

# Foglight<sup>™</sup> for Hyper-V 7.1.0 **Installation Guide**



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- WARNING: A WARNING icon indicates a potential for property damage, personal injury, or death.
- **CAUTION:** A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.
- i IMPORTANT NOTE, NOTE, TIP, MOBILE, or VIDEO: An information icon indicates supporting information.

Foglight<sup>™</sup> for Hyper-V Installation Guide Foglight Version - 7.1.0 Cartrdige Version - 7.1.0

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## 1

# Installing and configuring Foglight for Hyper-V

Foglight<sup>™</sup> for Hyper-V monitors the health of your virtual system by tracking resource consumption such as CPU, network, and memory consumption for individual servers and virtual machines in your integrated environment. This chapter contains information about the system requirements and takes you through the installation procedure, step by step.

- **IMPORTANT:** See the *Foglight for Hyper-V Release Notes* for important additional information about this version of the cartridge.
  - Requirements and compatibility
  - Installation and setup
  - Upgrading Foglight for Hyper-V

## **Requirements and compatibility**

The following components are required to successfully integrate Foglight<sup>™</sup> for Hyper-V into Foglight for Hyper-V.

## **Foglight for Hyper-V Management Server**

The cartridge can be used on a Foglight for Hyper-V<sup>™</sup> platform to gain in-depth insight into the health of the virtual machine, the server, and the virtual environment as a whole.

Before installing the cartridge, ensure that your Foglight Management Server is properly installed and configured. For information on how to install and configure the Foglight Management Server, please refer to the *Installation and Setup Guide* set and the *Administration and Configuration Help*.

## **Foglight for Hyper-V Agent Manager**

The Agent Manager component collects data from monitored hosts and sends it to the Management Server. Foglight<sup>™</sup> for Hyper-V monitors host machines remotely using the WinRM or WMI service. For that reason, the Agent Manager does not need to be installed on each individual host that you want to monitor. The Management Server includes an embedded Agent Manager instance that starts and stops with the server.

One Agent Manager installation per Management Server is often enough, unless additional installations are required to balance the collection load onto other machines. The cartridge is compatible with the Agent Manager version 5.8.1 or later.

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## **Monitored hosts**

Each monitored server must be running Microsoft<sup>®</sup> Windows Server<sup>®</sup> 2008 R2 or later, Windows Server 2012, or Windows Server 2012 R2.

## Installation and setup

Installing Foglight<sup>™</sup> for Hyper-V involves several tasks.

First, install Foglight for Hyper-V, and the Agent Manager (if multiple instances are required). Next, install Foglight for Hyper-V on the Management Server and deploy the agent package. As the final step, you create agent instances, configure their properties, activate them, and start their data collection. For details, see the following sections:

- Installing the Foglight for Hyper-V Management Server on page 6
- Installing the Foglight for Hyper-V Agent Manager on page 6
- Installing and enabling Foglight for Hyper-V on page 6
- Deploying agent packages to monitored hosts on page 7
- Configuring monitoring agents for data collection on page 9
- Using an alternative method to create and activate agent Instances, and to start their data collection on page 18

# Installing the Foglight for Hyper-V Management Server

Install Foglight for Hyper-V<sup>™</sup> using the installer for your platform. For complete information, see the Foglight for Hyper-V *Installation and Setup Guide* set.

# Installing the Foglight for Hyper-V Agent Manager

The Management Server includes an Agent Manager which can be used to remotely monitor hosts. To balance the collection load, you can choose to install the Agent Manager on additional hosts. For complete information, refer to the *Agent Manager Guide*.

## Installing and enabling Foglight for Hyper-V

Foglight<sup>™</sup> for Hyper-V is distributed in a CAR file, *Virtual-HyperV-7\_1\_0.car*. While most of Foglight for Hyper-V components are defined in this file, some of its browser interface elements are defined in two additional CAR files, *DRP-7\_1\_0.car* and *Virtual-Hyper-V-Admin-7\_1\_0.car*. The cartridge included in the *Virtual-Hyper-V-Admin-7\_1\_0.car* file provides access to Hyper-V administrative actions through the Hyper-V Explorer's **Administration** tab, when your user account is granted the Hyper-V Automation User role. To enable the **Administration** tab, install this cartridge on the Management Server. For more information about the Hyper-V Explorer, see the *Foglight for Hyper-V User and Reference Guide*.

Installing and enabling these cartridges on the Management Server adds the Hyper-V capabilities to your Foglight environment and makes their components available for use. When a cartridge is installed and enabled, all of its components become part of the Management Server.

The following procedure describes the process of installing and enabling the available cartridges using the browser interface. Another way to install and enable cartridges is through the fglcmd command-line interface. For more information about the available fglcmd commands, see the *Command-Line Reference Guide*.

#### To install and enable a Foglight for Hyper-V cartridge:

- 1 On the navigation panel, under **Dashboards**, choose **Administration > Cartridges > Cartridge Inventory**.
- 2 On the Cartridge Inventory dashboard, click Install Cartridge.

The Install Cartridge dialog box appears.

Install Cartridge	X
File on Local Computer	Browse
🔽 Enable on install	
	It may take some time to upload your cartridge after you click "Install Cartridge" button.
	Install Cartridge Cancel

- 3 In the **Install Cartridge** dialog box, click **Browse** and navigate to the *Virtual-HyperV-7\_1\_0.car* file that you want to install.
- 4 Ensure that the **Enable on install** check box is selected.
- 5 Click Install Cartridge.

A message box appears.

Processing	
💭 Please wait while installing	

After a few moments, the **Operation(s) Complete** message box appears, indicating a success.

- 6 Click OK to close the Operation(s) Complete message box.
- 7 Repeat Step 2 through Step 6 to install the DRP cartridge, *DRP-7\_1\_0.car*, and *Virtual-HyperV-Admin-7\_1\_0.car* (if applicable).
- 8 Observe the list of installed cartridges.

The list of installed cartridges refreshes, showing the newly installed cartridges.

	DRP	5.7.3
	Virtual-HyperV	5.7.3
	Virtual-HyperV-Admin	5.7.3
	Virtual-HyperV-Base	5.7.3
	Virtual-HyperV-Intelliprofile	5.7.3
	Virtual-HyperV-Lite	5.7.3

From here, you can proceed to deploying the agent packages.

