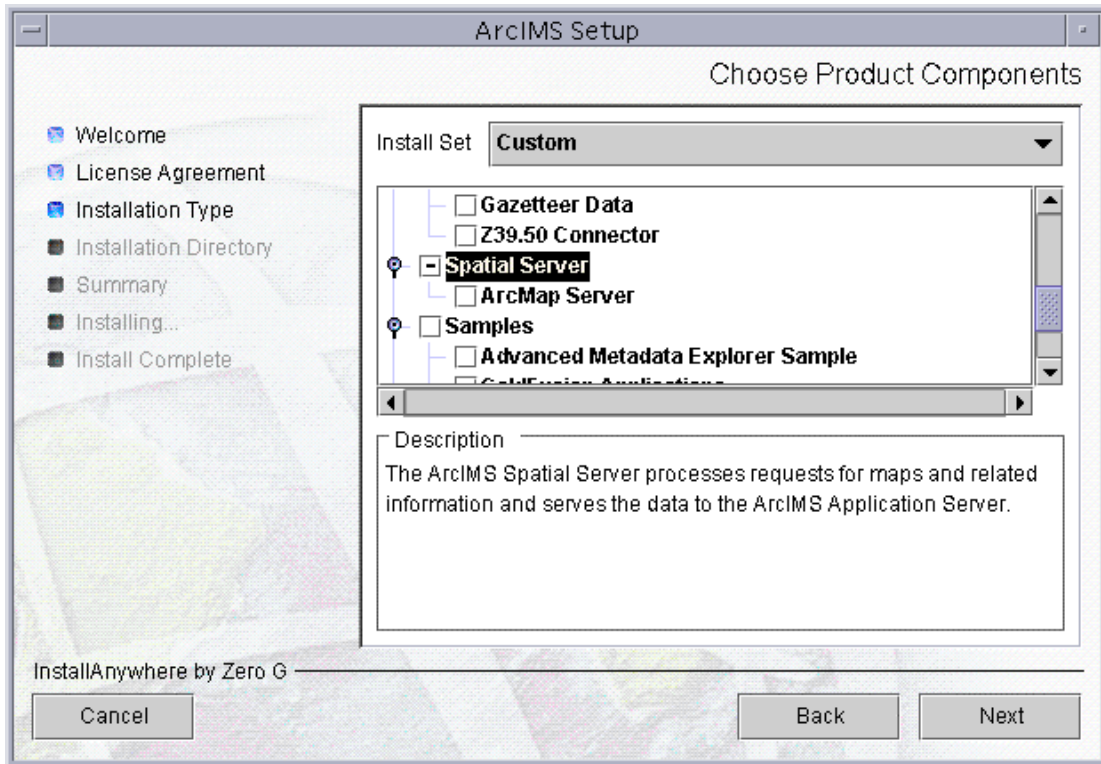
If you installed ArcIMS Spatial Server, the post installation option ArcIMS Authorization will configure your machine using the authorization file you received from Customer Service.

## 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 &`
  - To start the ArcIMS Monitor process at system boot, refer to the instructions provided in the file \$AIMSHOME/Xenv/aimsmonitor.
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 9.0 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/openwin/lib/X11/fonts/TrueType`.



## 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

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/jsde8  
2_sdk.jar:$AIMSHOME/Manager/lib/jsde82_sdkres.jar:$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.

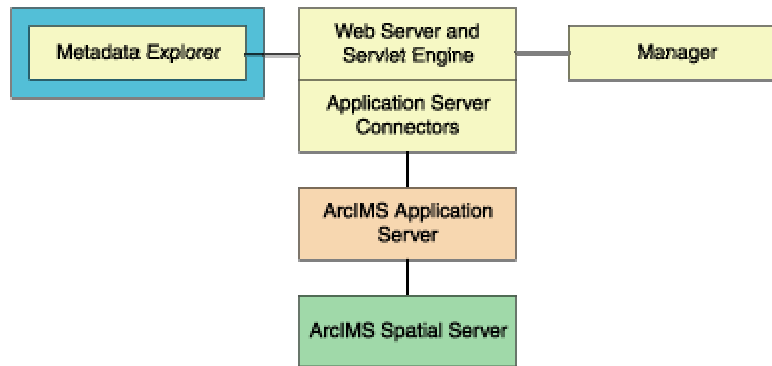
## Step #3: Run aimsmonitor2

aimsmonitor2 start &



## Installing ArcIMS Metadata Explorer

In this installation scenario, you install Metadata Explorer and Gazetteer data to view metadata from an ArcIMS Metadata Service. Java 2 Platform Standard Edition Software Development Kit (J2SE SDK) is required for ArcIMS Metadata Explorer.



### Tip

- These instructions describe a Metadata Explorer and Gazetteer data 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.

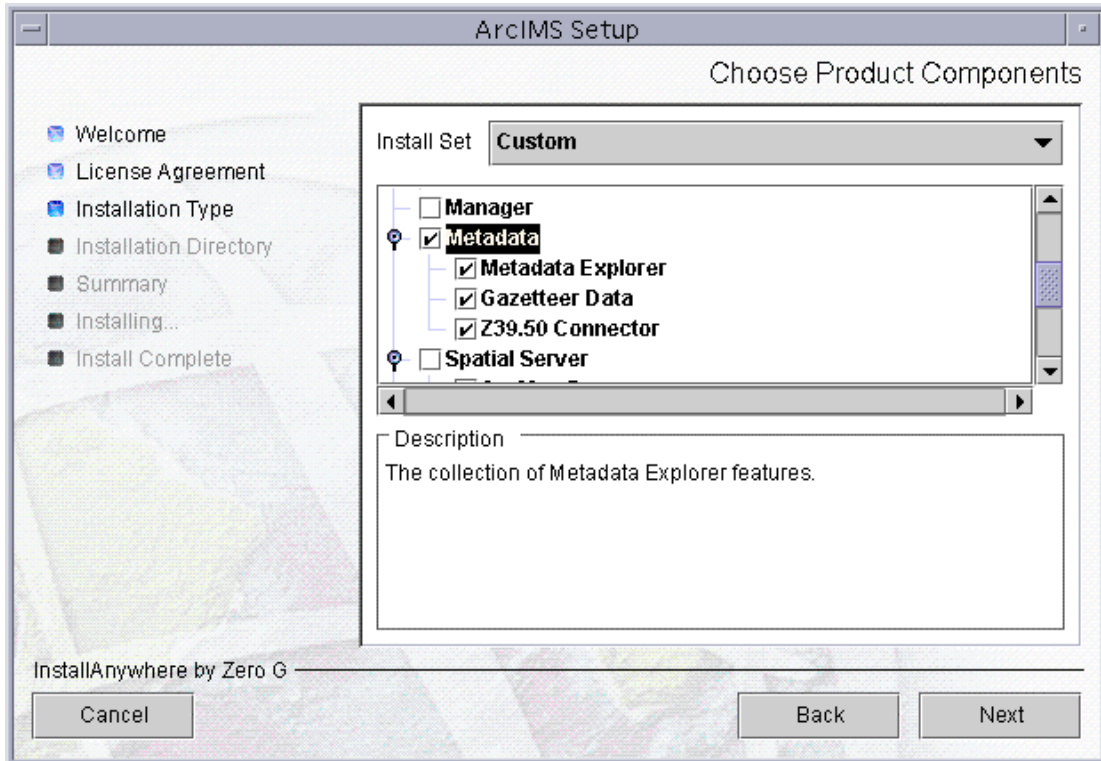
### How to prepare to install ArcIMS Metadata Explorer

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 and the Z39.50 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**

- 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](#).
- 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.

## **Instalilling 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:

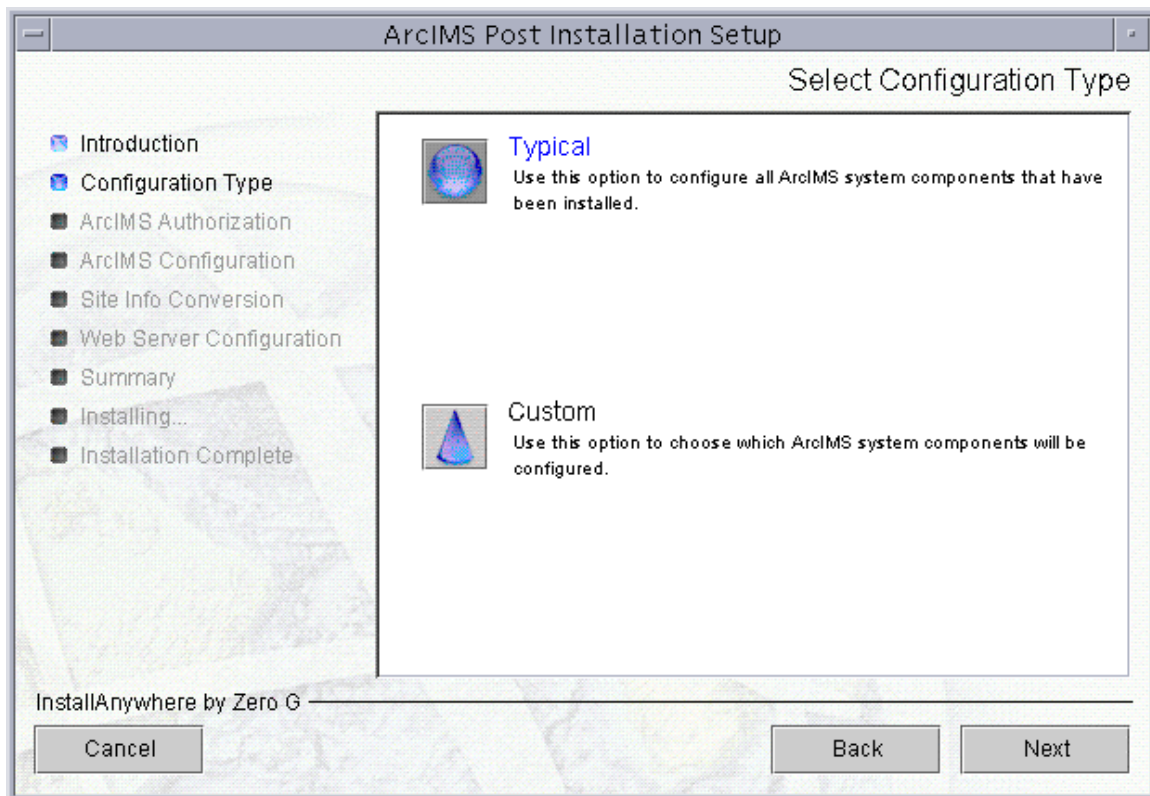
1. Use the following command: `./SetupArcIMS -c`
2. Follow the directions on your screen to install ArcIMS.
3. Launch the post installation setup in console mode using the following command: `./SetupArcIMS_PostInstall -c`
4. Follow the directions on your screen to complete the post installation setup.
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

