



# ArcSight SmartConnectors

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## Configuration Guide for IBM Lotus Domino Web Server File SmartConnector

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# Configuration Guide for IBM Lotus Domino Web Server File SmartConnector

This guide provides information for installing the SmartConnector for IBM Lotus Domino Web Server File for log file event collection. This SmartConnector is supported for installation on Windows platforms.

## Intended Audience

This guide provides information for IT administrators who are responsible for managing the ArcSight software and its environment.

## Additional Documentation

The ArcSight SmartConnector documentation library includes the following resources:

- [Technical Requirements Guide for SmartConnector](#), which provides information about operating system, appliance, browser, and other support details for SmartConnector.
- [Installation and User Guide for SmartConnectors](#), which provides detailed information about installing SmartConnectors.
- [Configuration Guides for ArcSight SmartConnectors](#), which provides information about configuring SmartConnectors to collect events from different sources.
- [Configuration Guide for SmartConnector Load Balancer](#), which provides detailed information about installing Load Balancer.

For the most recent version of this guide and other ArcSight SmartConnector documentation resources, visit the [documentation site for ArcSight SmartConnectors 8.4](#).

## Contact Information

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## Product Overview

The IBM Lotus Domino Web Server is an integrated Web application server that can host Web sites that both Internet and intranet clients can access, and can serve pages that are stored in the file system or in a Domino database. When a Web browser requests a page in a Domino database, Domino translates the document into HTML. When a Web browser requests a page in an HTML file, Domino reads the file directly from the file system. Then the Web server uses the HTTP protocol to transfer the information to the Web browser. Using Domino, any change made to a database is automatically reflected on the Web server.

# Preparing for SmartConnector Installation

Complete the following to prepare for the SmartConnector installation:

## Preparing to Install the Connector

Before you install any SmartConnectors, make sure that the OpenText ArcSight products with which the connectors will communicate have already been installed correctly (such as ArcSight ESM or ArcSight Logger).

For complete product information, refer to the *Administrator's Guide to ArcSight Platform*, available on [ArcSight Documentation](#).

If you are adding a connector to the ArcSight Management Center, see the *ArcSight Management Center Administrator's Guide* available on [ArcSight Documentation](#) for instructions.

Before installing the SmartConnector, be sure the following are available:

- Local access to the machine where the SmartConnector is to be installed
- Administrator passwords

## Installing Domino on Windows Systems

1. To install the Lotus Domino Server program files on a Windows system:
  - Make sure that the required hardware and software components are in place and working
  - Read the Release Notes for operating system and network protocol requirements and for any last-minute changes or additions to the documentation.
  - Temporarily disable any screen savers and turn off any virus-detection software.
  - Make sure that all other applications are closed. Otherwise, you could corrupt any shared files, and the installation program might not run properly.

- If you are upgrading to Lotus Domino from a previous release, see IBM's Lotus Domino *Upgrade Guide*.
2. Run the install program **setup.exe**, which is on the installation CD.
  3. Read the Welcome window and click **Next**. Then read the License Agreement and click **Yes**.
  4. Enter the administrator's name and the company name.
  5. Choose whether you want to install partitioned servers.
  6. Select the program and data directory in which to copy the software; then click **Next**. If you are installing partitioned servers, select only a program directory.
  7. Select the server type you acquired:
    - Domino Utility Server: Installs a Lotus Domino server that provides application services only, with support for Lotus Domino clusters. The Domino Utility Server is a new installation type for Lotus Domino 6 that removes client access license requirements. Note that it does **not** include support for messaging services.
    - Domino Messaging Server: Installs a Lotus Domino server that provides messaging services. Note that it does **not** include support for application services or Lotus Domino clusters.
    - Domino Enterprise Server: Installs a Lotus Domino server that provides both messaging and application services, with support for Lotus Domino clusters.



All three types of installation support Lotus Domino partitioned servers. Only the Lotus Domino Enterprise Server supports a service provider (xSP) environment.

8. Click **Customize** to select which components to install, or click **Next** to accept all components.
9. If you are installing a partitioned server, specify a data directory for each partition.
10. Specify the program folder or accept Lotus Applications as a program folder that will contain the software.
11. Click **Finish** to complete the install program.
12. Select **Start > All Programs > Lotus Applications > Lotus Domino Server** to start the Server Setup program.

