



Management Plugin for SCOM/SCCM

User's Guide

Revision 1.0.0.160520

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Software Revision History

Date	Rev	Description
2016/05/20	1.0.0	Initial version.

Document Revision History

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2016/05/20	1.0.0	Created this document.

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1. Overview

Data Centers use Microsoft SCOM as a single point of management. The management plugin for SCOM/SCCM should be integrated with the current SCOM interface.

At SCOM you should see Supermicro server hosts and the following information:

- Inventory
 - Host List
 - Services List
- Health
 - Monitor Host Status
 - Monitor Service Status
- IPMI ping info
 - Host View (Status Information)
- License info
 - Service View (Status Information)
- Performance
 - System Utilization
- Power management
 - pminfo (Power supply monitor)
- Asset info
- KVM/IPMI WebUI
- Firmware management
 - BIOS FW update and configuration
 - BMC FW update and configuration
- LDAP/AD
 - LDAP/AD support for SSM
- Mount/unmount ISO images

2. Prerequisites and Installation

2.1 Supported Operation System

- Windows Server 2012 R2

2.2 System Requirements

- Windows Roles
 - .Net framework 3.51
 - .Net framework 4.5
 - .Net HTTP Activation 4.5
 - Windows Process Activation Service
 - Process Model
 - Configuration APIs
- Windows features
 - Web Server(IIS)
 - Application Server
- Windows Services
 - Web Server Default Document Directory Browsing HTTP Errors
 - Static Content HTTP Logging Request Monitor
 - Static Content Compression
 - Request Filtering
 - Windows Authentication
 - .NET Extensibility 3.5
 - .NET Extensibility 4.5
 - IIS ASP.NET 3.5
 - IIS ASP.NET 4.5
 - ISAPI Extensions
 - ISAPI Filters
 - Management Console
 - ASP.NET 4.5
 - IIS 6 Metabase Compatibility
 - Application Development
 - .NET Framework 4.5
- SQL Server 2012 SP1
- System Center 2012 R2 Operation Manager

2.3 Installing Management Plugin for SCOM/SCCM

1. Log in as the administrator.
2. Run **Supermicro_DCMS_SCOM_ManagementPack_1.0.0.160520_Installer.exe** to start the installation.
3. Click **Browse** to select an installation target folder and then click **Install** to continue.

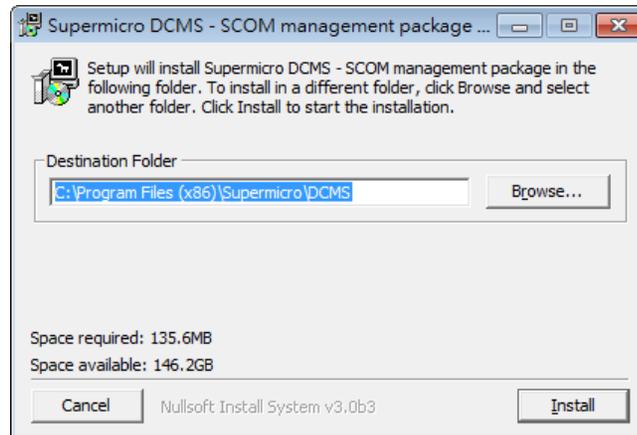


Figure 2-1

4. When the installation is complete, click **Close** to finish.

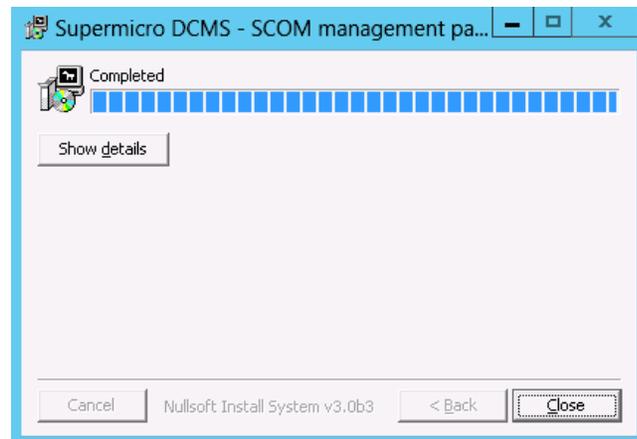


Figure 2-2

2.4 Starting the SCOM Console

The management plugin for SCOM/SCCM is integrated with System Center 2012 R2 Operation manager, and it will start automatically after the plugin (*.mpb) file is imported. To interact with SCOM interface, follow the steps below:

