**How to Build a SCOM Server**

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# Purpose

The document aims to give a guideline on how to build a SCOM server environment then give an example of discovering a Windows-based client in SCOM.

# Terms and Definitions

The following table describes some of the terms, acronyms, and/or abbreviations used in this document.

|  |  |
| --- | --- |
| **Term/Acronym** | **Definition** |
| OS | Operating System |
| DNS | Domain Name System |
| DHCP | Dynamic Host Configuration Protocol |
| SCOM | Microsoft System Center Operations Manager Server |
| HWMP | Lenovo Hardware Management Pack |
| IMM | Integrated Management Module |

# Tools directory

* SCOM2007R2 [\\10.240.196.106\Microsoft\_UIM\Microsoft\SCOM\03.2 SCOM 2007 R2\en\_system\_center\_operations\_manager\_2007\_r2\_x86\_x64\_x15-15495](file://10.240.196.106/Microsoft_UIM/Microsoft/SCOM/03.2 SCOM 2007%20R2/en_system_center_operations_manager_2007_r2_x86_x64_x15-15495)
* SCOM2012R2 \\10.240.196.106\Microsoft\_UIM\Microsoft\SC2012R2RTM\SC2012\_R2\_SCOM
* Win2012R2 \\10.240.196.116\Windows OS\win2012R2\WS2012R2RTM\_Build9600
* Win2008R2SP1 \\10.240.196.116\Windows OS\win2008R2\_sp1\en\_windows\_server\_2008\_r2\_standard\_enterprise\_datacenter\_and\_web\_with\_sp1\_x64\_dvd\_617601
* SQL server 2012 \\10.240.196.106\Microsoft\_UIM\Microsoft\SQL\en\_sql\_server\_2012\_enterprise\_edition\_x86\_x64\_dvd\_813294
* SQL server 2012 patch \\10.240.196.106\Microsoft\_UIM\Microsoft\SQL\en\_sql\_server\_2012\_sp1\_x86\_x64\_dvd\_1176976
* SQL server 2008R2 \\10.240.196.106\Microsoft\_UIM\Microsoft\SQL\ en\_sql\_server\_2008\_sp1\_x64.exe
* VMware vSphere Client \\10.240.196.106\uim\_ivp\Softeware\VMware vCenter Server IMG
* Report viewer [\\10.240.196.106\uim\_ivp\Softeware\ReportViewer](file://10.240.196.106/uim_ivp/Softeware/ReportViewer)
* .net3.5/4.0 directory X:\sources\sxs (X means the OS image disk)
* License tool \\10.240.196.106\Microsoft\_UIM\MSUIM6.0\License tool
* HWMP

\\10.240.196.106\Microsoft\_UIM\MSUIM6.2\HWMP

# Detailed procedure

## OS deployment

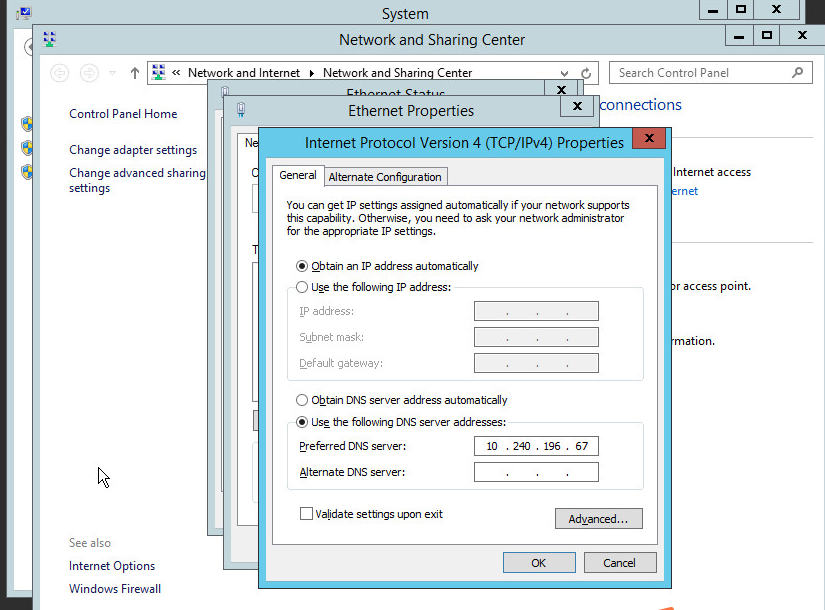
* + 1. Install VMware vSphere Client: [\\10.240.196.106\uim\_ivp\Softeware\VMware](file://10.240.196.106/uim_ivp/Softeware/VMware) vCenter Server IMG
    2. Login vSphere Client with the following info:

IP: 10.240.196.105

User ID: root

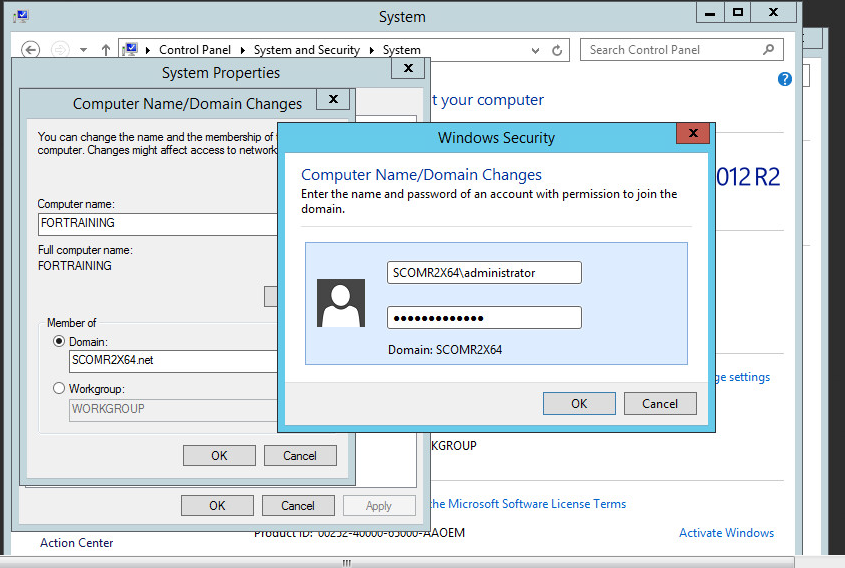
Password: sys2016HEALTH

* + 1. Create a new virtual machine under 10.240.196.105
    2. Load the OS image (\\10.240.196.116\Windows OS\win2012R2\WS2012R2RTM\_Build9600) then install it
    3. After OS is installed, change DNS as 10.240.196.67, leave others empty



* + 1. Add this server into the domain SCOMR2X64.net (Control Panel\System and Security\System\Change settings)
    2. In the pop-up box, input the following info:

