

Ensim Unify Hyper-V Service Version 1.0.0 Installation Guide

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Introduction

This guide provides instructions for installing and setting up the Ensim Unify Hyper-V Service version 1.0.0 on the Ensim Unify platform version 4.0.0 or later.

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Overview of the Ensim Unify Hyper-V Service 1.0.0

The Ensim Unify Hyper-V Service leverages the scalability, management and self service capabilities of System Center Virtual Machine Manager 2008 (VMM) to help service providers deploy the same quickly and easily. The service is designed to make full use of VMM functionality in the backend to provision Virtual Machines and Self Service Users.

Installation overview

Prerequisites

As a first step towards installing the Ensim Unify Hyper-V Service on Ensim Unify you have to deploy and configure VMM and Hyper-V physical hosts in a specific manner. These steps are needed to ensure that Ensim Unify can make appropriate API calls to SCVMM for provisioning.

Installation of Hyper-V Service 1.0.0 in Ensim Unify

To install the Ensim Unify Hyper-V Service onto Ensim Unify, you need to complete the following tasks:

- **Install the Ensim Unify Hyper-V service plug-in onto the PE servers** (page 6). You must install the installer of the Ensim Unify Hyper-V Service plug-in HyperVPESetup.exe on the PE servers. If you are using multiple PE servers, you need to install the service plug-in on each server.

Caution: You must first install the Ensim Unify Hyper-V Service plugin on any one of your PE servers before installing them on the CP servers.

- **Install the Ensim Unify Hyper-V Service plug-in onto the CP servers** (page 6). You must install the installer of the Ensim Unify Hyper-V Service plug-in HyperVCPSetup.exe on the CP servers. If you are using multiple CP servers, you need to install the service plug-in on each server.

Configuring SCVMM 2008 for deployment

You need to create Self-Service Roles, VM Templates, and Hosts on SCVMM Server properly so that Ensim Unify can use them for deployment of Organizations and users. Please refer to “Hyper-V Getting Started” for details.

System requirements

To install the Ensim Unify Hyper-V Service, you need to have the following installed and configured:

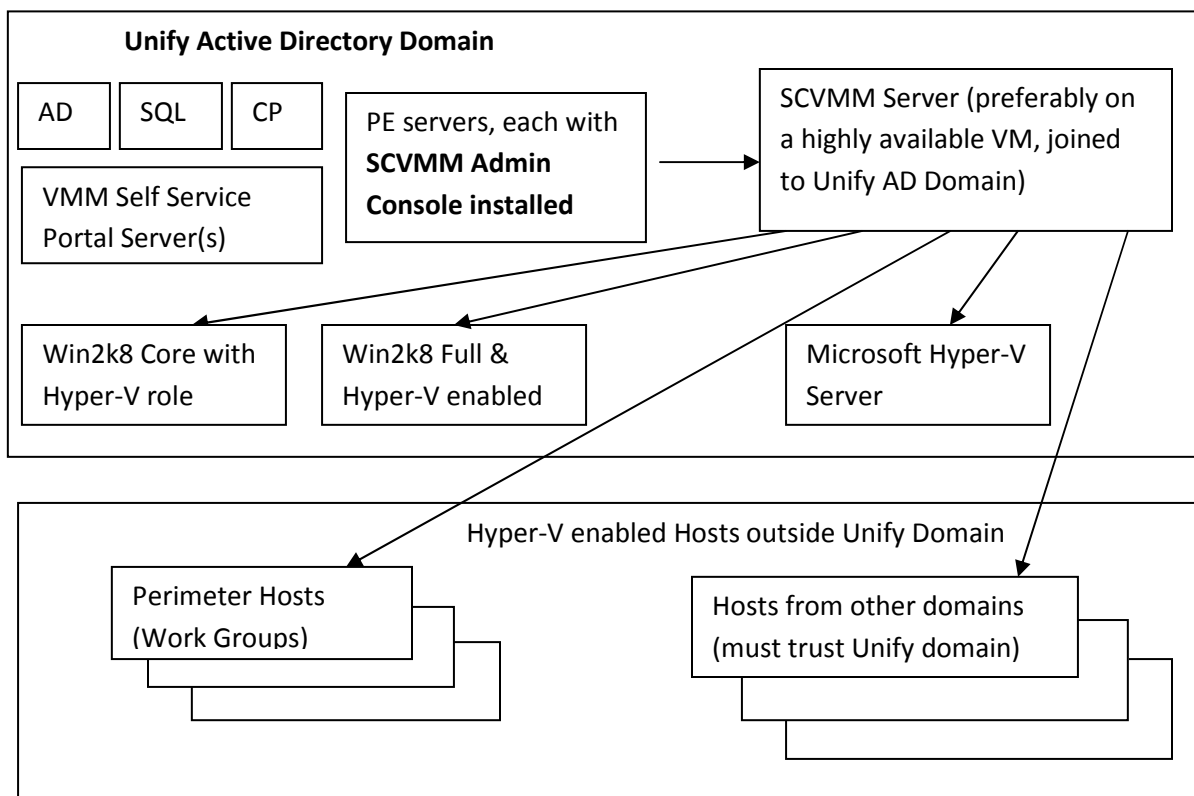
- Ensim Unify Platform 4.0.0 or later.
- SCVMM. You must have SCVMM 2008 installed and configured according to the prerequisites described above.

