

# ArcIMS 9

---

## Using ArcIMS Service Administrator



Copyright © 2004 ESRI  
All Rights Reserved.  
Printed in the United States of America.

The information contained in this document is the exclusive property of ESRI. This work is protected under United States copyright law and other international copyright treaties and conventions. No part of this work may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying or recording, or by any information storage or retrieval system, except as expressly permitted in writing by ESRI. All requests should be sent to Attention: Contracts Manager, ESRI, 380 New York Street, Redlands, CA 92373-8100, USA.

The information contained in this document is subject to change without notice.

#### **U.S. GOVERNMENT RESTRICTED/LIMITED RIGHTS**

Any software, documentation, and/or data delivered hereunder is subject to the terms of the License Agreement. In no event shall the U.S. Government acquire greater than RESTRICTED/LIMITED RIGHTS. At a minimum, use, duplication, or disclosure by the U.S. Government is subject to restrictions as set forth in FAR §52.227-14 Alternates I, II, and III (JUN 1987); FAR §52.227-19 (JUN 1987) and/or FAR §12.211/12.212 (Commercial Technical Data/Computer Software); and DFARS §252.227-7015 (NOV 1995) (Technical Data) and/or DFARS §227.7202 (Computer Software), as applicable. Contractor/Manufacturer is ESRI, 380 New York Street, Redlands, CA 92373-8100, USA.

ESRI, ArcExplorer, ArcGIS, ArcPad, ArcIMS, ArcMap, ArcSDE, Geography Network, the ArcGIS logo, the ESRI globe logo, [www.esri.com](http://www.esri.com), GIS by ESRI, and ArcCatalog are trademarks, registered trademarks, or service marks of ESRI in the United States, the European Community, or certain other jurisdictions.

Microsoft and the Windows logo are registered trademarks and the Microsoft Internet Explorer logo is a trademark of Microsoft Corporation.

Other companies and products mentioned herein are trademarks or registered trademarks of their respective trademark owners.

# Using ArcIMS Service Administrator

## IN THIS CHAPTER

- **Administering ArcIMS services and servers**
- **Starting ArcIMS site administration**
- **Setting site properties**
- **Creating a new ArcIMS service and changing service properties**
- **Starting, stopping, and removing a service**
- **Managing ArcIMS Spatial Servers and Virtual Servers**
- **Administering ArcSDE services and connections**
- **Starting ArcSDE service administration**
- **Viewing ArcSDE service properties**
- **Starting, stopping, pausing, and resuming an ArcSDE service**
- **Terminating a connection**

Site administration is essential to the success of any Internet GIS application. In earlier releases of ArcIMS, ArcIMS Administrator was used to manage ArcIMS services, servers, and folders. With ArcIMS, you have two options—ArcIMS Administrator or the ArcIMS Service Administrator. You cannot manage folders with ArcIMS Service Administrator, but because it is a Web-based application, you can manage remote sites. You can also administer ArcSDE services.

# Setting up your Web browser

It is a good idea to check your browser settings before opening ArcIMS Service Administrator for the first time.

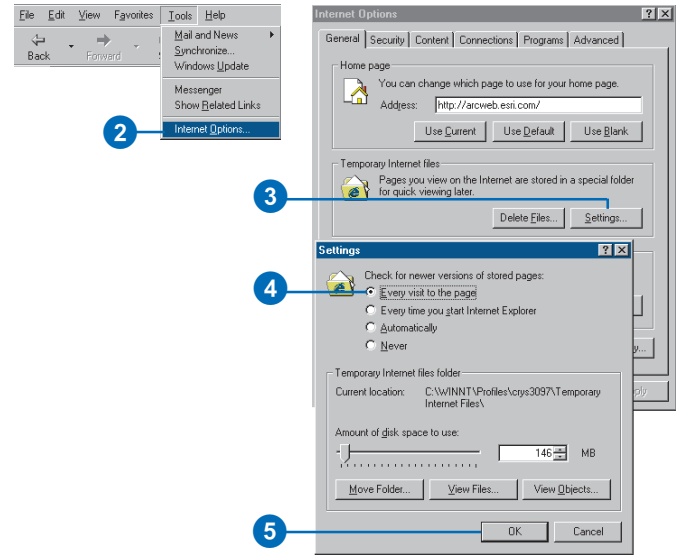
It is not unusual for browsers to be configured to cache information. Browsers store information about Web pages for the sake of efficiency. By caching information, browsers are able to reload a previously visited Web page much more quickly.

The problem with cached information is that it may not reflect the current state of the server. The list of services that you see might actually be cached information rather than up-to-date information showing additions and changes.

You can change your browser settings so that it checks for newer versions of a stored page each time that page is accessed.

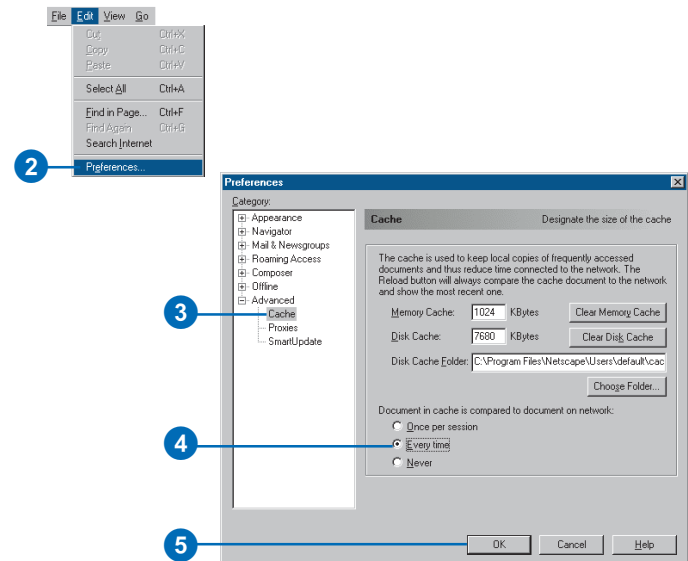
## Internet Explorer

1. Open Internet Explorer.
2. Click the Tools menu and click Internet Options.
3. Click Settings under Temporary Internet files on the General tab.
4. Click Every visit to the page to check for newer versions of the stored page every time you visit it.
5. Click OK to close the Settings dialog box.
6. Click OK to save your changes and to close the Internet Options dialog box.



## Netscape

1. Open Netscape.
2. Click the Edit menu and click Preferences.
3. Double-click Advanced in the Category list box and click Cache.
4. Click Every time to compare the document in the cache to the document on the network every time you access the page.
5. Click OK to close the Preferences dialog box.





# Modifying Service Administrator properties

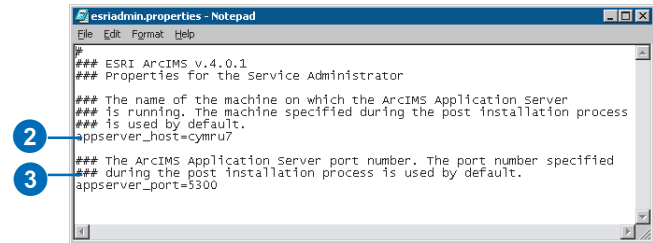
Most users will be able to utilize Service Administrator to manage services, servers, and connections without making any further modifications. However, if your Application Server is hosted separately from your Web server or if you are using a port number other than 5300, the default, you may need to modify the Service Administrator's property file.

## Tip

### Perform this task through the Post Installation Setup utility

*You can perform this task by modifying the Application Server Information dialog of the ArcIMS Configuration step in the Post Installation Setup utility. For details on the utility, see ArcIMS Installation Guide.*

1. Find and open the esriadmin.properties file.  
By default, this file is located in <ArcIMS Installation Directory>/ArcIMS/Administrator/esriadmin/WEB-INF/classes. However, Tomcat users will find it at <Tomcat Directory>/webapps/esriadmin/WEB-INF/classes and WebSphere users will find it at <ArcIMS Installation Directory>/ArcIMS/Administrator/esriadmin.war/WEB-INF/classes.
2. Set the appserver\_host parameter to match the name of the machine running the ArcIMS Application Server.
3. Set the appserver\_port parameter to match the port number used for communication with the Application Server. By default, this is 5300.
4. Save and close the file.
5. Restart your Web server and servlet engine.