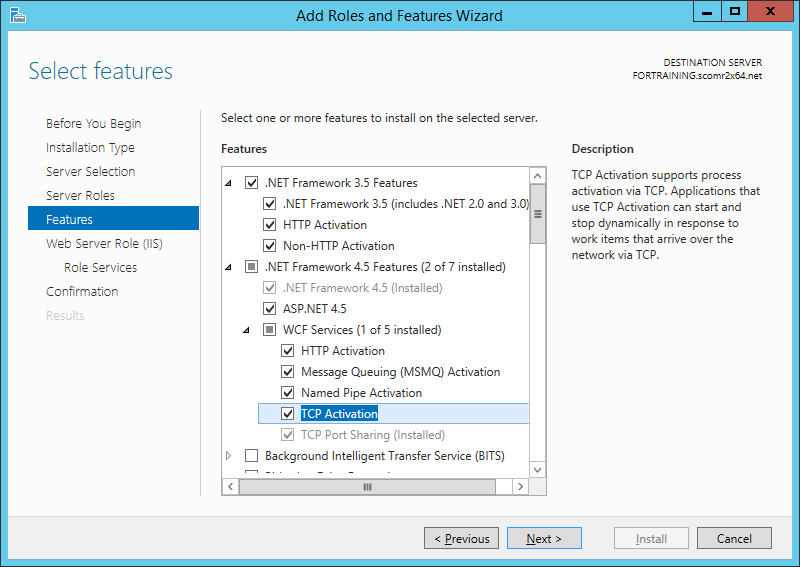
ID：SCOMR2X64\Administrator

Password：SYS2011health

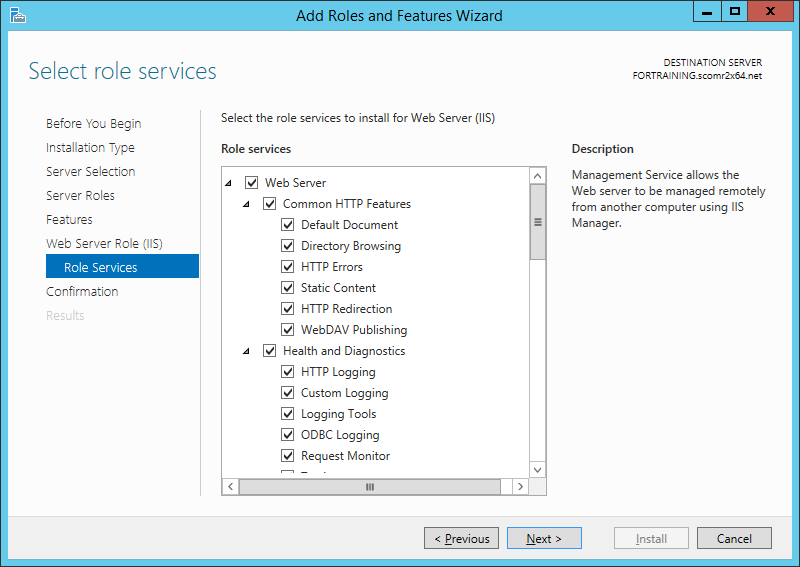
* + 1. Reboot the server then login with the new Windows account (SCOMR2X64\Administrator)

## Server features installation

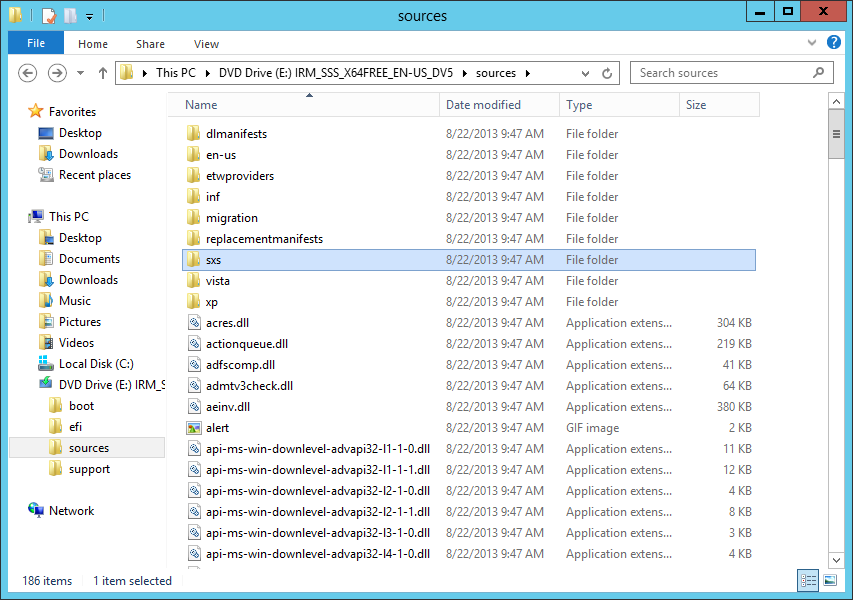
### Launch the Server Manager then install .net 3.5 and .net 4.0 (no need to install .net4.0 if .net4.5 is already installed)



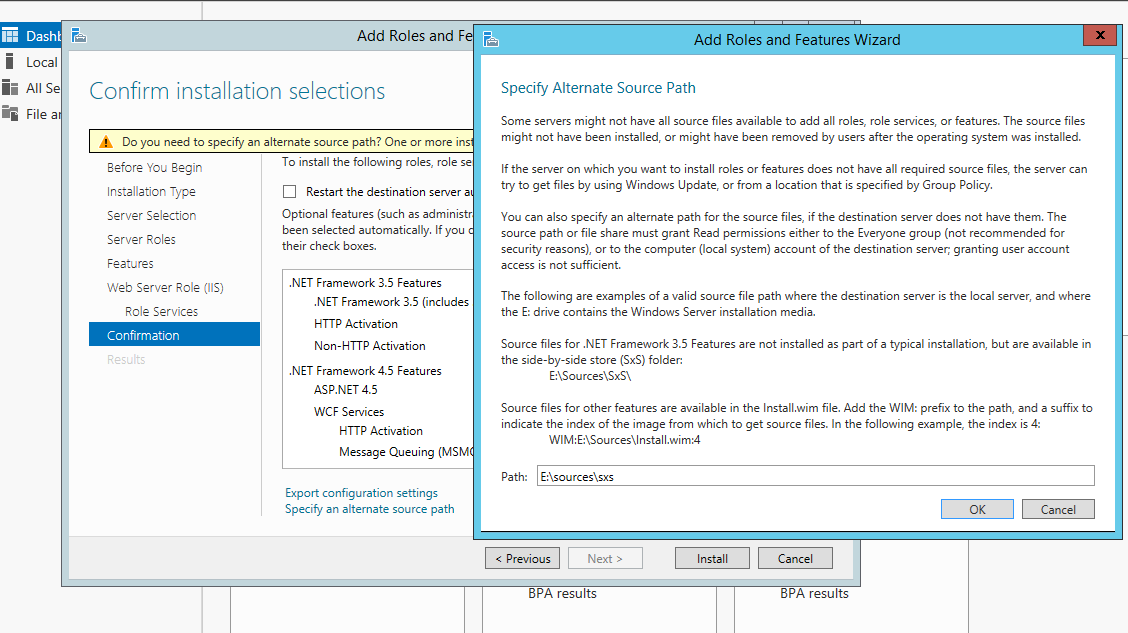
### Install IIS (Select all features for IIS installation)