Installation Prerequisites

Ensim Unify Hyper-V Service has been designed to work in unison with SCVMM. This helps leverage the existing capabilities of SCVMM 2008 for large scale deployment.

Technical Overview

The following diagram explains the deployment architecture of various server nodes in Unify domain.



Explanation of the diagram

- 1 The VMM Server must be joined to Ensim Unify domain. The VMM server should ideally be installed on a highly available VM.
- 2 Each of the Provisioning Engine servers in Unify must have the SCVMM Admin console installed. The Admin console module contains all the PowerShell Cmdlets that Unify invokes to provision VMs and Users. You need to install PowerShell 1.0 prior to installing the Admin Console. Please follow MS guide for the same.

- 3 You need to install SCVMM Self Service Portal on a server in Unify domain. You can install it on the VMM server as well.
- 4 The Physical hosts on which SCVMM will create VMs could be of three types –
 - i. Hyper-V enabled Perimeter Hosts. You need to install SCVMM remote agent to enable SCVMM work with these hosts.
 - ii. Hyper-V enabled Hosts within Unify domain.
 - iii. Hyper-V enabled Hosts from another domain. A trust relationship must be enabled between these domains and Unify.

SCVMM Installation instructions

- 1 VMM Server.
 - i. First of all, on a vanilla Hyper-V enabled host (or two hosts for highly available VMM Server), create a resourceful VM suitable for Installing VMM Server.
 - ii. Join the VM into Ensim Unify AD Domain.
 - iii. Install VMM Server component. Use default port (8100) only. Don't change the port.
- 2 VMM Self Service Portal. You can either install this on the VMM server itself or on a separate server.
- 3 Install SCVMM Admin console on each of the PE servers in Unify. You may want to install this on other suitable computers for your own use.
- 4 Install SCVMM remote agent on all the Perimeter hosts.
- 5 Allow a trust relationship between Unify any other AD domains if you want to manage servers from the same.

Verification

On each of the PE servers, ensure that you can open VMM Admin console and connect to the VMM server using the default port 8100.

Hyper-V Service Installation instructions

This section provides step-by-step instructions for installing the Ensim Unify Hyper-V Service components onto Ensim Unify.

Time required for complete installation: Approximately 30 minutes depending on system

configuration.