# Starting ArcIMS site administration

When you start ArcIMS Service Administrator or the standalone ArcIMS Administrator for the first time, you are prompted to create a login. Your username and password are required for all future administration sessions.

After you have logged in to ArcIMS Service Administrator, choose ArcIMS as the type of services to manage. You will only see the panels and tools specific to ArcIMS site administration.

## Tip

### Switching between service types and refreshing service information

To switch from ArcSDE to ArcIMS administration, click Home, click ArcIMS, and click OK. To refresh service information, click Home, click ArcSDE, and click OK.

## Tip

### Forgot your username and password?

The username and password information is stored in the AimsAdmPw file located in the <ArcIMS Installation Directory>/ArcIMS/AppServer folder. Delete this file, restart ArcIMS, and enter a new username and password to reset your login.

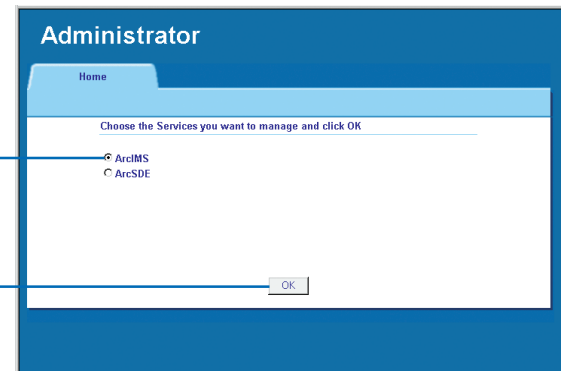
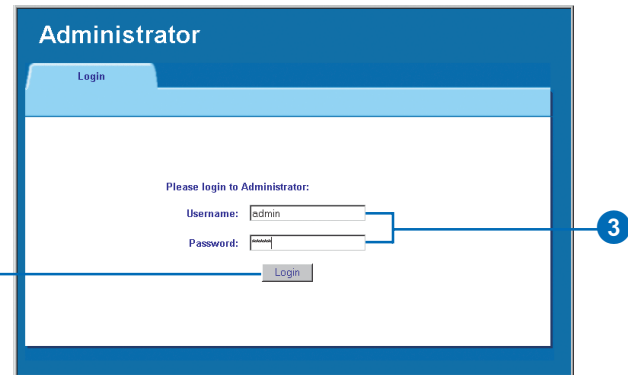
1. Open a Web browser.
2. Type the URL `http://<localhost>.<domain>.com/esriadmin` in the Location or Address text box.
3. Type your username and password on the page that appears.

Username and passwords cannot contain vertical bars.

If this is your first time logging in to ArcIMS Service Administrator, you are prompted to create a new username and password. Confirm your password by typing it again.

4. Click Login.
5. Click ArcIMS.
6. Click OK.

The Manage Services tab appears, showing a list of available ArcIMS services.



# Setting site properties

Default site properties include server output settings such as the directory location of output files, the HTTP location (URL) of the output directory, the server cleanup interval, the image memory limit, and the default image format. The output cleanup time is the amount of time an output file remains on the server before it is deleted. The image memory limit ►

## Tip

### Output directory for a distributed configuration

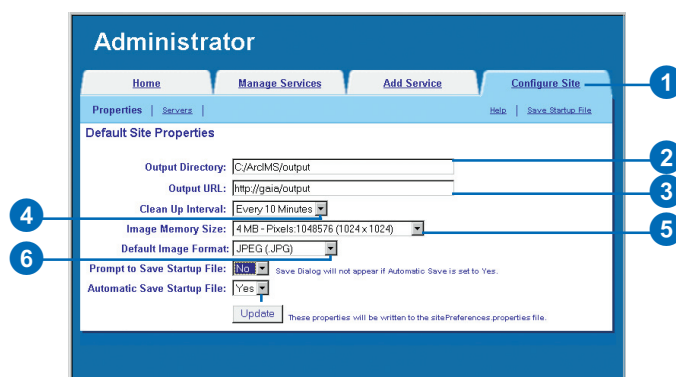
On Windows, if your site includes Spatial Servers on a number of different machines, use Universal Naming Convention pathnames to define the output directory location. Since Administrator requires forward slashes, the syntax `//servername/sharename/path` is used.

## Tip

### Setting the clean up interval

Files in the output directory are continually checked by ArcIMS Tasker. When a file is at least as old as the clean up interval, it is deleted. If you choose Never as the clean up interval, output files are not deleted.

1. Click the Configure Site tab.  
The Default Site Properties panel appears.
2. Type the path to the output directory.
3. Type the HTTP location of the output directory in the Output URL text box.
4. Click the Clean Up Interval dropdown arrow and click a cleanup interval.
5. Click the Image Memory Size dropdown arrow and click the maximum memory limit.
6. Click the Default Image Format dropdown arrow and click an image format. ►



determines the maximum memory per instance allowed to create output images.

To force a time-out for sessions created by ArcIMS Service Administrator, you must add the following lines to the web.xml file in the directory <ArcIMS Installation directory>\Administrator\esriadmin\WEB-INF:

```
<session-config>
<session-timeout>30</
session-timeout>
</session-config>
```

You must restart your Web server for your changes to take effect.

## Tip

### sitePreferences.properties

Site properties are saved to the sitePreferences.properties file. Look for this file in the AppServer folder of the ArcIMS installation directory.

7. Click the Prompt to Save Startup File dropdown arrow and click Yes or No.

If you clicked Yes, you will be prompted every time you make a change to the site configuration.

8. Click the Automatic Save Startup File dropdown arrow and click Yes or No.

If you clicked Yes, changes to the site configuration will be saved automatically.

9. Click Update.



# Saving site configuration settings

It is important to save site configuration settings after making changes to any of the following:

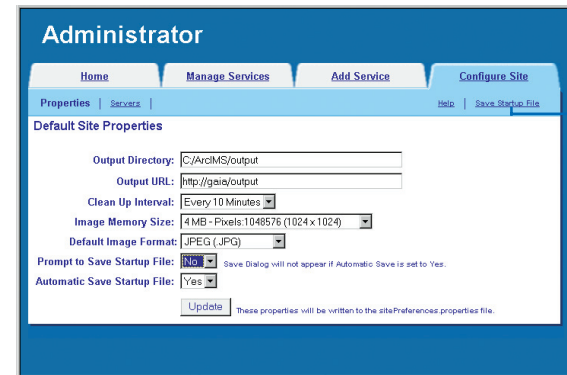
- ArcIMS services
- Spatial Servers
- Virtual Servers

When you save your site configuration, you save the status of Spatial Servers and ArcIMS services. Then, when you reboot your machine, your Spatial Servers and ArcIMS services are restored to their previous state through ArcIMS Monitor. ArcIMS Monitor runs as a Windows service or as a daemon process on UNIX and Linux.

The site configuration is saved in a serialized configuration file—ArcIMSSite.sez. The file, which cannot be edited manually, is stored in the AppServer folder in the ArcIMS installation directory.

1. Click Save Startup File in the upper right corner of the Configure Site or Manage Services tabs.

Your site configuration changes are saved and will be used the next time services are restarted.



# Creating a new ArcIMS service

You have several choices when creating a new ArcIMS service. You can create an Image Service, an ArcMap Image Service, a Feature Service, or a Metadata Service. If you have the optional Route Server, you can also create Route Services.

To create a new service, type a name and select an appropriate map configuration file. Specify the Virtual Server to use and, if creating an Image, ArcMap Image, or Metadata Service, provide the additional required information.

