

HP SiteScope

for the Windows, Solaris, and Linux operating systems

Software Version: 11.01

SiteScope Monitor Discovery Policy

Document Release Date: September 2010

Software Release Date: September 2010



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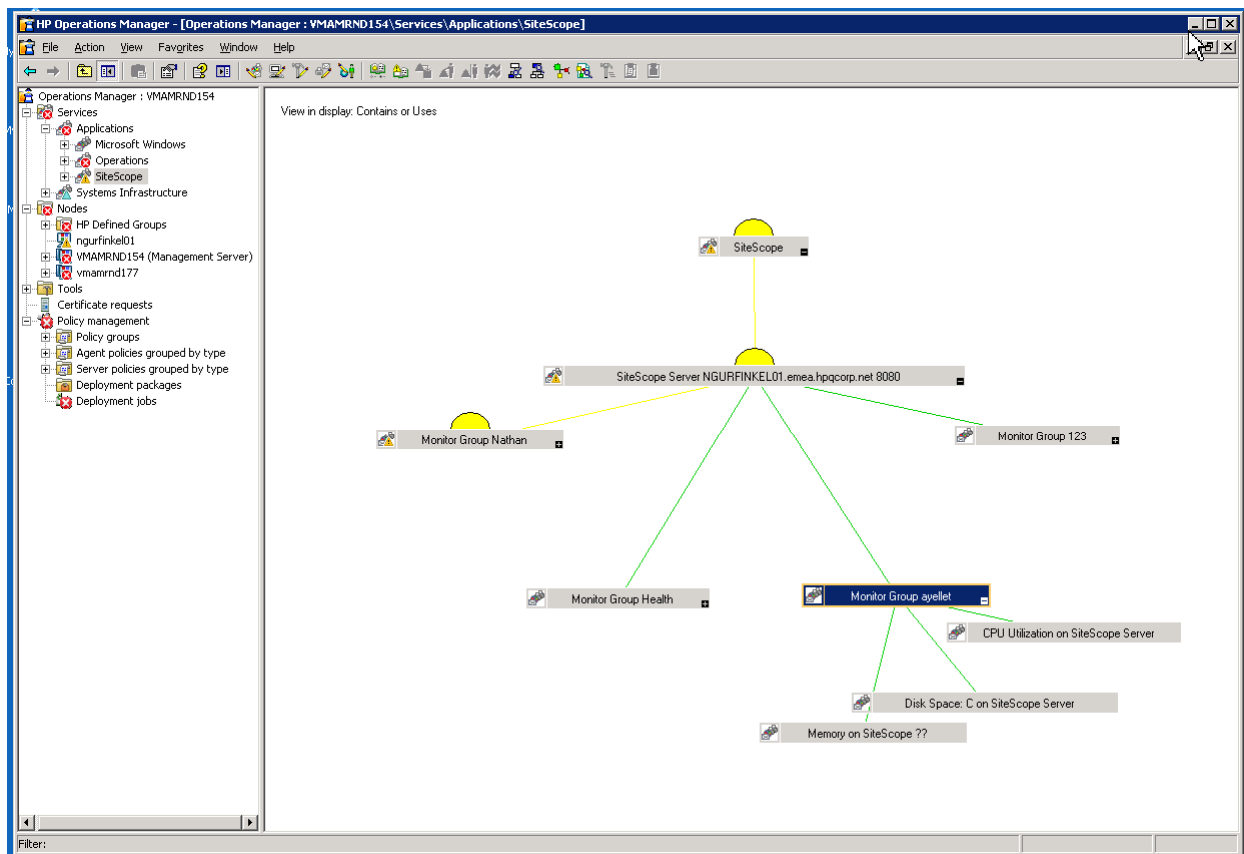
http://h20230.www2.hp.com/new_access_levels.jsp

SiteScope Monitor Discovery Policy

The SiteScope monitor discovery policy was created to enhance the SiteScope integration with Operations Manager (OM). When installed, this policy enables the creation of the SiteScope monitor tree in OM.

The tree is a copy of the monitors and groups tree structure in SiteScope.

When new monitors and/or groups are added or changes are made in the SiteScope monitor tree, the services tree is updated in OM to reflect these changes. Furthermore, when events arrive to OM, they affect the SiteScope services tree and color all related nodes affected by them.



Note: The Operations Manager 9.0 for Windows 64-bit console does not support the services tree view. The tree view is available in the left pane, but not in the service map on the right.

1. Preliminaries

On the SiteScope server, copy the **discoverSiteScope.bat** file from the `<SiteScope>\integrations\om\bin` folder to the `%OvDataDir%\bin\instrumentation` folder.

Note: All policy relevant files can be found in the `<SiteScope>\tools\OMIntegration\SiteScopeMonitorDiscoveryPolicy\SiS_Discovery_policy_3.0` folder.

2. Upload the Policy to the OM Server

a). For Operations Manager for Windows (OM for Windows) servers:

Prerequisites: OM for Windows 8.16 or an equivalent patched 8.10 server, and sufficient user rights (typically, Administrator).

All uploads are performed using the OM for Windows command line tool **ovpmutil** which is normally in the environment path.