### Step 3b: Post installation overview

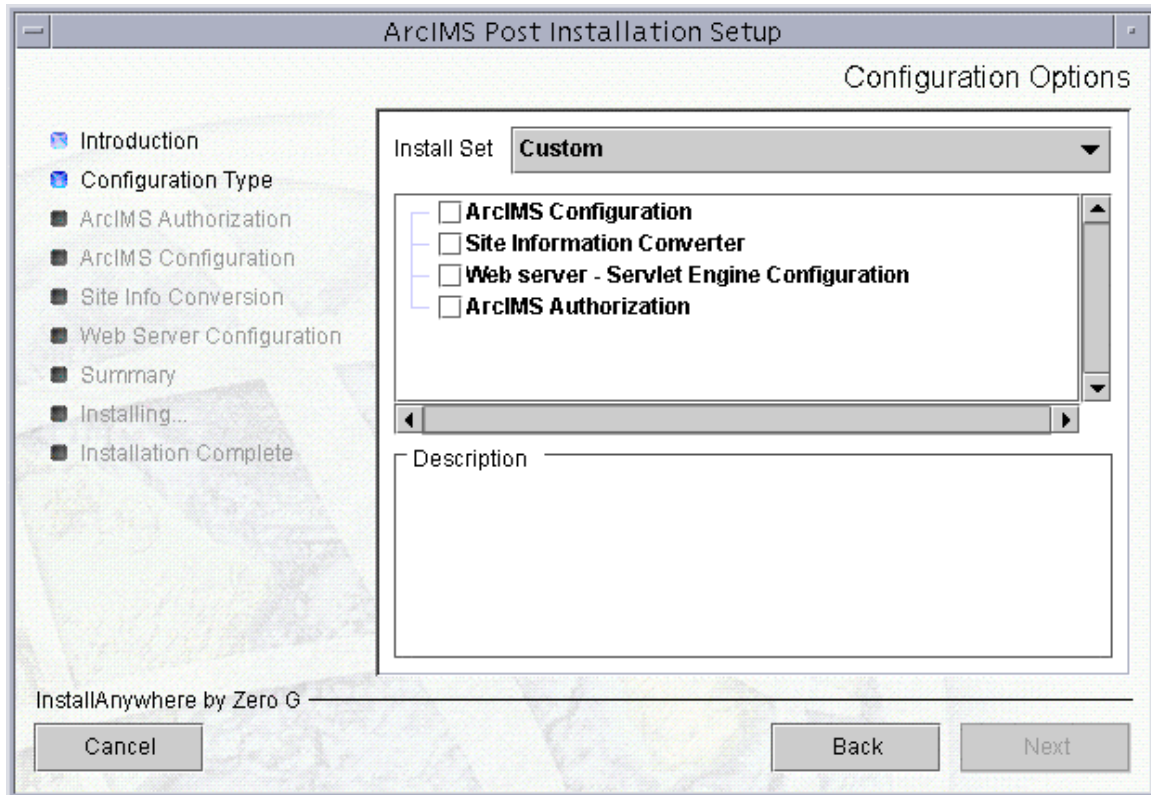
You must complete the ArcIMS post installation setup to successfully configure your ArcIMS installation for use. You can complete the post installation during the initial installation, or you can run the post installation setup at a later time by running the `arcims/tools/SetupArcIMS_PostInstall` script.

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 9.0 offers the following post installation setup options:

[ArcIMS Configuration](#)

[Site Information Converter](#)

[Web Server-Servlet Engine Configuration](#)

[ArcIMS Authorization](#)

## ArcIMS Authorization

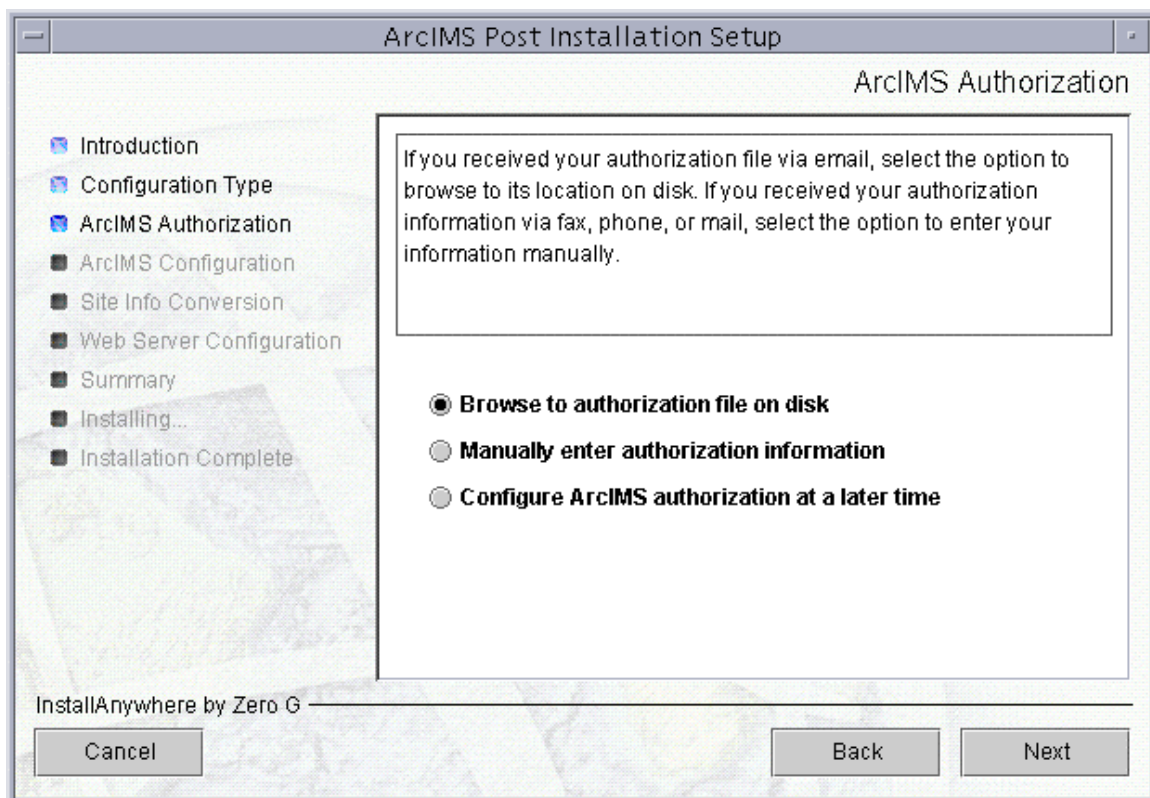
ArcIMS Spatial Server and ArcIMS ArcMap Server require an authorization file for use. Each machine installing these features will require an authorization file. For information on obtaining an authorization file, see the topic [To obtain an authorization file](#).

If you installed ArcIMS Spatial Server and/or ArcIMS ArcMap 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/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:

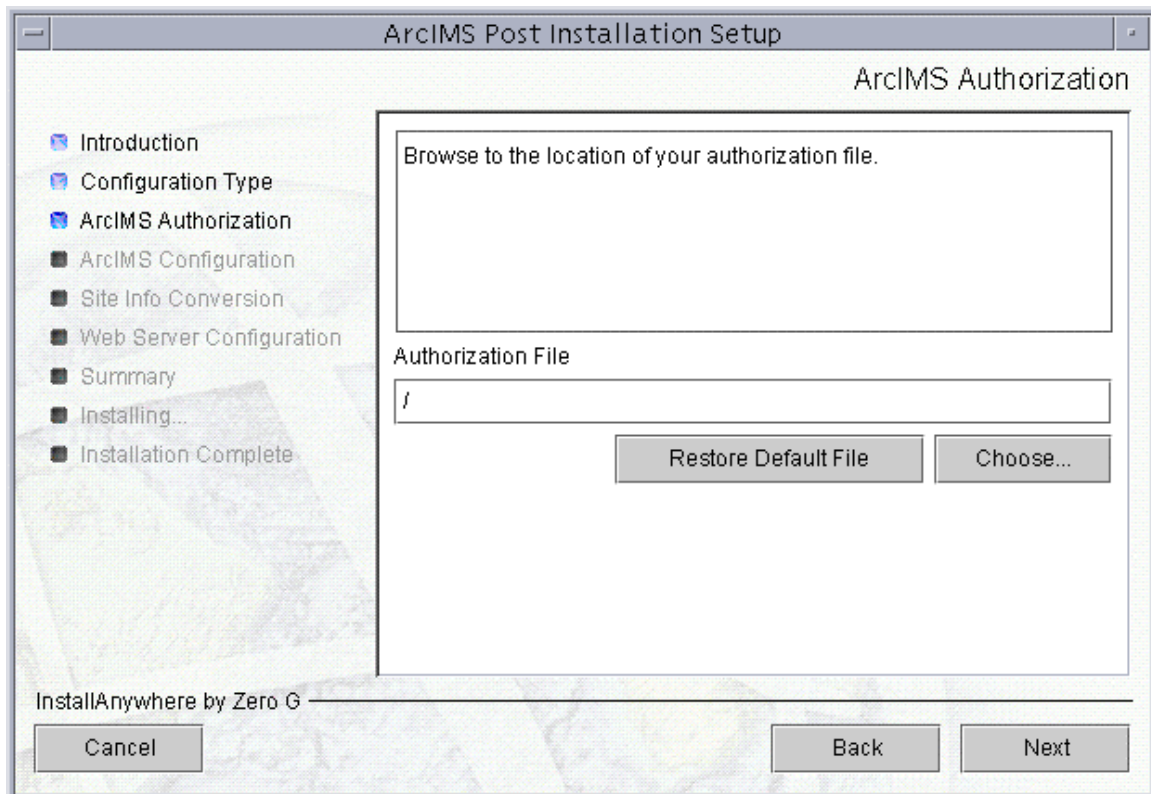


- Browse to the location of the authorization file
- Manually enter the authorization information

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 ArcMap Server or 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.