### Load the OS image on the local SCOM server then find the sxs folder

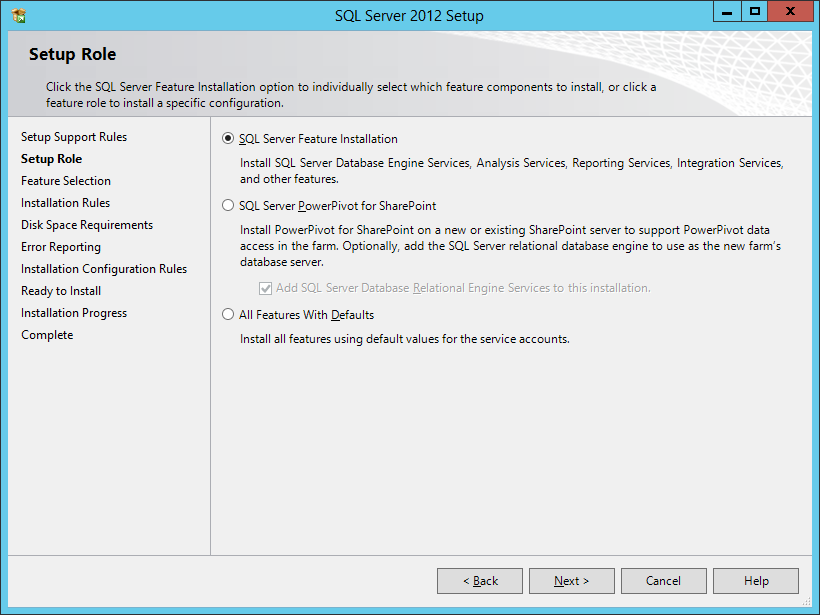


* + 1. Specify an alternate source path, e.g. E:\sources\sxs then start the installation

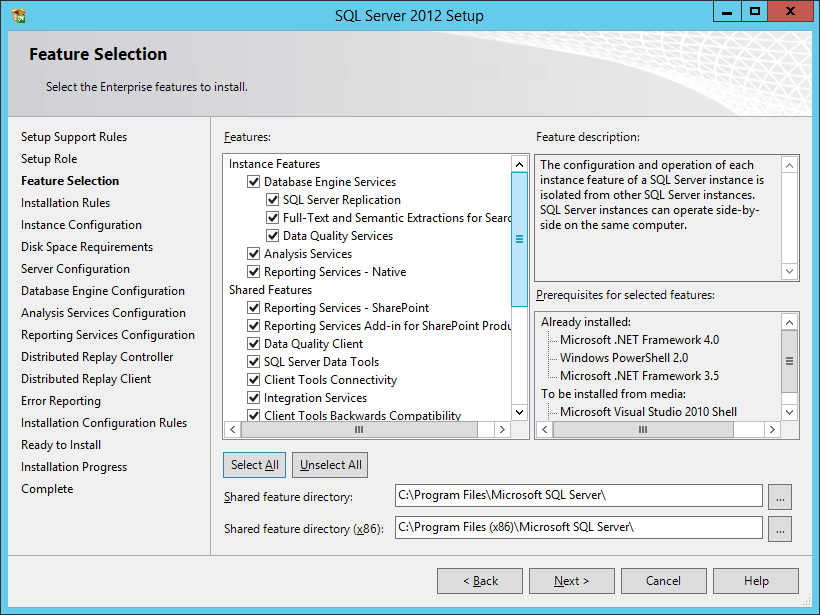


## SQL server installation

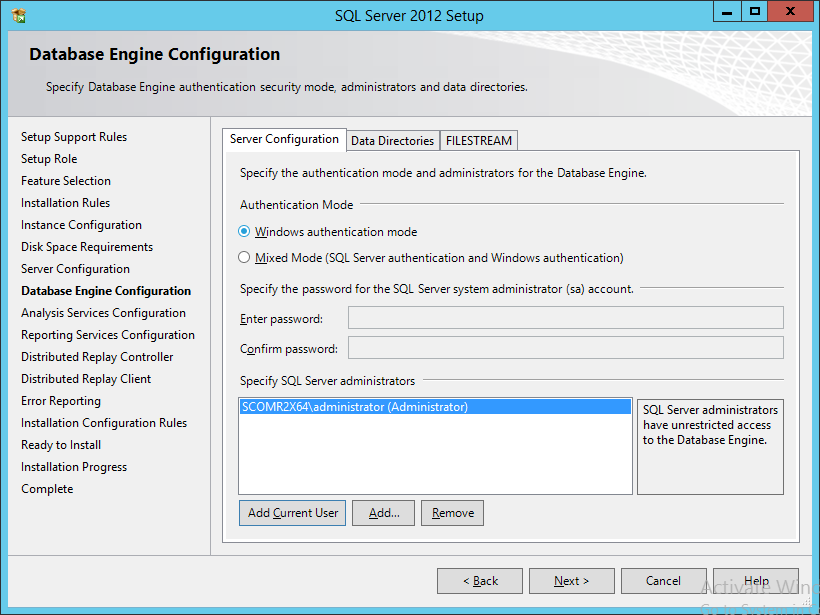
* + 1. Run the SQL server installer, select Installation—New SQL Server stand-alone installation or add features to an existing installation
    2. Select SQL server Feature installation



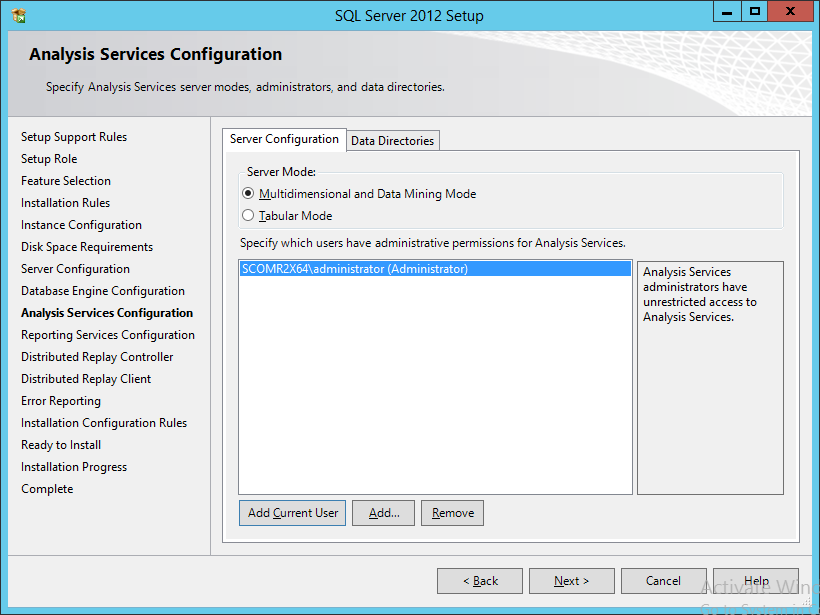
* + 1. Select all features



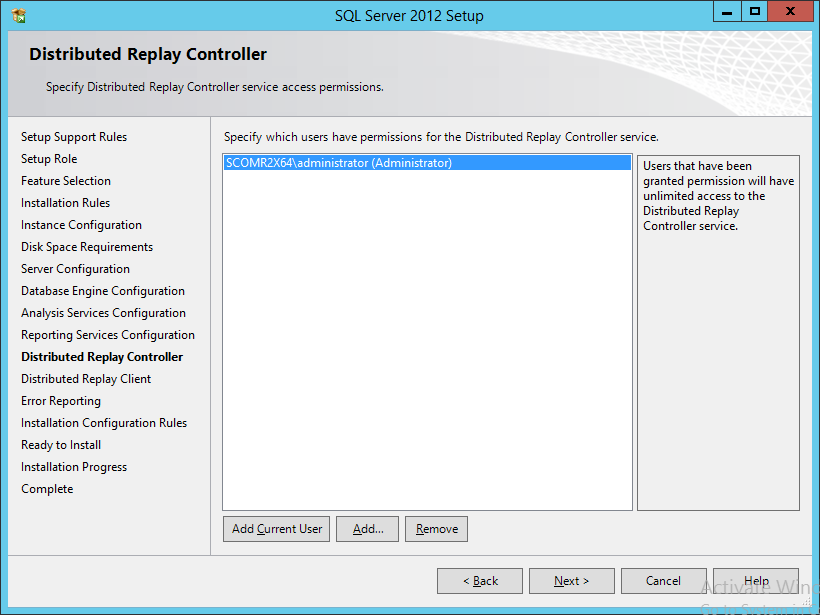
* + 1. Add current user for Database Engine Configuration