### Deploying agent packages to monitored hosts

Foglight<sup>™</sup> for Hyper-V uses Hyper-V, System Center Virtual Machine Manager (SCVMM),and Scale-Out File Server (SOFS) Agent instances to collect information from monitored hosts. Installing and enabling Foglight for Hyper-V on the Management Server makes its agent packagea available for deployment.

Hyper-V, SCVMM, and SOFS Agents use the Agent Manager for communication with the Management Server. Foglight for Hyper-V monitors host machines remotely using the WMI infrastructure. For that reason, the Agent Manager does not need to be installed on each individual host that you want to monitor. It is typically installed on one host; some scenarios may require multiple Agent Manager installations to balance the collection load.

After you have installed the Foglight for Hyper-V, you must deploy the Hyper-V, SCVMM, and SOFS Agent packages to the applicable Agent Manager instances. Deploying the package is only required if you plan to use additional Agent Manager instance.

The following procedure describes the deployment process using the Agent Status dashboard. This administrative dashboard is useful for deploying the agent package one host at a time. Alternatively, for deploying the Hyper-V Agent package to multiple hosts, you can use the Agent Hosts dashboard. For more information, see the *Administration and Configuration Guide*.

Another way to deploy agent packages is through the fglcmd command-line interface. For more information about the available fglcmd commands, see the *Command-Line Reference Guide*.

#### To deploy the Hyper-V, SCVMM, and SOFS agent packages:

- 1 Log in to the Foglight browser interface.
- 2 On the navigation panel, under **Dashboards**, click **Administration > Agents > Agent Status**.

The Agent Status dashboard appears in the display area.

	Status									25 Sep 20	14 11:31:14 AM	🛐 Report
9	Age	nt S	tatus									
	Use the them.	Agent Sta	itus dashboi	ard to manage	agents. Start by deploy	ing agent packages to A	igent Managers. After d	eployment, y	ou can creal	e agents, edit:	their properties a	and activat
١ge	ents											
i¶ ا	Deploy Ag	ent Packa	ge 💕 Crea	ate Agent 🔯	Edit Properties By Tag	🔽 Activate 🛛 Deacl	tivate 🕞 Start Data Co	ollection 🕕	Stop Data G	ollection 🚯 Ec	dit 🐻 Delete 🔳	Upgrade
Г	State	Status	Collecting Data	Private Property	Host Name	Agent Name	Namespace	Туре	Tags	Version	Upgradable	Log File
						There Is No Data	To Display					
ask	ks											
Task Zu	<s Refresh ∢</s 	Clean (	Completed T	asks						Search		₽ -
Task Zu	<s Refresh ┥ us Action</s 	Clean (	Completed T	asks	Details		Host Name		Status Mess	Search	Dur	₽ • ation Time

3 On the Agent Status dashboard, click the Deploy Agent Package button in the lower-left corner.

The **Deploy Agent Package** wizard appears.

Deploy Agent Package		×
Host Selector	Host Selector	
<ul> <li>Agent Packages</li> </ul>	Select the hosts to which you want to deploy agent packages.	
<ul> <li>Summary</li> </ul>	Search 🔎 🗸	
	Host Name A	_
	Previous Next Finish Cancel	

- **TIP:** To have a monitored host available for selection, the Agent Manager must be up and running on that host, and connected to the Foglight Management Server.
- 4 Specify the monitored host to which you want to deploy the Agent package.

In the **Deploy Agent Package** wizard, on the **Host Selector** page, select the system on which the Agent Manager is running, and click **Next**.

If the system name does not appear in the list, check that its Agent Manager is active and connected to the Management Server.

8

Deploy Agent Package			>
✓ Host Selector	Agent Packages		
<ul> <li>Agent Packages</li> </ul>	Select the agent packages to	deploy to the selected hosts.	
<ul> <li>Summary</li> </ul>		Search	0 •
		Dearch	
		Package 🔺	
	HyperVAgent		
	IntegrationAgents		
	NetMonitorAgent		
	Office365Monitoring		
	OMEAgent		
	OpenStackAgent		
	QMXAgent		
	SCVMMAgent		
	SOFSAgent		
	<ul> <li>VCloudDirectorAgent</li> </ul>		•
	Show Packages for All Platfo	orms	
		Previous Next	Finish Cancel

The Deploy Agent Package wizard refreshes, showing the Agent Packages page.

5 In the **Deploy Agent Package** wizard, on the **Agent Packages** page, select the HyperVAgent, SCVMMAgent, and SOFSAgent packages, and then click **Next**.

The Deploy Agent Package wizard refreshes, showing the Summary page.

Deploy Agent Package			×
✓ Host Selector	Summary		
✓ Agent Packages	Search	, ⊂	
► Summary	Host 🔺	Package	
	zhuwm-fog-3357 vfog local	HyperVAgent	*
	2ndvin log 5557 Mog.local	SCVMMAgent	_
			-
	Previo	us Next Finish Car	ncel

6 In the **Deploy Agent Package** wizard, on the **Summary** page, verify that the host name and package are correct, and click **Finish**.

The **Deploy Agent Package** wizard closes, and the Agent Status dashboard refreshes, showing in the **Tasks** area that the **Deploy Agent Package** task is in progress. After a few moments, a green icon appears in the **Status** column, indicating a successful deployment.

If agent deployment is not successful, there are several things you can do to troubleshoot the deployment failure. For more information, see the online help for the Agent Status dashboard.

From here, you can proceed to create Hyper-V,SCVMM, and SOFS Agent instances to monitor hosts. For more information, see Configuring monitoring agents for data collection on page 9.

# Configuring monitoring agents for data collection

Foglight<sup>™</sup> for Hyper-V uses the Hyper-V, SCVMM,and SOFS agents to collect information about your virtual environment:

Hyper-V Agents collect information from monitored Hyper-V servers. A Hyper-V server is a physical
component required to begin building a virtual infrastructure. Hyper-V servers provide hypervisor-based
architecture for controlling and managing resources for the virtual machines that run on it.