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)

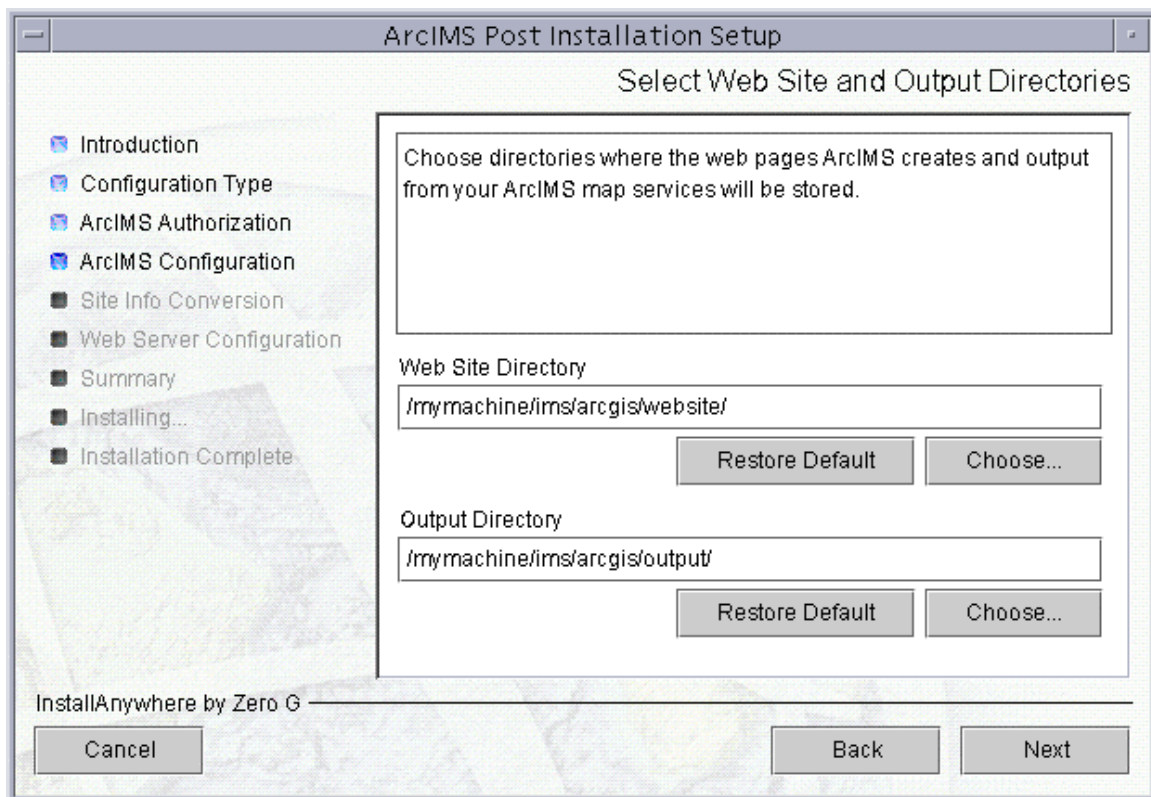
- Feature name
- License version
- Time-out date
- Registration number
- License key



## 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**

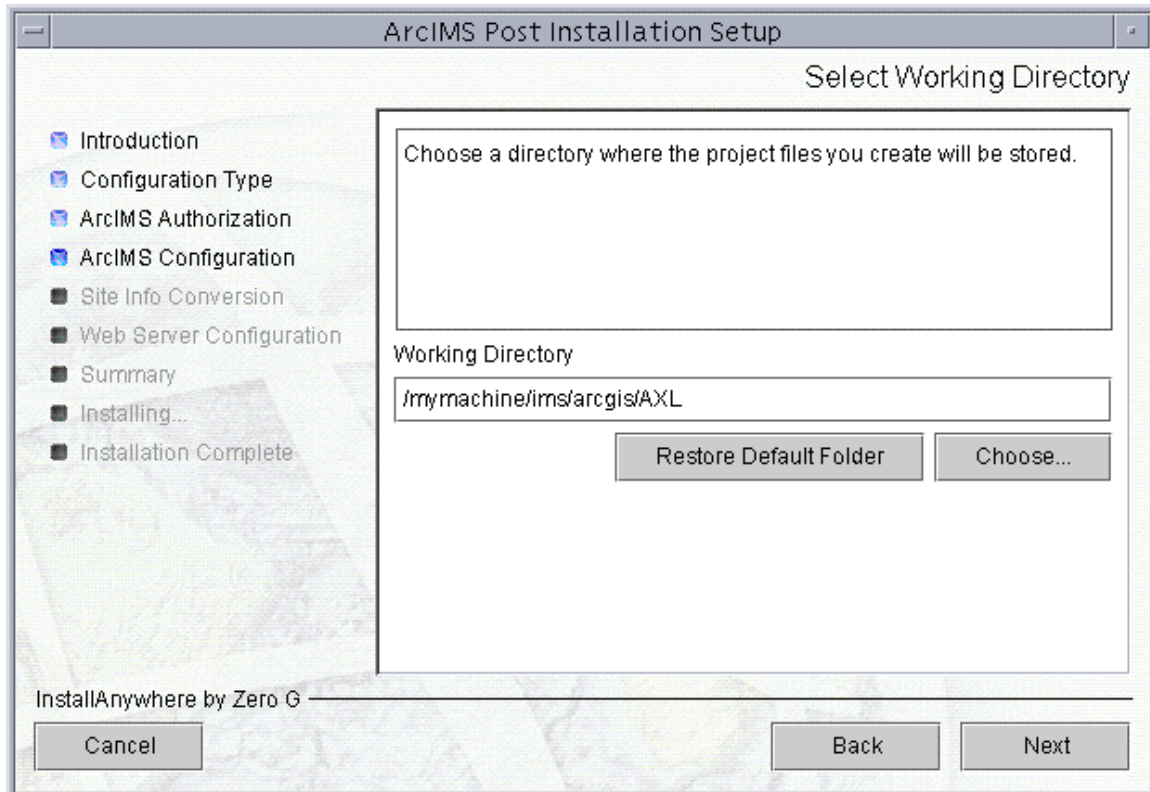


Your ArcIMS Web sites will be stored in the website directory. Provide a location to store your ArcIMS Web sites, or accept the default location. A website directory will be created in this location.

### Step 3b: ArcIMS post installation setup

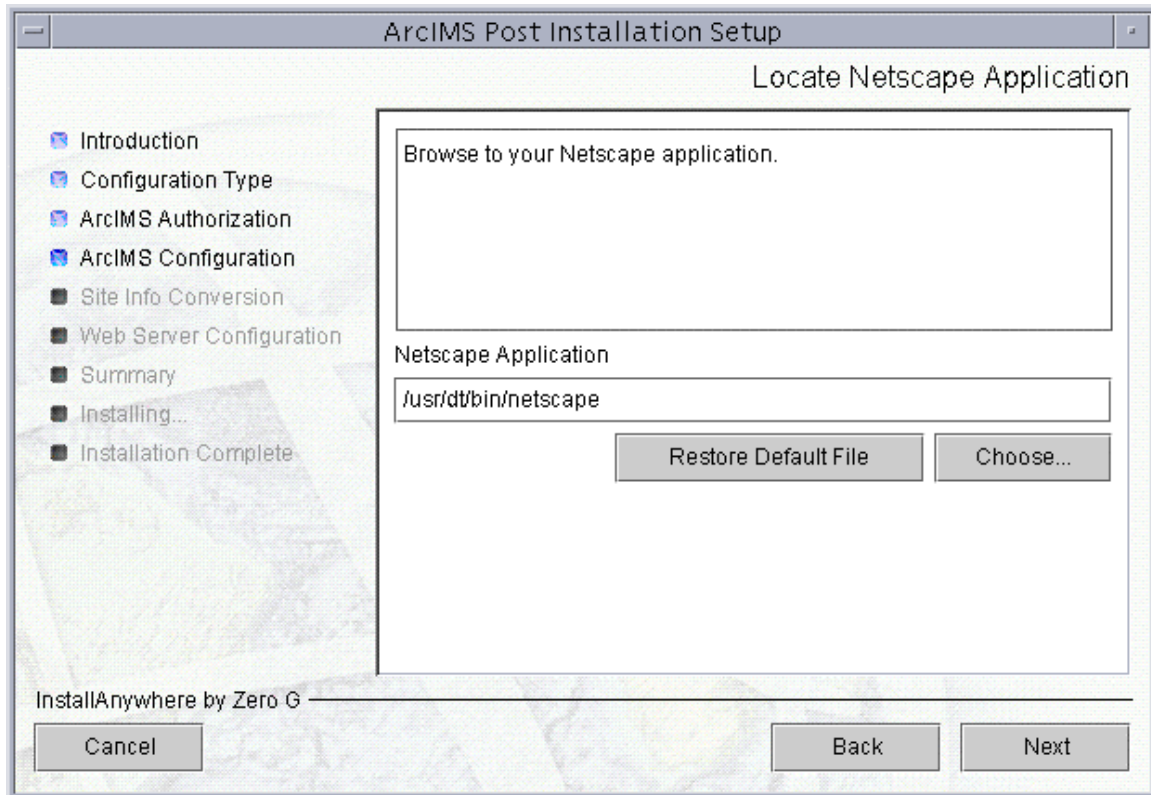
Your ArcIMS Web site output will be stored in the output directory. Provide a location to store your ArcIMS Web site output files, or accept the default location. An output directory will be created in this location.

- **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**

### Step 3b: ArcIMS post installation setup

ArcIMS Post Installation Setup

Select Web Server Host Name and Protocol

Enter the host name and the protocol used by your ArcIMS Web server host computer.

Web Server Host Name  
mymachine.esri.com

Protocol  
☒ http ☐ https

InstallAnywhere by Zero G

Cancel Back Next

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**

ArcIMS Post Installation Setup

Application Server Information

Enter your application server host name, registry port, and connector port.