1. Connect to the SCOM host via Remote Desktop: `mstsc /v:10.136.176.153:3389`

2. Log in with Username & Password.

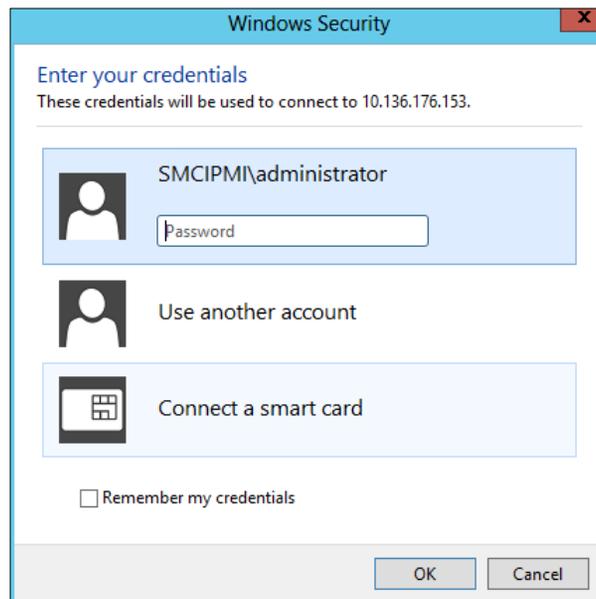


Figure 2-4

3. Click **Operations Console** in the Start menu.

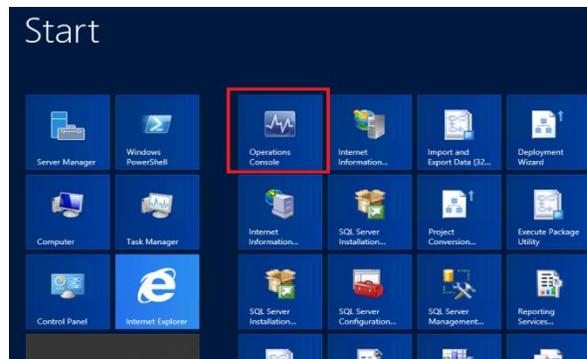


Figure 2-5

4. Click **Monitoring** in the left panel and locate the "Supermicro DCMS" folder to use.

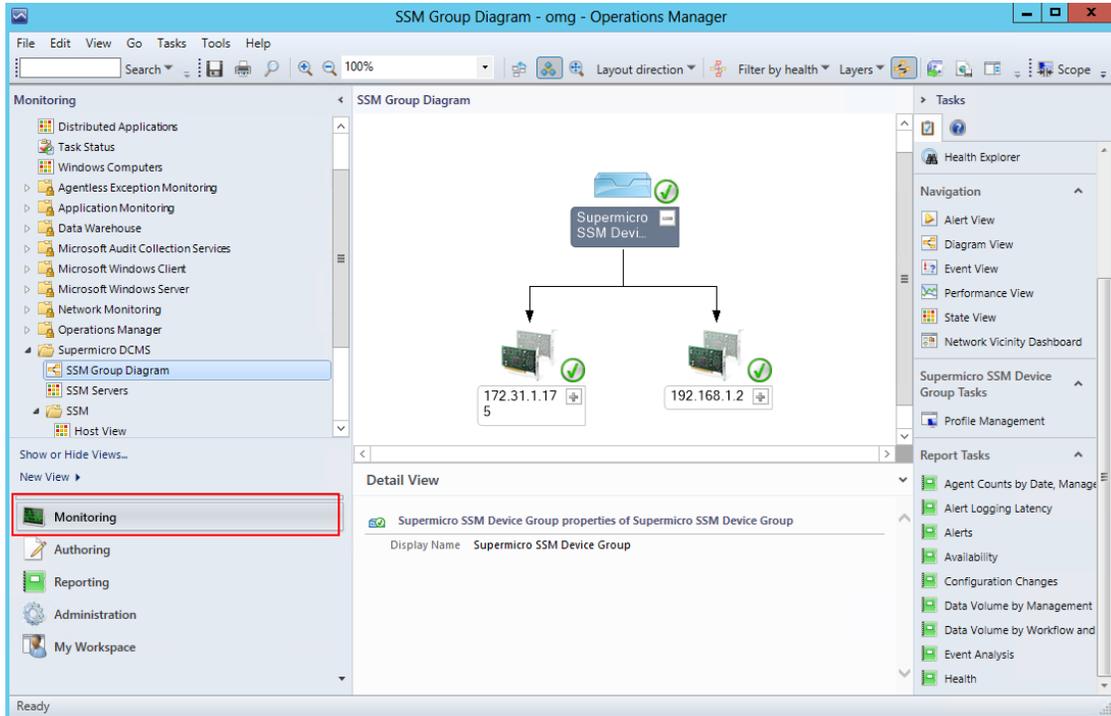


Figure 2-6

3. Settings and Configurations

3.1 Configuring Run as Account

1. Open the SCOM operation console/Administration dashboard.
2. In the left menu, click **Run As Configuration/Profiles**.
3. In the Profiles list, locate the file “Supermicro.Server.DMSAccount” and open its **Properties**.
4. In the Run As Profile Wizard window, click **Run As Accounts**.
5. Click **Add** and add the “local system windows account” to the list.

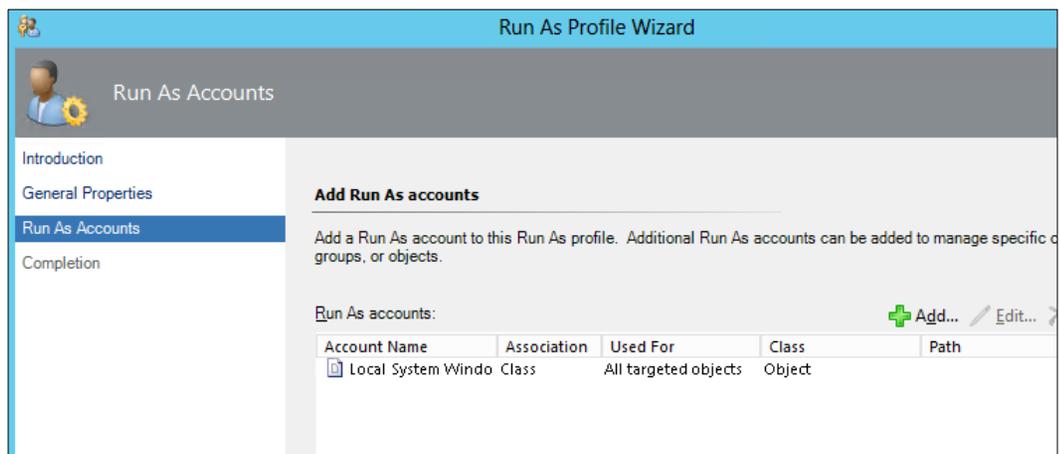


Figure 3-1

6. Click **Save** and then click **Close** to finish.

3.2 Configuring SSM Server List

1. Open the SCOM operation console/Monitoring dashboard.
2. Find the **Supermicro DCMS/SSM Group Diagram**.
3. In the diagram, select **Supermicro SSM Device Group**, and then click **Profile Management**.