* + 1. Add current user for Analysis Service Configuration



* + 1. Add current user for Distributed Relay Controller

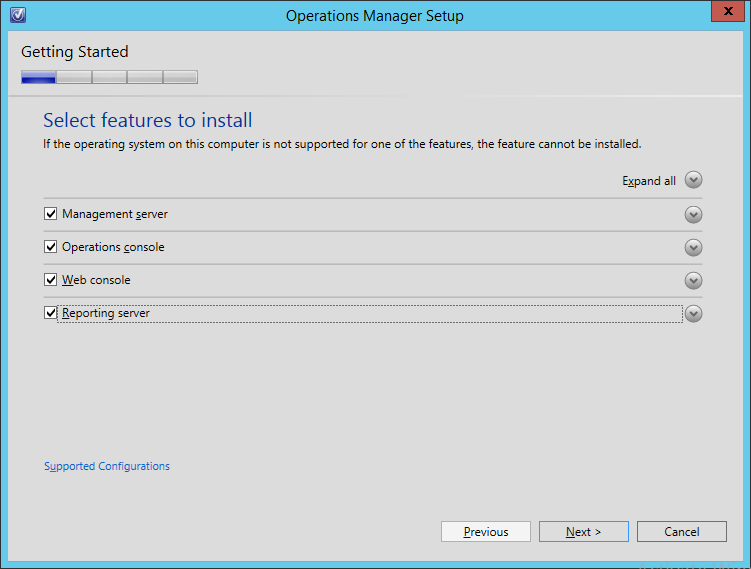


* + 1. Finish the SQL server installation
  1. Report viewer installation

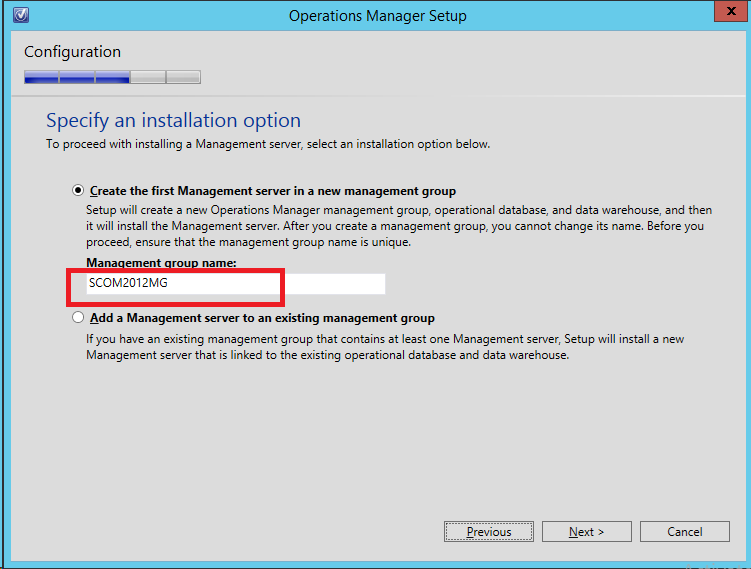
If you want to install SCOM Reporting Server feature, you must install Report Viewer first.

## SCOM installation

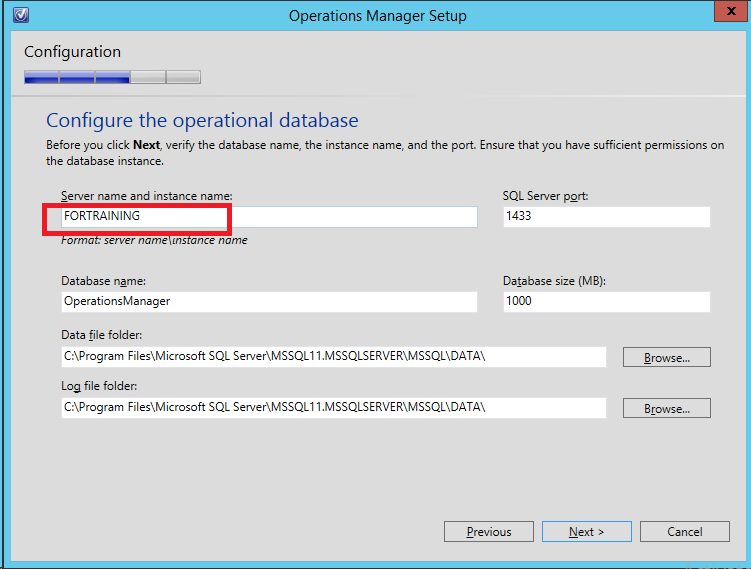
### Select all the four features to install

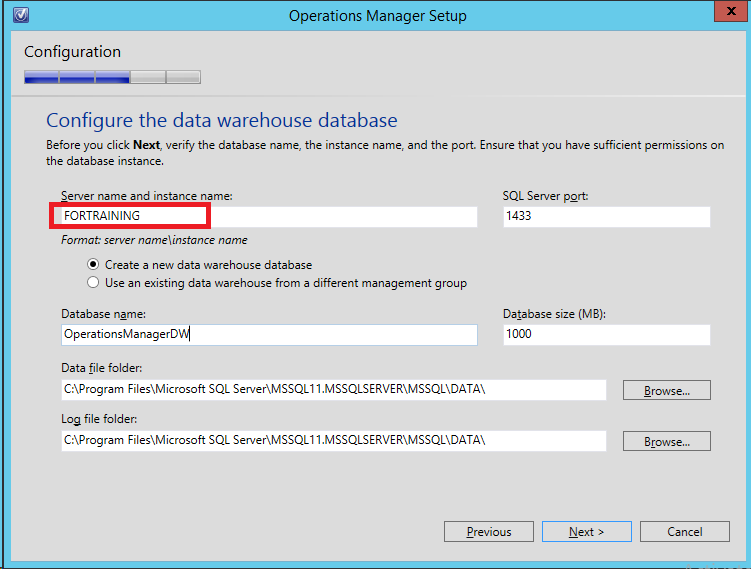


* + 1. Specify a management group name (any one)