## Tip

### GIF images

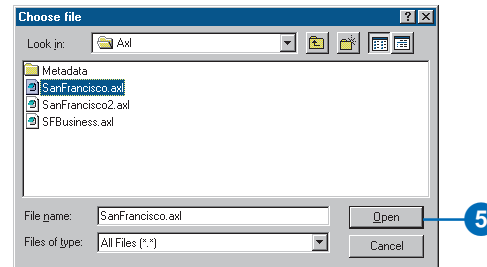
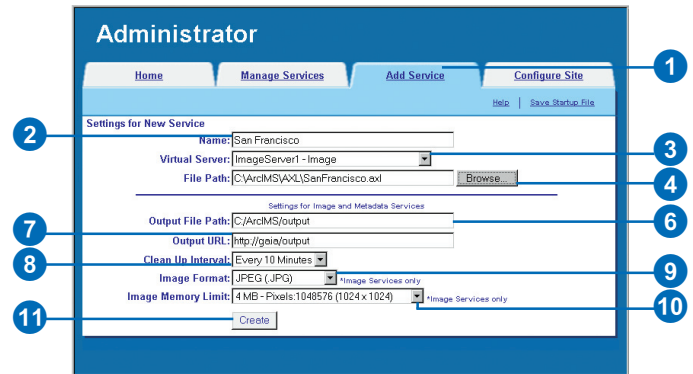
To create GIF images, a license is required. See 'FAQs' in ArcIMS Help for more information about GIF licenses.

## Tip

### JPEG image quality

The default JPEG image quality is 85 percent. For more information about JPEG image quality, see 'Advanced Topics' in ArcIMS Help.

1. Click the Add Service tab.  
The Settings for New Service panel appears.
2. Type a name for the new service.
3. Click the Virtual Server dropdown arrow and click a Virtual Server.
4. Click Browse and navigate to the location of a map document, published map file, or map configuration file.
5. Click Open on the Choose file dialog box.  
  
If you are creating a Route or Feature Service, skip to step 11.
6. Type the path to the output file directory in the Output File Path text box.
7. Type the HTTP location of the output directory in the Output URL text box.
8. Click the Clean Up Interval dropdown arrow and click a cleanup interval.
9. Click the Image Format dropdown arrow and click an image format.
10. Click the Image Memory Limit dropdown arrow and click the maximum memory limit.
11. Click Create.



# Changing service properties

When you click the name of an ArcIMS service on the Manage Services tab, the service properties panel appears. You can change the map configuration file, type a new description, or select a different Virtual Server. For Image, ArcMap Image, and Metadata Services you can also modify the output directory and its HTTP location. You can also change the server cleanup interval. For Image and ArcMap Image Services you can also change the image format and the image memory limit.

## Tip

### Updating Feature Services

If you change the configuration file corresponding to a Feature Service, you must rebuild your Web site for your changes to be reflected. This process creates new Web site files (for example, default.axl, and default.js) containing your changes.

## Tip

### Changing Virtual Servers

If you change the Virtual Server, all Web sites incorporating the Service must be rebuilt to ensure that the proper files are created.

## Tip

### Refreshing a service

To Refresh a service, upload the file path and click Update.

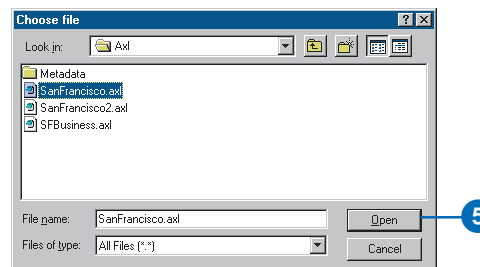
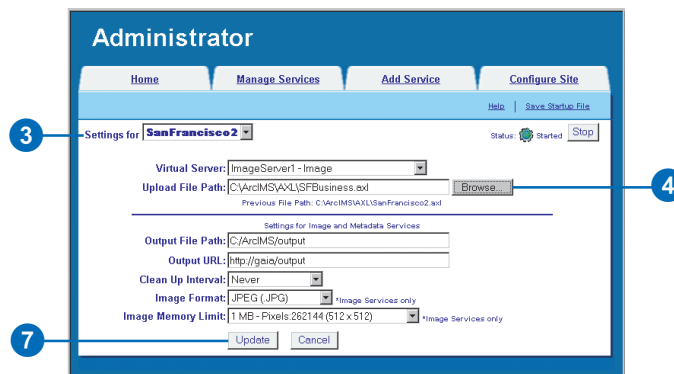
1. Click the Manage Services tab.
2. Click the name of a service.  
The service properties panel appears.
3. Verify that the correct service is selected in the Settings for dropdown list.
4. Click Browse and navigate to the appropriate map document, published map file, or map configuration file.
5. Click Open on the Choose file dialog box.

The path to the map document, published map file, or map configuration file appears as the Upload File Path.

6. Change service settings as necessary.
7. Click Update.

Depending on the site properties you specified, your changes may be automatically saved to the startup file, or you may be prompted to save them.

A screen appears informing you that your service has been updated.



# Starting, stopping, and removing a service

You can remove a service permanently if it is no longer needed. However, it is important to verify that no Web applications are using the service before you remove it.

To stop a service, check it and click Stop. To restart a service, check it and click Start. To make your change permanent, click Save Startup File.

## Tip

### Removing a service does not delete the map configuration file

Map configuration files and their corresponding services are separate entities; therefore, you can remove a service without deleting the map configuration file. As long as you don't manually delete the map configuration file, it will always be available to you to re-create the same service or to create a different service.

1. Click the Manage Services tab.
2. Check a service to select it.

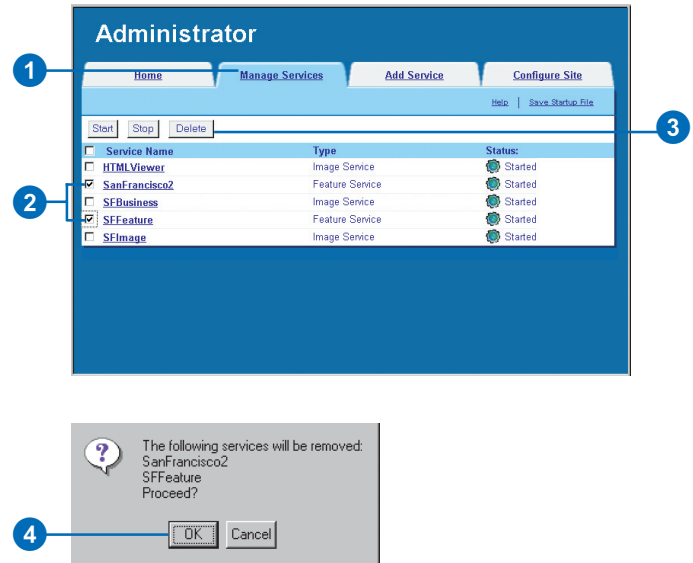
Check multiple services if you want to delete more than one service at a time.

3. Click Delete to delete the checked services.

A message box appears warning you that you are about to delete a service.

4. Click OK to proceed.

The selected services are removed from the list of ArcIMS services.



# Managing ArcIMS Spatial Servers

A typical ArcIMS installation includes a single Spatial Server. In some cases, it is beneficial to have more than one Spatial Server. Adding Spatial Servers can simplify the organization of your site and improve your system's overall performance.

Additional Spatial Servers can be added to your site through Service Administrator or, in a distributed system, by physically installing the ArcIMS Spatial Server component on another machine in your network. Once the Spatial Server component has been installed, future additions and changes on that machine can be performed through Administrator. For installation procedures and instructions for setting up ArcIMS with multiple Spatial Servers in a distributed system, see *ArcIMS Installation Guide*. ►

## Tip

### Associate new Spatial Servers with Virtual Servers

*In order for your site to utilize a newly added Spatial Server, it must be associated with one or more Virtual Servers. See 'Managing Virtual Servers' later in this chapter for details.*

## Adding an ArcIMS Spatial Server

1. Click the Configure Site tab.
2. Click Servers.

The Servers panel appears.