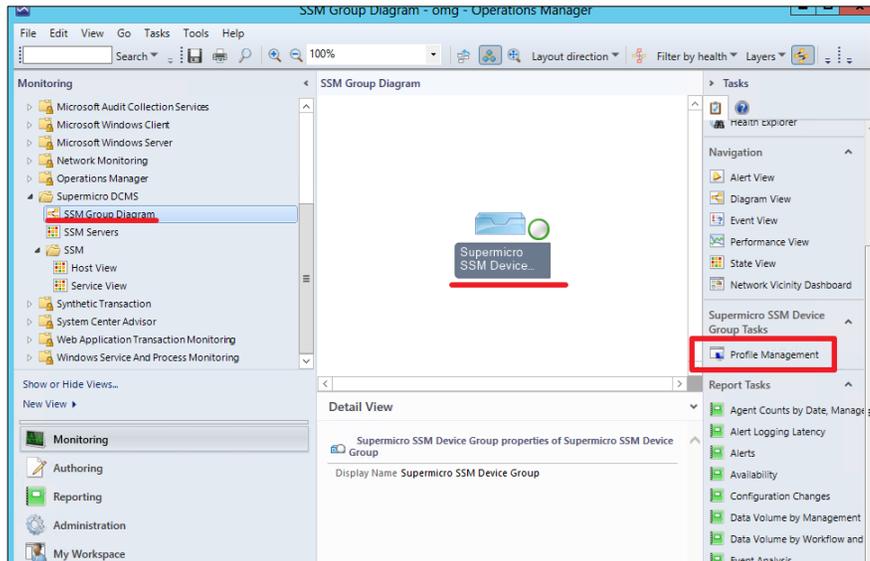


Figure 3-2

4. In the SSM Device Management” dialog box, enter the information and click **Add** to add the SSM Servers to the manage list.

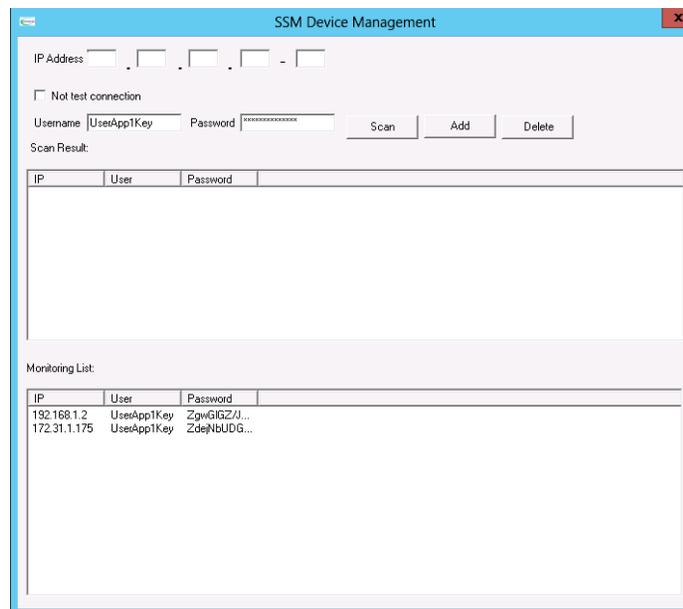


Figure 3-3

5. Wait a few minutes and then refresh the SSM Group Diagram to make sure the SSM Servers have been discovered.

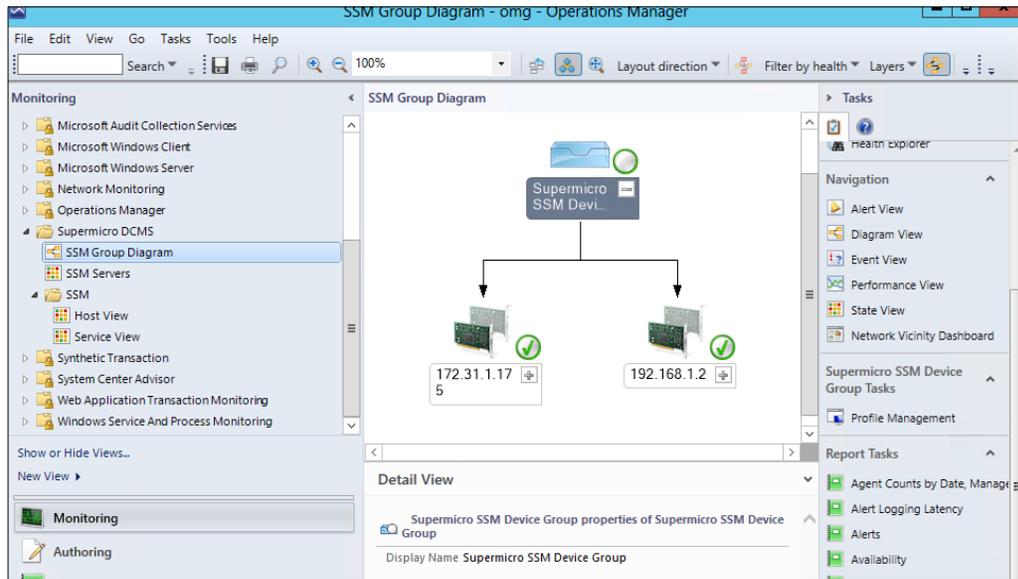


Figure 3-4

4 Software Usage

A Management Plugin for SCOM/SCCM is integrated into the SCOM operation console and allows SCOM to collect the monitoring data from SSM and provide management functions.

4.1 Inventory (Host/Service View)

The Host View lists all managed hosts in a single state view.