- SCVMM Agents collect information from Virtual Machine Managers (VMM). A VMM allows you to manage host, networking and storage resources when creating and deploying virtual machines to virtual clouds.
- SOFS Agents collect information from monitored SOFS servers. An SOFS server is a Windows Server cluster with some form of shared storage and provides highly available file-based storage for applications and general use.

When Hyper-V, SCVMM, and SOFS agent packages are successfully deployed, you can create agent instances, activate them and start their data collection. To perform these steps in a single operation for one or more monitored hosts, use the **Agents** area on the **Administration** tab.

When you add an agent instance, the agent process is created on the Agent Manager host. Activating the agent instance starts that agent process. When you start an agent's data collection, the agent process starts collecting data from the monitored host and to sends it to Foglight for Hyper-V.

#### To create, activate agent instances, and start their data collection:

- 1 Log in to the Foglight browser interface.
- 2 On the navigation panel, under Dashboards, choose Hyper-V > Hyper-V Environment.
- 3 On the Hyper-V Environment dashboard that appears in the display area, open the Administration tab.

Hyper-V Environment				G+ Tuesday, January 24, 1
Hyper-V 👻				
Monitoring Capacity Management Chargeback Optimizer FAQts Reports Administration				
Tasks:				
Set Alarm Sensitivity Level     Aeview Instances and Limits     Review Expired Data				
Agents				
Hyper-V Agents SCVMM Agents SOF5 Agents				
🕜 Add 💈 Refresh 🛛 🕛 Activate 🕕 Deactivate 🌔 Start Data Collection 📒 Stop Data Collection 🤤 Remove	👚 Update	e Agent		
Hyper-V Server 🔺 Active Data Collection Agent Name Foglight Agent Manager Host	Alarms	Edit Properties	Download Log	Agent Version
🖸 🚽 💅 HVO-		2	<b></b>	Version Up To Date

- 4 On the **Administration** tab, under **Agents**, open the **Hyper-V Agents**, **SCVMM Agents**, or the SOFS Agents tab, as required.
- 5 On the Administration tab, under Agents, click Add to launch the Agent Setup wizard.

The Agent Setup wizard appears, showing the Prepare page.

6 Review the information on this page. If you want to configure WinRM or DCOM settings automatically, download the appropriate script, and follow the instructions provided with the scripts. When done, click Next.

The **Agent Setup** wizard refreshes, showing the **Select Fglam Client** page. The page shows a list of all hosts that already have the Agent Manager installed and running, and to which you can deploy the Hyper-V Agent package.

7 Select the Agent Manager on which you want to create the Agent instance, and click Next.

	a Agent Setup								
~	Prepare	Select Fg	elect Fglam Client						
	Select Fglam Client								
0	Discover or Manual								
0	Credential Verification		Foglight Agent Manager Host						
0	Summary		1						
		Sele	ct the Foglight A	gent Manager host for the new Hyp	per-V agents.				
			Host Name	FgIAM Version	OS	OS Architecture			
		0	Host1		windows	x86_64			
	Previous Next Finish Cancel								

8 **Hyper-V Agents only**. On the **Discover or Manual** page that appears, you can indicate if you want to manually specify the Hyper-V Server that you want to monitor, or to choose between the servers running in a given domain.

🐻 Agent Setup	Agent Setup ×							
✓ Prepare	Discover or Manual							
✓ Select Fglam Client	Manually configure an agent to monitor a single Hyper-V server or search your domain to Discover Hyper-V							
<ul> <li>Discover or Manual</li> </ul>								
<ul> <li>Credential Verification</li> </ul>	<ul> <li>Manual</li> </ul>							
<ul> <li>Summary</li> </ul>								
	Discover : list all HyperV servers in your Domain via LDAP automatically. Manual : input the HyperV server which you want to monitor.							
	Previous Next Finish Cancel							

Select one of the following options:

**Discover**. Select this option if you want to choose from the available Hyper-V Servers running in the desired domain. Click **Next** and proceed to Step a.

**Manual**. Select this option if you want to manually specify the name of the Hyper-V Server. Click **Next** and proceed to Step b.

a **Discovering Hyper-V Servers only**. On the **Enter Domain Credentials** page that appears, specify the information needed to search for the running Hyper-V Servers.

🐻 Agent Setup			×
<ul> <li>Prepare</li> </ul>	Enter Domain Credentials		
<ul> <li>Select Fglam Client</li> </ul>			
<ul> <li>Discover or Manual</li> </ul>			
Enter Domain Credentials	ч <b>.</b> •	Domain To Search for Hyper-V Servers	
<ul> <li>Select Servers</li> </ul>			
<ul> <li>Agent Properties</li> </ul>	Enter the fully qualified	name of a domain to search for Hyner-V servers	
<ul> <li>Credential Verification</li> </ul>	Domain:	myDomain.com	
<ul> <li>Connectivity Diagnostic</li> </ul>	D'ontaint		
<ul> <li>Summary</li> </ul>	Enter user credentials f	or querying Active Directory on this domain.	
	User:	myDomain\myUserName	
	Password:		
	Enable SSL for LDAP :		
		Previous Next Fini	sh Cancel

- a Provide the following information, and then click Next.
  - **Domain**: Type the fully qualified name of a domain to search for the Hyper-V Server. For example, myDomain.com.

- User: Type the user name to be used by the agent to be used to query Active Directory on the selected domain using the syntax *Domain\UserName*. For example, myDomain\myUserName.
- **Password**: Type the password associated with the above user name.

The **Agent Setup** wizard refreshes, showing the **Select Servers** page. The page shows a list of all Hyper-V servers that you have access to, based on the domain name and user credentials you provided in this step.

🐻 Agent Setup			×
✓ Prepare	Select Servers		
✓ Select Fglam Client			
<ul> <li>Discover or Manual</li> </ul>			
✓ Enter Domain Credentials	9 <b>V</b>	Hyper-V Servers To Monitor	
Select Servers	•		
<ul> <li>Agent Properties</li> </ul>	Select the Hyper-V servers which have the same credentials to configure.		
<ul> <li>Credential Verification</li> </ul>			
	Hyper-V Server		Has Agent 🔺
<ul> <li>Summary</li> </ul>	VFOG-DEV-200	8R2.view.local	đ
		Previous	Next Finish Cancel

b Select one or more Hyper-V Servers that you want to monitor and click Next.