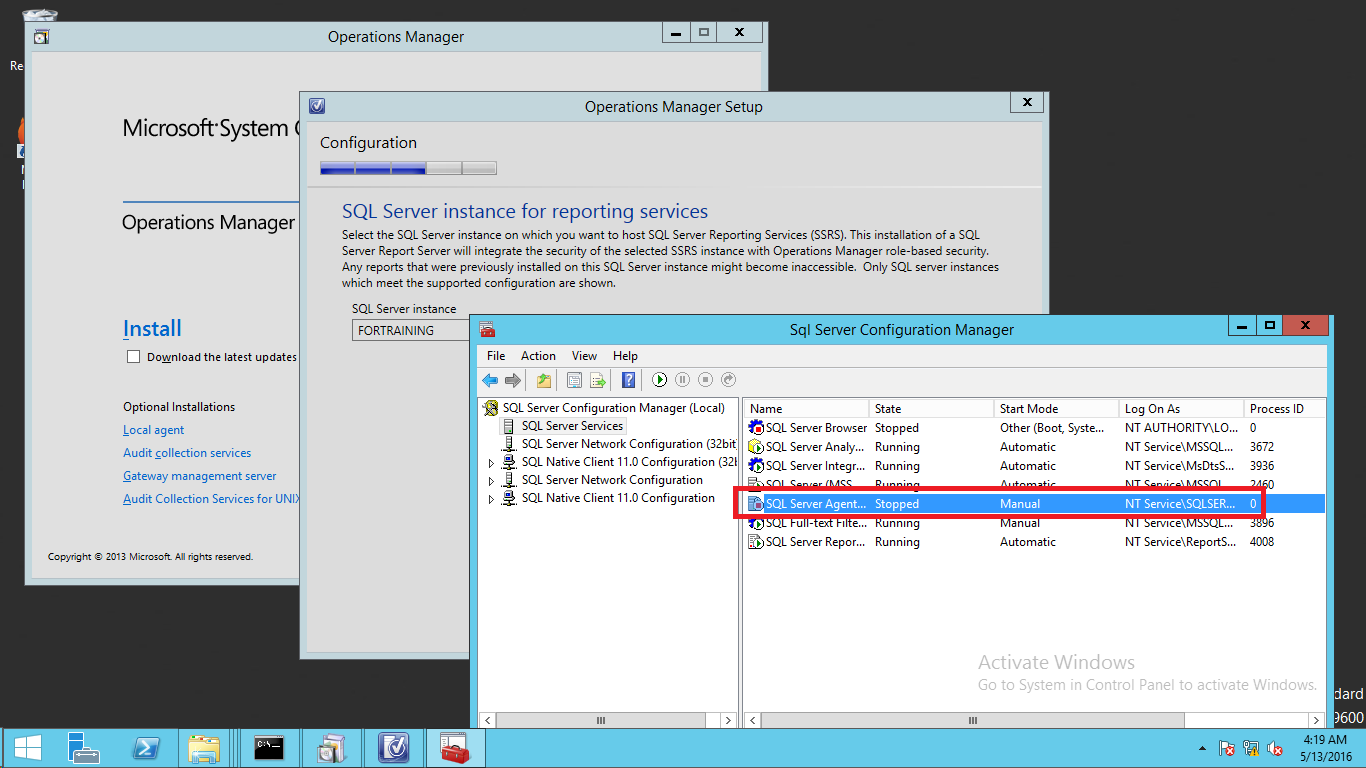


* + 1. In the server name and instance name field, input the server computer name

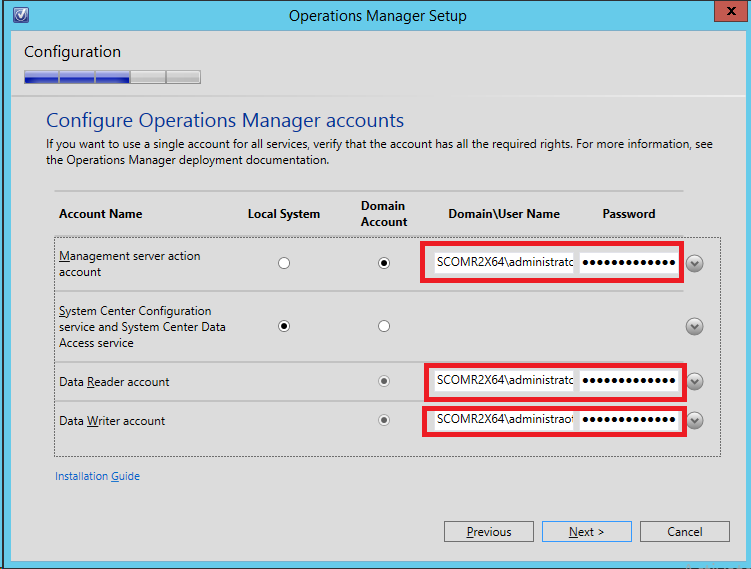




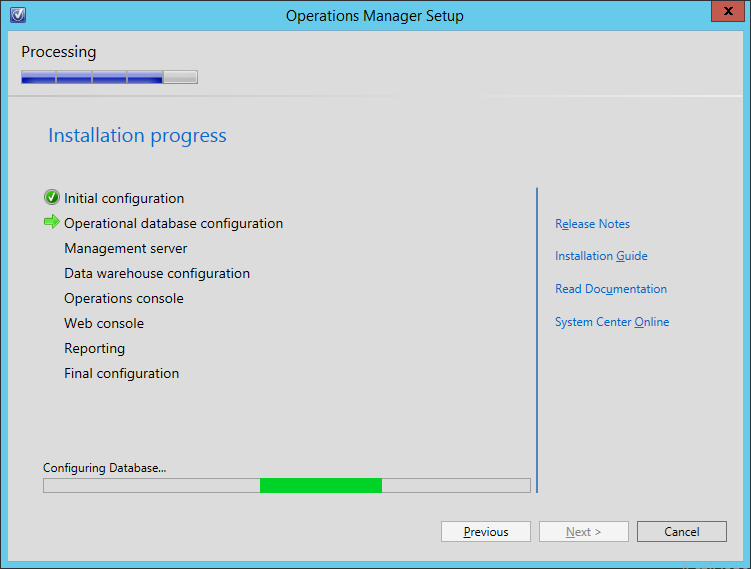
* + 1. Start SQL Server Agent for reporting services (SQL Server Configuration Manager--SQL Server Services--SQL Server Agent--Start)



* + 1. Input Domain\User Name and Password for configuring Operations Manager accounts