For information about comprehensive installation instructions for IBM Lotus Domino Web Server, refer to the IBM product documentation.

# Installing and Setting Up the Lotus Domino Administrator

When you install and set up a Lotus Domino server, the Server Setup program does not install the Lotus Domino Administrator, which is the administration client. You must run the Lotus Domino Administrator client setup to install the Lotus Domino Administrator client.



Do not install the Lotus Domino Administrator on the same system on which you installed the Lotus Domino server. Doing so compromises Lotus Domino's security and impairs server performance.

To set up the Lotus Domino Administrator:

1. Make sure the Lotus Domino server is running.
2. Start the Lotus Domino Administrator. The first time you start the Lotus Domino Administrator, a setup wizard starts.
3. After you answer the questions displayed by the setup wizard, the Lotus Domino Administrator client opens automatically.

## Starting the Lotus Domino Administrator

To start Lotus Domino Administrator:

1. Make sure the Lotus Domino server is running.
2. Do one of the following:
  - a. From the Windows control panel, click **Start > Programs > Lotus Applications > Lotus Domino Administrator**.
  - b. Click the **Lotus Domino Administrator** icon on the desktop.
  - c. From the Notes client, click the **Lotus Domino Administrator** bookmark button or select **File > Tools > Server Administration**.

## Setting up Lotus Domino Web Logging

To set up logging on your Lotus Domino server, enable one of the logging methods in the HTTP section of the server document in the Lotus Domino Directory. (Because logging is



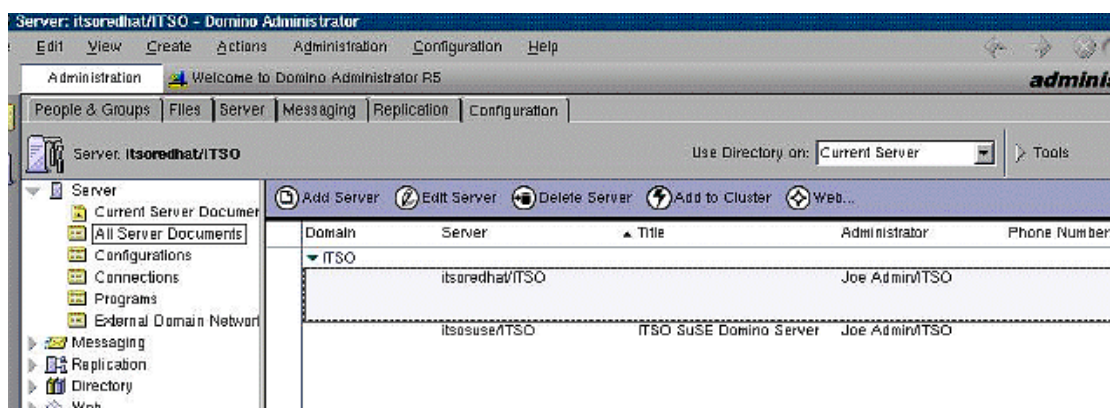
very server-intensive, it is disabled by default.) When you enable logging to text files and specify a directory for the files, Lotus Domino automatically creates the access log and error log files.

Notice that you can select the format for the access log files (Common or Extended Common) and the time format (LocalTime or GMT). The Common format records only access information. The Extended format tracks access, agent, and referred information in the access log file.

## Changing Settings on the Lotus Domino Web Server


To change the settings of the Lotus Domino Web server:

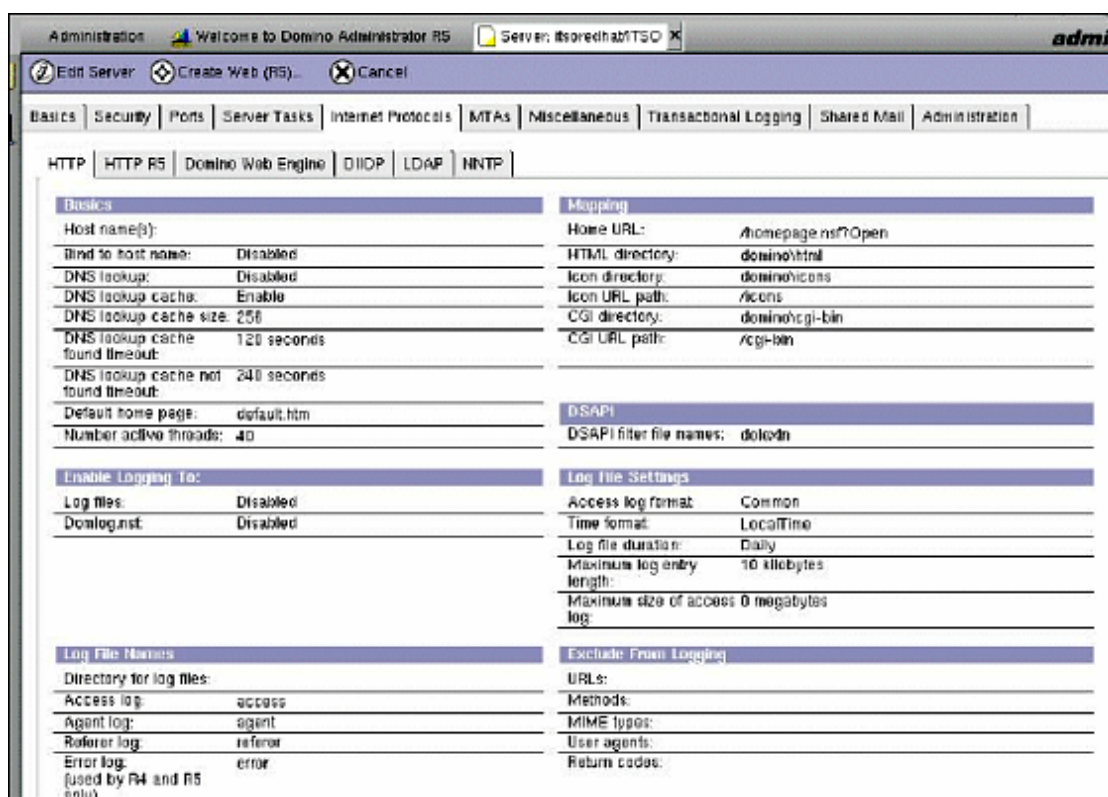
1. Start the Lotus Domino Administrator.
2. Choose the server you want to reconfigure.
3. Choose the **Configuration** tab.
4. Click **Server > All Server Documents**.
5. Double-click on the name of the Lotus Domino server you want to change or select the server and click **Edit Server**.



6. To change the Lotus Domino Web server port, click **Ports -> Internet Ports** in the server document. The **Web** tab should be selected by default. It is best to use the default port 80 for a non-secure Web server and port 443 for a secure Web server.  
Here you also can select whether to allow name and password authentication for clients connecting over TCP/IP; the default is **Yes**. Also specify whether to allow anonymous connection over TCP/IP; again, the default is **Yes**. The same is true for the SSL protocol.
7. Select **Internet Protocols > HTTP**. In this section, make the following changes:

- a. In the **Basic** section, enter a **hostname** and enable the **Bind to host name** option if you use a Lotus Domino partitioned environment. .
- b. Set the **Maximum request over a single connection** and **Number of active threads**, options.
- c. In the **Mapping** section, customize the **Home URL**. It should be either a Notes database or an HTML file.

 The secure server will not run until you create a server certificate.



The screenshot shows the 'Edit Server' dialog box in the Lotus Domino Administrator console. The 'Basic' tab is selected, and the 'Mapping' section is expanded. The 'Home URL' is set to '/homepage.nsf?Open'. The 'Log File Settings' section is also expanded, showing 'Access log format' set to 'Common' and 'Log file duration' set to 'Daily'.

Section	Property	Value
Basic	Host name(s):	
	Bind to host name:	Disabled
	DNS lookup:	Disabled
	DNS lookup cache:	Enable
	DNS lookup cache size:	256
	DNS lookup cache found timeout:	120 seconds
	DNS lookup cache not found timeout:	240 seconds
	Default home page:	default.htm
	Number active threads:	40
	Mapping	Home URL:
HTML directory:		domino/html
Icon directory:		domino/icons
Icon URL path:		/icons
CGI directory:		domino/cgi-bin
DSAPI	DSAPI filter file names:	doledn
	Log File Settings	
Log File Settings	Access log format:	Common
	Time format:	LocalTime
	Log file duration:	Daily
	Maximum log entry length:	10 kilobytes
	Maximum size of access log:	0 megabytes
Log File Names	Directory for log files:	
	Access log:	access
	Agent log:	agent
	Referer log:	referer
	Error log:	error
Exclude From Logging	URLs:	
	Methods:	
	MIME types:	
	User agents:	
	Return codes:	