1. Open a command prompt, and navigate to the folder where the SiteScope Discovery 3.0 server components are located. For example, **C:\temp\SiS_Discovery_3.0**:

```
cd C:\temp\SiS_Discovery_3.0\ForServer
```

2. Upload the OM Service Model using **ovpmutil**:

```
ovpmutil cfg svt upl .\DiscoverSiteScope.mof
```

HP Operations Manager - [Operations Manager : OMW816\Nodes]

File Action View Favorites Window Help

Operations Manager : OMW816

- Services
- Nodes
- Tools
- Reports
- Graphs
- Certificate requests
- Policy management
 - Policy groups
 - Hierarchical Node Groups
 - HPOM Self Management
 - Microsoft Windows
 - OpenVMS_policies
 - OpenVMS_SPI_policies
 - Samples
 - Service Reports Maintenance
 - SPI for Unix OS
 - Updated Self Mgmt and Samp...
 - Agent policies grouped by type
 - ConfigFile
 - Flexible Management
 - Logfile Entry
 - Measurement Threshold
 - Node Info
 - Open Message Interface
 - Scheduled Task
 - Service Auto-Discovery
 - Service/Process Monitoring
 - SNMP Interceptor
 - Windows Event Log
 - Windows Management Interfa...
 - Server policies grouped by type
 - Deployment packages
 - Deployment jobs

Severity	Duplicates	S	U	I	A	O	N	Received	Created	Service	Node	A
Critical		-	-	-	F	-	X	2/11/2010 3:34:50 PM	2/11/2010 3:27:25 PM	VP_SM:Server:...	OMW816 (Man...	H
Critical		-	-	-	F	-	X	2/11/2010 3:34:50 PM	2/11/2010 3:27:25 PM	VP_SM:Server:...	OMW816 (Man...	H
Critical		-	-	-	F	-	X	2/11/2010 3:34:50 PM	2/11/2010 3:27:25 PM	VP_SM:Server:...	OMW816 (Man...	H
Critical		-	-	-	F	-	X	2/11/2010 3:34:50 PM	2/11/2010 3:27:25 PM	VP_SM:Server:...	OMW816 (Man...	H
Critical		-	-	-	F	-	X	2/11/2010 3:34:50 PM	2/11/2010 3:27:25 PM	VP_SM:Server:...	OMW816 (Man...	H
Warning	2	-	-	X	-	-	-	2/11/2010 5:13:29 PM	2/11/2010 4:10:36 PM	Services & Proc...	OMW816 (Man...	H
Warning	1	-	-	X	-	-	-	2/11/2010 5:14:59 PM	2/11/2010 4:24:32 PM	Services & Proc...	OMW816 (Man...	H
Warning		-	-	X	-	-	-	2/11/2010 5:15:29 PM	2/11/2010 5:15:22 PM	Services & Proc...	OMW816 (Man...	H
Warning		-	-	X	-	-	-	2/11/2010 5:16:19 PM	2/11/2010 5:16:08 PM	Services & Proc...	OMW816 (Man...	H
Warning		-	-	X	-	-	-	2/11/2010 5:18:26 PM	2/11/2010 5:18:16 PM	Services & Proc...	OMW816 (Man...	H
Warning		-	-	X	-	-	-	2/11/2010 5:19:01 PM	2/11/2010 5:18:46 PM	Services & Proc...	OMW816 (Man...	H
Warning	2	-	-	X	-	-	-	2/11/2010 5:19:56 PM	2/11/2010 4:24:28 PM	Services & Proc...	OMW816 (Man...	H
Warning	7	-	-	X	-	-	-	2/11/2010 5:20:37 PM	2/11/2010 4:09:22 PM	Services & Proc...	OMW816 (Man...	H
Warning		-	-	X	-	-	-	2/11/2010 5:20:52 PM	2/11/2010 5:20:04 PM	Services & Proc...	OMW816 (Man...	H