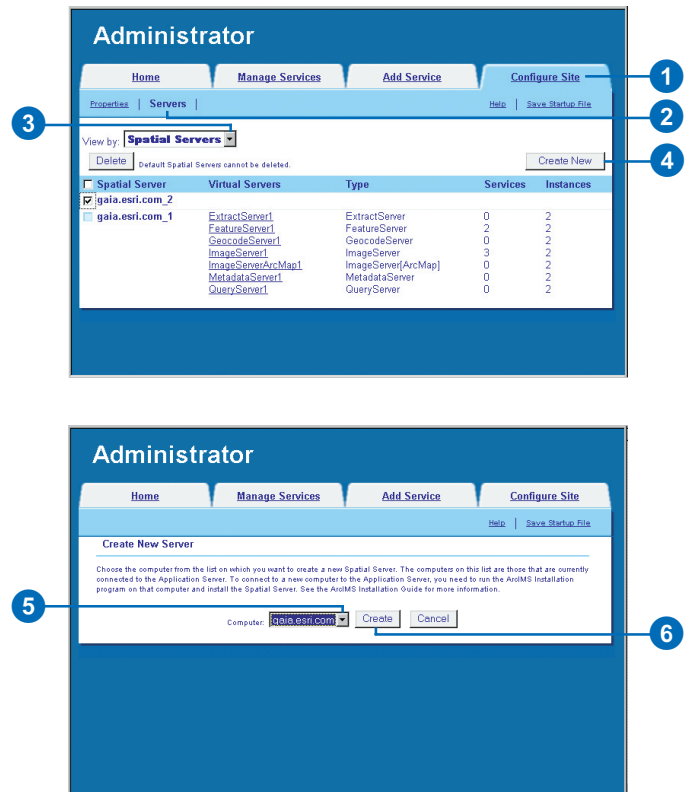
3. Click the View by dropdown arrow and click Spatial Servers.
4. Click Create New.

The Create New Server panel appears.

5. Click the Computer dropdown arrow and click the name of the computer to which the Spatial Server will be added.
6. Click Create.

Depending on the site properties you specified, your changes may be automatically saved to the startup file, or you may be prompted to save them.

The new Spatial Server appears in the list of Spatial Servers.





Each Spatial Server is assigned to one or more Virtual Servers. This association defines the types of requests that are processed by the Spatial Server. Certain types of requests cannot be performed on the same server. For example, a Spatial Server associated with an ArcMap Virtual Server processes requests against ArcMap Image Services. It cannot also be associated with a Metadata Virtual Server, performing Metadata Service-related work. Spatial Server Properties detail any current Virtual Server associations and the number of instances used. For more information on changing server associations and modifying the instances used, see ‘Managing Virtual Servers’ in this chapter. ►

## Viewing Spatial Server properties

1. Click the Configure Site tab.
2. Click Servers.
3. Click the View by dropdown arrow and click Spatial Servers.
4. Click a Spatial Server name in the list of available servers.

The Servers panel appears.

Note: Instances cannot be changed from this window. This task is accomplished through the Virtual Server Properties dialog box.

5. View properties for additional servers by selecting them from the dropdown list.
6. Click OK to close the window.

The first screenshot shows the 'Administrators' window with the 'Configure Site' tab selected. The 'Servers' panel is visible, and the 'View by' dropdown is set to 'Spatial Servers'. A list of spatial servers is shown, including 'cymru7\_1', 'cymru7\_2', 'reddragon.esri.com\_1', and 'reddragon.esri.com\_2'. Each server is associated with a 'Virtual Server' and a 'Type'. The 'Instances' column shows the number of instances for each server.

The second screenshot shows the 'Settings for cymru7\_1' dialog box. It displays the current Virtual Server configuration for the selected spatial server. The 'Virtual Server Type' is 'ImageServer [ArcMap]'. The 'Instances' column shows the number of instances for each virtual server type. The 'Add More Instances' column shows the number of instances that can be added.

Spatial Server	Virtual Server	Type	Services	Instances
cymru7_1	ExtractServer1	ExtractServer	0	2
	FeatureServer1	FeatureServer	0	2
	GeocodeServer1	GeocodeServer	0	2
	ImageServer1	ImageServer	1	2
	MetadataServer1	MetadataServer	0	2
	MetadataV[Snap1	MetadataServer	0	2
cymru7_2	ImageV[Snap1	ImageServer	1	2
reddragon.esri.com_1	ImageServerArcMap1	ImageServer[ArcMap]	1	1
reddragon.esri.com_2	ImageServerArcMap1	ImageServer[ArcMap]	1	1

Virtual Server Type	Instances	Add More Instances
ImageServer [ArcMap]	0	No
ImageServer	2	Yes
MetadataServer	4	Yes
GeocodeServer	2	Yes
QueryServer	2	Yes
ExtractServer	2	Yes
FeatureServer	2	Yes

Removing an ArcIMS Spatial Server removes all of its Virtual Servers. If your services rely on Virtual Servers associated with a Spatial Server that is about to be deleted, those services must be reassigned to Virtual Servers belonging to a different Spatial Server. See ‘Changing service properties’ in this chapter for more information about changing a service’s Virtual Server.

## Tip

### Associated Virtual Servers

*If you try to remove a Spatial Server with associated Virtual Servers, a message box appears informing you that there are Virtual Servers using the Spatial Server. You must remove the association before you can delete the Spatial Server.*

## Removing an ArcIMS Spatial Server

1. Click the Configure Site tab.
2. Click Servers.

The Servers panel appears.

3. Click the View by dropdown arrow and click Spatial Servers.
4. Check the Spatial Server to remove.

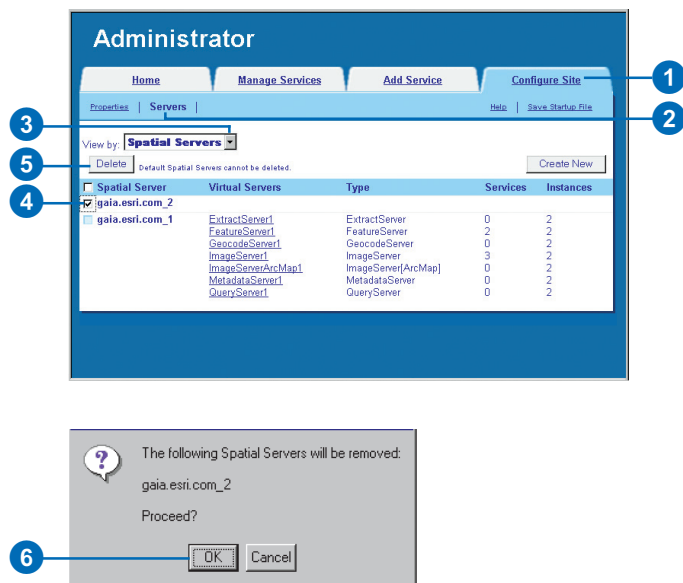
The check box for the default server is unavailable because the default server cannot be removed.

5. Click Delete.

A message box appears warning you that you are about to delete a Spatial Server.

6. Click OK to proceed.

The selected Spatial Server is removed from the list of Spatial Servers.



# Managing Virtual Servers

When ArcIMS starts, six Virtual Servers initialize—Image, Feature, Metadata, Query, Geocode, and Extract. Two additional Virtual Servers—Route Server and ArcMap Server—also initialize if they are installed.