The Agent Setup wizard refreshes, showing the Agent Properties page.

🗑 Agent Setup			×
✓ Prepare	Agent Properties		
✓ Select Fglam Client			
<ul> <li>Discover or Manual</li> </ul>			
✓ Enter Domain Credentials	4 <u>v</u>	Properties for Hyper-V Agent	
✓ Select Servers	•		
Agent Properties	Total day and a second	an fan Llanne V. Annah	
<ul> <li>Credential Verification</li> </ul>	Enter the agent properti	es for Hyper-V Agent.	
<ul> <li>Summary</li> </ul>	Collect CPU metrics		
	Collect disk metrics		
	Collect memory metrics	<ul> <li>Image: A start of the start of</li></ul>	
	Collect network metrics		
			Previous Next Finish Cancel

- c By default, the options for collecting CPU, disk, memory, and network metrics are selected. Review these settings, and make any changes, if required. When done, click **Next**.
- d Proceed to Step c.
- b **Manually specifying a Hyper-V Server only**. On the **Manual Agent Properties** page that appears, specify the information needed to search for the running Hyper-V servers.

🐻 Agent Setup			×
✓ Prepare	Manual Agent Properties		
✓ Select Fglam Client	Enter the name of this H	yper-V server to access it.	
<ul> <li>Discover or Manual</li> </ul>	Hyper-V Server		
Manual Agent Properties	Collect CPU metrics		
<ul> <li>Credential Verification</li> </ul>	Collect disk metrics		
<ul> <li>Summary</li> </ul>	Collect memory metrics	¥	
	Collect network metrics		
			Previous Next Finish Cancel

#### Click Next.

- c On the **Credential Verification** page that appears, review the existing set of credentials. If the wizard determines that the selected Agent Manager has any credentials configured for the host on which the Hyper-V Server is running, they appear listed on this page.
  - **IMPORTANT:** Credentials are security data that provide the Infrastructure agent with the permission to monitor system resources, such as a host or a range of hosts.
- 9 SCVMM Agents only. On the Input Agent Properties page that appears, type the name of the SCVMM server, and click Next.

📷 Agent Setup	×
✓ Prepare	Input Agent Properties
✓ Select Fglam Client	Enter the name of this SCVMM server to access it.
Input Agent Properties	SCVMM Server
<ul> <li>Credential Verification</li> </ul>	
<ul> <li>Summary</li> </ul>	
	Previous Next Finish Cancel

10 **SOFS Agents only.** On the Manual Agent Properties page that appears, type the name of SOFS Server, specify whether or not this SOFS Server collects CPU/disk/memory/network metrics, and click **Next**.

g Agent Setup		
✓ Prepare	Manual Agent Properties	
✓ Select Fglam Client	Enter the name of this SOFS server to access it.	
<ul> <li>Manual Agent Properties</li> </ul>	SOFS Server	
Credential Verification	Collect CPU metrics	
<ul> <li>Summary</li> </ul>	Collect disk metrics	
	Collect memory metrics	
	Collect network metrics 🛛 🖉	

- 11 On the Credentials Verification page, select one of the following options:
  - Do not configure a credential: Select this option if you want to configure the credential for this
    resource at a later time. Click Next and continue with Step 14.
  - Add host(s) to a new credential: Select this option if you want to add the host to a new credential. This option is suitable if none of the existing credentials have the connection details needed to access the new host. Click Next and continue with Step 12.
  - Add host(s) to an existing credential: Select this option if you want to add the host to an existing credential. This option is suitable if an existing credential has the security data needed to access the new host, but you need to edit its resource mappings to include this host. Click Next and continue with Step 13.

🕲 Agent Setup		×	
✓ Prepare	Credential Verification		
✓ Select Fglam Client	Credentials hold the security data (such as logins or host. A credential is required if the target host and	Credentials hold the security data (such as logins or keys) that allow an agent to access a system resources, such as a host. A credential is required if the target host and the agent manager are on different systems.	
✓ Discover or Manual	Host Name +	Unit News Notifier State	
Credential Verification	Host1	Host 1 administrator@HyperV-Discovery	
<ul> <li>Summary</li> </ul>			
	<ul> <li>Do not configure a credential.</li> <li>Add host(s) to a new credential.</li> <li>Add host(s) to an existing credential.</li> </ul>		
	Note: Creating agents without the proper credentials	s will result in the occurrence of Credential Alarms.	
		Previous Next Finish Cancel	

- 12 Create a new credential.
  - a On the **Credential Type** page that appears, select the credential type from the available options.

🐻 Agent Setup	X
✓ Prepare	Credential Type
✓ Select Fglam Client	Select the credential type from the list below.
✓ Discover or Manual	
Credential Verification	Credential Type     Description     Description     Description     A 'Windows' credential consists of domain name (if configured i
Credential Type     Credential Properties     Credential Name and Lockbox     Resource Mapping     Policies	
<ul> <li>Summary</li> </ul>	۲ ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (
	Previous Next Finish Cancel

#### b Click Next.

The Credential Properties page appears.

🗑 Agent Setup	X
✓ Prepare	Credential Properties
✓ Select Fglam Client	Enter the properties for this credential.
✓ Discover or Manual	
Credential Verification	A Windows' credential consists of domain name (if configured in your environment), user name, and password. Domain
✓ Credential Type	User Name
Credential Properties	Password
<ul> <li>Credential Name and Lockbox</li> </ul>	Confirm Password
Resource Mapping	
• Policies	<ul> <li>Optional Advanced Settings</li> </ul>
<ul> <li>Summary</li> </ul>	
	Previous Next Finish Cancel

c On the  $\mbox{Credential Properties}$  page, type the required properties, and click  $\mbox{Next}.$ 

The Credential Name and Lockbox page appears.

