XenApp Connector for Configuration Manager 2007

2015-03-24 19:49:34 UTC

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XenApp Connector for System Center Configuration Manager 2007 enables you to use Microsoft System Center Configuration Manager 2007 to:

- Deploy and publish applications to XenApp servers
- Manage the delivery of Microsoft Windows Server Update Services (WSUS) software updates to XenApp servers

XenApp Connector uses the Power and Capacity Management Concentrator to coordinate the power states and load consolidation of farm servers when sending Configuration Manager advertisements and installing applications and Windows updates.

XenApp Connector has two components:

- XenApp Data Connector
- Configuration Manager Console Extension

XenApp Data Connector

XenApp Data Connector is the bridge between the XenApp farm and Configuration Manager. It manages XenApp server collections and worker groups in Configuration Manager and gathers configuration data defined in the Configuration Manager console to configure XenApp servers. XenApp Data Connector manages XenApp servers and gathers farm data using the XenApp PowerShell SDK.

Configuration Manager Console Extension

Configuration Manager Console Extension extends the Configuration Manager console to provide a graphical user interface enabling you to deploy applications to XenApp servers and publish XenApp hosted applications. Install Configuration Manager Console Extension on the same server as the Configuration Manager console.

System Requirements for XenApp Connector for Configuration Manager 2007

XenApp Connector for Configuration Manager 2007 supports XenApp 6.5 for Windows Server 2008 R2.

The XenApp Connector components, XenApp Data Connector and Configuration Manager Console Extension, can be installed on a single server or on different servers within a single farm.

The XenApp Connector requires less than 1 MB of disk space to install and creates only log files that can be automatically purged. The hardware requirement of the XenApp Connector components are identical to those of their supported operating systems.

XenApp Data Connector

Supported Windows operating systems:

- Microsoft Windows Server 2008 R2
- Microsoft Windows 7

XenApp Data Connector requires connectivity to:

- Computer running XenApp 6.5 PowerShell SDK
- Power and Capacity Management Concentrator (XenApp 6.5 for Windows Server 2008 R2 version)
- SMS Provider for the Configuration Manager site

Configuration Manager Console Extension

Supported Windows operating systems:

- Microsoft Windows Server 2008 R2
- Microsoft Windows Server 2008 (32-bit and 64-bit)

Supported versions of Microsoft System Center Configuration Manager 2007:

- Microsoft System Center Configuration Manager 2007 R2

- Microsoft System Center Configuration Manager 2007 R3

Install and Set Up XenApp Connector

Before you install XenApp Connector for Configuration Manager 2007:

- Identify the computers in your XenApp Connector installation:
  - Decide where to install XenApp Data Connector.
  - Decide where to install Configuration Manager Console Extension. Configuration Manager Console Extension is installed on the same server as Microsoft System Center Configuration Manager 2007 console.
  - Identify the SMS Provider for the Configuration Manager site.
  - Identify the computer you plan to use as your XenApp PowerShell host. This is the computer running the XenApp PowerShell SDK that the XenApp Data Connector uses to manage XenApp servers and gather farm data. Ensure this computer is not managed by Power and Capacity Management.
  - Identify a server running the Power and Capacity Management Concentrator that XenApp Data Connector will use to manage power states and load consolidation.
- Install PowerShell and enable PowerShell remoting on the servers you plan to use for the following:
  - XenApp Data Connector
  - XenApp PowerShell host
  - Power and Capacity Management Concentrator
  - SMS Provider for the Configuration Manager site

  You can enable PowerShell remoting through the cmdlets Enable-PSRemoting and Set-ExecutionPolicy with RemoteSigned in the 32- and 64-bit PowerShell windows.
- To enable XenApp Data Connector to communicate with the XenApp PowerShell host, the server running the Power and Capacity Management Concentrator, and the SMS Provider for the Configuration Manager site:
  - Determine which port to use as the remote PowerShell port and decide whether to use an SSL connection.
  - Open the port on the firewalls or routers used by these servers.
- In the policies of the computer on which you install the XenApp Data Connector, ensure that the Do not allow storage of passwords and credentials for network authentication option is disabled.
- Create or designate the account used to run the XenApp Data Connector, with these attributes:
  - Citrix full administrator

- Local administrator on each of the following:
  - XenApp PowerShell host
  - Server running the Power and Capacity Management Concentrator
  - SMS Provider for the Configuration Manager site
- Rights to log on as batch job on the computer on which the XenApp Data Connector will be installed
- Appears on the Security tab of Configuration Manager site's properties dialog box. (This dialog box is viewed and edited through the Configuration Manager console.)