Application Server Host Name: rrymachine

Registry Port: 5353

Connector Port: 5300

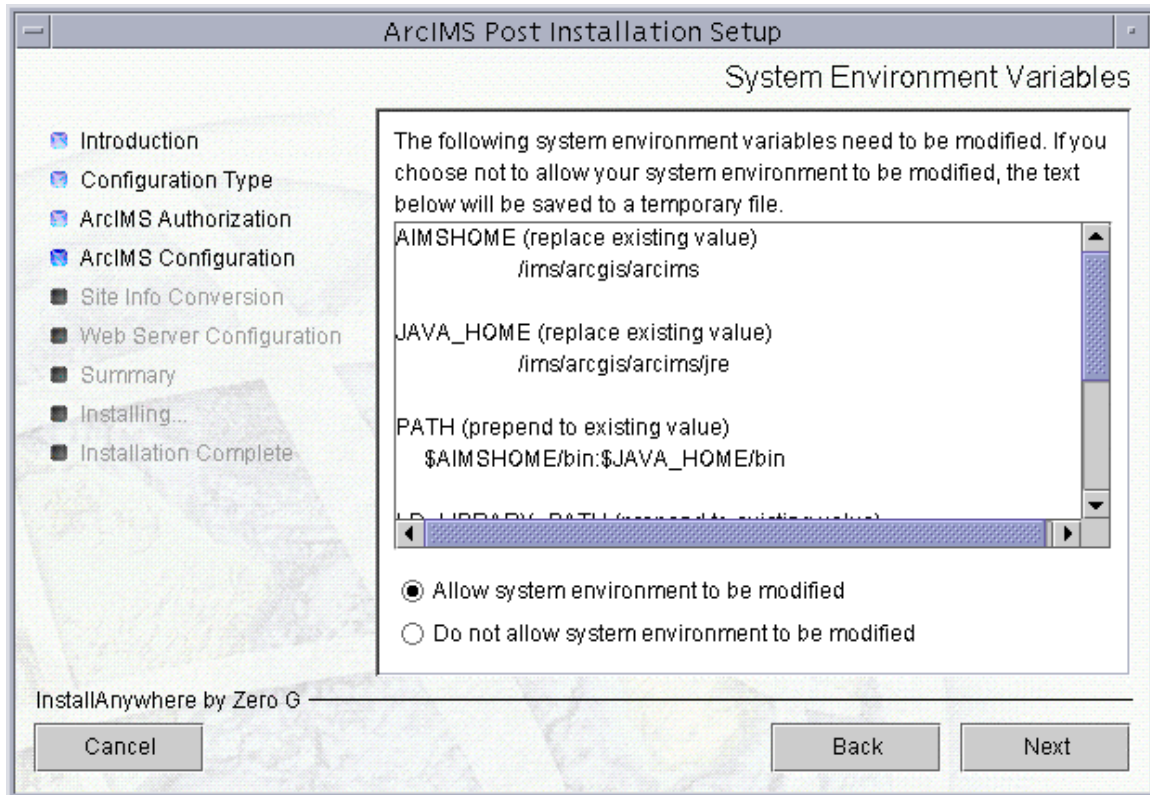
InstallAnywhere by Zero G

Cancel Back Next

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`

`LD_LIBRARY_PATH =`

`$AIMSHOME/lib:$AIMSHOME/bin:$AIMSHOME/raster/bin/sun4sol`

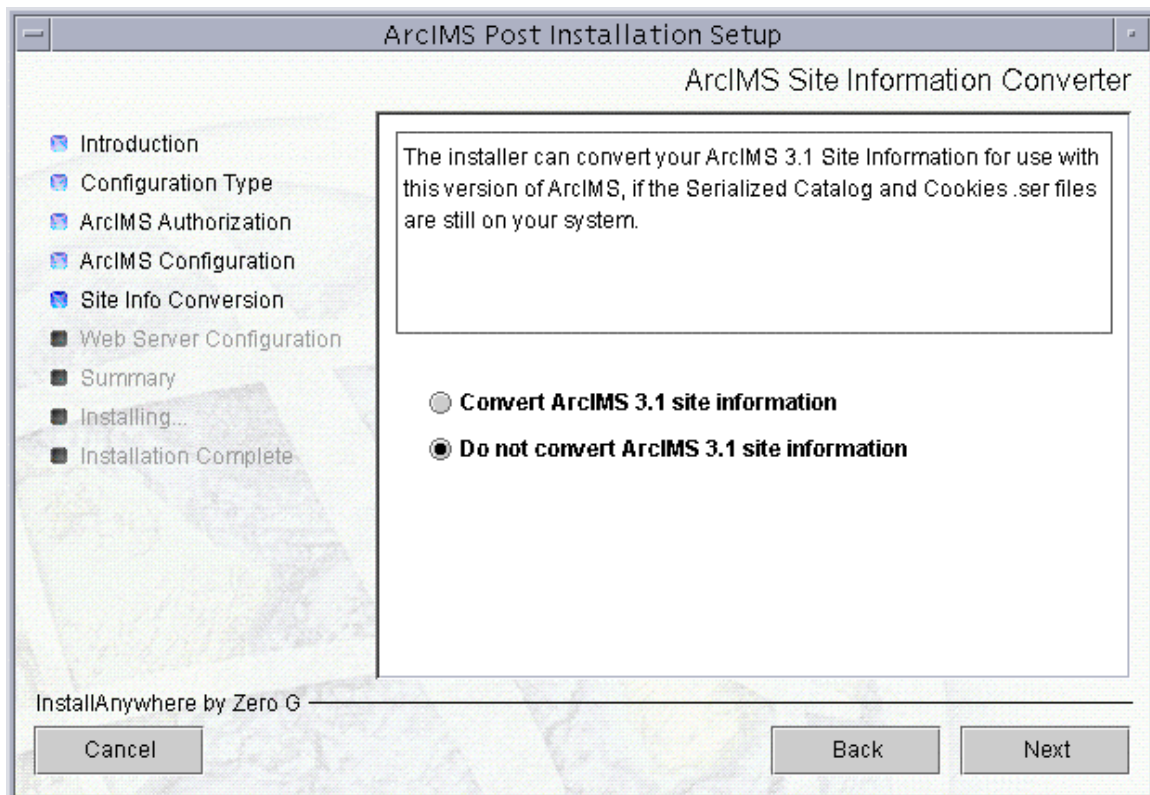
For additional information see [Setting up your ArcIMS account](#).

## Site Information Converter

This post installation option is only available if the Site Information Converter was selected to be installed. By default the Site Information Converter is not selected to be installed. To install the Site Information Converter, at the Select Features dialog box, expand the Application Server feature to view the sub-features. Application Server contains the Site Information Converter sub-feature. Select the Site Information Converter sub-feature to install. To access the Select Features dialog box after installation, execute the SetupArcIMS script located on the ArcIMS CD. 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.

The Site Information Converter can be used to convert existing ArcIMS 3.1 Site Information for use with ArcIMS 9.0. The serialized EsrimapCatalog.ser and EsrimapCookies.ser files will be replaced by ArcIMSSite.sez and ArcIMSFolders.sez, respectively.

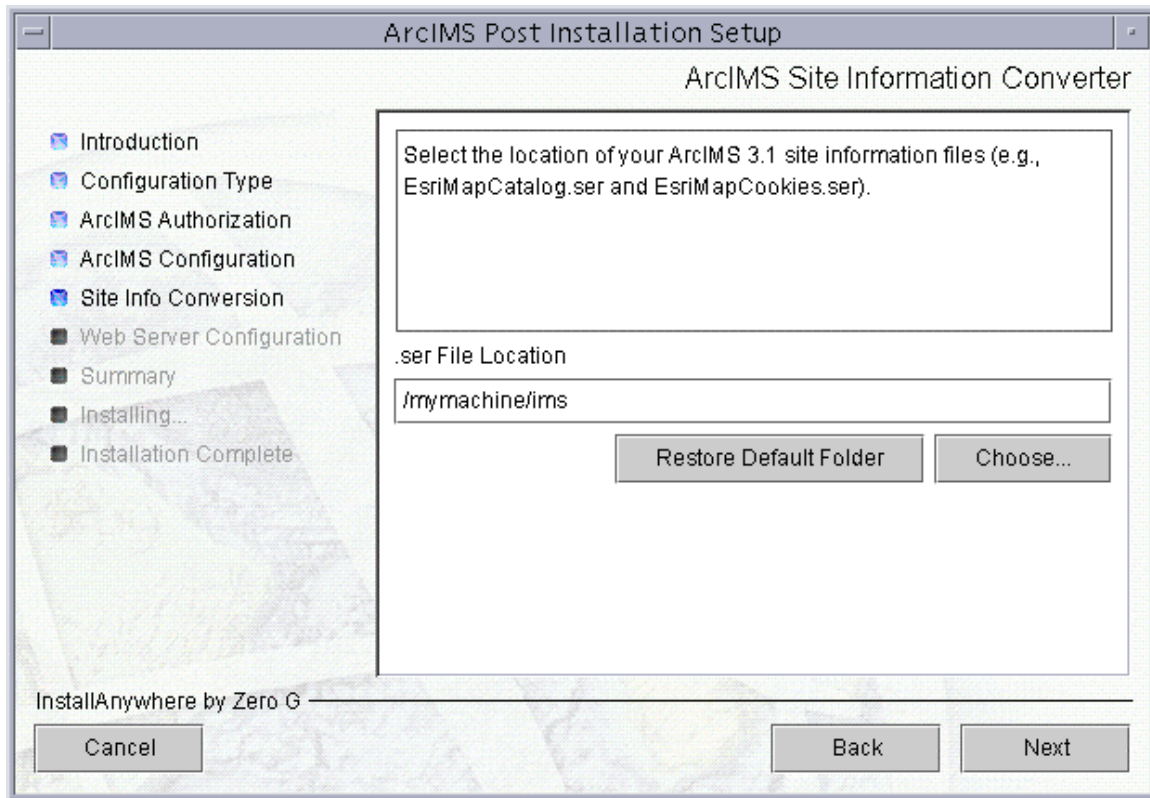
- **Select Convert ArcIMS 3.1 Site Information**



The ArcIMS 3.1 EsrimapCatalog.ser file is the ArcIMS site configuration file that stores the information about the servers that are started and the services that are

running. The ArcIMS 3.1 EsrimapCookies.ser file contains ArcIMS folders such as MapNotes and EditNotes. Starting at ArcIMS 4.0, these files have been replaced by ArcIMSSite.sez and ArcIMSFolders.sez, respectively. Before uninstalling ArcIMS 3.1, it is recommended that you back up your ArcIMS EsrimapCatalog.ser and EsrimapCookies.ser files.

- **Browse to the location of your ArcIMS 3.1 serialized files**



The ArcIMS 9.0 post installation setup will prompt you for the location of the EsrimapCatalog.ser and EsrimapCookies.ser files and will convert them to ArcIMSSite.sez and ArcIMSFolders.sez files. The newly created \*.sez files will contain ArcIMS 3.1 site information that can be used by the ArcIMS 9.0 Application Server. Note that the existing EsrimapCatalog.ser and EsrimapCookies.ser files will not be deleted.

If you choose not to convert the files in the post installation, you can manually convert \*.ser files using the SerConverter utility. The ArcIMS 9.0 installation program installs a SerConverter utility with a typical installation and where ArcIMS Application Server or ArcIMS Spatial Server are installed.

After completing the ArcIMS 9.0 installation, you can manually convert the \*.ser files to \*.sez files using the SerConverter utility as follows:

1. Stop the ArcIMS Tasker, ArcIMS Monitor, and ArcIMS Application Server processes in that order:



```
./aimstasker stop  
./aimsmonitor stop  
./aimsappsrvr stop
```

2. Edit the SerConverter.properties file. In a text editor, open the \$AIMSHOME/Middleware/SerConverter.properties file and change the line  
workingDirectory=<ArcIMS Installation  
Directory>/Middleware/SerConverter to the full path to the location of your  
ArcIMS 9.0 SerConverter folder.
3. Change the line inputDirectory=<Installation Path to ArcIMS  
3.1>/Middleware/Application\_Server to the full path of the location of your  
ArcIMS 3.1 \*.ser files.
4. Change the line outputDirectory=<ArcIMS Installation  
Directory>/arcims/Middleware/Application\_Server to the full path of the  
location of your ArcIMS 9.0 Application\_Server folder.
5. Save and close the file.
6. The SerConverter utility requires that the AIMSHOME and JAVA\_HOME variables  
be set before running the utility. See [Setting up your ArcIMS Account](#), or Step  
5: Configure ArcIMS for details.
7. Run the \$AIMSHOME/bin/aimsserc script by issuing the command:  
\$AIMSHOME/bin/aimsserc.