Administrator: C:\Windows\system32\cmd.exe

```

01/22/2010 11:08 AM 1 535 8424A20C-13A1-4316-9425-7B1782A7D686_header.xml
01/22/2010 09:49 AM 111 680 DiscoverSiteScope.mof
01/22/2010 11:08 AM 765 PolicyConfig_77BFF2F6-388D-45B3-8EA9-E237C55F7877.xml
4 File(s) 194,710 bytes
2 Dir(s) 25,677,869,056 bytes free

C:\temp\SIS_Discovery_3.0\ForServer>ovpmutil cfg svt upl .\DiscoverSiteScope.mof
Command: ovOvmofComp.exe -N:\OMW816\root\hewlett-packard\openview\data -C:\temp\SIS_Discovery_3.0\ForServer\DiscoverSiteScope.mof

Hewlett-Packard Openview MOF Compiler Version A.1.0.18.2
Copyright (c) Hewlett-Packard 2004-2006. All rights reserved.
WARNING: Unable to open "%systemroot%\system32\wbem\Logs\OvOvmofComp.log" for appending
errno = 2 : No such file or directory

OvOvmofComp.exe:
Processing Arguments...

Initial Pass...
Lexical Pass...
Parser Pass...
Saving Model...

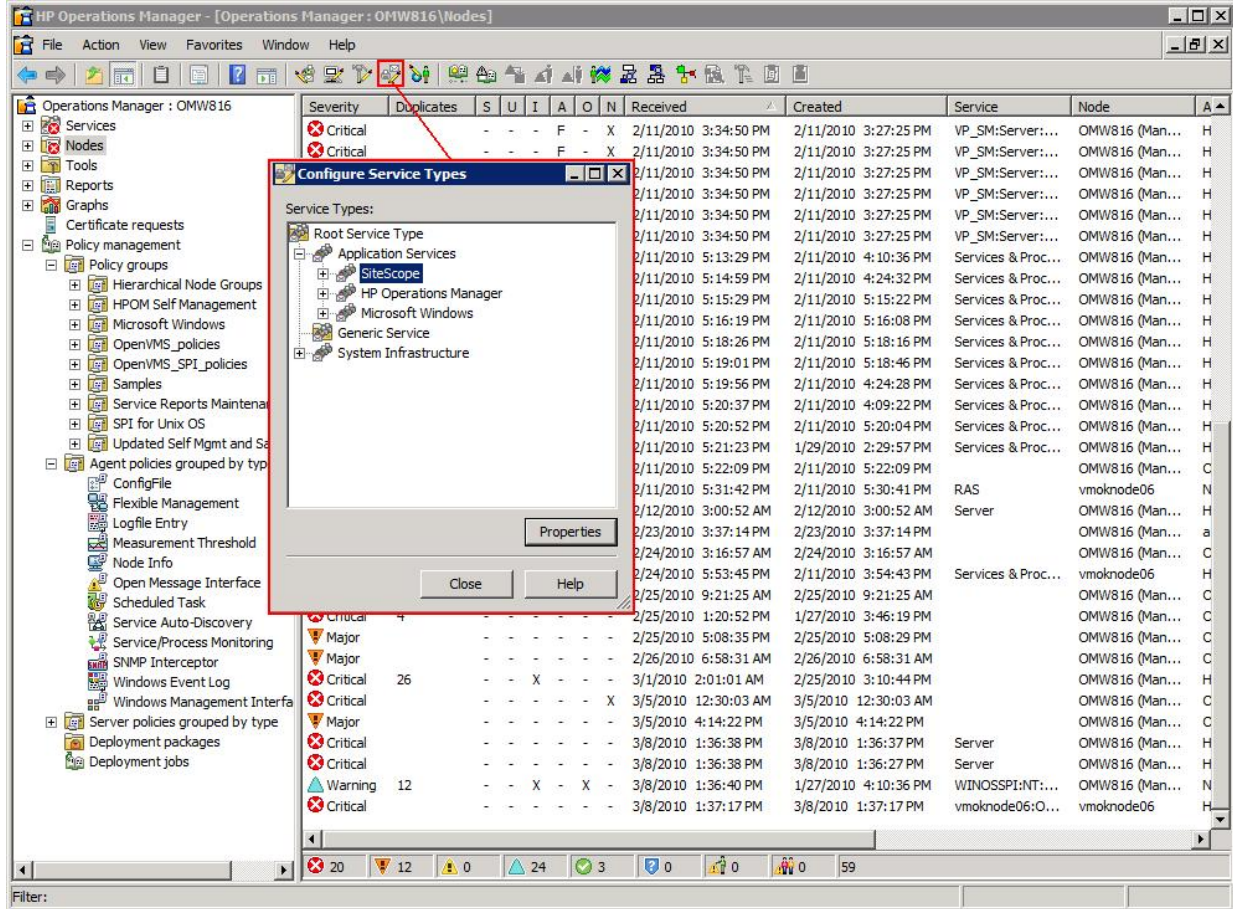
Final Statistics:
o 53 objects saved.
o Total elapsed time: 0 hours, 0 minutes, 1 seconds.
o 28.0423 objects processed per second.

Completed Successfully.
Operation completed successfully.

C:\temp\SIS_Discovery_3.0\ForServer>
  
```

Filter:

The Service Model is displayed in the OM Service Type Editor.



1. Upload the SiteScope monitor discovery policy using **ovpmutil** and the provided index file:

```
ovpmutil cfg pol upl .\PolicyConfig_77BFF2F6-38BD-45B3-BEA9-E237C55F7877.xml
```

The screenshot displays the HP Operations Manager interface. On the left, a tree view shows the 'Policy management' section expanded to 'Policy groups'. The main pane shows a table of events with columns for Severity, Duplicates, S, U, I, A, O, N, Received, Created, Service, and Node. Several critical events are listed, along with several warning events. An 'Administrator: C:\Windows\system32\cmd.exe' window is open in the foreground, showing the execution of the command: `ovpmutil cfg pol upl .\PolicyConfig_77BFF2F6-38BD-45B3-BEA9-E237C55F7877.xml`. The command prompt output shows the command was executed successfully, with a warning about a log file and final statistics indicating 53 objects saved and 28,042 objects processed per second.