After installing and configuring the Configuration Manager Console Extension, you add this account to the Security tab of Citrix XenApp Farm collection's properties dialog box. The XenApp Connector configuration wizard creates Citrix XenApp Farm collection.

To install and configure XenApp Connector

1. On the server on which you want to install XenApp Connector, if Configuration Manager is running, close it.

2. Locate XAConfigMgr07.exe on the XenApp installation media and run it on the server on which you want to install XenApp Connector.

3. Follow the instructions in the installation wizard.

4. If Launch Configuration when Setup exits is selected on the last screen of the installation wizard, the configuration wizard starts when the installation is complete. If you choose not to run the configuration wizard now, you can do so later by running ConfigWizard.exe.

5. Follow the instructions in the configuration wizard. Depending on which components you are installing, the configuration wizard asks for the following information:

   - Credentials for the account used to run XenApp Data Connector

   - For the XenApp PowerShell host, the server running the Power and Capacity Management Concentrator, SMS Provider for the Configuration Manager site:

     - Fully qualified domain name (FQDN)

     - Remote PowerShell port

     - Whether to configure the remote PowerShell port to use an SSL connection
   - Site code of the Configuration Manager site

   - Whether to enable Windows Server Update Services (WSUS) for use with the XenApp Connector

   - Whether to create a maintenance window for XenApp servers and maintenance window's start time, end time, and frequency
6. On the Settings Summary page, click Advanced Settings to edit the following information:

   - Advertisement processing interval, which is how often XenApp Connector checks the Configuration Manager database for new advertisements targeted at the XenApp farm

   - XenApp farm sync interval, which is how often XenApp Connector updates the Configuration Manager database with new, changed, or removed XenApp farm servers and worker groups

   - XenApp publication interval, which is how often XenApp Connector checks the Configuration Manager database for new or updated publication information

   - XenApp power-on interval, which is how long in advance off-line servers are powered on to receive software updates

   - Advertising wait settings, such as the number of days an advertisement waits before logging off connected users and the number of minutes after a maintenance notification message is sent until users are forced to log off

7. If you installed the Configuration Manager Console Extension, after the configuration wizard is finished running, go to the Configuration Manager console and add the account used to run XenApp Data Connector to the Security tab of Citrix XenApp Farm collection's properties dialog box.

Uninstalling XenApp Connector

Uninstall the components of XenApp Connector for Configuration Manager 2007 through the Control Panel.

When XenApp Data Connector is uninstalled, all files and folders created when it installed on the server are removed.

When the Configuration Manager Console Extension is uninstalled, these items are removed from the Configuration Manager console:

- XenApp Publications folder in Software Distribution
- XenApp Publication Container in Packages
- All folders named Programs for XenApp in the Programs folder in each package container

Refresh the Configuration Manager console to see the results of the uninstall.

When you uninstall XenApp Connector, some items are not removed:

- Log files are not removed.
- Items are not removed from the Configuration Manager database. When you reinstall XenApp Connector, items that were visible in the Configuration Manager console are visible again.

Enabling Power and Capacity Management for XenApp Connector

XenApp Connector for Configuration Manager 2007 uses the XenApp Power and Capacity Management feature to manage the power states and load consolidation of XenApp servers when sending Configuration Manager advertisements and installing applications or Windows Server Update Service (WSUS) updates. This enables XenApp Connector to install applications and WSUS updates on servers managed by Power and Capacity Management with minimal disruption to user sessions.