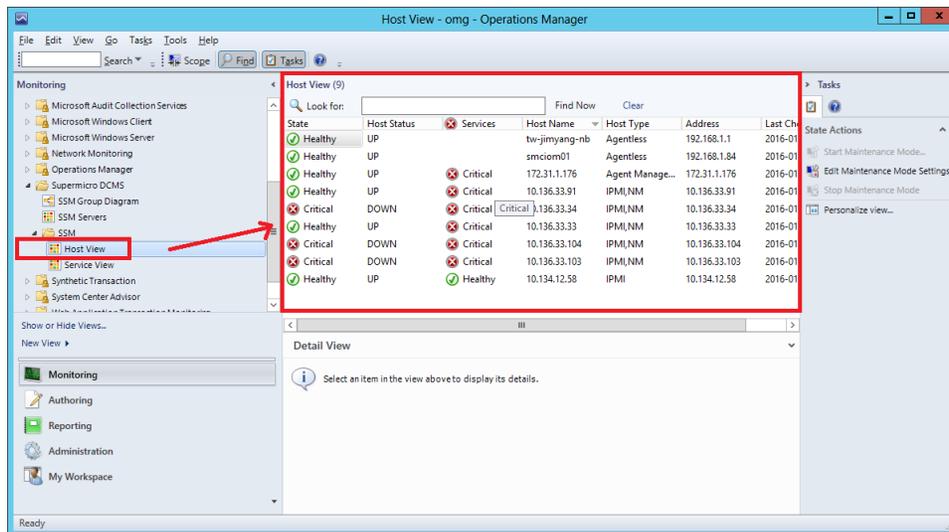


Figure 4-1

The Service View lists all managed hosts in a single state view.

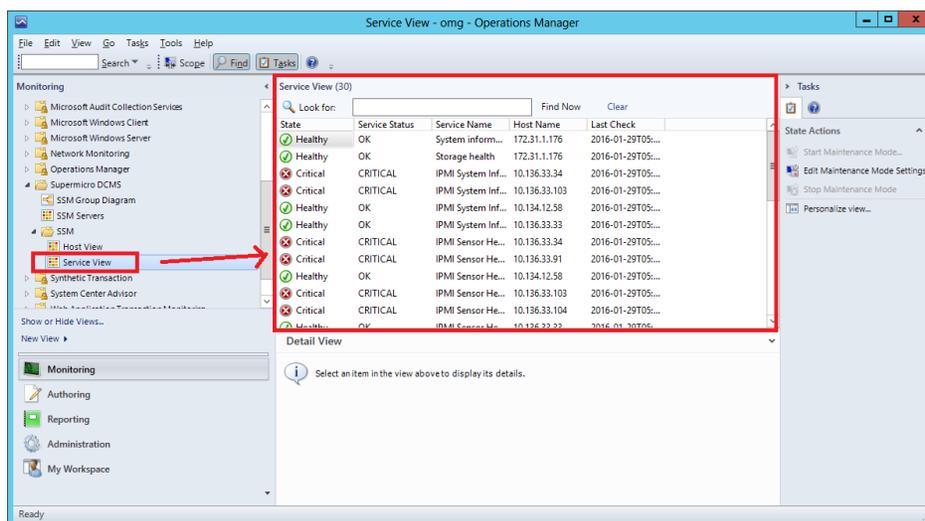


Figure 4-2

4.2 Health (Host/Service Status)

In Host View, the health status of hosts can be monitored.

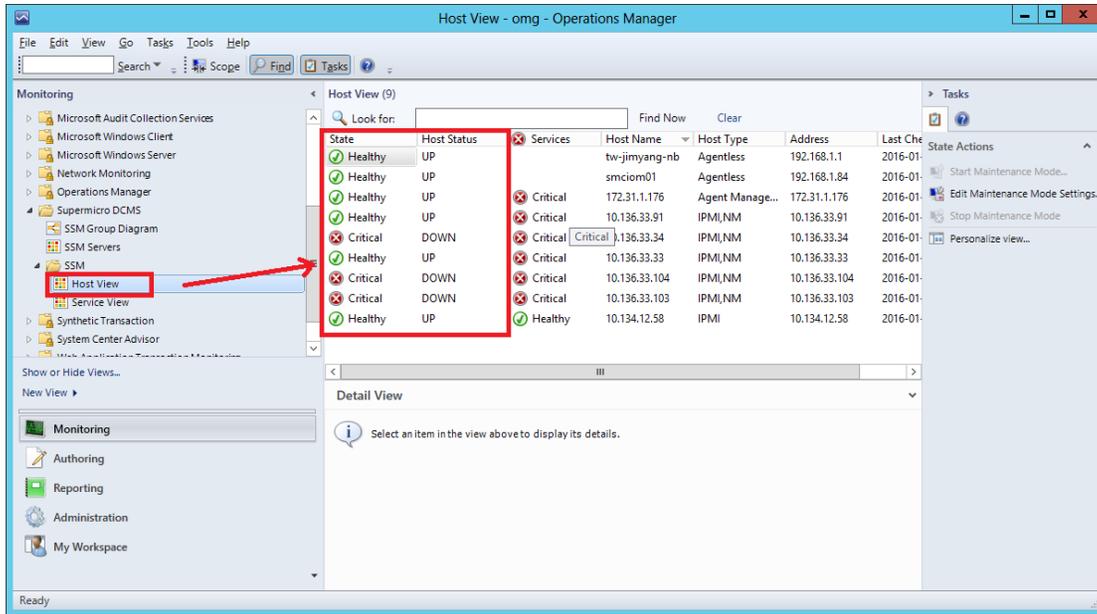


Figure 4-3

In Service View, the health status of the services can be monitored.