The EsrimapCatalog.ser and EsrimapCookies.ser files will be converted to new  
files called ArcIMSSite.sez and ArcIMSFolders.sez.

The newly created \*.sez files will contain ArcIMS 3.1 site information that can  
be used by the ArcIMS 9.0 Application Server. Note that the existing  
EsrimapCatalog.ser and EsrimapCookies.ser files will not be deleted.

8. Start the ArcIMS Application Server, ArcIMS Monitor, and the ArcIMS Tasker  
processes:

```
./aimsappsrvr start &  
./aimsmonitor start &  
./aimstasker start &
```

### Tip

- The Metadata Server virtual server in ArcIMS 9.0 will not show up  
in the converted ArcIMS site. The ArcIMS site is capable of running  
it, however, you need to manually create the virtual server and  
save the site configuration. See *ArcIMS Help* for details on creating  
a virtual server.

## 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=25867>.

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

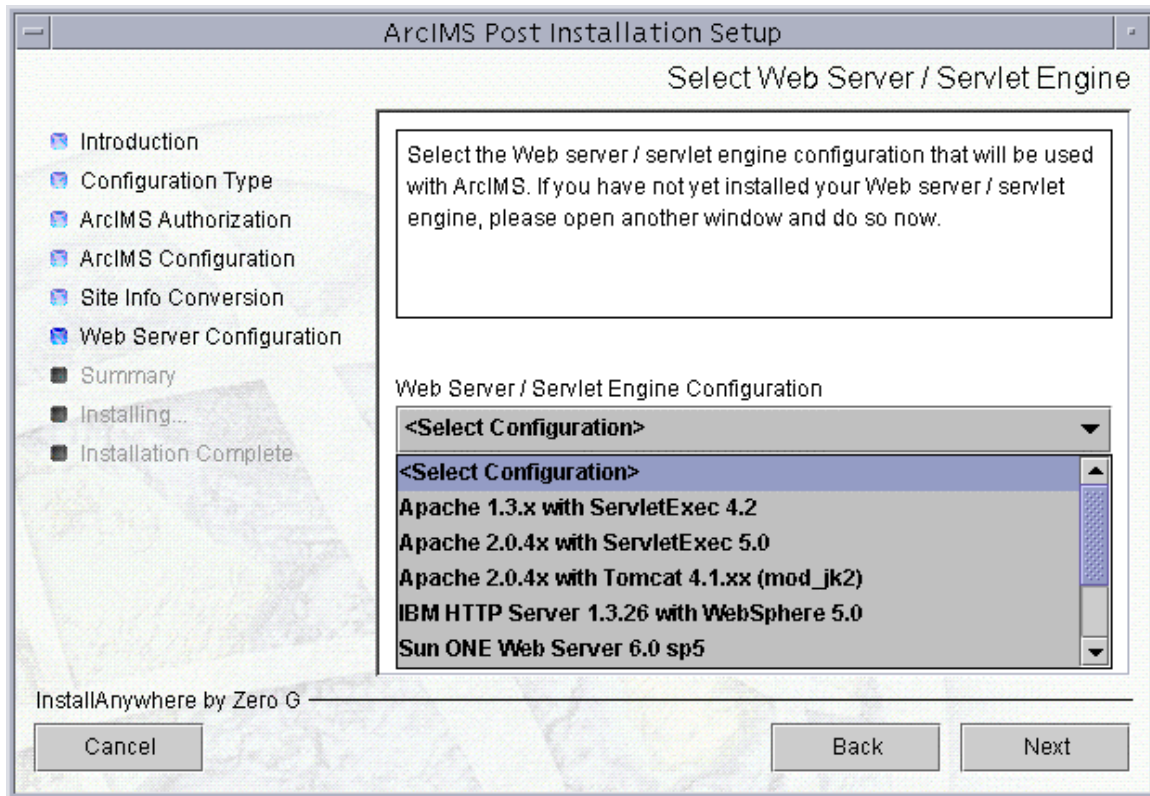
If you are using ServletExec 5.0 AS and you did not install it from the ArcIMS CD, you will need to verify that you are using ServletExec native adapter version 5.0c or greater. See [http://www.newatlanta.com/biz/c/products/servletexec/self\\_help/faq/detail?faqId=94](http://www.newatlanta.com/biz/c/products/servletexec/self_help/faq/detail?faqId=94) 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 1.3.2x with ServletExec 4.2 (Solaris 8 only)
- Apache 2.0.4x with ServletExec 5.0
- Apache 2.0.4x with Tomcat 4.1.xx (mod\_jk2)
- IBM HTTP Server 1.3.26 with WebSphere 5.0 (Solaris 8 only)
- IBM HTTP Server 1.3.26 with WebSphere 5.1
- Oracle Application Server 9i (9.0.3) (Solaris 8 only)
- Sun Java System (formerly Sun ONE) Web server 6.0 SP 5
- Sun Java System (formerly Sun ONE) Application Server 7.0
- WebLogic 7.0 SP 1 (Solaris 8 only)
- WebLogic 7.0 SP 2 (Solaris 9 only)
- 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**

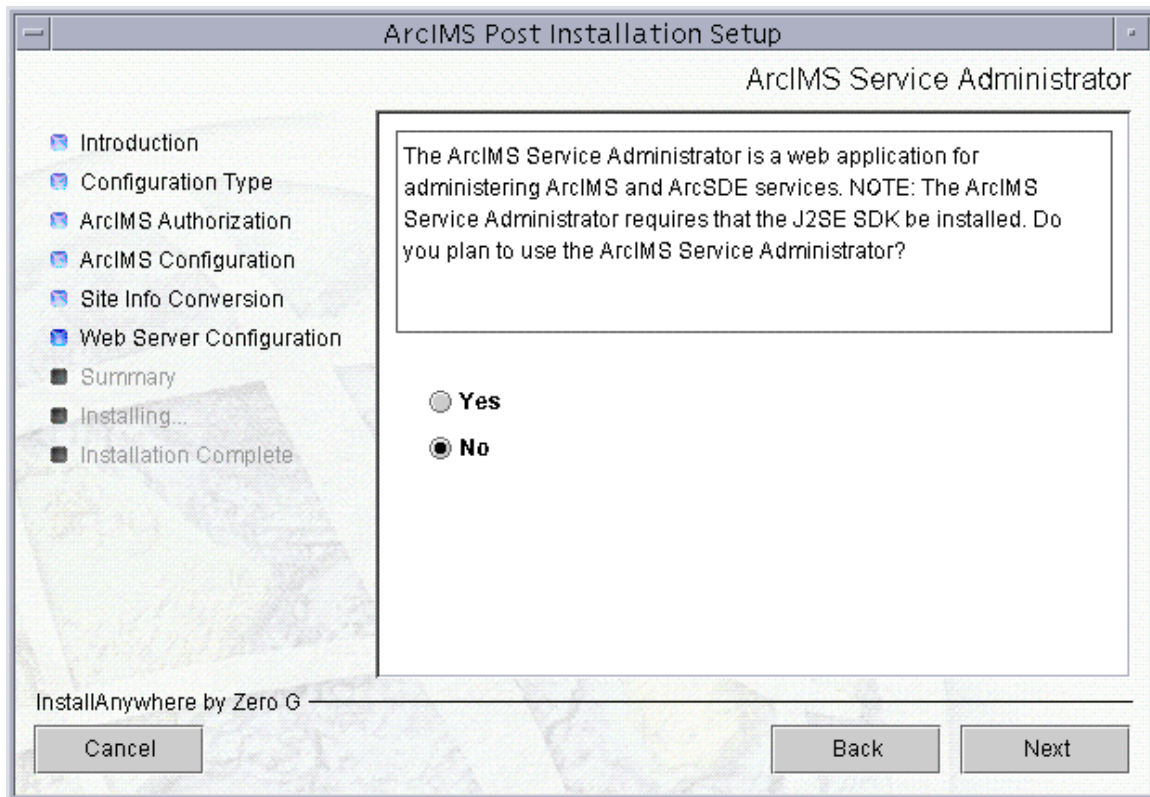


If your Web server-Servlet Engine configuration is not listed select I will manually configure my Web server - servlet engine. If you select I will manually configure my Web server - servlet engine you will need to manually configure your Web server before using ArcIMS. See [Step 4: Configure your Web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

- **ArcIMS Service Administrator configuration**

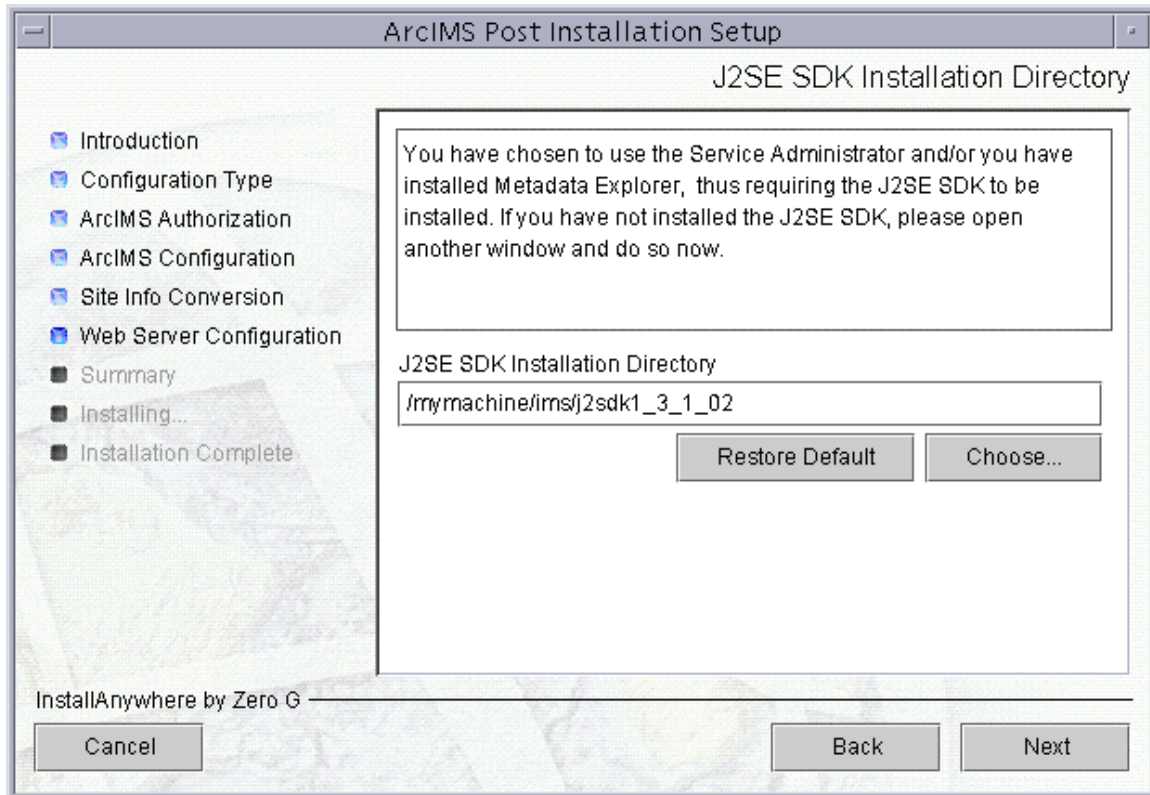
The ArcIMS Service Administrator is a remote site administration tool that allows you to administer ArcIMS and ArcSDE services. If you plan to use the ArcIMS Service Administrator the post installation setup can configure it for you.