Installing the Ensim Unify Hyper-V Service plug-in onto the PE servers

This section explains how to install the Ensim Unify Hyper-V Service plug-in onto the PE servers. If you are using multiple PE servers, make sure to install the service plug-in on each server. If you want to add new PE servers to your existing setup, please refer to the Ensim Unify platform installation guide.

Time required: approximately 10 minutes depending on system configuration.

▼ To install the Ensim Unify Hyper-V Service plug-in onto a PE server:

- 6 Log in to the PE server as the domain administrator.
- 7 Insert the **Ensim Unify Hyper-V Service 1.0.0** CD into your CD-ROM drive.
- 8 Run the installer:
Click **Start**, then click **Run**.
- 9 In the *Open* text box, type `<CD-ROM drive>\PE\HyperVPESetup.exe` where `<CD-ROM drive>` is the location of your CD-ROM drive, then click **OK**.
- 10 Select *everyone* in the check box, then click **Next**.
- 11 In the *Confirm Installation* window, click **Next**. The installation begins.
- 12 After the installation completes, click **Close**.
PE plug-in installation is complete.

Installing the Ensim Unify Hyper-V Service plug-in onto the CP servers

This section explains how to install the Ensim Unify Hyper-V Service plug-in onto the CP servers. If you are using multiple CP servers, make sure to install the service plug-in on each server. If you want to add new CP servers to your existing setup, please refer to the Ensim Unify platform installation guide.

Time required: Approximately 10 minutes depending on system configuration.

Caution: You must first install the Ensim Unify Hyper-V Service plugin on any one of your PE servers before installing them on the CP servers.

▼ To install the Ensim Unify Hyper-V Service plug-in onto a CP server:

- 1 Log in to the CP server as the domain administrator.
- 2 Insert the **Ensim Unify Hyper-V Service 1.0.0** CD into the server's CD-ROM drive.

3 Run the installer:

a Click **Start**, and then click **Run**.

b In the *Open* text box, type `<CD-ROM drive>\CP\HyperVCPSetup.exe` where *<CD-ROM drive>* is the location of your CD-ROM drive, then click **OK**.

4 In the *Confirm Installation* window, click **Next**. The installation begins.

5 After the installation completes, click **Close**.

The Ensim Unify Hyper-V Service CP plug-in is installed.

6 Register the language pack:

a Open a command window and change to the **resources** directory. If the default settings were used during the initial control panel software installation, the directory path is:

C:\Program Files\Ensim\Ensim Unify\cp\resources

b Stop the World Wide Publishing Service:

```
net stop w3svc
```

c Type the following command:

```
reglangpack -s <sql_server_ip>
```

where *<sql_server_ip>* is the IP address of the Ensim Unify platform MS SQL server, or if you have clustered SQL servers, the IP address of your cluster's virtual server.

The file **unify.en-US.resources** is created.

d Start the World Wide Publishing Service:

```
net start w3svc
```

The language pack registration is complete.

CP plug-in installation is complete.

Installation complete

This completes the installation instructions.



You have completed the instructions for installing Ensim Unify Hyper-V service 1.0.0.

Next steps

After you install the Ensim Unify Hyper-V Service components, you must:

- **Check if the Service is enabled service to sell the service to resellers and organizations.** For instructions, see **Enabling the Ensim Unify Hyper-V Service on Ensim Unify**
- **Add the Hyper-V resource to Ensim Unify.** For instructions, see **Adding the Hyper-V resource to Ensim Unify**.
- **Configure SCVMM Server properties in Unify.** For instructions, see **Configuring SCVMM Server properties in Unify**.

Enabling the Ensim Unify Hyper-V Service on Ensim Unify

The Ensim Unify Hyper-V Service must be enabled before you can sell the service to resellers and organizations. After installation, verify whether the service is enabled or disabled. To verify, log in to the service provider control panel, then click **services** on the top navigation bar. If the status column next to the **Hyper-V Service 1.0.0** is indicated by the icon  the service is enabled; if indicated by the icon  the service is disabled. If the service is disabled, you must enable the service as described in this section.