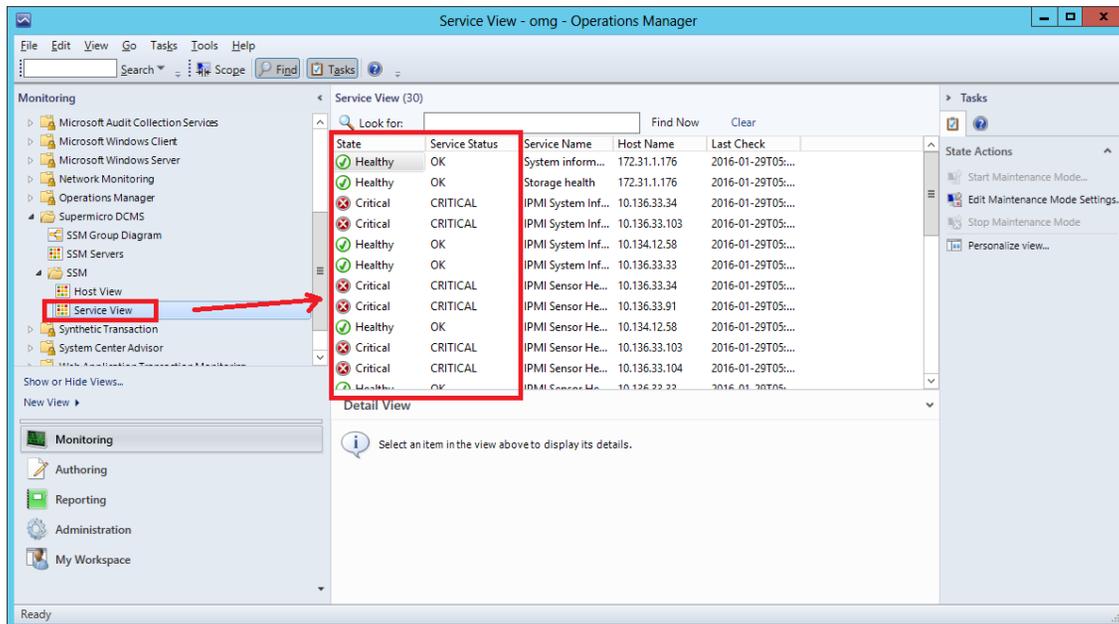


Figure 4-4

4.3 IPMI Ping Info

In Host View, the system ping information is shown in the Status Information.

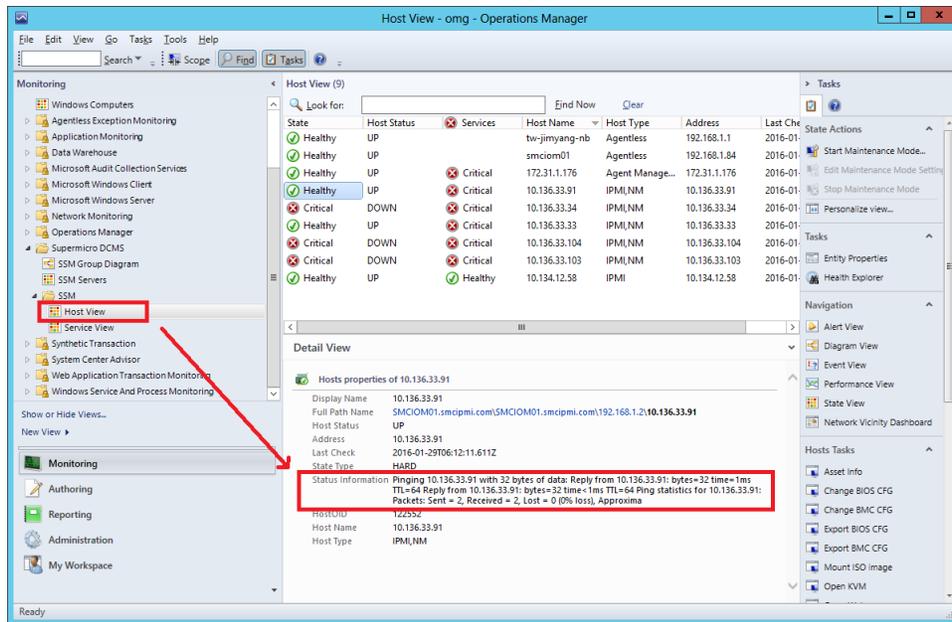


Figure 4-5

4.4 License Info

In the detailed Service View, the license information is shown in the System Information.

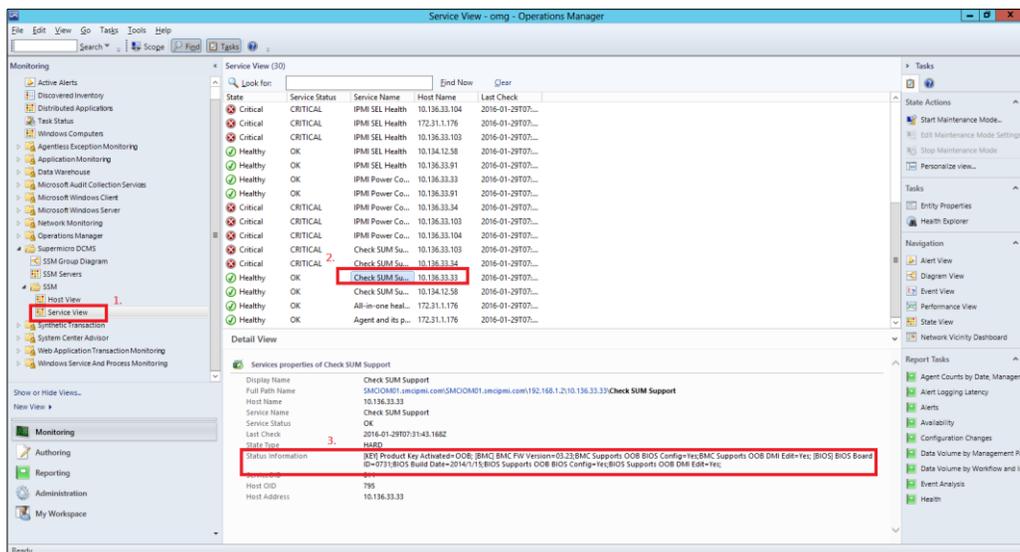


Figure 4-6

4.5 Performance (System Utilization)

In the Host View Tasks menu, select the desired host and click **System Utilization** to get the information.