### Step 3b: ArcIMS post installation setup



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)

### Step 3b: ArcIMS post installation setup

- 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 5.0/5.1**

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) Web server 6.0**

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)

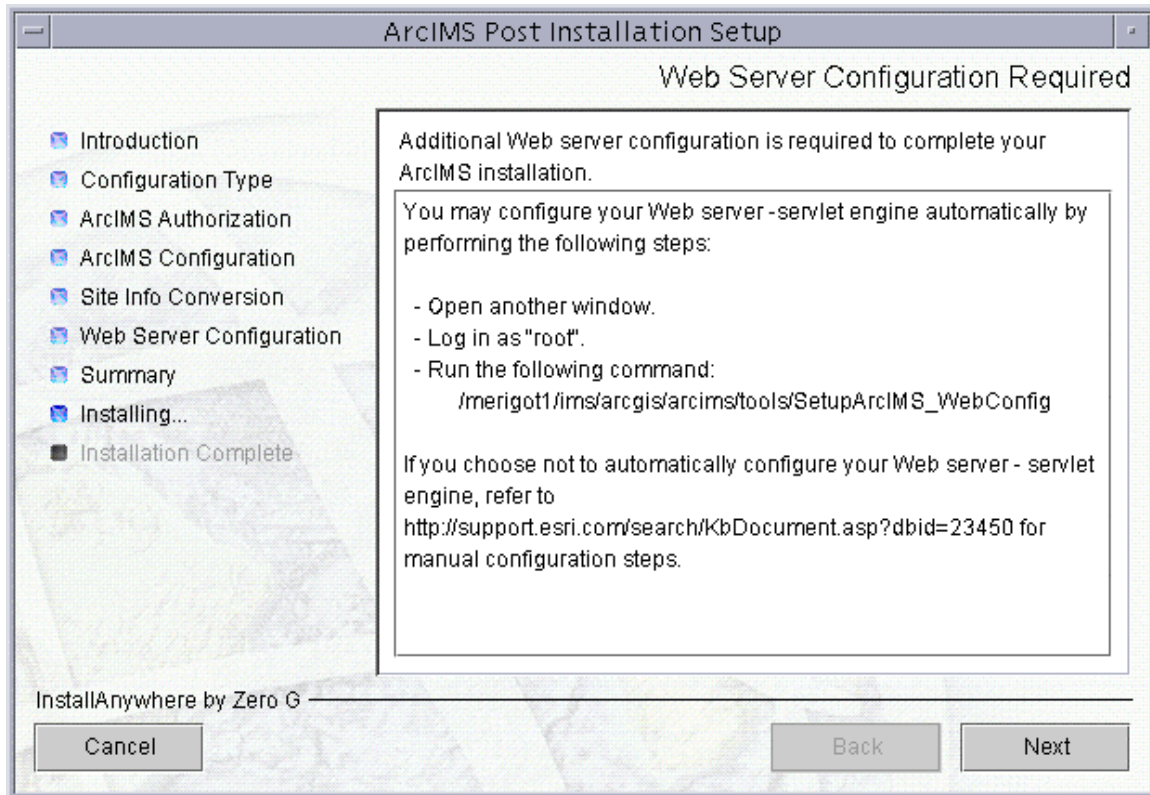
#### For **WebLogic 7.0 sp1/sp2 and WebLogic 8.1**

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.

### Step 3b: ArcIMS post installation setup

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 1.3.2x with ServletExec 4.2 (Solaris 8 only)
- Apache 2.0.4x with ServletExec 5.0
- Apache 2.0.4x with Tomcat 4.1.xx (mod\_jk2)
- IBM HTTP Server 1.3.26 with WebSphere 5.0 (Solaris 8 only)
- Sun Java System (formerly Sun ONE) Web server 6.0 SP5
- Sun Java System (formerly Sun ONE) Application Server 7.0
- Oracle Application Server 9.0.3
- WebLogic 7.0 SP 1





## Step 4: Configure your Web server

### 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=25867>. 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](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 1.3.2x with ServletExec 4.2 (Solaris 8 only)
- Apache 2.0.4x with ServletExec 5.0
- Apache 2.0.4x with Tomcat 4.1.xx (mod\_jk2)
- IBM HTTP Server 1.3.26 with WebSphere 5.0 (Solaris 8 only)
- IBM HTTP Server 1.3.26 with WebSphere 5.1
- Oracle Application Server 9i (9.0.3) (Solaris 8 only)
- Sun Java System (formerly Sun ONE) Web server 6.0 SP 5
- Sun Java System (formerly Sun ONE) Application Server 7.0
- WebLogic 7.0 SP 1 (Solaris 8 only)

- WebLogic 7.0 SP 2 (Solaris 9 only)
- WebLogic 8.1

**Note:** All above Web server and servlet engine configurations are for Solaris 8 and Solaris 9, unless stated otherwise.

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 1.3.2x with ServletExec 4.2](#) (Solaris 8 only)
- [Apache 2.0.4x with ServletExec 5.0](#)
- [Apache 2.0.4x with Tomcat 4.1.xx \(mod\\_jk2\)](#)
- [IBM HTTP Server 1.3.26 with WebSphere 5.0](#) (Solaris 8 only)
- [Sun Java System \(formerly Sun ONE\) Web server 6.0 SP 5](#)
- [Sun Java System \(formerly Sun ONE\) Application Server 7.0](#)
- [Oracle Application Server 9.0.3](#)
- [WebLogic 7.0 SP 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.

#### Step 4: Configure your Web server

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.

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 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 1.3.2x with ServletExec 4.2](#) (Solaris 8 only)
- [Apache 2.0.4x with ServletExec 5.0](#)
- [Apache 2.0.4x with Tomcat 4.1.xx \(mod\\_jk2\)](#)
- [Sun Java System \(formerly Sun ONE\) Web server 6.0 SP5](#)
- [Sun Java System \(formerly Sun ONE\) Application Server 7.0](#)
- [IBM HTTP Server 1.3.26 with WebSphere 5.0](#) (Solaris 8 only)
- [WebLogic 7.0 SP 1](#)
- [Oracle Application Server 9.0.3](#)

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 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 1.3.2x with ServletExec 4.2](#) (Solaris 8 only)
- [Apache 2.0.4x with ServletExec 5.0](#)
- [Apache 2.0.4x with Tomcat 4.1.xx \(mod\\_jk2\)](#)
- [Sun Java System \(formerly Sun ONE\) Web server 6.0 SP5](#)
- [Sun Java System \(formerly Sun ONE\) Application Server 7.0](#)
- [IBM HTTP Server 1.3.26 with WebSphere 5.0](#) (Solaris 8 only)
- [WebLogic 7.0 SP 1](#)
- [Oracle Application Server 9.0.3](#)

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

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](http://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
  - Esrimap\_prop
  - ServletConnector\_Res.properties
  - ServletConnector\_Res\_en\_US.properties
  - WMSEsrimap\_prop
3. Open the Esrimap\_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 are displayed. 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 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:

1. Start the Apache and ServletExec services.
2. In your web browser, type `http://<localhost>/servlet/admin` to open ServletExec Admin.
3. On the left sidebar under Servlets, click manage and verify that JSP10Servlet has been loaded.
4. On the left sidebar under Servlets, click aliases and verify that there is an entry for \*.jsp that points to JSP10Servlet.
5. In the left sidebar under Web Applications, click manage.
6. Click Add Web Application.
7. For Application Name, type: `esriadmin`
8. 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.

9. For Location, type: `<ArcIMS Installation Directory>/Administrator/esriadmin`
10. Click Submit and close ServletExec Admin.
11. Open the file `<Apache Installation Directory>/conf/httpd.conf`.
12. Add the following to the bottom of the `httpd.conf`  

```
AddHandler servlet-exec jsp
ServletExecApplications <localhost> /esriadmin
<Location /esriadmin>
SetHandler servlet-exec
</Location>
```
13. 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 ServletExec for Apache for Metadata Explorer

If you wish to use Metadata Explorer, you must configure your Web server:

1. Start the Apache and ServletExec services.
2. In your web browser, type `http://<localhost>/servlet/admin` to open ServletExec Admin.
3. On the left sidebar under Servlets, click manage and verify that JSP10Servlet has been loaded.
4. On the left sidebar under Servlets, click aliases and verify that there is an entry for \*.jsp that points to JSP10Servlet.
5. In the left sidebar under Web Applications, click manage.
6. Click Add Web Application.
7. For Application Name, type: `metadataexplorer`
8. 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.

9. For Location, type: `<ArcIMS Installation Directory>/Metadata/metadataexplorer`
10. Click Submit and close ServletExec Admin.
11. Open the file `<Apache Installation Directory>/conf/httpd.conf`.
12. Add the following to the bottom of the `httpd.conf`  

```
AddHandler servlet-exec jsp
ServletExecApplications <localhost> /metadataexplorer
<Location /metadataexplorer>
SetHandler servlet-exec
</Location>
```
13. 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 (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](http://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 (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.
5. Open the Esrimap\_prop file located in \$CATALINA\_HOME/webapps/servlet/WEB-INF/classes directory in a text editor.
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

13. 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 \(mod\\_jk2\) for ArcIMS Service Administrator](#) for information on configuring ArcIMS Service Administrator.

See [Configuring Apache 2.0.4x with Tomcat 4.1.xx \(mod\\_jk2\) for Metadata Explorer](#) for information on configuring Metadata Explorer.