To allow Power and Capacity Management to manage power states and load consolidation of XenApp servers, XenApp Connector changes the servers' power controller preference and power control mode:

- If no advertisements are pending for a XenApp server, the server's power controller preference remains at 1st choice, the default ranking for servers managed by Power and Capacity Management.
- When you designate an online XenApp server to receive an advertisement, XenApp Connector:
    - Takes control of the server's power controller preference and changes it to 5th choice
    - Sets the server state to Maintenance just before the application is installed
    - Changes the server's power controller preference to 1st choice, relinquishes control of the server's power controller preference, and enables users to log on, after advertisement processing completes
- When you designate an offline XenApp server to receive an advertisement, XenApp Connector:
    - Takes control of the server's power controller preference and changes it to 6th choice
    - Sets the server state to Maintenance and the server control mode to Unmanaged for the duration of the maintenance window or the processing of all pending advertisements, whichever occurs first
    - Powers on the server
    - Changes the server's power controller preference to 1st choice and relinquishes control of the server's power controller preference, after advertisement processing completes or the maintenance window closes

  The XenApp power-on interval, which is set when XenApp Connector is configured, determines how long in advance of processing advertisements offline servers are powered on.

Note: While a XenApp server's power controller preference is controlled by XenApp Connector, attempting to change the server's power controller preference using Power

and Capacity Management console results in a warning saying that changing the servers power controller preference with the console might cause undesirable effects.

XenApp Connector uses Power and Capacity Management to manage the installation of installed XenApp applications and WSUS updates; it does not affect the deployment of Microsoft Application Virtualization (App-V) sequences.

Citrix recommends you document your current XenApp Power and Capacity Management server configuration before modifying it for XenApp Connector.

To enable XenApp Connector to use Power and Capacity Management

To enable XenApp Connector to use Power and Capacity Management to manage XenApp server power states and load consolidation, from the Power and Capacity Management console, configure these settings for the XenApp server:

- Set power control mode to Managed.
- Set power control preference to 1st choice, 5th choice, or 6th choice.

Deploying Applications to XenApp Servers and Publishing Applications with XenApp Connector

XenApp Connector for Configuration Manager 2007 uses the same packages and programs to deploy applications to XenApp servers that Microsoft System Center Configuration Manager uses to distribute software to Configuration Manager client computers. You can use XenApp Connector to install applications on XenApp servers and deploy Microsoft Application Vitalization (App-V) sequences to XenApp servers. After deploying an application or App-V sequence to XenApp servers, use XenApp Connector to publish it.

To deploy an App-V sequence to XenApp servers, use the Configuration Manager App-V deployment procedure for terminal servers.

To deploy an installed XenApp application to XenApp servers, use Configuration Manager to create a software distribution package and program for the application. Advertise this package and program to deploy the application:

- If the application can be installed without restarting the server
- For applications that require restarting the server, if you plan to place all servers in the farm into maintenance at the same time to install the application

Otherwise, after creating the software distribution package and program, create and advertise a program for XenApp for the application. This program for XenApp enables you to deploy the application in a way that manages XenApp user connections so that the application is installed without disrupting user sessions.

For Configuration Manager to manage a XenApp server, send it advertisements, and include it in publications, its information must be included in the Configuration Manager database.

To create a program for XenApp

1. In the Configuration Manager console, expand the software distribution container for the application you want to deploy.
2. Within the Programs folder, right-click Programs for XenApp and select New > New program for XenApp.
3. Enter the name, installer program, and any comments for the program for XenApp, and click OK.

This creates a program for XenApp for the application you want to deploy. You can automatically access the publication wizard now or configure the publication of the application later. Automatically accessing the publication wizard from the program wizard specifies the package associated with the program as the target of the application being

published.

To publish an application

Publishing an applications from the Configuration Manager console is similar to publishing application from the Citrix AppCenter console, but instead of publishing to servers, you publish to a collection or package. The application publishing wizard that XenApp Connector provides within the Configuration Manager console enables you to specify the published application's type and how it appears to users, which users can access it, and its publication schedule.

You can use the application publishing wizard to configure an application for publication before or after creating an advertisement for the program that deploys with the application.

1. If the application publishing wizard is not already running, start it from the Configuration Manager console by right-clicking the XenApp Publications folder and selecting New > XenApp application publishing.

2. To publish the application, follow the instructions in the wizard. When publishing an application you indicate the following:

   - Whether the application you are publishing is an installed XenApp application or Microsoft Application Virtualization (App-V) sequence.

   - If you did not start the application publishing wizard from the program wizard, indicate whether your publishing target is a collection or a package.