Severity	Duplicates	S	U	I	A	O	N	Received	Created	Service	Node
Critical		-	-	-	F	-	X	2/11/2010 3:34:50 PM	2/11/2010 3:27:25 PM	VP_SM:Server...	OMW816 (Man...
Critical		-	-	-	F	-	X	2/11/2010 3:34:50 PM	2/11/2010 3:27:25 PM	VP_SM:Server...	OMW816 (Man...
Critical		-	-	-	F	-	X	2/11/2010 3:34:50 PM	2/11/2010 3:27:25 PM	VP_SM:Server...	OMW816 (Man...
Critical		-	-	-	F	-	X	2/11/2010 3:34:50 PM	2/11/2010 3:27:25 PM	VP_SM:Server...	OMW816 (Man...
Critical		-	-	-	F	-	X	2/11/2010 3:34:50 PM	2/11/2010 3:27:25 PM	VP_SM:Server...	OMW816 (Man...
Warning	2	-	-	-	X	-	-	2/11/2010 5:13:29 PM	2/11/2010 4:10:36 PM	Services & Proc...	OMW816 (Man...
Warning	1	-	-	-	X	-	-	2/11/2010 5:14:59 PM	2/11/2010 4:24:32 PM	Services & Proc...	OMW816 (Man...
Warning		-	-	-	X	-	-	2/11/2010 5:15:29 PM	2/11/2010 5:15:22 PM	Services & Proc...	OMW816 (Man...
Warning		-	-	-	X	-	-	2/11/2010 5:16:19 PM	2/11/2010 5:16:08 PM	Services & Proc...	OMW816 (Man...
Warning		-	-	-	X	-	-	2/11/2010 5:18:26 PM	2/11/2010 5:18:16 PM	Services & Proc...	OMW816 (Man...
Warning		-	-	-	X	-	-	2/11/2010 5:19:01 PM	2/11/2010 5:18:46 PM	Services & Proc...	OMW816 (Man...
Warning	2	-	-	-	X	-	-	2/11/2010 5:19:56 PM	2/11/2010 4:24:28 PM	Services & Proc...	OMW816 (Man...
Warning	7	-	-	-	X	-	-	2/11/2010 5:20:37 PM	2/11/2010 4:09:22 PM	Services & Proc...	OMW816 (Man...
Warning		-	-	-	X	-	-	2/11/2010 5:20:57 PM	2/11/2010 5:20:04 PM	Services & Proc...	OMW816 (Man...

```
Administrator: C:\Windows\system32\cmd.exe
4 File(s) 194,710 bytes
2 Dir(s) 25,677,869,056 bytes free

C:\temp\Sis_Discovery_3.0\ForServer>ovpmutil cfg pol upl .\DiscoverSiteScope.mof
Command: OvOwMofComp.exe -N:\OMW816\root\HewlettPackard\OpenView\data "C:\temp\Sis_Discovery_3.0\ForServer\DiscoverSiteScope.mof"

Hewlett-Packard OpenView MOF Compiler Version A.1.0.18.2
Copyright (c) Hewlett-Packard 2004-2006. All rights reserved.
WARNING: Unable to open "%systemroot%\system32\wbem\Logs\OvOwMofComp.log" for appending
        errno = 2 : No such file or directory

OvOwMofComp.exe:
Processing Arguments...

Initial Pass...
Lexical Pass...
Parser Pass...
Saving Model...

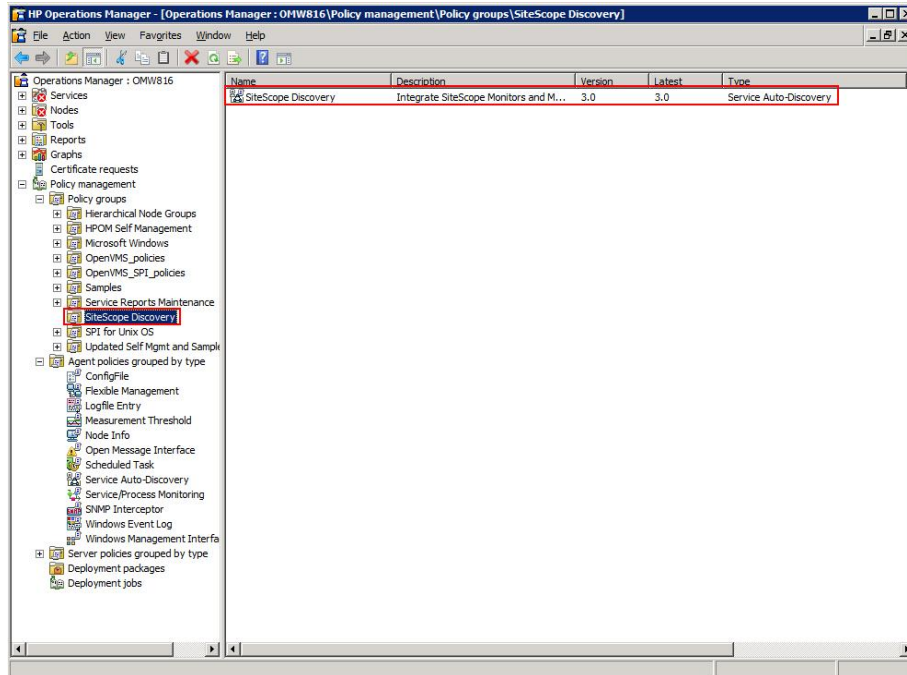
Final Statistics:
o 53 objects saved.
o Total elapsed time: 0 hours, 0 minutes, 1 seconds.
o 28.0423 objects processed per second.

Completed Successfully.
Operation completed successfully.

C:\temp\Sis_Discovery_3.0\ForServer>ovpmutil cfg pol upl .\PolicyConfig_77BFF2F6-38BD-45B3-BEA9-E237C55F7877.xml
Policies upload completed successfully.

C:\temp\Sis_Discovery_3.0\ForServer>
```


The policy is now available in the OM server policy repository under **Policy management > Policy groups**.



b). For Operations Manager for Linux, UNIX, Solaris 9.x servers:

To get the service discovery running:

1. Upload the OM Service Model to the OM management server. Open a command shell and type:

```
/opt/OV/bin/OpC/Utils/mof_cfgupld.sh /opt/HP/SiteScope/tools/\
OMIntegration/SiteScopeMonitorDiscoveryPolicy/\
SiS_Discovery_policy_3.0/ForServer/DiscoverSiteScope.mof
```

(The location of the mof file is:

```
<SiteScope>/tools/OMIntegration/SiteScopeMonitorDiscoveryPolicy/SiS_
Discovery_policy_3.0/ForServer)
```