Each Virtual Server determines the functionality of the services assigned to it. You might consider adding Virtual Servers for the following reasons:

- To better organize your services. For example, you could assign all services containing similar data or pertaining to a common geographic region to a new Virtual Server.
- To correspond with a new ArcIMS Spatial Server. If you added a Spatial Server to help handle a high volume of services, existing or new ►

## Tip

### Select Virtual Server type prior to other settings

*The type of Virtual Server determines the options available for your other settings. If you do not make this selection first, you will lose any data you have already entered on this page.*

## Adding a Virtual Server

1. Click the Configure Site tab.
  2. Click Servers.
- The Servers panel appears.

3. Click the View by dropdown arrow and click Virtual Servers.

4. Click Create New.
- The Settings for New Virtual Server panel appears.

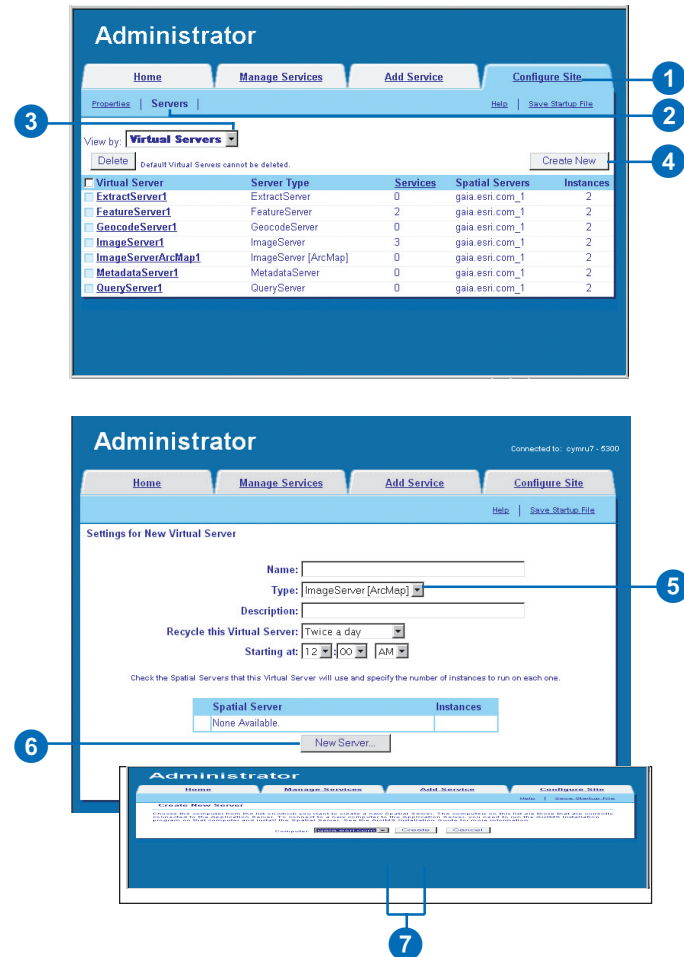
5. Click the Type dropdown arrow and click the type of Virtual Server to add.
6. A list of Spatial Servers available for use with this Virtual Server type is displayed. Click New Server if none are listed or additional servers are desired.

This opens the Create New Server dialog box.

7. Select a Computer and click Create.

As determined by your site properties, you may be prompted to save your changes.

You are returned to the Settings for New Virtual Server panel and must reselect your Virtual Server Type. The new Spatial Server appears in the list displayed at the bottom of the page. ►



Virtual Servers need to be associated with it. In addition, if you added the ArcMap or Route Server extensions to your site, corresponding Virtual Servers must be added.

An individual Spatial Server can be assigned to multiple Virtual Servers. As such, it can be associated with multiple types of Virtual Servers and process varied requests—display an image, stream feature data, geocode an address. However, requests against an ArcMap Image Service cannot be performed efficiently by a Spatial Server that is also processing ►

### Tip

#### Virtual Server recycling

*By default, recycling is available only to ArcMap Image Virtual Servers. Recycling for other Virtual Server types must be activated in the ArcIMS Application Server's property file—`appserver.properties`. Once activated, recycling parameters can be set in the Virtual Server properties dialog box. See ArcIMS Help for details on activating recycling for other Virtual Servers.*

### See Also

*For more information on Spatial and Virtual Servers and how they are utilized, see 'Administering ArcIMS services and servers'.*

8. Type a name for the new Virtual Server.
9. Type a brief description of the Virtual Server.
10. If recycling is enabled for the Virtual Server type, set the frequency and start time for recycling.
11. Check one or more Spatial Servers to associate with the new Virtual Server.
12. Specify the number of instances.
13. Click Create.

The new Virtual Server appears in the list of Virtual Servers.

**Administrator** Connected to: cymru7 - 6300

Home Manage Services Add Service Configure Site

Help | Save, Backup, Exit

Settings for New Virtual Server

8 **Name:** Utilities

9 **Type:** ImageServer [ArcMap]

**Description:** Created Oct 15, 2002

**Recycle this Virtual Server:** Twice a day

**Starting at:** 12:00 AM

10

Check the Spatial Servers that this Virtual Server will use and specify the number of instances to run on each one.

Spatial Server	Instances
11 <input checked="" type="checkbox"/> redragon.esri.com_3	1
<input type="checkbox"/> redragon.esri.com_4	1

12

New Server...

13 **Create** **Cancel**

other types of requests. Therefore, when a Spatial Server is assigned to an ArcMap Virtual Server, it is no longer available for association with other types of Virtual Servers.

To improve system performance, consider changing the number of instances of a particular Virtual Server. This number corresponds to the number of simultaneous hits your Web site can handle.

By default, each Virtual Server, except ArcMap, utilizes two instances per Spatial Server. ArcMap Server uses only one instance per Spatial Server. In addition, an instance is ►

## Tip

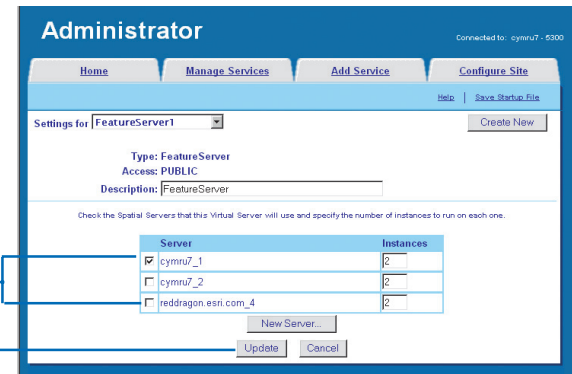
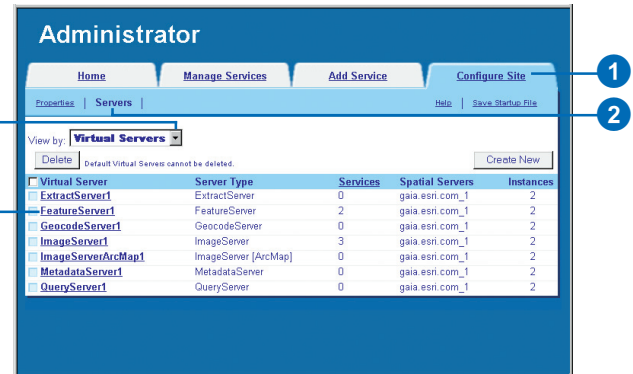
### Server associations and instances

Once a Spatial Server has been associated with a Virtual Server whose type is restricted to a single instance per Spatial Server, it is no longer available to be associated with other Virtual Servers. By default, only ArcMap Server is limited to a single instance.

## Modifying Virtual and Spatial Server associations

1. Click the Configure Site tab.
2. Click Servers.
3. Click the View by dropdown arrow and click Virtual Servers.
4. Click the name of a Virtual Server.
5. Click in the check box to the left of the Spatial Server to add or remove its association with this Virtual Server.
6. Click Update.

The Virtual Server's settings page appears with a list of Spatial Servers available for use with this Virtual Server.





utilized by ArcIMS Monitor and another by ArcIMS Tasker.

You can change or reallocate the number of instances used by a particular Virtual Server. For example, if one Virtual Server is used more heavily than the others, you might consider allocating more instances to it.

If your Web site includes complex maps that are accessed frequently, system resources may need to be reclaimed periodically. Recycling, or automated restarts of the Spatial Servers ►

## Tip

### Single instance control

*If a Virtual Server type has been limited to a single instance per Spatial Server, you cannot edit the instance value. For details on limiting a specific type of Virtual Server to a single instance, see 'Setting up the Application Server property file' in ArcIMS Help.*

## Tip

### Instances and ArcSDE connections

*When a service contains ArcSDE layers, each ArcSDE connection utilizes one instance. To alter this one-to-one relationship, you must change the connection-sharing parameter. For information about changing this parameter, see 'Working with Spatial Server configuration files' in ArcIMS Help.*

## Changing the number of instances

1. Click the Configure Site tab.
2. Click Servers.
3. Click the View by dropdown arrow and click Virtual Servers.
4. Click the name of a Virtual Server.

The Virtual Server's settings page appears.

5. Using the mouse, highlight the value in the Instances column corresponding to the first Spatial Server.

Type a new number of instances.