     - If you are certain that the application you are publishing is already installed on all the servers, specify a collection as the target. When you specify a collection as the target, the Connector configures all servers in the collection to give users access to the application. Using a collection as the target is best suited to publishing applications that are always installed on servers, such as Internet Explorer.

     - If the application you are publishing might not already be installed on all servers, specify a package as the target. When you specify a package as the target, only after servers have processed the package advertisement and the application program do they give users access to the application. This ensures that users only access servers where the application is already installed.

3. Configure the content redirection advanced setting if the application you are publishing is:

   - An App-V sequence

   - An installed XenApp application located on a computer other than the computer on which the Configuration Manager console is installed

   If the file type you want does not appear in the list of file types, click Add to add a custom file type.

To advertise the program for XenApp

After creating a program for XenApp, advertise it to those XenApp servers on which you want to deploy it.

1. In the Configuration Manager console, expand the software distribution container for the application you want to deploy.

2. Within the Programs folder, right-click Program for XenApp for the program you want to advertise and select Advertise.

3. Select the collection of XenApp servers or worker groups on which you want to install the application.

4. To ensure users are not connected to the server during the installation schedule the advertisement.

    a. Specify multiple mandatory assignments, one for each installation attempt. Create at least two mandatory assignments for each maintenance window.

    b. Select Rerun if failed previous attempt as the program rerun behavior.

    Unlike other advertisements created in Configuration Manager, advertisements for XenApp have a timeout period after which the XenApp Connector notifies users and logs them off. You set the timeout period when you configure the XenApp Connector. To ensure that the last mandatory assignment logs users off and installs the application, ensure the period between the first and last mandatory assignments is longer than the timeout period.

For XenApp servers that are configured to allow XenApp Connector to use Power and Capacity Management to manage their power states and load consolidation, XenApp Connector changes the servers' power controller preference to drain user connections from targeted servers that have not processed the advertisement.

To publish applications with XenApp Connector for Configuration Manager 2007

Publish XenApp hosted applications from the Microsoft System Center Configuration Manager 2007 console through the XenApp Connector for Configuration Manager 2007.

Publishing XenApp hosted applications from the Configuration Manager console is similar to publishing XenApp hosted applications from the Citrix AppCenter console, but instead of publishing to servers, you publish to a collection or package. The publishing wizard that XenApp Connector provides within the Configuration Manager console also enables you to specify the published application's type and how it appears to users, which users can access it, and its publication schedule.

For Configuration Manager to manage a XenApp server, send it advertisements, and included it in publications, its information must be included in the Configuration Manager database.

Important: Do not edit the XenApp Publications folder. It is for the XenApp Connector's internal use only.

1. If the application publishing wizard is not already running, start it from the Configuration Manager console by right-clicking the XenApp Publications folder and selecting New > XenApp application publishing.

2. To publish the application, follow the instructions in the wizard. When publishing an application you indicate the following:

    - Whether the application you are publishing is an installed XenApp application or Microsoft Application Virtualization (App-V) sequence.

    - Whether your publishing target is a collection or a package.

        - If you are certain that the application you are publishing is already installed on all the servers, specify a collection as the target. When you specify a collection as the target, the Connector configures all servers in the collection to give users access to the application. Using a collection as the target is best suited to publishing applications that are always installed on servers, such as Internet Explorer.

        - If the application you are publishing might not already be installed on all servers, specify a package as the target. When you specify a package as the target, only after servers have processed the package advertisement and the application program do they give users access to the application. This ensures that users only access servers where the application is already installed.
    - If you are publishing an App-V sequence, always specify the file type or file types you want associate with the application for content redirection. The wizard cannot associate an appropriate default file type for App-V sequences.

3. Configure the content redirection advanced setting if the application you are publishing is:

   - An App-V sequence

   - An installed XenApp application located on a computer other than the computer on which the Configuration Manager console is installed

   If the file type you want does not appear in the list of file types, click Add to add a custom file type.

Deploying WSUS Updates to XenApp Servers with XenApp Connector

XenApp Connector for Configuration Manager 2007 enables you to manage the delivery of Microsoft Windows Server Update Services (WSUS) software updates to XenApp servers. By using the Power and Capacity Management feature to coordinate the power states and load consolidation of the XenApp servers, XenApp Connector deploys WSUS updates with minimal disruption of user sessions.