## Setting up Lotus Domino Web Server Logging to Text Files

To set up logging the Lotus Domino Web Server to text files, you must enable logging (by default, logging is disabled). By default, Lotus Domino stores log files in the data directory. While the Web server is running, it creates new log files depending upon the log file duration settings. If the Web server is not running, it creates log files as needed when the Web server is started.

Some information may increase the size of the log file without providing meaningful information, such as requests for graphics or icons, so you may want to exclude that type of information from the log.

To enable logging to text files:

1. From the **Lotus Domino Administrator**, click the **Configuration** tab.
2. Open the Server document for the Web server.
3. Click the **Internet Protocols - HTTP** tab.
4. Under **Enable Logging To**, select the **Enable the Log Files** field.
5. Under **Log File Settings**, complete these fields:
  - Access Log format
  - Time format
  - Log file duration
  - Maximum log entry length
  - Maximum size of access log
6. Under **Log File Names**, complete these fields:
  - Directory for log files  
The directory to store the log files; if this field is blank, Domino stores the log files in the data directory.
  - Access log  
The prefix to use when creating the Access log file. The default is access. Do not enter a file extension. For example, with the prefix set to **access**, an access log file name could be access12072005.log.
7. (Optional) Under **Exclude From Logging**, complete the fields as necessary to exclude certain types of information from the log file.
8. Save the document.

# Installing the SmartConnector

The following sections provide instructions for installing and configuring your selected SmartConnector.



Connector Appliance/ArcSight Management Center supports mounting for Network File System (NFS) and CIFS (Windows) shares. When you install this connector on one of these devices, establish a CIFS mount on the device before adding the connector. Provide this share name during connector configuration. For more information, see **Remote File Systems** in the Connector Appliance or ArcSight Management Center Administrator's Guide.

## Installing and Configuring the Connector

1. Start the installation wizard.
2. Follow the instructions in the wizard to install the core software.
3. Specify the relevant [Global Parameters](#), when prompted.
4. From the **Type** drop-down list, select **IBM Lotus Domino Web Server File** as the type of connector, then click **Next**.
5. Specify values for the following parameters , then click **Next**:

Parameter	Description
Log File	Full path to the log file.

6. Select a [destination and configure parameters](#).
7. Specify a name for the connector.
8. (Conditional) If you have selected **ArcSight Manager** as the destination, the certificate import window for the ArcSight Manager is displayed. Select **Import the certificate to the connector from destination**, and then click **Next**. The certificate is imported and the **Add connector Summary** window is displayed.



**Note:** If you select Do not import the certificate to connector from destination, the connector installation will end.

9. Select whether you want to install the connector as a service or in the standalone mode.
10. Complete the installation.

11. [Run the SmartConnector.](#)

For instructions about upgrading the connector or modifying parameters, see [Installation and User Guide for SmartConnector](#).

## Device Event Mapping to ArcSight Fields

The following section lists the mappings of ArcSight data fields to the device's specific event definitions. See the *ArcSight Console User's Guide* for more information about the ArcSight data fields.

### IBM Lotus Domino Web Server Field Mappings

ArcSight ESM Field	Device-Specific Field
Application Protocol	Service plus Service Version
Bytes Out	Bytes
Destination Address	Dst Address
Destination UserID	Auth User
Device Custom String 1	Elapse Time (ms)
Device Custom String 2	Translated URL
Device Custom String 3	Referring URL
Device Event Class Id	Return Code
Device Product	Domino Web Server
Device Receipt Time	Date
Device Severity	Return Code
Device Vendor	IBM
Name	Domino Web Access
Request Client Application	User Agent
Request Cookies	Cookie
Request Method	Method
Request URL	Request
Source Address	Src Address
Transport Protocol	TCP

please confirm that when customer used MySQL JDBC driver 5.1.38, they had issue to receive events. And the workaround is to apply older driver 5.0.8, after that connector is able to receive events.

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