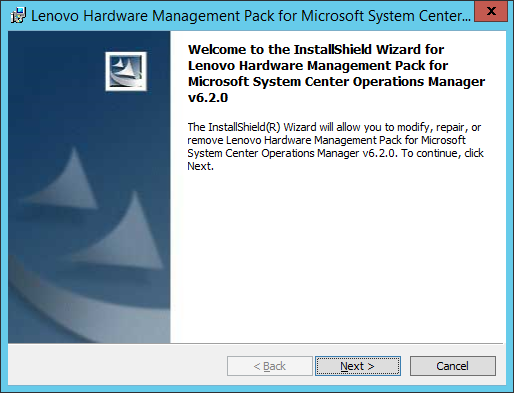


* + 1. Finish the SCOM installation

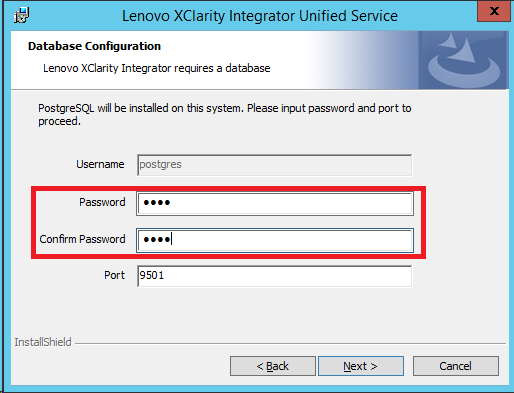


## HWMP installation

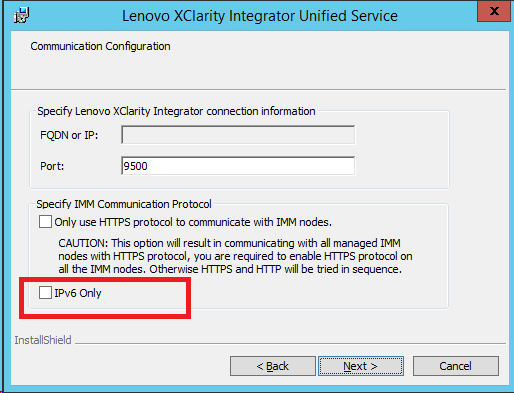
* + 1. Run the HW MP installer then proceed with the installation



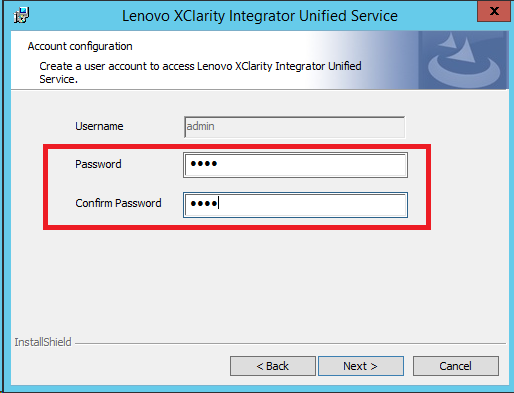
* + 1. Set a password for PostgresSQL



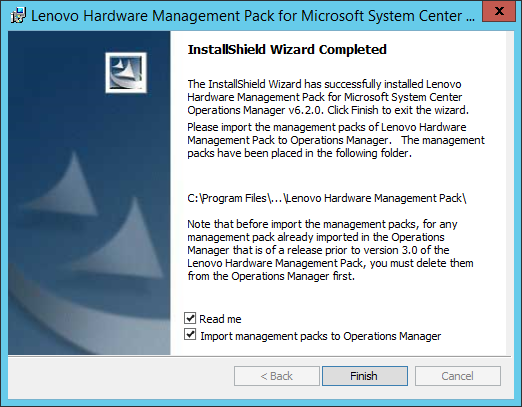
* + 1. Tick IPv6 Only if it’s for IPv6 environment, otherwise it will be IPv4 by default



* + 1. Set a password for UUS account

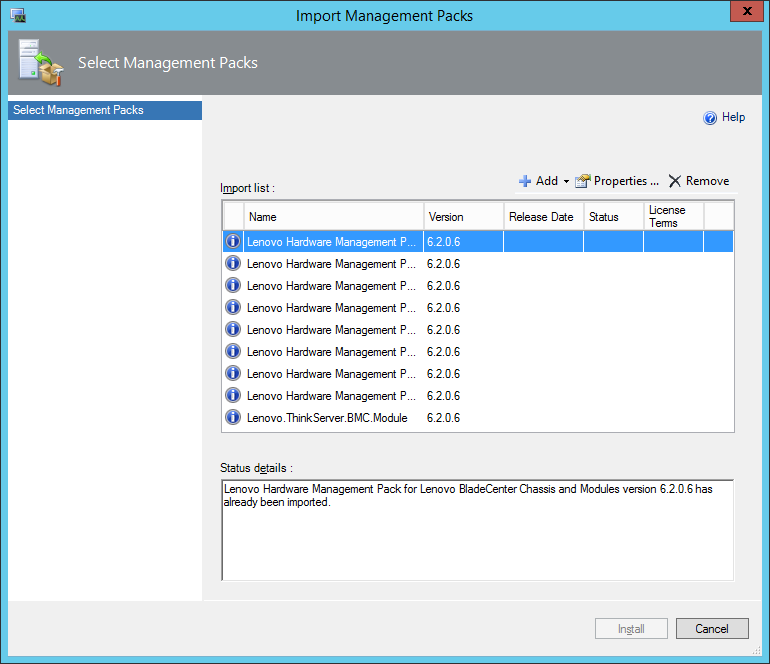


* + 1. After the installation is complete, import the management pack automatically

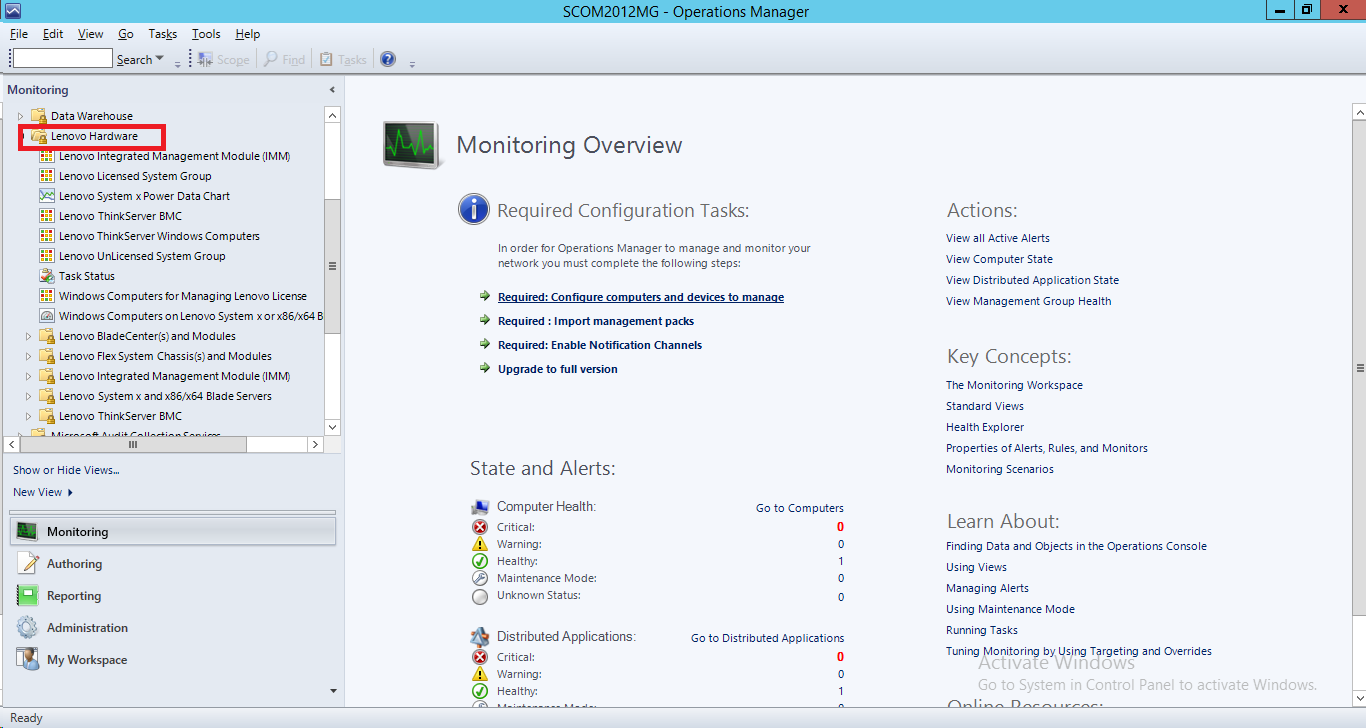


Or import them manually:

* + - 1. In SCOM Operation Console, click Administration -> Management Packs, right click Menu -> Import Management Packs…
      2. In popup dialog, click Add -> Add from Disk… -> select the installed packs (default install location is: C:\Program Files\Lenovo\Lenovo Hardware Management Pack\Management Packs.