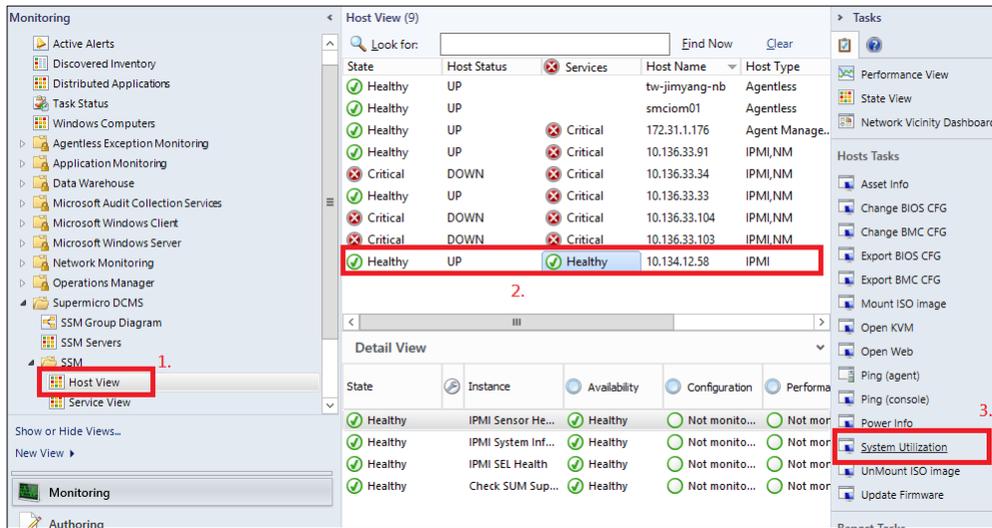


Figure 4-7

The figure shows the result output.

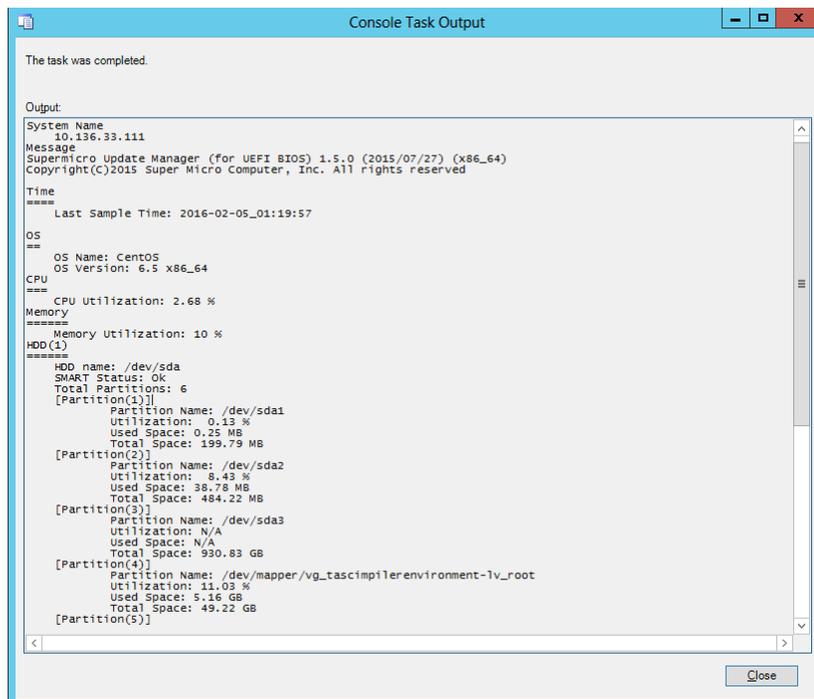


Figure 4-8

4.6 Asset Info

In the Host View Tasks menu, select a host and click **Asset Info** to get the information.

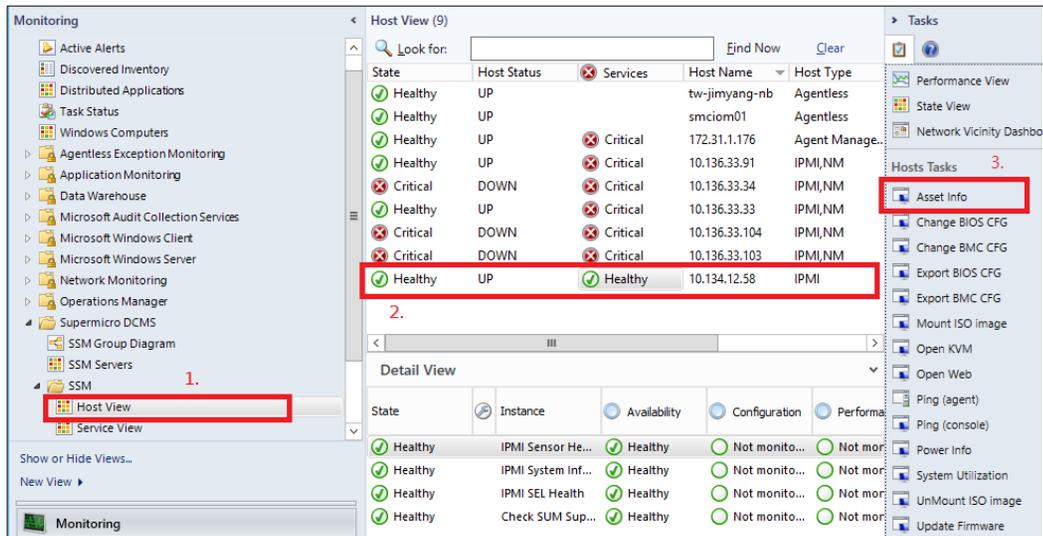


Figure 4-9

The figure shows the result output.

