# ArcGIS Server Operating System Requirements and Limitations

All Platforms
Microsoft Windows
Linux
Sun Solaris

**NOTE:** See [Supported Server Platforms](#) for specific operating system versions supported with ArcGIS Server.

## All Platforms ⬈

- **Server display requirements:**
    - 1024 x 768 recommended or higher at Normal size (96dpi)
    - 24 bit color depth
- DVD-ROM drive is required to install the application.
- Some ArcGIS Server features such as GlobeServer and Geometry require OpenGL 1.3 Library functionalities. These libraries are typically included in the operating systems that ArcGIS Server is supported in. In Microsoft Windows operating systems, these libraries are included with the operating system. See Platform specific requirements below for any exceptions.
- Python 2.5.1 and Numerical Python 1.0.3 are required to support certain core Geoprocessing tools. It is recommended that Python 2.5.1 and Numerical Python 1.0.3 are installed by the ArcGIS Server setup. Users can choose to not install Python 2.5.1 and Numerical Python 1.0.3 by unselecting the Python feature during installation. The Python feature is a sub-feature of Server Object Container.
- Limitation: The REST handler does not work when deployed with WebSphere 6.1 and Weblogic 10*.

  *Note: The REST handler is supported with Weblogic 10 at 93 sp1*

## Microsoft Windows ⬈

- Microsoft Internet Explorer version 6.0 or higher is required. You must obtain and install Internet Explorer version 6.0 or higher, prior to installing ArcGIS Server on Windows.
- **Windows XP and Vista:** These operating systems are supported for basic testing and application development use only. It is not recommended for deployment in a production environment.
- **Windows Vista and Windows Server 2008:** When using the ArcGIS Server .NET Manager on Vista or Windows Server 2008, the application unexpectedly errors. See [KB35105](#) for more details.

## Linux

- ArcGIS Server is only supported on Linux x86, on CPUs that adhere to the x86 architecture, with supported Linux releases.
- It is a requirement that the OS (binary) has not been modified. ESRI does not provide any support if products are installed on Developer's Release of an Operating System.
- **Red Hat Enterprise Linux 4.0:**
  - The Linux patches from RHEL AS/ES will be supported as long as the patches are supported by the webservers and they are from Red Hat without any modification to the latest kernel/glibc version.
  - The following package groups are required:
    - from Desktops group
      - X Window System package group (Standard Packages sufficient) - See KB37379 for more details.
    - from Development group
      - Development Tools package group with gcc-g77 package from Extra Packages section - The required library libg2c.so.0 is owned by the libf2c package; the libf2c package is provided by the gcc-g77 package
      - Legacy Software Development package group (Standard Packages sufficient)
  - Additionally, the following software packages are required (package version must be at level stated or higher):
    - compat-openldap
    - openssl
  - For 64 bit OS support: The 32 bit versions of the packages above must be installed prior to installing ArcGIS Server.
- **Red Hat Enterprise Linux 5.0:**
  - The Linux patches from RHEL AS/ES will be supported as long as the patches are supported by the webservers and they are from Red Hat without any modification to the latest kernel/glibc version.
  - **NIS Client Limitation**: ArcGIS installation hangs while registering libmwxml.so from a network client on Linux RedHat Version 5. See KB37541 for more details.
  - The following package groups are required:
    - from Development group
      - Development Tools package group
      - Legacy Software Development package group
    - from Base System group
      - Legacy Software Support package group with compat-openldap from Optional Packages
      - X Window System package group - See KB37379 for more details.
  - Additionally, the following software packages are required:
    - compat-libf2c-34
    - compat-libstdc++-33
    - compat-libstdc++-296

- compat-openldap
- libXp
- OpenGL package: mesa-libGL
- OpenGL package: mesa-libGLU
- openldap
- openssl
    - For 64 bit OS support: The 32 bit versions of the packages above must be installed prior to installing ArcGIS Server.
- **SUSE Linux 10 SP2:**
    - The Linux patches for SUSE Linux Enterprise Server will be supported as long as they are from SUSE Linux without any modification to the latest kernel/glibc version.
    - The following software packages are required:
        - from System/Libraries package group
            - compat package
            - freeglut package
            - Mesa package - This package includes the required OpenGL version: xorg-x11-Mesa-6.4.2-19.4.
        - from Development/Languages/Fortran package group
            - libg2c33 package - This package is available as a patch (GNU g77 20081203) from Novell. See KB35105 for more details.
        - from System/X11/Utilities package group
            - X Window System - See KB37379 for more details.
    - For 64 bit OS support: The 32 bit versions of the packages above must be installed prior to installing ArcGIS Server.

## Sun Solaris

- When running in a 64-bit Solaris SPARC environment, ArcGIS Engine-related products operate as 32-bit applications.
- It is a requirement that the OS (binary) has not been modified. ESRI does not provide any support if products are installed on Developer's Release of an Operating System. ESRI recommends the "Default" install of the Solaris OS.
- When running ArcGIS Server on Solaris, it is supported only on Solaris SPARC Enterprise M-Series servers.
- X-Windows/Common Desktop Environment - See KB37379 for more details.
- The following patches are recommended for Solaris 10 installs:
    - 113886-29 patch for OpenGL
    - 113887-29 patch for OpenGL
- Starting with version 9.3, ArcGIS Engine, ArcReader, and ArcGIS Server takes advantage of Sun's new "extended FILE" facility when running on a Solaris system that supports that functionality. This substantially expands the number of files ArcGIS can have open simultaneously on Solaris. Currently, Sun's extended FILE support is only available on Solaris 10. It should be automatically included in Solaris 10 releases done after June 2007. To add extended FILE support to earlier Solaris 10 releases, the following patches are recommended:

- o 125100-04 Kernel Update Patch
  - o 120473-05 libc nss ldap PAM zfs Patch
  - o 125800-01 Fault Manager Patch
- Direct connect to Oracle from ArcGIS Server on Solaris is not supported because accessing ArcSDE for Oracle using direct connect from the Solaris platform is only supported on 64-bit applications. ArcGIS Server runs as a 32-bit application.