6. Repeat step 5 to change the number of Instances on other Spatial Servers.
7. Click Update.

The first screenshot shows the 'Administrator' interface with the 'Configure Site' tab selected. The 'Servers' sub-tab is active, and the 'View by' dropdown is set to 'Virtual Servers'. A table lists various Virtual Servers with columns for 'Virtual Server', 'Server Type', 'Services', 'Spatial Servers', and 'Instances'. The 'FeatureServer1' row is highlighted.

The second screenshot shows the 'Settings for FeatureServer1' page. It displays the server type as 'FeatureServer' and the access as 'PUBLIC'. Below, there is a section to 'Check the Spatial Servers that this Virtual Server will use and specify the number of instances to run on each one.' A table lists spatial servers with columns for 'Server' and 'Instances'. The 'cymru7\_1' row is highlighted, and the 'Instances' value is being edited.

Virtual Server	Server Type	Services	Spatial Servers	Instances
ExtractServer1	ExtractServer	0	gaia.esri.com_1	2
FeatureServer1	FeatureServer	2	gaia.esri.com_1	2
GeocodeServer1	GeocodeServer	0	gaia.esri.com_1	2
ImageServer1	ImageServer	3	gaia.esri.com_1	2
ImageServerArcMap1	ImageServer (ArcMap)	0	gaia.esri.com_1	2
MetadataServer1	MetadataServer	0	gaia.esri.com_1	2
QueryServer1	QueryServer	0	gaia.esri.com_1	2

Server	Instances
<input checked="" type="checkbox"/> cymru7_1	2
<input type="checkbox"/> cymru7_2	2
<input type="checkbox"/> reddragon.esri.com_4	2

associated with a specific Virtual Server, accomplishes this task.

When recycling is active, at the designated time, each of the associated Spatial Servers is shutdown and restarted individually. The process is repeated daily at the frequency you set.

By default, recycling is enabled for any ArcMap Virtual Servers and inactive for other types of Virtual Servers. For more information on enabling recycling, see *ArcIMS Help*. ►

## Tip

### Service availability

To prevent service access disruptions, associate multiple Spatial Servers to Virtual Servers where recycling is activated.

## Tip

### Recycling and types of Virtual Servers

By default, recycling is enabled for ArcMap Virtual Servers. To enable recycling for other types of Virtual Servers, edit the Application Server's property file—*appserver.properties*. For details, see *ArcIMS Help*.

## Changing Virtual Server recycling parameters

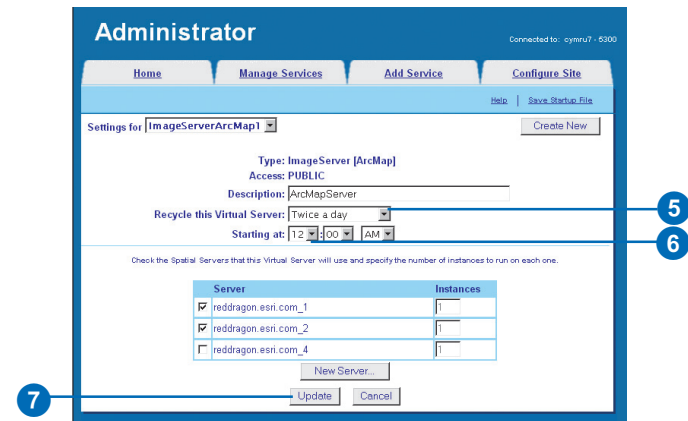
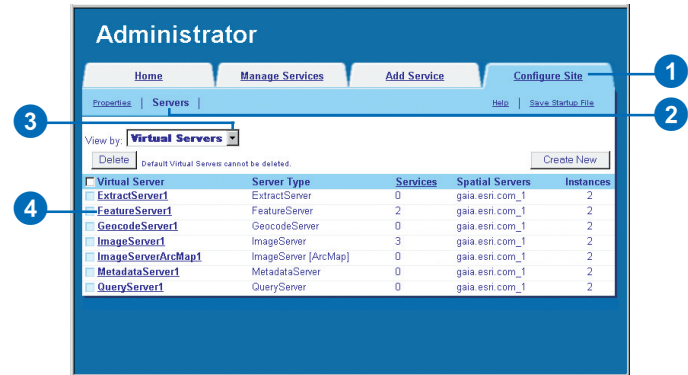
1. Click the Configure Site tab.
2. Click Servers.
3. Click the View by dropdown arrow and click Virtual Servers.
4. Click the name of a Virtual Server.

The Virtual Server's settings page appears.

The bottom of the panel displays a list of Spatial Servers available for use with this Virtual Server. A check mark in the box to the left of the server indicates that it is associated with this Virtual Server.

If recycling is enabled for the Virtual Server type, fields for setting the frequency and start time for recycling are available.

5. Select the frequency at which recycling will occur from the dropdown menu.
6. Select the initial time that recycling is to begin from the dropdown menus.
7. Click Update.



If you no longer need a Virtual Server, use ArcIMS Administrator to remove it. You should be certain that no services are using the Virtual Server before it is deleted. If you find that there is still a service using the Virtual Server, assign it to a different Virtual Server.

The default Virtual Servers created during installation cannot be deleted. Only Virtual Servers added by you can be deleted.

## Removing a Virtual Server

1. Click the Configure Site tab.
2. Click Servers.

The Servers panel appears.

3. Click the View by dropdown arrow and click Virtual Servers.
4. Check the Virtual Server to remove.

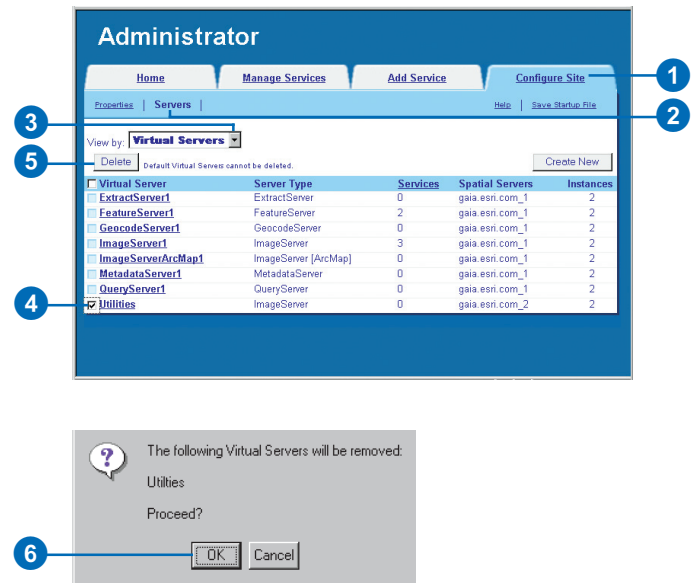
The check boxes for the default Virtual Servers are unavailable because they cannot be deleted.

5. Click Delete.

A message box appears warning you that you are about to delete a Virtual Server.

6. Click OK to proceed.

The selected Virtual Server is removed from the list of Virtual Servers.



# Administering ArcSDE services and connections

The ArcSDE component of the ArcIMS Service Administrator must be installed and configured in order to access the following features. For instructions, see ‘Installing ArcIMS Service Administrator’ in the *ArcIMS Installation Guide*.

The ArcIMS Service Administrator presents a unified interface for managing ArcIMS and ArcSDE. Because ArcIMS and ArcSDE have different administrative functions, you must view and manage them separately.

The first time you stop, start, pause, or resume an ArcSDE service or terminate a connection to a service, you are prompted to enter your password. This is the password for the ArcSDE service, not the password you used to log in to ArcIMS Service Administrator. You only have one chance to enter your password, so be careful. If you enter the wrong password, you must terminate your administration session and log in again.

## ArcSDE services

An instance of an ArcSDE application server is called an ArcSDE service. As with ArcIMS services, the ArcIMS Service Administrator lets you view the properties of an ArcSDE service. These properties include the name of the server and the instance, the port number, the ArcSDE release number, the status of the service, and the number of connections to it. You can pause, resume, start, and stop an ArcSDE service. You can also view and terminate its connections.