To use XenApp Connector to manage the delivery of WSUS updates:

1. Ensure that XenApp Connector is enabled to use Power and Capacity Management on the XenApp servers to which you want to install WSUS updates.

2. If you have not already done so, configure XenApp Connector for WSUS updates and configure a maintenance window for XenApp servers:

    a. On the server on which XenApp Connector is installed, run the XenApp Connector configuration wizard, ConfigWizard.exe.

    b. On the Configuration Manager Site page of the wizard, enable WSUS, create a maintenance window for XenApp servers, and specify maintenance window's the start time, end time, and frequency. Follow the prompts to complete the configuration wizard.

    The configuration wizard creates a Citrix WSUS task sequence advertisement in the Advertisements folder of the Software Distribution node of the Configuration Manager console. This advertisement has the maintenance window schedule you specified.

3. Use Configuration Manager console to deploy one or more WSUS updates to servers in the XenApp Farm collection. The deadline you set for this software update installation is used only if the Citrix WSUS task sequence fails to install the update before that time.

XenApp Connector uses Power and Capacity Management to drain users from XenApp servers you targeted to receive the WSUS update.

At the specified times within the maintenance window, Citrix WSUS task sequence runs on every targeted XenApp server and installs the WSUS update on XenApp servers that have no user sessions.

If the WSUS update has not been installed on all targeted XenApp servers when the software update installation deadline is reached, Citrix WSUS task sequence forces installation of the update on the any server that does not yet have the update installed and reboots the server, even if it has active user sessions.

Viewing and Maintaining Log Files

XenApp Connector for System Center Configuration Manager 2007 creates these log files:

- Log files created by the tasks that make up XenApp Data Connector. The log files are updated as the tasks run. The log files are retained or deleted automatically, according to settings in the XenApp Connector configuration file.
- Log files created when either component of the XenApp Connector is installed.
- Log files created when the Configuration Manager Console Extension is installed.

To view log files created by the tasks that make up XenApp Data Connector, use the SMS Trace tool provided with the Microsoft System Center Configuration Manager 2007 Toolkit V2. To view other XenApp Connector log files, use the SMS Trace tool or a text editor that maintains formatting, such as WordPad.

XenApp Data Connector Task Log Files

Log files created by the tasks that make up XenApp Data Connector are created and appended in the log folder in the install directory.

Task Name	Log File Names
XenApp Program and Package Service	Most recent output: Program and Package Service.log Archived output: Program and Package Service.*date* & *time*.log
XenApp Publication Service	Most recent output: Publication Service.log Archived output: Publication Service.*date* & *time*.log
XenApp and ConfigMgr Synchronization Service	Most recent output: Synchronization Service.log Archived output: Synchronization Service.*date* & *time*.log

By default, XenApp Connector retains and deletes files on this schedule:

- One log file containing the most recent output and one time-stamped archive is retained for each service task
- When a log file containing the most recent output reaches 250 KB, the next time the task runs, the log file becomes a time-stamped archive and a new file containing the most recent output is created

To change these defaults, as well as parameters that control the types and information contained in the log files and the appearance of the log file when viewed with the SMS Trace tool, edit the XAConnector.config file.

Install Log Files

Log files created when either component of the XenApp Connector is installed are created in the user's %temp% folder.

Important: Windows Server 2008 R2 deletes a session's temporary directory when the server restarts. To preserve the install log files, either copy the logs to a safe place before the server restarts or change your local computer policy (before installation) to prevent deletion of the temporary directories.

Log File Names	Contents
CitrixMsi-XAConfigMgrx64-(*date & time*) (64-bit)	MSI information
CitrixMsi-XAConfigMgrx32-(*date & time*) (32-bit)	MSI information
Citrix-XAConfigMgrSetup-(*date & time*)	Setup user interface information
Setup (*date & time*)	Setup user interface information

Configuration Manager Console Extension Log Files

Log files created when the Configuration Manager Console Extension is installed are created and appended in the "log" folder in the install directory.

Log File Name	Contents
AdminUI Install	Errors and actions during installation of the Configuration Manager Console Extension