* + 1. After management packs are imported, a Lenovo Hardware folder is added in the Monitoring panel of SCOM Operation Console



# ~~Install License tool~~

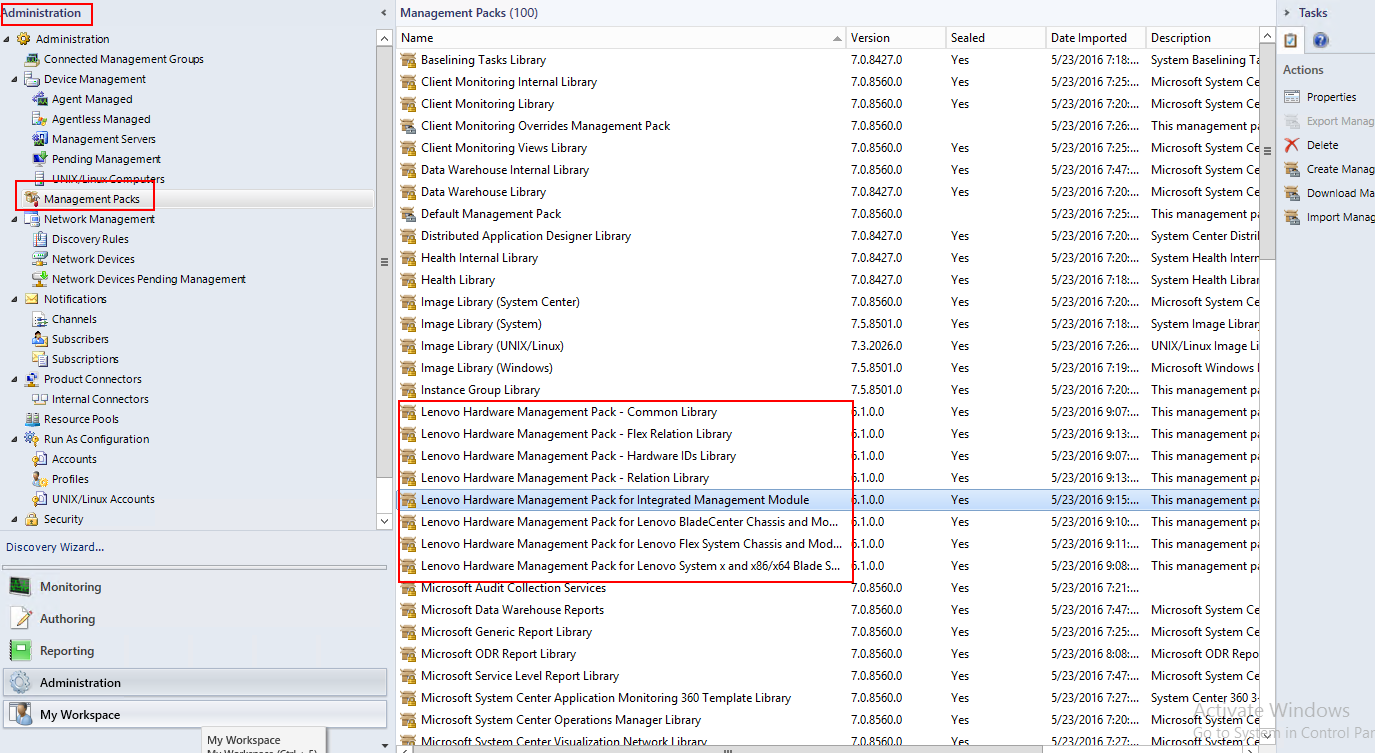
~~When you are installing this product for the first time, a 90-day trial license is automatically activated.~~

~~After the trial license expires, the premium features are disabled unless a product license is activated by a license tool. \\10.240.196.106\Microsoft\_UIM\MSUIM6.0\License tool~~

# How to uninstall HWMP completely

* 1. Uninstall the following programs:
* ~~GSKit8 Crypt 32-bit~~
* Lenovo XClarity Integrator Unified Service
* Lenovo Hardware Management Pack for Microsoft System Center Operations Manager v6.2
* PostgreSQL 9.2 (x86)
  1. Manually delete the following folders (if required):
* C:\Program Files (x86)\Lenovo\Lenovo XClarity Integrator Unified Service
* C:\Users\administrator.SCOMR2X64\postgresql\_data
  1. Manually delete the management packs, follow the sequence: relation, flex relation, system, flex system, blade center, IMM, hardware IDs, Common