🐻 Agent Setup			×
✓ Prepare	Credential Name and Lockbox		
✓ Select Fglam Client	These properties identify the credential on the Management Server.		
✓ Discover or Manual			
Credential Verification	Please provide a unique name to identify this credential.		
✓ Credential Type	A Lockbox contains a collection of encrypted credentials and the keys used for their encryption and decryption.		
✓ Credential Properties	Lockbox 🔺	Password Required	
Credential Name and Lockbox	System	No	
<ul> <li>Resource Mapping</li> </ul>			
<ul> <li>Policies</li> </ul>			
<ul> <li>Summary</li> </ul>			
	Note: A password will be required for password secured Lockboxes that have not yet been released to the provided Agent Manager.		
		Previous Next Finish Can	:el

- d On the **Credential Name and Lockbox** page, provide a name to uniquely identify the credential, and select a lockbox in which you want to keep the credential. A lockbox can be used to group credentials for access and/or security. In smaller Foglight installations, using the default **System** lockbox should be sufficient.
  - **i** NOTE: If a lockbox is password protected and is not released to the target Foglight Agent Manager, you can provide the lockbox password on the last page of the wizard.

#### Click Next.

The Resource Mapping page appears.

🐻 Agent Setup	-	×
✓ Prepare	Resource Mapping	
✓ Select Fglam Client	Select the appropriate resource mapping option below.	
✓ Discover or Manual	Provided host names and IP addresses (only)	
Credential Verification	All hosts and provided IP addresses	
✓ Credential Type	Host Names	IP Addresses
<ul> <li>Credential Properties</li> </ul>	Host1	There Is No Data To Display
<ul> <li>Credential Name and Lockbox</li> </ul>		
Resource Mapping		
<ul> <li>Policies</li> </ul>		
<ul> <li>Summary</li> </ul>		
		Previous Next Finish Cancel

e On the **Resource Mapping** page, indicate which hosts you want to associate with this credential. Click **Next**.

The Policies page appears.

🐻 Agent Setup	-		×
✓ Prepare	Policies		
✓ Select Fglam Client	Add policies for this credential. This	s is an optional step. Click 'Next' if you do not wish t	o add more policies at this time.
✓ Discover or Manual			
Credential Verification	O Add Copy Oelete	Search	<b>₽</b> - Ę
	📄 Edit Policy Type 🔺	Details	
✓ Credential Type	📄 📝 Failure Rate	Max Failure Count=3 and Time Period=1 hours	
✓ Credential Properties			
✓ Credential Name and Lockbox			
✓ Resource Mapping			
Policies			
° Summary			
		Previous	Next Finish Cancel

f Optional—On the **Policies** page, define one or more policies for this credential. A policy defines the number of times a credential can be used, the number of allowed authentication failures, the time range during which the credential is valid, or the length of time the credential data can be cached on the client. For example, you can specify the number of times the credential can be used, or the time period during which it can be used. For complete information about the available credential policies, see the *Administration and Configuration Help*.

Click Next.

The Summary page appears.

🗑 Agent Setup		×
✓ Prepare	Summary	
✓ Select Fglam Client	Hosts	Click to view
<ul> <li>Discover or Manual</li> </ul>	Agent Manager	Hosti
. Condential Varification	Windows Credential	
<ul> <li>Credential verification</li> </ul>	Credential	view\administrator
Summary	Lockbox	System
Junnury	New or Existing Credential	New
	Lockbox Password	The Lockbox is not a password secured Lockbox.
		Previous Next Finish Cancel

- g Proceed to Step 14.
- 13 Use an existing credential.
  - a On the Credential page that appears, select an existing credential to contain this host.

agent Setup X					
✓ Prepare	Credential				
✓ Select Fglam Client	Select the Credential that will contain this resource.				
✓ Discover or Manual					
	Credential 🔺	Password Required	1 <b>1</b>		
<ul> <li>Credential Verification</li> </ul>	System System	No	-		
► Credential	⊚ administrator @HyperV-Discovery				
<ul> <li>Resource Mapping</li> </ul>			*		
<ul> <li>Summary</li> </ul>	Note: A password will be required for password secured Lockboxes that have i Agent Manager.	not yet been released to the provi	ided		
	(P	revious Next Finish C	ancel		

#### b Click Next.

The Resource Mapping page appears.

🐻 Agent Setup		×
✓ Prepare	Resource Mapping	
✓ Select Fglam Client	Select the appropriate resource mapping option below.	
<ul> <li>Discover or Manual</li> </ul>	Provided host names and IP addresses (only)	
<ul> <li>Credential Verification</li> </ul>	All hosts and provided IP addresses	
✓ Credential	Host Names	IP Addresses
Resource Mapping	Host1	There Is No Data To Display
<ul> <li>Summary</li> </ul>		
		Previous Next Finish Cancel

c On the **Resource Mapping** page, indicate which hosts you want to associate with this credential. You can either select the host that you are about to start monitoring, all monitored hosts, or hosts whose name contains a specific text string.

#### Click Next.

The Summary page appears.

🐻 Agent Setup		×
✓ Prepare	Summary	
✓ Select Fglam Client	Hosts	Click to view
<ul> <li>Discover or Manual</li> </ul>	Agent Manager	Hosti
<ul> <li>Credential Verification</li> </ul>	Windows Credential Credential	view\administrator
Summary	Lockbox	System
	New or Existing Credential Lockbox Password	New The Lockbox is not a password secured Lockbox.
		Previous Next Finish Cancel

Foglight for Hyper-V 7.1.0 Installation Guide Installing and configuring Foglight for Hyper-V

- d Proceed to Step 14.
- 14 On the **Summary** page that appears, review the information provided about the host and the monitoring agent.
- 15 Click Finish.

The new host is added to the Hosts dashboard after a short delay. The monitoring agent is created. If the operation is successful, the **Agent Setup** message box appears. Review the information and close the message box.

😸 Agent Setup	×
Success creating and activating agent HV1-VFOG-DEV-2008R2.view.local.	

The agent instances created to monitor the new host appear on the **Administration** tab, in the **Agents** area.

Close the dialog box. The Hyper-V Agent Management dashboard refreshes, showing the newly created Hyper-V Agent in the list.

16 If required, reconfigure the agent properties or credentials. For example, you can specify the name of the monitored Hyper-V server or the authentication schema.

When a Hyper-V Agent, for example, connects to the Management Server, it is provided with sets of properties that it uses to configure its correct running state. Foglight for Hyper-V stores agent properties on the Management Server.

a Select an agent and click Edit Properties.

The Edit Agent Tab Manager dialog box appears, showing the Hyper-V Agent properties on the Agent Properties tab.