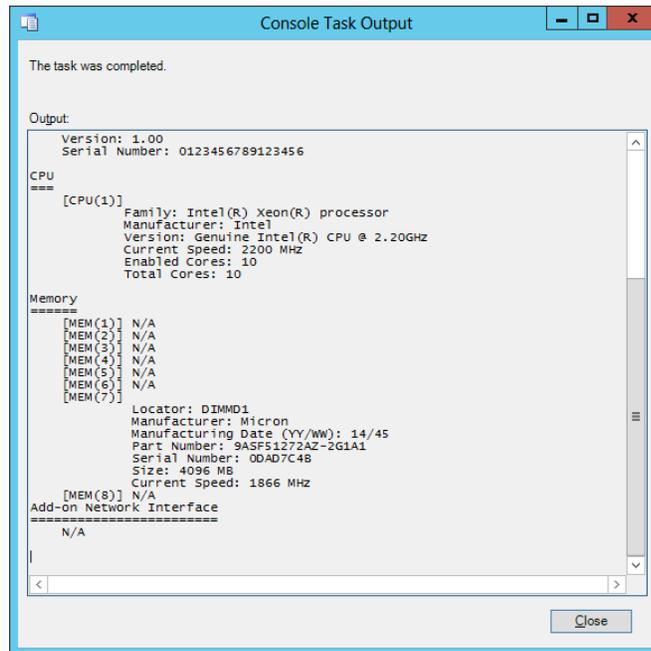


Figure 4-10

4.7 Mounting an ISO Image

In the Host View Tasks menu, select a host and click **Mount ISO Image**.

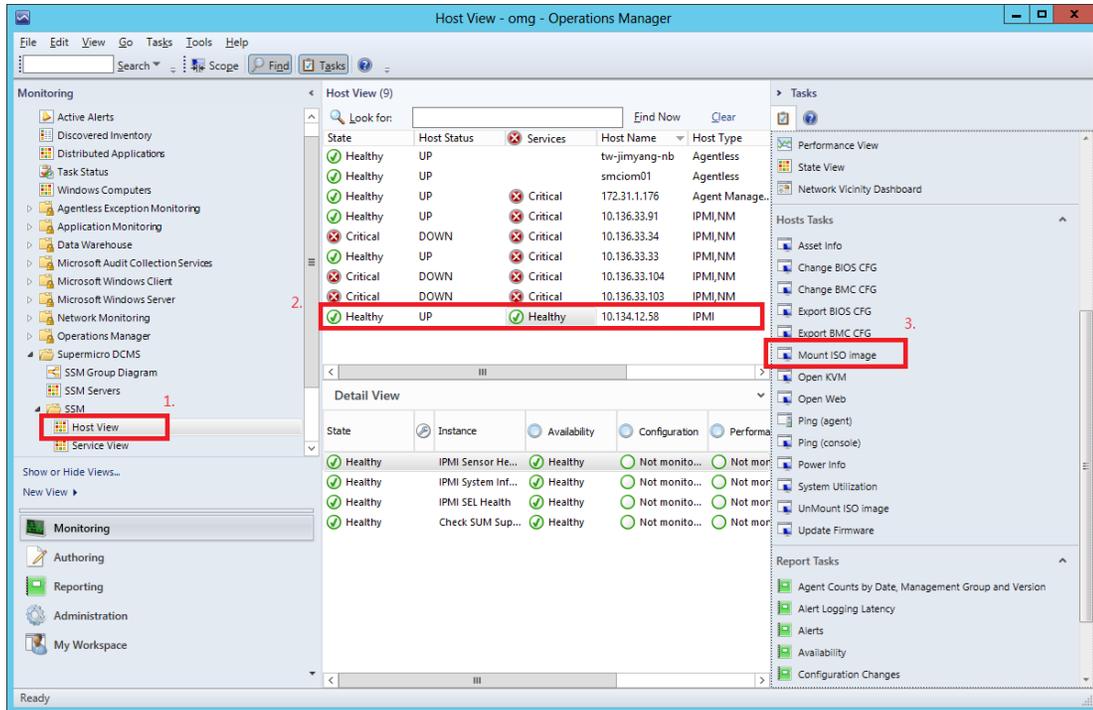


Figure 4-11

Enter the URL of the ISO link and login credential.

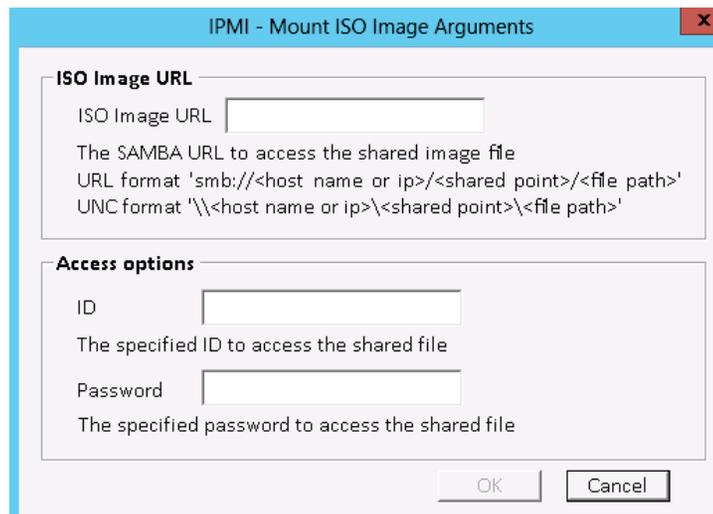


Figure 4-12

The figure shows the result output.

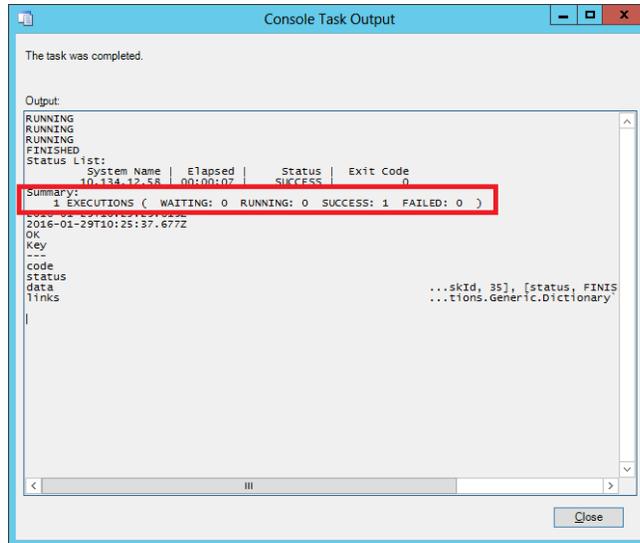


Figure 4-13

4.8 Unmounting an ISO Image

In the Host View Tasks menu, select a desired host and click **Unmount ISO Image** to unmount an ISO image.