## Connections

When a user connects to an ArcSDE service, a connection is added to the number of connections on the Manage Services panel. When you click the number of connections to a particular ArcSDE service, a panel appears with more detailed information about all of the connections to it. You can view the name of the node, the name of the user, the process ID, and the start time for each connection. You can also terminate one or all of the connections to that service.

# Starting ArcSDE service administration

When you start ArcIMS Service Administrator for the first time, you are prompted to create a login. You must type a username and password, then confirm your password by typing it again. Your username and password are required for all future administration sessions.

After you have logged in to ArcIMS Service Administrator, choose ArcSDE as the type of services to manage. You will only see the panels and tools specific to ArcSDE service administration.

The Manage Services tab that appears gives a quick overview of the available ArcSDE services.

## Tip

### Switching between service types and refreshing service information

To switch from ArcSDE service administration to ArcIMS service administration, click Home, click ArcIMS, and click OK. To refresh service information, click Home, click ArcSDE, and click OK.

1. Open a Web browser.
2. Type the URL `http://<localhost>.<domain>.com/esriadmin` in the Location or Address text box.

3. Type your username and password on the page that appears.

Username and passwords cannot contain vertical bars.

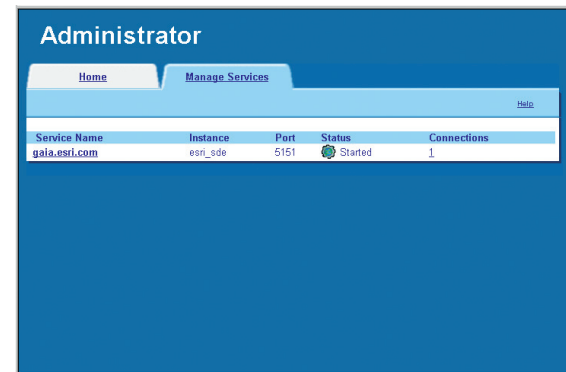
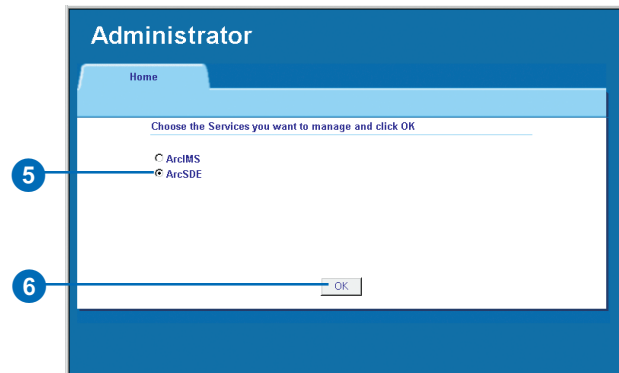
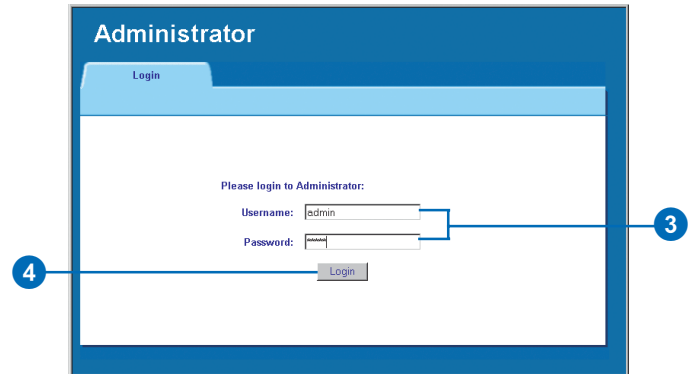
If this is your first time logging in to ArcIMS Service Administrator, you are prompted to create a new username and password. Confirm your password by typing it again.

4. Click Login.

If you have both ArcIMS and ArcSDE installed, a panel appears prompting you to choose the type of services to manage.

5. Click ArcSDE.
6. Click OK.

The Manage Services tab appears, showing a list of available ArcSDE services.





## Viewing ArcSDE service properties

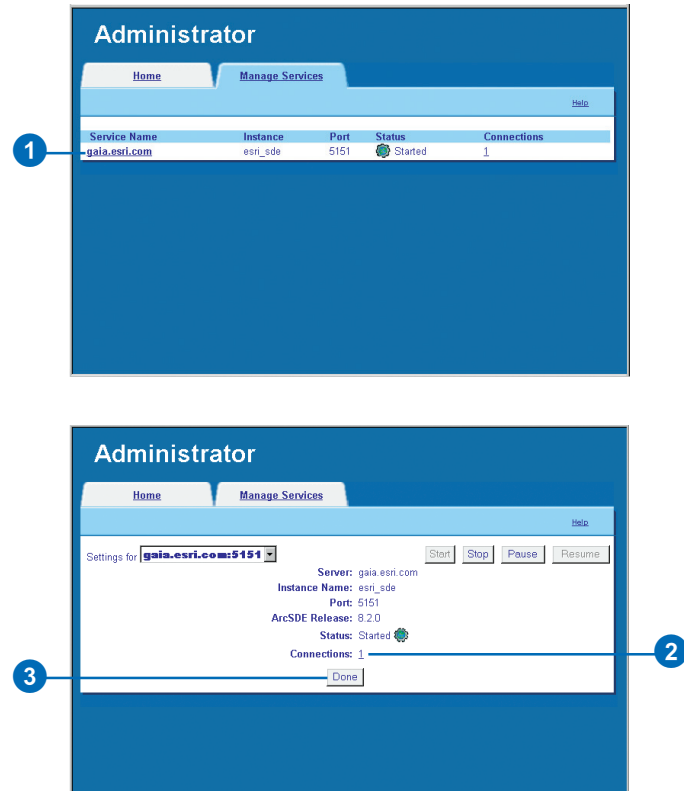
When you click the name of an ArcSDE service in the list of services, a panel appears with detailed information about the service. The information is the same as that shown on the Manage Services tab. It includes the name of the instance, the port number, the status of the service, and the number of connections to it. On the service properties page you'll also see the ArcSDE release number.

Stop, Start, Pause, and Resume buttons are also available.

1. Click the name of an ArcSDE service in the list of services.

A panel appears with detailed information about the service.

2. Click the number of connections to see information about each connection.
3. When you are finished viewing the properties of an ArcSDE service, click Done or click Manage Services to return to the list of ArcSDE services.



## Stopping, starting, pausing, and resuming an ArcSDE service

Use the Stop, Start, Pause, and Resume buttons to change the status of the service. Stopping a service removes all connections to it. Pausing a service does not sever existing connections but blocks new connections from being established.

### Tip

#### Login password versus ArcSDE service password

*The first time you change the status of a service or terminate connections to it, you are prompted to enter your password. This is the password for the ArcSDE service, not the password you used to log in to Service Administrator. You only have one chance to enter your password, so be careful. If you enter the wrong password, you must terminate your administration session and log in again.*

## Starting and stopping an ArcSDE service

1. Click the name of an ArcSDE service.

A panel appears with detailed information about the service.

2. Click Stop.

A message box appears warning you that you are about to stop a service.