Edit Agent Tab Manager		×
Agent Properties Creden	tials	
Enter the name of this H	yper-V server to access it.	
Hyper-V Server		
Collect CPU metrics		
Collect disk metrics		
Collect memory metrics		
Collect network metrics		
		-
		Save

- **i** NOTE: When multiple agents are selected, you can only edit the properties that are common to all selected agents.
- b Review and edit the agent properties, as required.

The combination of properties you can configure in this step and the required values depend on the desired collection method (WinRM or DCOM) and the type of authentication required (local or domain-based). For complete information, about the possible configuration scenarios, see Setting the Hyper-V Agent Configuration properties on page 23.

c Open the Credentials tab, and review the available credentials.

Edit	Edit Agent Tab Manager						
Ag	ent Properties Credentials						
	Lockbox / Credential 🔺	Click To Edit Credential Password	Click To Release Lockbox To Client				
	System		5				
	administrator@HyperV- Discovery	2					
	New Credential Add to Existing Credential						

d If required, you can create a new credential for this agent, or associate it with an existing credential.

**Creating a new credential**. Click **New Credential** and use the **Create Credential Wizard** that appears to provide the required information. For more details, see Step 12.

Associating the agent with an existing credential. Click Add to Existing Credential and use the Create Credential Wizard that appears to provide the required information. For more details, see Step 13.

17 Activate one or more agents.

On the Agent Management dashboard, select the agents that you want to activate and click Activate.

18 Start the data collection for one or more agents.

On the Agent Management dashboard, select the agents whose data collection you want to start and click **Start Data Collection**.

19 Click Refresh.

If the agent configuration is successful, the **Active** and **Data Collection** columns show green check marks indicating that the agents are active and collecting data.

📀 Add 🗇 Refresh 🛛 🕖 Activate 🕦 Deactivate 🍺 Start Data Collection 📕 Stop Data Collection 🃝 Edit Properties 🍚 Remove							
Hyper-V Server 🔺	Active	Data Collection	Agent Name	Foglight Agent Manager Host	Alarms		
Host1.example.com	2	<b>1</b>	MyHyperVAgent1	Host5	1 -		
Host2.example.com	ଷ	s d	MyHyperVAgent2	Host5	1		
Host3.example.com	ଷ	2	MyHyperVAgent3	Host5			
Host4.example.com	( 🕤 )		MyHyperVAgent4	Host5	-		
	$\sim$	$\sim$	F				

If the agent unexpectedly fails or stops, this is an indicator of an incorrect configuration. Unknown host names or invalid WinRM configuration can cause the agent to fail. Incorrect configuration causes the agent to stop. If this happens, the agent generates an observation containing a message with more information about the failure. You can view the message contents in the Data Browser. For example, to find out any massages related to the Hyper-V Agent, in the Data Browser, navigate to Hyper-V > Hyper-V Agents > <Hyper-V Agent instance> > Messages > History > <message>. For more information about the Data Browser, see the Data Model Guide.

# Using an alternative method to create and activate agent Instances, and to start their data collection

The following procedure describes the process of creating and activating Agent instances and starting their data collection using the Agent Status dashboard. This dashboard is useful for creating agent instances one Agent Manager at a time.

Another way to create agent instances is using the fglcmd command-line interface. For more information about the available fglcmd commands, see the *Command-Line Reference Guide*.

To create, activate agent instances and start their data collection using the Agent Status dashboard:

- 1 Log in to the Foglight for Hyper-V<sup>™</sup> browser interface.
- 2 On the navigation panel, under **Dashboards**, choose **Administration > Agents > Agent Status**.

The Agent Status dashboard appears in the display area.

gent	Status									25 Sep 20	14 11:31:14 AM	🛐 Reports
9	Age	nt S	tatus									
100	Use the <i>i</i> them.	Agent Sta	itus dashboa	rd to manage	agents. Start by deplo	iying agent packages to A	gent Managers. After d	leployment, y	'ou can creal	te agents, edit	their properties a	ind activati
.gc ≰i	Deploy Age	ent Packa	ge 💕 Creal	:e Agent 🔯	Edit Properties By Tag	Activate 🛛 Deact	vate 🕞 Start Data Co	ollection 🕕	Stop Data Ci	ollection 🔤 Ec	lit 🐻 Delete 🔲	Upgrade
Г	State	Status	Collecting Data	Private Property	Host Name	Agent Name	Namespace	Туре	Tags	Version	Upgradable	Log File
						There Is No Data 1	o Display					
ask	S	Clean (	ompleted Ta	sks						Search		Ø •
2	kerresn 🚽		eornprototal na	510						Dogram		
🤣 i	kerresh ┥ s Action				Details		Host Name		Status Mess	sage	Dur	ation Time

3 On the Agent Status dashboard, click Create Agent.

The Create Agent wizard appears with the Host Selector page open.

Create Agent	reate Agent ×					
<ul> <li>Host Selector</li> </ul>	Host Selector					
<ul> <li>Agent Type and Instance Name</li> </ul>	Select the Agent Managers where you want to create agents.					
• Summary	Search 🔎 🗸					
	Host Name 🔺					
	Host1					
	Previous Next Finish Cancel					

4 Specify the monitored host that you want to use to monitor with the Hyper-V Agent.

In the **Create Agent** wizard, on the **Host Selector** page, select the system on which the Agent Manager is running, and click **Next**.

If the system name does not appear in the list, check that its Agent Manager is active and connected to the Management Server.

The Create Agent wizard refreshes, showing the Agent Type and Instance Name page.

Create Agent		×		
✓ Host Selector	Agent Type and Instance Name			
<ul> <li>Agent Type and Instance Name</li> </ul>	Select the types of agents to create on the selected hosts.			
<ul> <li>Summary</li> </ul>	Search &	) <del>.</del>		
	Agent Type 🔺			
	Agent	*		
	DellFileLogMonitorAgent			
	DellUnixAgent			
	DellWindowsEventLogMonitorAgent			
	HyperVAgent			
	Integration			
	MultiHostProcessMonitorAgent			
	NetScalerAgent			
	OMEAsast	<b>T</b>		
	Generic Name Specify Name			
	The name will be generated using format: <agent type="">@<host name=""></host></agent>			
	Previous Next Finish	Cancel		

- **IMPORTANT:** If the HyperVAgent, SCVMMAgent,or SOFSAgent type is not listed, you need to deploy the Hyper-V, SCVMM,or SOFS Agent package to that host. For more information, see Deploying agent packages to monitored hosts on page 7.
- 5 On the Agent Type and Instance Name page, select HyperVAgent, SCVMMAgent, or SOFSAgent, as required.
- 6 Specify the name of the agent instance that you are about to create.
  - To have Foglight for Hyper-V assign a generic name, ensure that Generic Name is selected.
  - To use a specific agent name, select Specify Name, and in the Name box that appears, type the agent name.
- 7 Click Next.