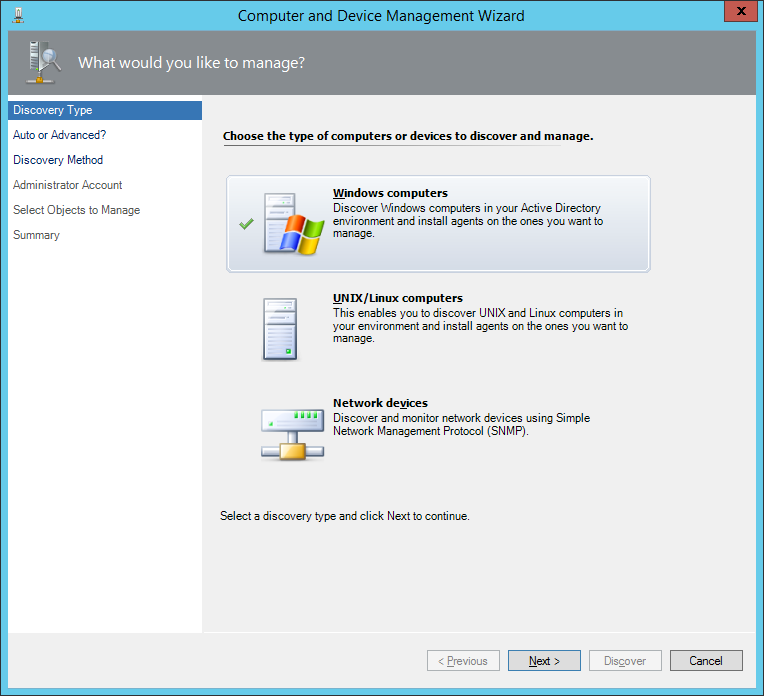
**Note:**

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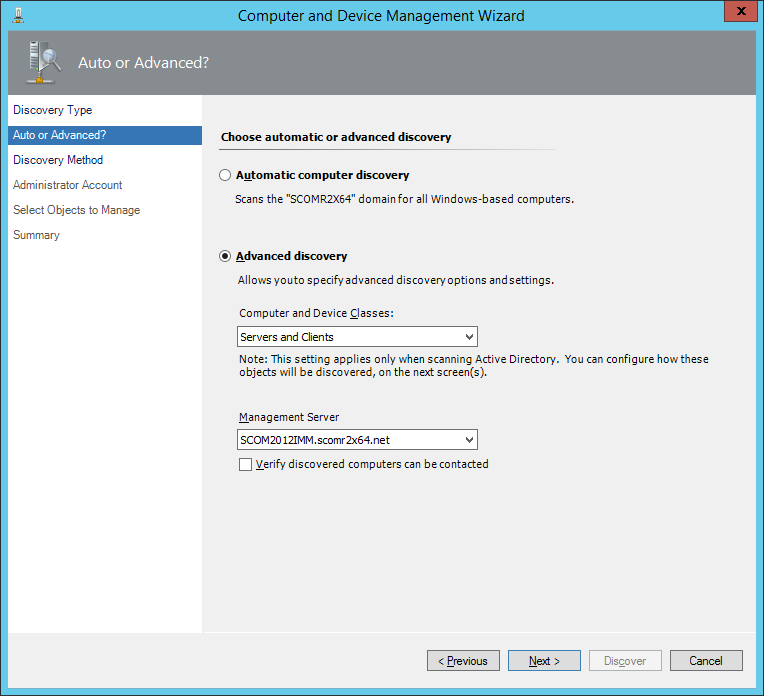
* 1. Reboot the server

# How to discover a client in SCOM

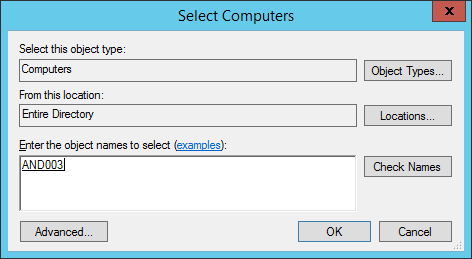
* 1. In SCOM Administration panel, click Discovery Wizard-- Windows computers then click Next



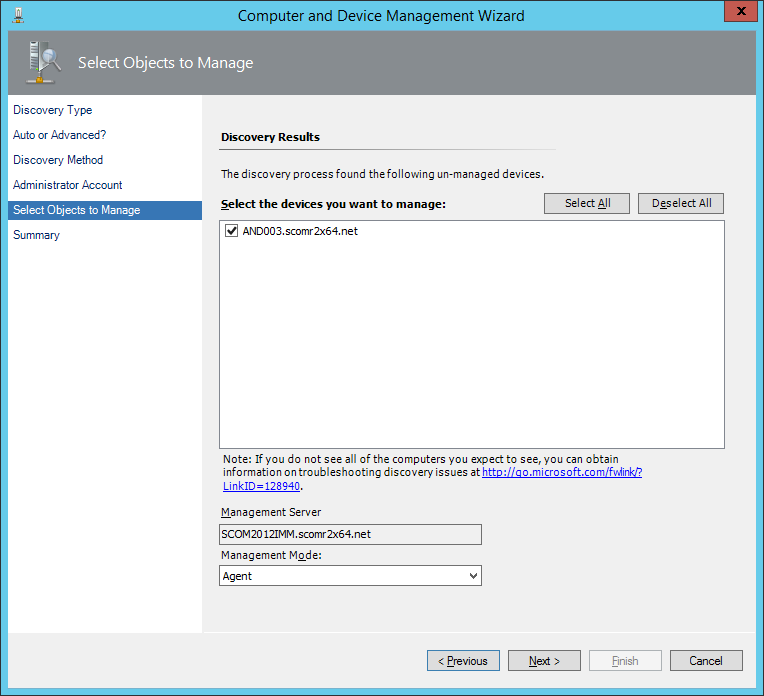
* 1. Select Advanced discovery then click Next



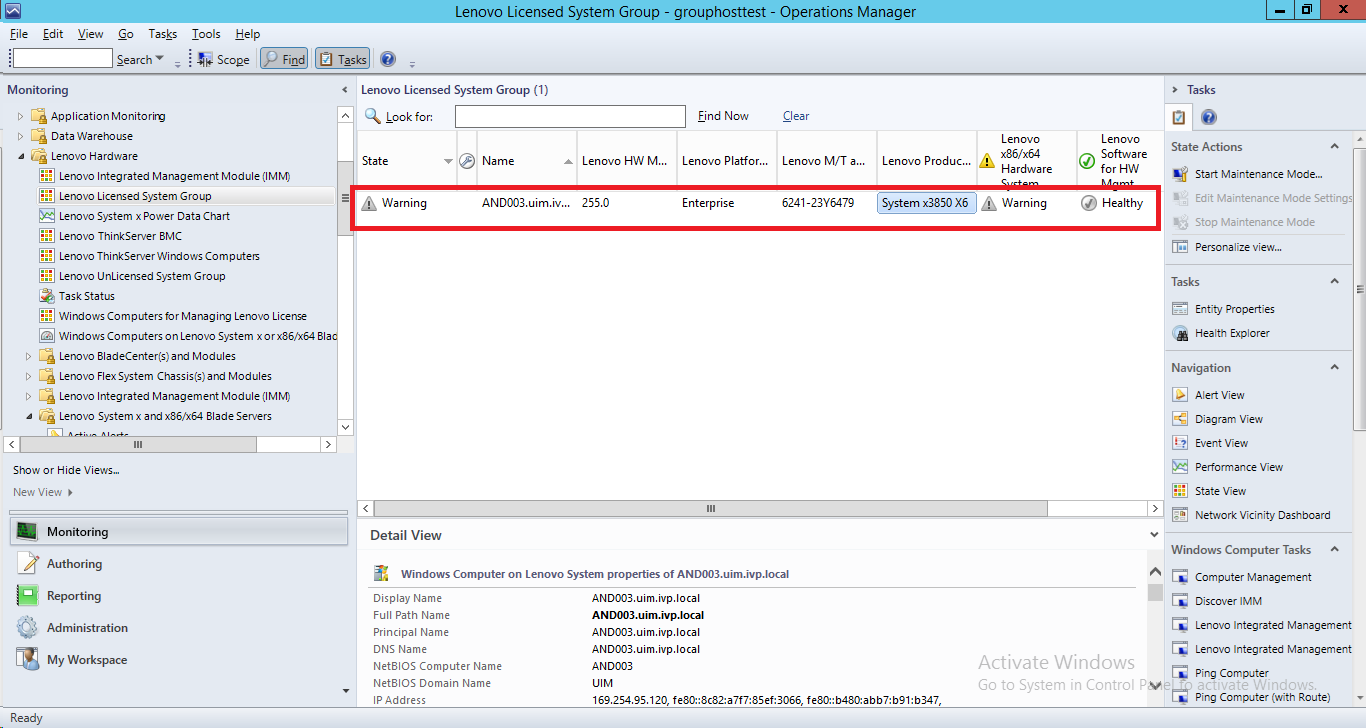
* 1. Browse for or type in the computer name to be discovered, then click Next



* 1. Select the device then discover it



* 1. After the client is discovered, you’ll see the client info in Lenovo Licensed System Group tab under Lenovo Hardware folder



* 1. Remove the server from the HWMP

In SCOM Administration panel, select the Agent Managed, and then you will find the managed server lists. Select the server and then kick the Delete button.