3. Click OK to continue.

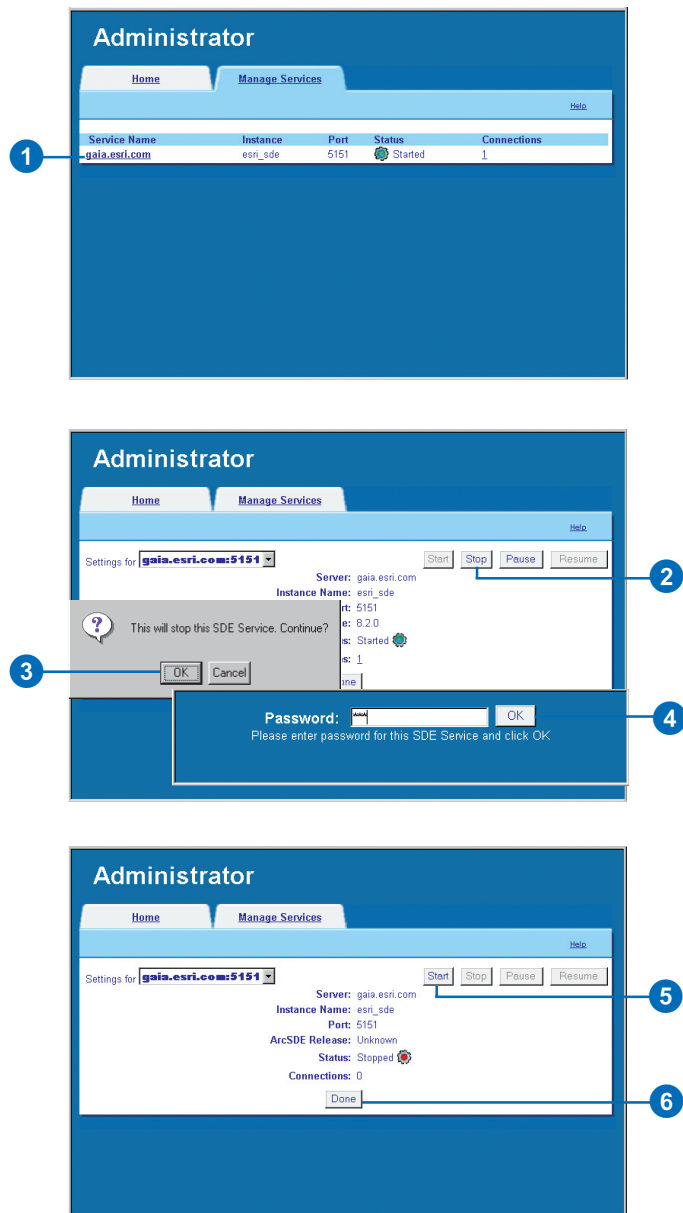
If this is the first time you have changed the status of a service or terminated a connection, a new browser window opens prompting you to enter a password.

4. Type your password and click OK.

The status of the ArcSDE service changes to Stopped, and all connections are removed.

5. Click Start to restart your service.

6. Click Done or click Manage Services to return to the list of ArcSDE services.



## Pausing and resuming an ArcSDE service

1. Click the name of an ArcSDE service.

A panel appears with detailed information about the service.

2. Click Pause.

If this is the first time you have changed the status of a service or terminated a connection, a new browser window opens prompting you to enter a password.

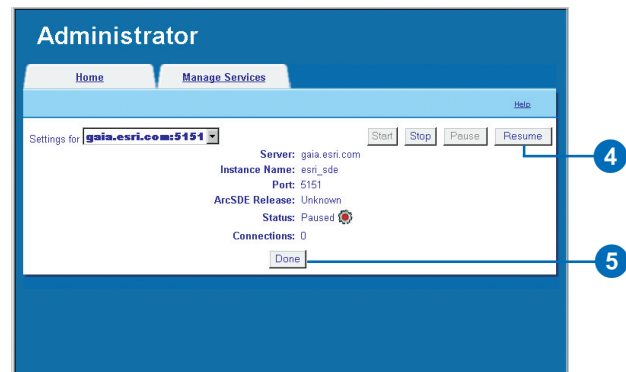
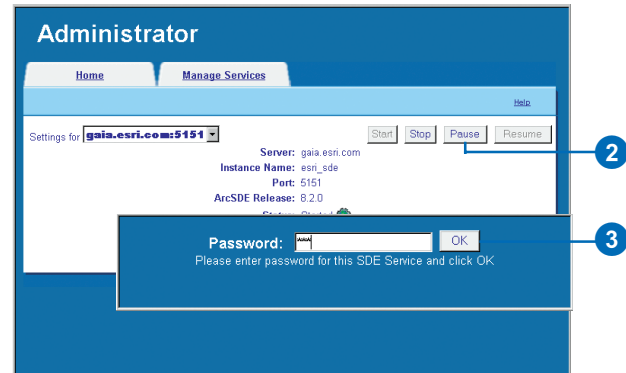
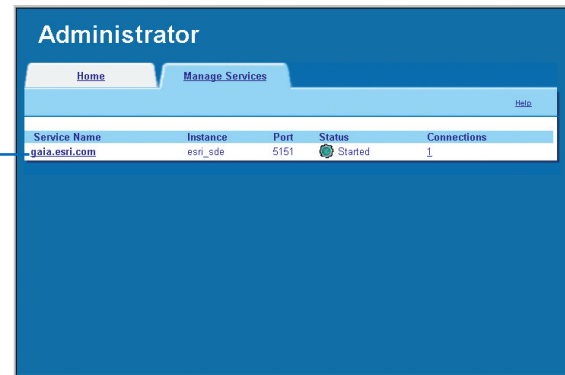
3. Type your password and click OK.

The status of the ArcSDE service changes to Paused. New connections are not permitted, but existing connections are not removed.

4. Click Resume.

New connections to the service can now be made.

5. Click Done or click Manage Services to return to the list of ArcSDE services.



## Viewing connection properties

When you click the number of connections for a particular ArcSDE service, a panel appears with more details about each connection. You can see when the connection was made, by whom, and from what computer.

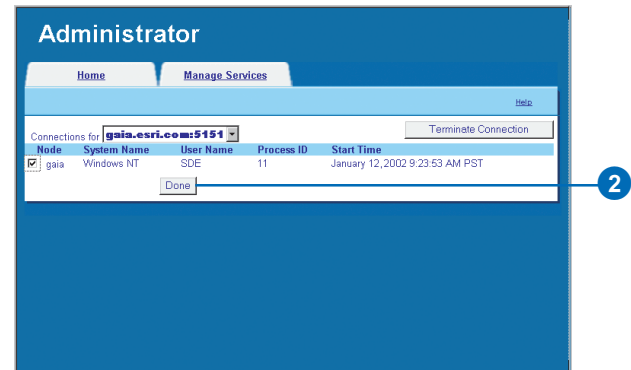
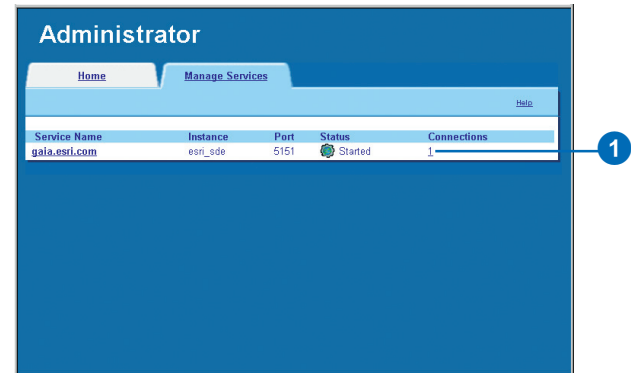
There is also a Terminate Connection button that allows you to terminate one or more connections to the ArcSDE service.

### Tip

#### Accessing connection properties from the service properties panel

*Click the number of connections on the Manage Services tab or on the service properties panel to bring up the connection properties panel.*

1. Click the number of connections to an ArcSDE service.  
  
A panel appears with detailed information about each connection.
2. When you are done viewing the properties of a connection, click Done or click Manage Services to return to the list of ArcSDE services.



## Terminating a connection

You can terminate an existing ArcSDE connection by selecting it, then clicking Terminate Connection. This functionality is equivalent to the `sdemon -o kill` command.

### Tip

#### Login password versus ArcSDE service password

*The first time you change the status of a service or terminate connections to it, you are prompted to enter your password. This is the password for the ArcSDE service, not the password you used to log in to ArcIMS Service Administrator. You only have one chance to enter your password, so be careful. If you enter the wrong password, you must terminate your administration session and log in again.*

1. Click the number of connections to an ArcSDE service.  
  
A panel appears with detailed information about each connection.
2. Check the connections that you want to terminate or check the check box at the top of the list to select all connections.
3. Click Terminate Connection.  
  
If this is the first time you have changed the status of a service or terminated a connection, a new browser window opens prompting you to enter a password.
4. Type your password and click OK.  
  
The selected connections are removed from the list of connections.
5. Click Done or click the Manage Services tab to return to the list of ArcSDE services.