The Create Agent wizard refreshes, showing the Summary page.

8 In the **Create Agent** wizard, on the **Summary** page, verify that the host name and agent name are correct, and click **Finish**.

The **Create Agent** wizard closes, and the Agent Status dashboard refreshes, showing in the **Tasks** area that the **Deploy Agent Package** task is in progress. After a few moments, a green icon appears in the **Status** column, indicating a successful deployment.

9 Configure the properties of the newly created agent instance.

When an agent connects to the Management Server, it is provided with sets of properties that it uses to configure its correct running state. Foglight stores agent properties on the Management Server.

a On the Agent Status dashboard, select the newly created Hyper-V, SCVMM,or SOFS agent instance, click **Edit**, and chose **Edit Properties** from the menu that appears.

The Agent Status dashboard refreshes, showing the agent properties in the display area.

Agent Status			Jun 9, 2014	3:50:45 PM EDT   🖪 Reports 👻		
Name	Hos	t	Туре	Tags		
HyperVAgent_on_Host1.example.co	m Hos	t1.example.com	HyperVAgent			
This agent is using a private set of properties and is disconnected from the properties for HyperVAgent agents. ©Modify the private properties for this agent. ©Modify the properties for all HyperVAgent agents. XDelete custom set of properties for this agent.						
- Configuration						
Collect CPU metrics	<ul> <li>Host1.exan</li> <li>True</li> </ul>	© False				
Collect disk metrics	True	C False				
Collect memory metrics	True	False				
Collect network metrics	True	False				
Data Collection Scheduler Collector Config defaultSchedule						
		Back To A	gent Status	Cancel Save		

- **i** NOTE: When multiple agents are selected, you can only edit the properties that are common to all selected agents.
- b Click Modify the private properties for this agent.
- c Edit the agent's properties, as required.

For more information, see the following sections:

- Setting the Hyper-V Agent Configuration properties on page 23
- Setting the SCVMM Agent Configuration properties on page 23
- Setting the SOFS Agent Configuration properties on page 24
- Setting the Hyper-V, SCVMM, or SOFS Agent Data Collection Scheduler properties on page 24.
- d When finished, click **Save**, then click the **Back to Agent Status** button.
- 10 Activate the newly created Agent instance.

On the Agent Status dashboard, select the row containing the agent instance that you want to activate, and click **Activate**.

The **Activate Agent(s)** message box appears, showing the status of the activation process. If the agent configuration is successful, after a few moments, the **Activate Agent(s)** message box closes, and the Agent Status dashboard refreshes, showing a green check mark in the **Status** column.

If the agent unexpectedly fails or stops, this is an indicator of an incorrect configuration. Unknown host names or invalid WinRM configuration can cause the agent to fail. Incorrect configuration causes the agent to stop. If this happens, the agent generates an observation containing a message with more information about the failure. You can view the message contents in the Data Browser. For example, to find out any massages related to the Hyper-V Agent, in the Data Browser, navigate to Hyper-V > Hyper-V Agents > <Hyper-V Agent instance> > Messages > History > <message>. For more information about the Data Browser, see the Data Model Guide.

### Setting the agent properties

The Hyper-V and SCVMM Agents collect data from your virtual infrastructure and sends it to the Management Server. The agents keep track of resource utilization metrics and alerts you when certain pre-defined thresholds are reached.

When an agent connects to Foglight Management Server, it is provided with sets of properties that it uses to configure its correct running state. Each agent is provided with a combination of two types of properties: agent properties and shareable properties.

Default versions of these properties are installed with Foglight<sup>™</sup> for Hyper-V. However, you can edit the default shareable and agent properties, configure agent properties that apply only to a specific agent instance, and create edited clones of shareable properties that are used by a subset of agents of a certain type.

There are two ways to access the Hyper-V and SCVMM Agent properties:

- On the Hyper-V Environment dashboard, on the Administration tab, select an agent instance and click Edit Properties (see Configuring monitoring agents for data collection on page 9). This method only provides access to the Configuration properties, but not the Data Collection Scheduler properties.
- On the Agent Status dashboard, select an agent instance and click **Edit Properties**. This method provides access to the full set of Hyper-V Agent properties, and is described in this topic.

For more information about working with agent properties, see the Administration and Configuration Guide.

#### To modify agent properties:

- 1 Log in to the Foglight browser interface.
- 2 Ensure that the navigation panel is open.

To open the navigation panel, click the right-facing arrow **I** on the left.

- 3 Open the Agent Status dashboard and navigate to the agent properties.
  - e On the navigation panel, under **Dashboards**, choose **Administration > Agents > Agent Status**.
    - i IMPORTANT: Another way of editing agent properties is through the Agent Properties dashboard. The properties you specify on this dashboard apply to all instances of the selected type. To be certain that you are editing properties for a particular agent instance, without overwriting any properties of other agent instances of the same type, use the Agent Status dashboard instead of the Agent Properties dashboard.
  - f On the Agent Status dashboard, select the instance of the Hyper-V or SCVMM Agent whose properties you want to modify and click **Edit Properties**.
  - g Indicate that you want to edit the properties of the selected agent instance.

A list of agent properties appears in the display area.