2. Upload the policies, type:

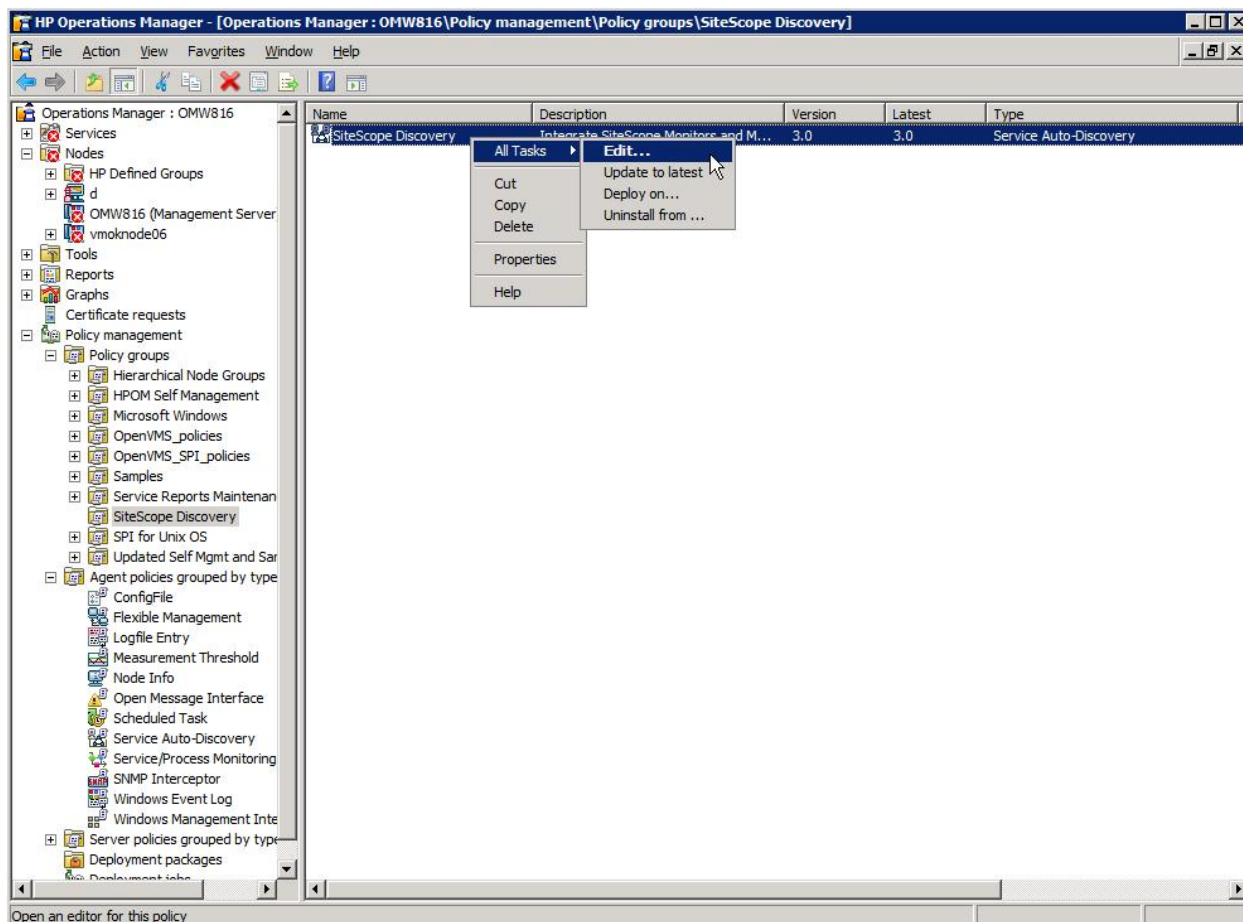
```
/opt/OV/bin/OpC/Utils/opcpolicy -upload dir=/opt/HP/SiteScope/\
tools/OMIntegration/SiteScopeMonitorDiscoveryPolicy/\
SiS_Discovery_policy_3.0/ForServer
```

3. Assign the policies to the node and deploy to the SiteScope node.

3. Set the Schedule Interval

You can set the schedule interval for running the SiteScope monitor discovery policy on the OM agent in the OM for Windows console.

1. Select **Policy management > Policy groups > SiteScope Discovery**. In the right pane, right-click **SiteScope Discovery** and select **All Tasks > Edit**.



2. Click the **Schedule** tab and select an interval for the SiteScope monitor discovery policy. The minimum interval allowed is 1 hour.

HP Operations Manager - [Operations Manager : OMW816] \Policy management \Policy groups \SiteScope Discovery

File Action View Favorites Window Help

Name	Description	Version	Latest	Type
SiteScope Discovery	Integrate SiteScope Monitors and M...	3.0	3.0	Service Auto-Discovery

Operations Manager : OMW816

- Services
- Nodes
 - HP Defined Groups
 - d
 - OMW816 (Management Server)
 - vmknode06
- Tools
- Reports
- Graphs
- Certificate require
- Policy manage
- Policy groups
 - Hierarchi
 - HPOM Se
 - Microsof
 - OpenVM:
 - OpenVM:
 - Samples
 - Service F
 - SiteScop
 - SPI for L
 - Updated
 - Agent policie
 - ConfigFil
 - Flexible I
 - Logfile Ei
 - Measure
 - Node Inf
 - Open Me
 - Schedule
 - Service /
 - Service/f
 - SNMP In
 - Windows
 - Windows
 - Server policie Ready
 - Deployment packages
 - Deployment tabs

SiteScope Discovery [3.0] (Service Auto-Discovery)

File View Help

Save and Close Save Help

Discover Schedule

Schedule Task:

Every hour

run the command: 0

Schedule Summary: Every hour on minute 0 every day

NUM

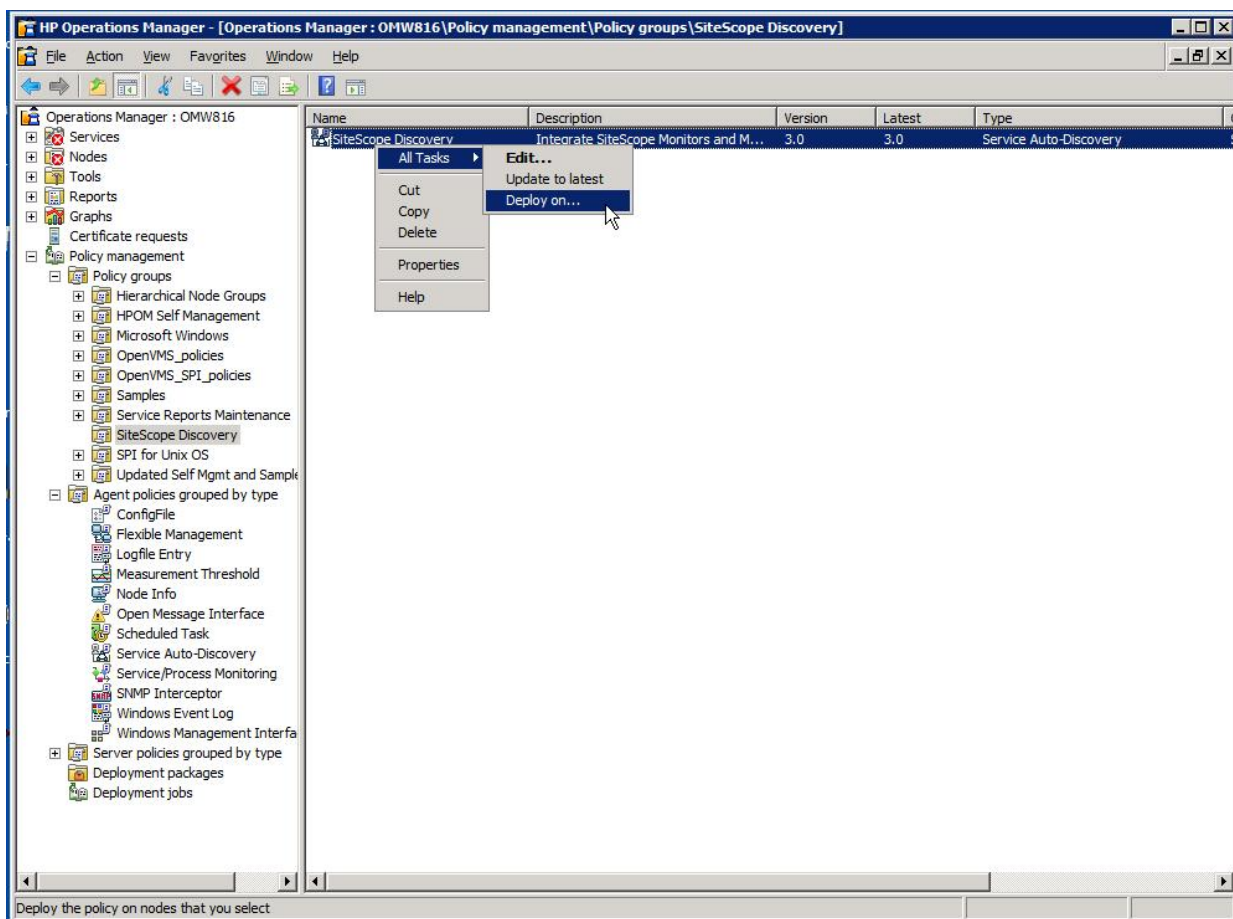
4. Deploy the Policy

Prerequisites:

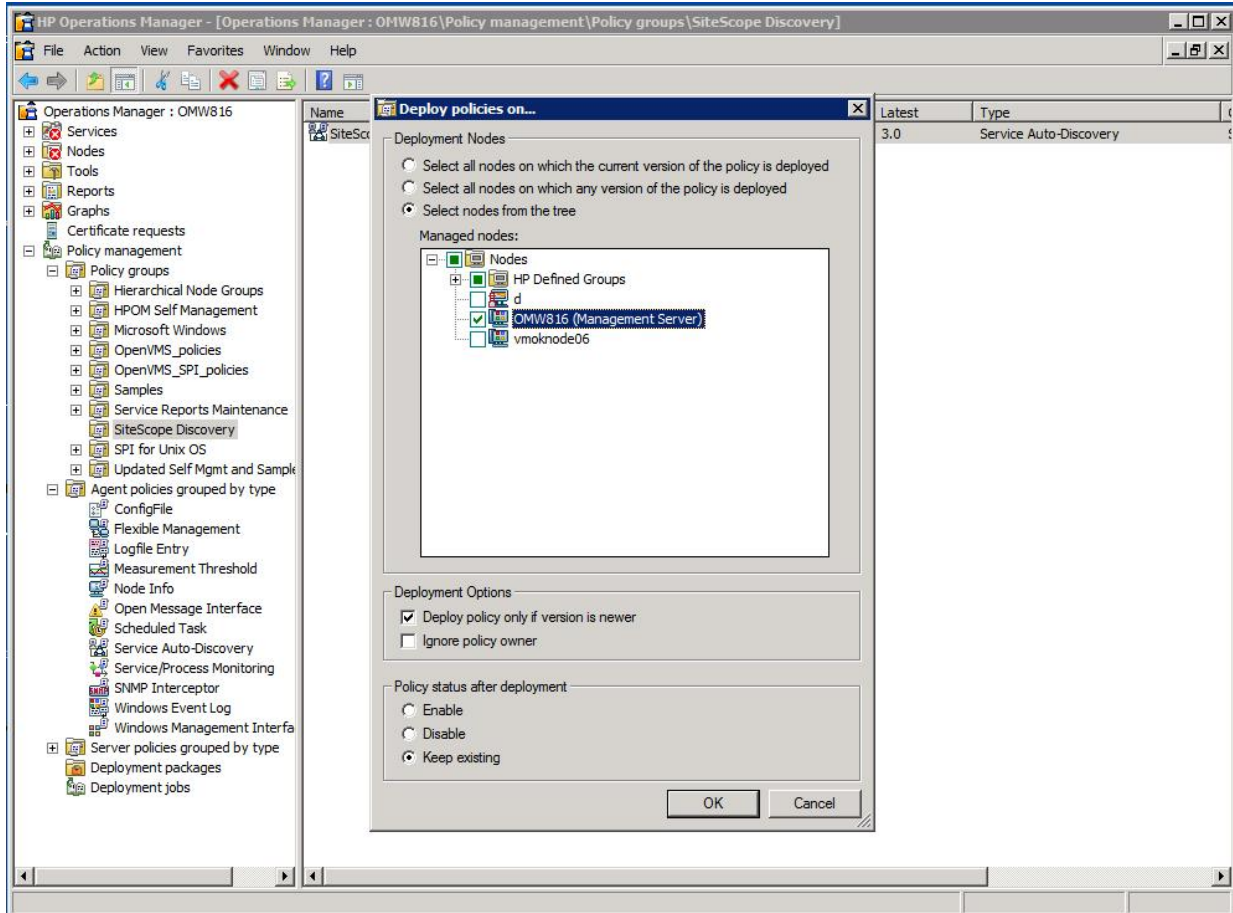
- The SiteScope Server to be integrated is set up as an OM managed node.
- The HP Operations agent is running and connected.
- A certificate has been granted (see the OM Help for details on how to set up a node).

The SiteScope monitor discovery policy must be uploaded to the **SiteScope Discovery** policy group.

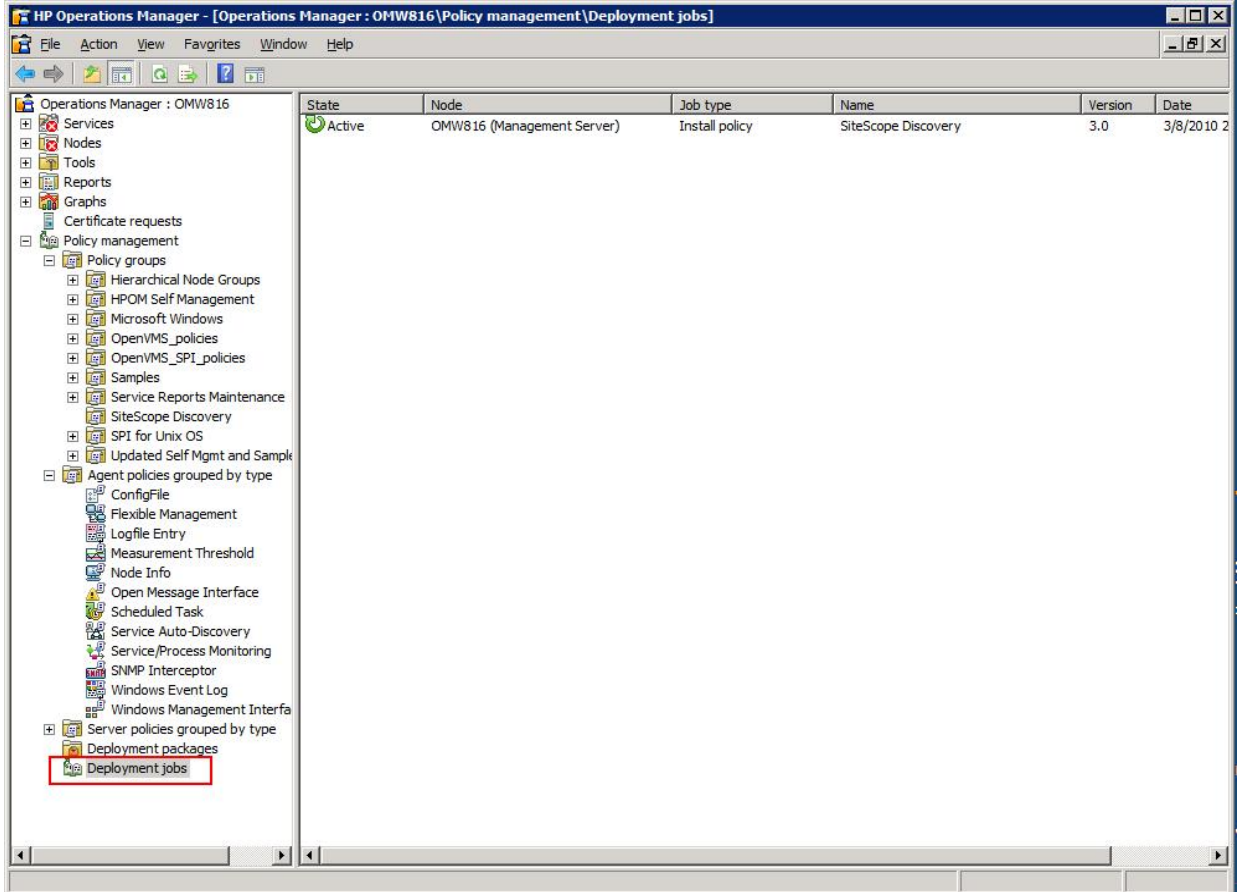
1. To deploy the policy, right-click the **SiteScope Discovery** policy and select **All Tasks> Deploy on**.