▼ To enable the Ensim Unify Hyper-V Service on Ensim Unify:

- 1 Log onto the service provider control panel.
- 2 On the top navigation bar, click **services**. The services list is displayed.
- 3 Select the option button to the left of the **Hyper-V Service 1.0.0**.
- 4 On the action bar, click **enable**, then click **OK** in the dialog box.

The service is enabled. After you add a hosting server (page 8) to the system, you can sell the service to organizations.

Adding the Hyper-V resource to Ensim Unify

After you have installed and set up the service, log in to the Ensim Unify control panel to add Hyper-V resource to the Ensim Unify system. These are dummy resources which controls the number of organizations in each of them. You need to do this for each server you add.

▼ To add the Hyper-V Resource:

- 1 Log in to the service provider control panel using a systems-level account, such as **admin@domain_name.com**.
- 2 On the top navigation bar, click **resources**.
- 3 On the *resources* page, click the **resources** tab.
- 4 Click **add resource**.
- 5 On the *Provide Server Information* form, provide the following information:
 - **server information**
 - **Host Name.** Required. Provide a symbolic name for the resource.
 - **Description.** A short description of the host. Any combination of characters and spaces is valid. This description is visible to resellers who buy the server, however, so make sure the description you provide is something you want resellers to see.
 - **Use in Automatic Allocation.** This setting determines whether the resource is available to the system for automatic selection when you add organizations or provision services. If you clear this check box, the resource is not available. This is useful when you want to prevent the system from automatically using specific resources during provisioning. If you check this box, and you select automatic resource selection when you provision an organization, this resource is available to the system for allocation. You can always select resources manually during provisioning, regardless of whether this option is selected or cleared.
 - **pool assignment. Required.** The name of the pool, or group, to which the server is assigned. When you add a server, you need to assign it to a pool. Pools are used to manage groups of servers. To add the server to an existing pool, select **Add Server to Existing Pool**, then choose the pool from the drop-down list. To add the server to a new pool, select **Create Pool for Server**, then type a name for the new pool in the text box. The pool name is visible to resellers.
 - **service installed on server.** The service installed on the server or associated with the resource. Servers can have only one service installed, and resources can be associated with only one service. Select the option **Hyper-V Service**.
- 6 Click **Next**.
- 7 On the *Provide Service Resource Information* page, set the following resource limits for the Hyper-V Resource:
 - **Number of Installations (#).** Enter the number of organizations that can be provisioned on the resource.
- 8 Click **Next**.

- 9 On the *Verify Information* page, review the information you have provided, then click **Finish**.
The Hyper-V resource is added to the Ensim Unify system.

Configuring SCVMM Server Properties Unify

Caution: You must first configure SCVMM server as described in Ensim Unify Hyper-V Service 1.0.0 Getting Started Guide.

- 1 Log in to the service provider control panel using a systems-level account, such as **admin@domain_name.com**.
- 2 On the left navigation bar, click on “Configure SCVMM Server” under “Hyper-V Service”.
- 3 Provide the IP or DNS resolvable hostname of the VMM Server. For all provisioning activities this server will be contacted by Unify.
- 4 Provide the Self Service User Portal URL This URL will be displayed to organizations and users in Unify.
- 5 Provide the Self-Service User Roles which will be used by Unify for adding memberships. The roles must be created in SCVMM prior to this step.
- 6 Click Save.

Support and feedback

For Ensim online support or feedback, use the following links:

- <http://support.ensim.com> to access product downloads and documentation
- <https://onlinesupport.ensim.com> to file a support ticket or request online support
- http://onlinesupport.ensim.com/kb_search_unify.asp to search the knowledge base
- http://www.ensim.com/about_Ensim/feedback.asp to provide feedback to Ensim

Note: All customers receive passwords that allow access to the Ensim Support site. If you do not have a password, contact your liaison to Ensim.

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