Configuration		
Host Name	HV2012R2-1.vfog.local	
Collect CPU metrics	ø	
Collect disk metrics	ø.	
Collect memory metrics	ø	
Collect network metrics	ø/	
Enable FSM Integration	ø/	
Enable Storage Space Direct Collection	ø.	
Connection Type	WinRM V	
WinRM port	5985	
Use Https		
Inventory update request timeout (sec)	10	
Connection timeout (sec)	60	
WMI request timeout (sec)	10	
SAN Duplicate WWN Support - Internal Par	ams - Do not touch unless instructed by suppo	rt
internal - Support Duplicate Port WWNs		
Physical Location Prefix - (3-char string)		
Data Collection Scheduler		
Collector Config	defaultSchedule	Edit Clone Delete

The position of the Properties pane depends on the dashboard you used to access agent properties. If you used the Agent Properties dashboard, the Properties pane appears to the right of

the **Namespace > Type** pane in the display area. If you used the Agent Status dashboard, the Properties pane appears across the display area.

### Setting the Hyper-V Agent Configuration properties

To monitor a desired Hyper-V<sup>®</sup> server, ensure the Hyper-V Agent's **Configuration** properties are set up as required.

Figure 1. Hyper-V Agent Configuration properties

#### To set the Hyper-V Agent configuration properties:

- 1 Locate the Hyper-V Agent's Configuration properties.
- 2 Set the Configuration properties as follows:
  - Host Name: Type the fully qualified host name of the machine on which the monitored Hyper-V Server is running.
  - Collect CPU metrics: Select this option if you want to collect CPU metrics from the monitored Hyper-V environment.
  - **Collect disk metrics**: Select this option if you want to collect disk metrics from the monitored Hyper-V environment.
  - Collect memory metrics: Select this option if you want to collect memory metrics from the monitored Hyper-V environment.
  - Collect network metrics: Select this option if you want to collect network metrics from the monitored Hyper-V environment.

To start monitoring for a specific Hyper-V server, use the Hyper-V Agent's Configuration properties.

### Setting the SCVMM Agent Configuration properties

To monitor a desired System Center Virtual Machine Manager (SCVMM), ensure the SCVMM Agent's **Configuration** properties are set up as required.

#### Figure 2. SCVMM Agent Configuration properties

- Configuration		
SCVMM Host Name	Host1.example.com	

#### To set the SCVMM Agent Configuration properties:

- 1 Locate the SCVMM Agent's Configuration properties.
- 2 In the **Configuration** area, in the **SCVMM Host Name** box, type the name of the machine on which the Virtual Machine Manager is running.

### Setting the SOFS Agent Configuration properties

To monitor a desired Scale-Out File Server (SOFS), ensure the SOFS Agent's **Configuration** properties are set up as required.

#### Figure 3. SOFS Agent Configuration properties

Configuration		
Host Name		
Collect CPU metrics	True	False
Collect disk metrics	True	False
Collect memory metrics	True	False
Collect network metrics	True	False
Update request timeout (sec)	10	

#### To set the SOFS Agent Configuration properties:

- 1 Locate the SOFS Agent's Configuration properties.
- 2 Set the **Configuration** properties as follows:
  - **Host Name**: Type the fully qualified host name of the machine on which the monitored SOFS Server is running.
  - Collect CPU metrics: Select this option if you want to collect CPU metrics from the monitored environment.
  - **Collect disk metrics**: Select this option if you want to collect disk metrics from the monitored environment.
  - Collect memory metrics: Select this option if you want to collect memory metrics from the monitored environment.
  - **Collect network metrics**: Select this option if you want to collect network metrics from the monitored environment.

# Setting the Hyper-V, SCVMM, or SOFS Agent Data Collection Scheduler properties

Use the Data Collection Scheduler properties to adjust how frequently the Hyper-V or SCVMM Agent collects data from the monitored server.

#### To set data collection scheduler properties:

- 1 Locate the Hyper-V or SCVMM Agent Data Collection Scheduler properties.
- 2 Select the collection configuration list that you want to use.

Click Collection Config, and from the list that appears, select a collection list.

**TIP:** If you want to clone a list and associate it with the agent instance whose properties you are editing, select it and click **Clone**. When prompted, enter a name for the cloned list. For more information on cloning, see the *Administration and Configuration Guide*.

The following collection lists are available:

- Essential Collection: Includes the server host OS, memory, and processor metrics, the server property values, the server host metrics for the LanmanServer, LanmanWorkstation, Netlogon, Dnscache, RpcSs, vhdsvc, nvspwmi, vmms and OS services, the VM processor metrics, and the VM host metrics for the Key-Value Pair Exchange, Shutdown, Heartbeat, and Time Synchronization OS services.
- Resource Collection: Includes the VM processor, network, and storage metrics.

- Inventory Collection: Includes the cluster, server, and VM collections.
- **TIP:** The Inventory Collection process does not submit data back to the Management Server, it is used entirely to support the Essential and Resource metric collections.
- 3 Update the selected collection configuration list.
  - a Click the Edit button on the right of Collector Config.

A dialog box appears.

- b Edit the entries in the list, as required.
- c To edit a value in the table, double-click the table cell, and enter the required value. Each list has the following values:
- Collector Name: Contains the name of the collector: Essential Collection, Resource Collection (Resource, Disk, Network), and Inventory Collection.
- Default Collection Interval: Contains the length of the default collection interval.
- Time Unit: Contains the time unit for measuring the default collection interval: milliseconds, seconds, minutes, hours, or days.
- **Fast-Mode Collection Interval**: Contains the length of the collection interval when the agent is running in fast mode.
- **Fast-Mode Time Unit**: Contains the length of the collection interval when the agent is running in fast mode.
- Fast-Mode Max Count: Contains the maximum count of entries when the agent is running in fast mode.
- d Save your changes to the list by clicking **Save Changes** in the dialog box.

The dialog box closes.

4 In the display area, click **Save**.

# **Upgrading Foglight for Hyper-V**

The latest version of the Foglight<sup>™</sup> for Hyper-V is 7.1.0.

To upgrade Foglight for Hyper-V, you must first stop Hyper-V agent services, or uninstall any older Hyper-V Agent instances. Do not delete the older version of the *.car* file. Then, install version 7.1.0 of the cartridge on top of the older version. Refer to Installation and setup on page 6 for the installation procedure.

For complete information about the upgrade procedure, see the Foglight Upgrade Guide.

**NOTE:** When upgrading the cartridge from a version earlier than 5.6.7, you must deploy the Hyper-V Agent package to monitored hosts using the Update Agent button on the **Administration** tab of the Hyper-V Environment dashboard, not the Agent Status dashboard.

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