2. The Deploy Policies on dialog box opens, displaying the available managed nodes. Select the SiteScope Server OM node and click **OK**



The deployment status is displayed in **Deployment jobs** in the OM Console.



- The policy inventory is displayed, showing all policies deployed to the node.

The screenshot shows the HP Operations Manager interface with a policy inventory table for node OMW816. The table contains the following data:

Name	Description	Version	State	Type
opcmsg		8.0	enabled	Open Message Interface
OvSvcDiscErrorLog	Self-Management OvService Discove...	9.0	enabled	Logfile Entry
OvSvcDiscServerLog	Self-Management OvService Discove...	9.0	enabled	Logfile Entry
ServiceLog_Maint_Job	Runs the maintenance scripts for SE...	1.0	enabled	Scheduled Task
SiteScope_Discovery	Integrate SiteScope Monitors and M...	3.0	enabled	Service Auto-Discovery
Test AGTREP	<initial policy version>	1.3	enabled	Service Auto-Discovery
Update_HierarchicalNodes	Updates the OV_HierarchicalNodes t...	1.0	enabled	Scheduled Task
VP_SM-Server_EventLogEntries	Checks the Application Event Log for messages from HP OV.	1.0	enabled	Windows Event Log
VP_SM-Server_SyncAgentSer...	Synchronizes the agent services acc...	10.0	enabled	Scheduled Task
VP_SM-WMI-Restart	Tries to stop a restart OVMsmAcce...	9.0	enabled	Windows Event Log
VP_SM_CHK_OVODB	Checks the database size of the SQL...	9.0	enabled	Measurement Threshold
VP_SM_DB_Backup	Does a backup of the overview data...	8.0	enabled	Scheduled Task
VP_SM_OVOWServices	Monitors (and eventually restarts) t...	8.0	enabled	Service/Process Monitoring
WINOSSPI-CpuBottleneck_Wi...	Detects CPU bottlenecks on a Windo...	11.0	enabled	Measurement Threshold
WINOSSPI-DHCPClient	Checks the 'DHCP Client' service and...	14.0	enabled	Measurement Threshold
WINOSSPI-DiskBottleneck_Wi...	Detects Disk bottlenecks on a Windo...	11.0	enabled	Measurement Threshold
WINOSSPI-EventLogService	Checks the 'EventLog' service and it...	14.0	enabled	Measurement Threshold
WINOSSPI-MemoryBottleneck...	Detects Memory bottlenecks on a Wi...	11.0	enabled	Measurement Threshold
WINOSSPI-MTS20_FwdAllApp...	Forward all Application log entries wi...	11.0	enabled	Windows Event Log
WINOSSPI-MTS20_MSRTC	Checks the 'MSRTC' service and its c...	7.0	enabled	Measurement Threshold
WINOSSPI-Net_BytesTotalSec	Checks counter 'Bytes Total/sec' of ...	11.0	enabled	Measurement Threshold
WINOSSPI-Net_CurrentComm...	Checks counter 'Current Commands' ...	11.0	enabled	Measurement Threshold
WINOSSPI-Net_NetworkError...	Checks counter 'Network Errors/sec' ...	11.0	enabled	Measurement Threshold
WINOSSPI-Net_ReadsDenied...	Checks counter 'Reads Denied/sec' o...	11.0	enabled	Measurement Threshold
WINOSSPI-OS_FwdApplicatio...	Forwards Application log entries of '...	9.0	enabled	Windows Event Log
WINOSSPI-PlugPlayService	Checks the 'Plug and Play' service an...	14.0	enabled	Measurement Threshold
WINOSSPI-RAS_RASAutodial...	Checks the 'Remote Access Autodial' ...	7.0	enabled	Measurement Threshold
WINOSSPI-RPCService-Win2k	Checks the 'Remote Procedure Call (...	7.0	enabled	Measurement Threshold
WINOSSPI-SpoolerService-Wi...	Checks the 'Spooler' service and its c...	7.0	enabled	Measurement Threshold
WINOSSPI-SysMon_PageFile...	Checks counter '% Usage' of object '...	11.0	enabled	Measurement Threshold
WINOSSPI-SysMon_Redirecto...	Checks counter 'Writes Denied/sec' ...	11.0	enabled	Measurement Threshold
WINOSSPI-SysMon_VirtualMe...	Checks counter '% Committed Bytes...	11.0	enabled	Measurement Threshold
WINOSSPI-WINOS_Win2k_Lo...	Logs selected performance data for ...	9.0	enabled	Measurement Threshold
WINOSSPI-WTS_FwdAllSysW...	Forward all System log entries with s...	8.0	enabled	Windows Event Log
WINOSSPI-WTS_TermService	Checks the 'TermService' service an...	14.0	enabled	Measurement Threshold

5. Manually Run the Monitor Discovery Policy

For testing or debugging purposes, it is useful to run the discovery manually. This can be done using the 'ovagtrep' command line tool on the SiteScope server OM agent node where the policy is running. To do so, run the following commands:

- 1) Force execution of the policy:

```
ovagtrep -run "SiteScope Discovery"
```

- 2) Force submittal to server:

```
ovagtrep -publish
```

- 3) For troubleshooting, use the **System.txt** file in the %OvDataDir%\log folder.