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

## Configuring Apache 2.0.4x with Tomcat 4.1.xx (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 (mod\_jk2) for Service Administrator:

1. Navigate to <ArcIMS Installation Directory>/arcims/Administrator and copy esriadmin.war to \$CATALINA\_HOME/webapps directory.

**Note:** \$CATALINA\_HOME is the Tomcat installation directory.

2. In a text editor, open <ArcIMS Installation Directory>/arcims/Middleware/Application\_Server/AppServer.properties.

3. 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. Stop the Tomcat and Apache services.

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
```

See *ArcIMS Help* for information.

See [Configuring Apache 2.0.4x with Tomcat 4.1.xx \(mod\\_jk2\) 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 (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 (mod\_jk2) for Metadata Explorer:

1. Navigate to <ArcIMS Installation Directory>/arcims/Metadata and copy the MetadataExplorer directory to \$CATALINA\_HOME/webapps.

**Note:** \$CATALINA\_HOME is the Tomcat installation directory.

2. Stop the Tomcat and Apache services.

3. 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 \(mod\\_jk2\) 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 IBM HTTP Server 1.3.26 with Websphere 5.0

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. 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 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. In a text editor, open `/opt/WebSphere/AppServer/config/cells/plugin-cfg.xml`.
2. Scroll down to the section `<UriGroup Name="server1_Cluster_URIs">`  
Inside this block add the following  
`<Uri Name="/esriadmin/*"/>`  
Save and Exit
3. Open the Websphere admin console in a browser: `http://localhost:9090/admin`
4. At the login page, type your username and click OK.
5. In the left panel, expand the Applications directory.
6. In the left panel, click on Install New Application.
7. In the right panel under local path, browse to `esriadmin.war` file located at:  
`/<ArcIMS installation location>/arcims/Administrator`
8. Under Context Root, type `/esriadmin` and click Next.
9. At the Generate Default Bindings screen, just click Next.
10. At the AppDeployment Options screen, just click Next.
11. At the Map Virtual Hosts for Web Modules screen, check the box next to `esriadmin.war` and click Next.

## Step 4: Configure your Web server

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

13. At the Summary screen, click Finish.

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

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

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

17. In the right panel, check the box next to esriadmin.war and click Start.

18. 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 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. In a text editor, open `/opt/WebSphere/AppServer/config/cells/plugin-cfg.xml`.
2. Scroll down to the section `<UriGroup Name="server1_Cluster_URIs">`  
Inside this block add the following  
`<Uri Name="/metadataexplorer/*"/>`  
Save and Exit
3. Open the Websphere admin console in a browser: `http://localhost:9090/admin`
4. At the login page, type your username and click OK.
5. In the left panel, expand the Applications directory.
6. In the left panel, click on Install New Application.
7. In the right panel under local path, browse to `metadataexplorer.war` file located at: `/<ArcIMS installation location>/arcims/Metadata`
8. Under Context Root, type `/metadataexplorer` and click Next.
9. At the Generate Default Bindings screen, just click Next.
10. At the AppDeployment Options screen, just click Next.
11. At the Map Virtual Hosts for Web Modules screen, check the box next to `metadataexplorer.war` and click Next.

## Step 4: Configure your Web server

12. At the Map Modules to Application Servers screen, check the box next to metadataexplorer.war and click Next.
13. At the Summary screen, click Finish.
14. At the Installing screen, click on Save to Master Configuration link.
15. At the Save to Master Configuration screen, click Save.
16. In the left panel, click on Enterprise Applications.
17. In the right panel, check the box next to metadataexplorer.war and click Start.
18. 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 Sun Java System (formerly Sun ONE) 6.0 SP5

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](http://www.sun.com/software) for information on problems with Sun Java System (formerly Sun ONE) 6.0 SP5. Follow these steps to configure Sun Java System (formerly Sun ONE) 6.0 SP 5 with ArcIMS:

1. If you do not already have a servlet directory defined, create one in the docs directory.

```
mkdir <Sun Java System (formerly Sun ONE) 6.0 Installation  
Directory>/servers/docs/servlet
```

2. copy the following from <ArcIMS Installation Directory>/arcims/Middleware/servlet\_connector to <Sun Java System (formerly Sun ONE) 6.0 Installation Directory>/servers/docs/servlet:

- com directory
- Esrimap\_prop
- ServletConnector\_Res.properties
- ServletConnector\_Res\_en\_US.properties
- WMSEsrimap\_prop

3. Open the Esrimap\_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.

6. Make sure your Web server is running and, in your web browser, type:

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

For example: <http://arcims.esri.com:10000>

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

## Step 4: Configure your Web server

7. Type your user name and password and click OK. The Sun Java System Web Server Administration Server screen displays.
8. Select the server from the dropdown list and click Manage. The Server On/Off screen displays. Make sure the server is **on**.
9. Click Java in the navigation bar along the top.
10. The Enable/Disable Servlets/JSP screen displays. Make sure the Enable Java Globally and Enable Java for class defaultclass options are checked. Click OK.
11. Click Class Manager in the upper right corner of the screen. The Manage Virtual Servers screen displays.
12. Click Content Management in the navigation bar along the top.
13. Click Document Preferences on the left sidebar. The Document Preferences screen displays.
14. Add the following first in the list under Index Filenames:  
`default.htm,default.html,index.htm`  
Click OK.

### **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.

15. Click Content Mgmt in the navigation bar along the top.
16. Click Additional Document Directories in the sidebar.
17. Create a directory named output for the URL prefix and map it to the location where ArcIMS Spatial Server output will be stored.
18. Website files can be stored under <Sun Java System (formerly Sun ONE) 6.0 Installation Directory>/servers/docs.



You can specify that location when asked to provide a website directory when initializing the ArcIMS Administrator. If you wish to save website files to another location, you must map it the same way the ArcIMS Spatial Server output virtual directory was mapped: create a virtual directory named website and map it to the desired location.

19. Click OK, then click Apply in the upper right corner of the screen. Click Apply Changes to save all changes.

20. Close Sun Java System (formerly Sun ONE) 6.0 Web Server Administration Server.

21. 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**

22. 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.

See [Configuring Sun Java System \(formerly Sun ONE\) 6.0 SP5 for ArcIMS Service Administrator](#) for information on configuring ArcIMS Service Administrator.

See [Configuring Sun Java System \(formerly Sun ONE\) 6.0 SP5 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) 6.0 SP5

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) 6.0 SP5 for Service Administrator:

1. In a text editor, open <ArcIMS Installation Directory>/arcims/Middleware/Application\_Server/AppServer.properties.
2. Find `preferenceFile=` and edit it to point to the `sitePreferences.properties` file:  
`preferenceFile=<ArcIMS Installation Directory>/arcims/Middleware/Application_Server/sitePreferences.properties`
3. Save and close the file.

4. 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.

5. Type your user name and password and click OK.
6. Click the Global Settings tab.
7. Click Configure JRE/JDK Paths on the left sidebar.
8. Click JDK.
9. For path, type the J2SE SDK Path, for example, <J2SE SDK Installation Directory>/jdk1.3.1. The Libpath and Classpath can be left blank.

10. Click OK and exit Sun Java System.

11. In a text editor, open <Sun Java System Installation Directory>/https-<localhost>.<domain>.com/config/web-apps.xml.

12. Scroll to the end of the file and add the following lines before </vs>.

```
<web-app uri="/esriadmin" dir="<ArcIMS Installation
Directory>/arcims/Administrator/esriadmin" />
```

**Tip**

- Make sure you specify a valid directory path for web-app. Invalid entries for web-app will prevent your Sun Java System Web server from starting. Also, the context path you specify, /esriadmin, is case sensitive. You might want to create additional web-apps with names like ESRIAdmin or ESRIADMIN pointing to ArcIMS Service Administrator.

13. Save and close the file.

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 \(formerly Sun ONE\) SP5 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) 6.0 SP5

If you wish to use Metadata Explorer, you must configure your Web server. Follow these steps to configure Sun Java System (formerly Sun ONE) 6.0 SP5 for Metadata Explorer:

**Note:** Skip to Step 8 if you already configured your J2SE JRE/J2SE JDK paths for ArcIMS Service Administrator.

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 the Global Settings tab.

4. Click Configure JRE/JDK Paths on the left sidebar.

5. Click JDK.

6. For path, type the J2SE SDK Path, for example, <J2SE SDK Installation Directory>/jdk1.3.1. The Libpath and Classpath can be left blank.

7. Click OK and exit Sun Java System.

8. In a text editor, open <Sun Java System Installation Directory>/https-<localhost>.<domain>.com/config/web-apps.xml.

Scroll to the end of the file and add the following lines before </vs>.

```
<web-app uri="/metadataexplorer" dir="<ArcIMS Installation Directory>/arcims/Metadata/metadataexplorer" />
```

**Tip**

- Make sure you specify a valid directory path for web-app. Invalid entries for web-app will prevent your Sun Java System Web server from starting. Also, the context path you specify, /metadataexplorer, is case sensitive. You might want to create additional web-apps with names like MetadataExplorer or METADATAEXPLORER pointing to ArcIMS Metadata Explorer.

9. Save and close the file.

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 \(formerly Sun ONE\) SP5 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 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](http://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: \$AIMSHOME/Middleware/servlet\_connector and click OK.
7. For the context Root type: servlet
8. Click OK.
9. In another terminal, as root, browse to:  
/<SunONE\_Home>/domains/domain1/server1/applications/j2ee-modules/arcimsservletconnector\_1/WEB-INF/classes
10. Edit the Esrimap\_prop file. Replace APPSMACHINE with your machine name.
11. Next, browse to /<SunONE\_HOME>/domains/domain1/server1/config and open the server.policy for editing.

12. 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";
};
```

13. Save and close.

14. 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.

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

16. Add default.htm, default.html, index.htm

17. Click OK.

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

19. Restart the server.

20. Start ArcIMS.

## **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.

## Step 4: Configure your Web server

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 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. In a text editor, open <ArcIMS Installation Directory>/arcims/Middleware/Application\_Server/AppServer.properties.
2. Find preferenceFile= and edit it to point to the sitePreferences.properties file:  
preferenceFile=<ArcIMS Installation Directory>/arcims/Middleware/Application\_Server/sitePreference.properties
3. Save and close the file.
4. 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.

5. Type your user name and password and click OK.
6. In the left panel, expand Applications and click on Web Apps.
7. In the right panel, click on Deploy.
8. Browse to the esriadmin.war file located at: \$AIMSHOME/Administrator and click OK.

## Step 4: Configure your Web server

9. Leave the Context Root at the default setting and click OK.

10. Restart the server.

See *ArcIMS Help* for information.

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 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. 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.

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

3. In the left panel, expand Applications and click on Web Apps.

4. In the right panel, click on Deploy.

5. Browse to the `metadataexplorer.war` file located at: `$AIMSHOME/Metadata` and click OK.

6. Leave the Context Root at the default setting and click OK.

7. In another terminal, as root, browse to `/<SunONE_HOME>/domains/domain1/server1/config` and open the `server.policy` file for editing.

8. 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/-"
```

## Step 4: Configure your Web server

```
{  
permission java.util.PropertyPermission "*", "read,write";  
};
```

9. Save and close.

10. 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.

## Configuring Oracle Application Server 9.0.3 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](http://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. Click the OC4J\_home link from the list of System Components.
3. On the OC4J\_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.
10. Open the Esrimap\_prop file in a text editor.
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/"
<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.

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

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

## Step 4: Configure your Web server

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



## Configuring Oracle Application Server 9.0.3 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:

1. Open the Oracle Enterprise Manager in your Web browser (<http://mymachine.esri.com:1810>).
2. Click the OC4J\_home link from the list of System Components.
3. On the OC4J\_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>/Administrator/esriadmin.war.
5. For Application Name type `esriadmin`
6. For Map to URL type `/esriadmin`
7. Click Deploy to deploy the esriadmin.war file. The ArcIMS Service Administrator is installed in the <Oracle Application
8. Server Installation Directory>/j2ee/home/applications directory.
9. Click OK when the Confirmation is displayed.
10. Exit Oracle Enterprise Manager.

See *ArcIMS Help* for information.

See [Configuring Oracle Application Server 9.0.3 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 Oracle Application Server 9.0.3 for Metadata Explorer

If you wish to use ArcIMS Metadata Explorer with Oracle Application Server 9.0.3, you must configure your Web server.

Follow the steps below to configure Oracle Application Server 9.0.3:

1. Open the Oracle Enterprise Manager in your Web browser (<http://mymachine.esri.com:1810>).
2. Click the OC4J\_home link from the list of System Components.
3. On the OC4J\_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/Metadata/metadataexplorer.war.
5. For Application Name type `metadataexplorer`
6. For Map to URL type `/metadataexplorer`
7. Click Deploy to deploy the metadataexplorer.war file. The Metadata Explorer is installed in the <Oracle Application Server Installation Directory>/j2ee/home/applications directory.
8. Click OK when the Confirmation is displayed.
9. Exit Oracle Enterprise Manager.

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

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

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

## Step 4: Configure your Web server

## Configuring WebLogic 7.0 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. See [www.bea.com](http://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
- WMSEsrimap\_prop

Note: You may need to create a classes directory.

2. Open the Esrimap\_prop file in a text editor.

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>
<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 for ArcIMS Service Administrator](#) for information on configuring ArcIMS Service Administrator.

See [Configuring WebLogic 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 for Service Administrator

If you wish to use ArcIMS Service Administrator to remotely administer ArcIMS services, you must configure your Web server:

1. Start WebLogic.
2. In your web browser, type:  
`http://<localhost.domain.com>:<serveradminport>/console,`  
for example, `http://arcims.esri.com:10000/console.`
3. Type your password.
4. On the left sidebar, expand the <Domain Name>, Deployments and click Web Applications.
5. Click Configure a new Web Application.
6. Locate Application of Components to configure
  - Step1. Click the "upload it through your browser" link to select the esriadmin.war file located at <ArcIMS Installation Directory>/Administrator and click the Upload button.
  - Step 2. Click on the [select] link to the left of the esriadmin.war file.
  - Step 3. Select the server you created from "Available Servers" to "Target Servers".
  - Step 4. Enter the name, "esriadmin", for this application.
  - Step 5. Click "Configure and Deploy " to configure and deploy the esriadmin application.
7. Copy the esriadmin.properties file from <ArcIMS Installation Directory>/arcims/Administrator/esriadmin/WEF-INF/classes to <WebLogic Installation Directory>/user\_projects/<Domain Name> directory, where the startWeblogic script is and modify this properties file where appropriate if needed.
8. Open <ArcIMS Installation Directory>/arcims/Middleware/Application\_Server/AppServer.properties.



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9. Find the `preferenceFile` parameter and edit it to point to the `sitePreferences.properties` file: `preferenceFile=<ArcIMS Installation Directory>/arcims/Middleware/Application_Server/sitePreferences`

10. Stop and restart Weblogic

See *ArcIMS Help* for information.

See [Configuring WebLogic 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 WebLogic 7.0 for Metadata Explorer

If you wish to use ArcIMS Service Administrator to remotely administer ArcIMS services, you must configure your Web server:

1. Start WebLogic.
2. In your web browser, type:  
`http://<localhost.domain.com>:<serveradminport>/console`, for example,  
`http://arcims.esri.com:10000/console`.
3. Type your password.
4. On the left sidebar, expand the <Domain Name>, Deployments and click Web Applications.
5. Click Configure a new Web Application.
6. Locate Application of Components to configure
  - Step1. Click the "upload it through your browser" link to select the `metadataexplorer.war` file located at <ArcIMS Installation Directory>/Metadata and click the Upload button.
  - Step 2. Click on the [select] link to the left of the `metadataexplorer.war` file.
  - Step 3. Select the server you created from "Available Servers" to "Target Servers".
  - Step 4. Enter the name, "metadataexplorer", for this application.
  - Step 5. Click "Configure and Deploy " to configure and deploy the `metadataexplorer` application.
7. 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.
8. Stop and restart Weblogic

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

## ArcIMS 9.0 for Solaris Install Guide

See [Configuring WebLogic 7.0 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.

# Step 5: Configure ArcIMS

## 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 doesn't 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:

aimsappsrvr—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. `./aimsappsrvr start &`
  2. `./aimsmonitor start &`
  3. `./aimstasker start &`
2. To test the processes, open \$AIMSHOME/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

## 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.

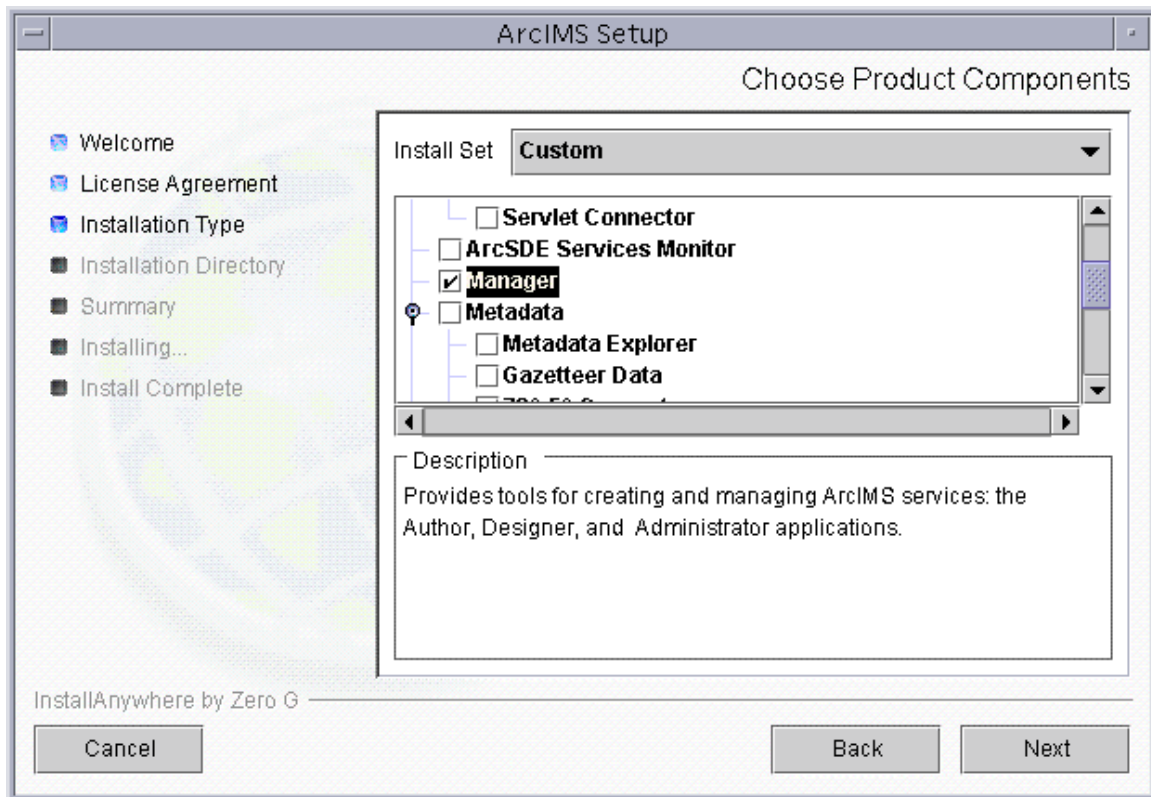
### Tip

- 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. Verify that you meet system requirements.

# Installing ArcIMS Viewer

## 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.

### Tip

- You must uninstall ArcExplorer—Java Edition on your Windows computer before you install ArcIMS Viewer.

The items installed are:

- Java Plug-in 1.3.1 or higher (if needed)
- ESRI ArcIMS Viewer
- ArcExplorer—Java 9.0

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>/aej90exe
```
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>/aej90exe/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 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 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. 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 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 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 1.4.1 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 1.4.1 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 1.4.1: <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 1.4.1 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 1.4.1 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 1.4.1 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
```

## ArcIMS 9.0 for Solaris Install Guide

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 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 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 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 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](http://java.sun.com/j2se/1.4.2/index.jsp) to download J2SE JRE 1.4.2. 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 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, 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 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 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 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. 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 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 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 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 9.0

To uninstall ArcIMS 9.0 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, WMSEsrimap\_prop, 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
  - WMSEsrimap\_prop

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) 6:** com directory from <Sun Java System (formerly Sun ONE) 6 Installation Directory>/servers/docs/servlet; Esrimap\_prop, ServletConnector\_Res.properties, ServletConnector\_Res\_en\_US.properties and WMSEsrimap\_prop files from <Sun

Java System (formerly Sun ONE) 6 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) 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

## Uninstalling the MainWin System Core (MSC) services.

If you installed MSC using SetupMSC, in order to use MainWin runtime in Enterprise mode, you can uninstall MSC by following these steps:

### Tip

- Make sure no other products are still using MSC and Mainwin runtime in Enterprise mode, before uninstalling MSC.

1. Stop all applications running on MainWin Enterprise
2. As root, execute the script:

```
<MSC_Install_Dir>/mwcore/mw/bin/uninstall.mwcore
```

3. cleanup left over directories using: `rm -r <MSC_Install_Dir>`

# Troubleshooting

## 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=25867> 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

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