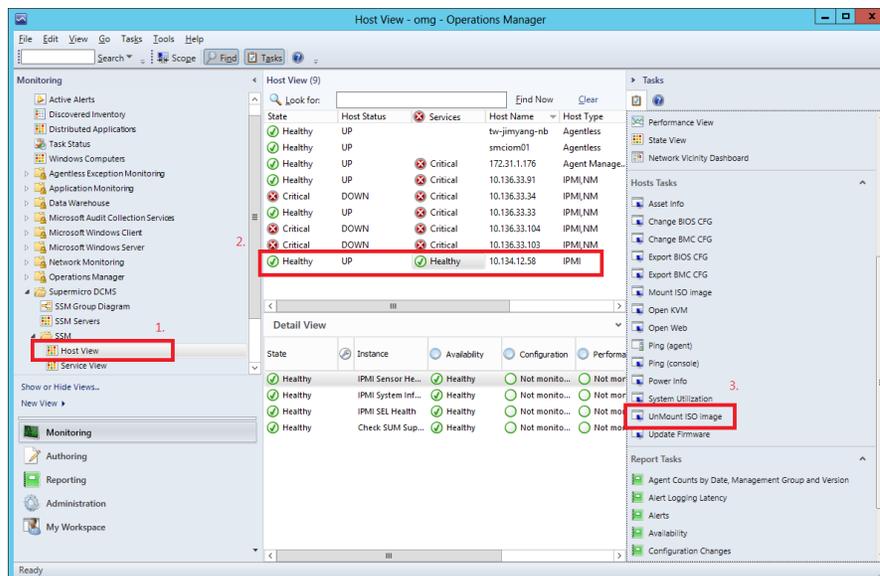


Figure 4-14

The figure shows the result output.

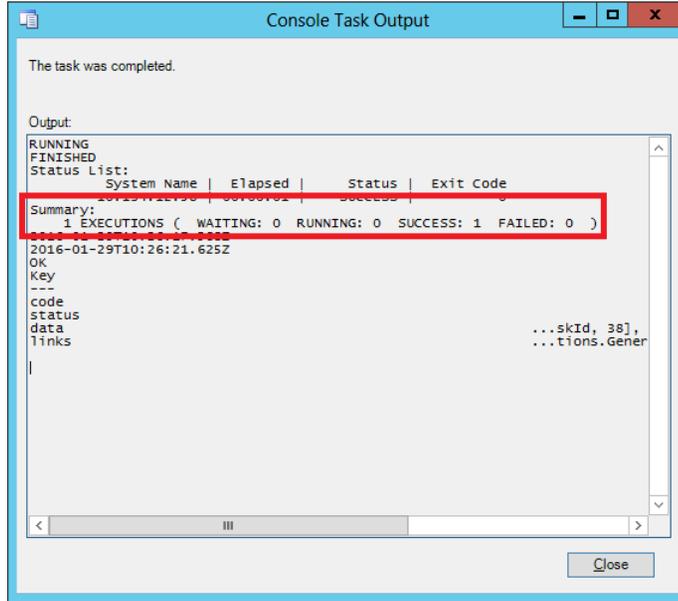


Figure 4-15

4.9 Opening KVM

In the Host View Tasks menu, click **Open KVM** to invoke a KVM console connected to the host.

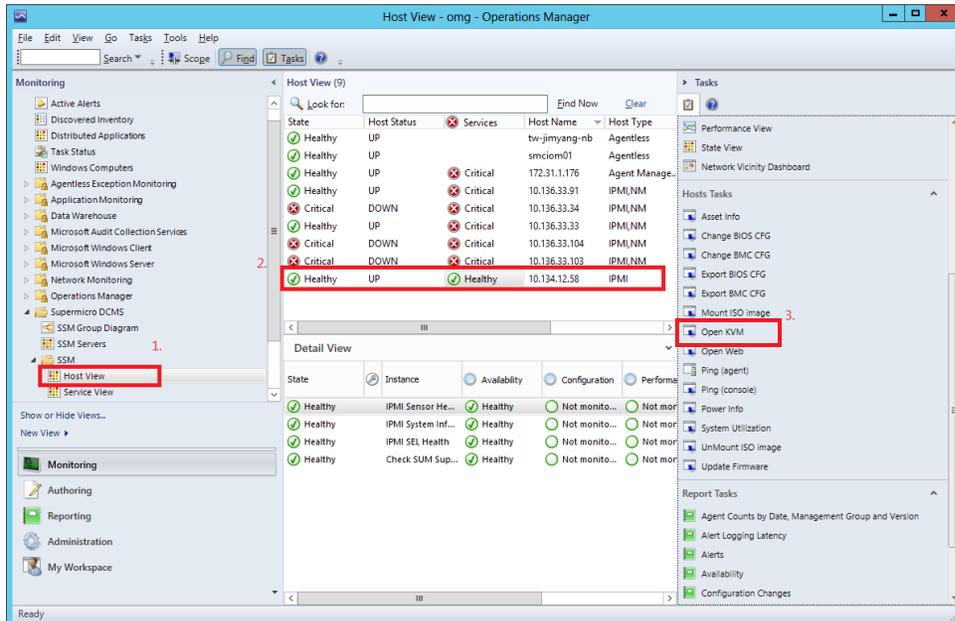


Figure 4-16

Enter the BMC login information.

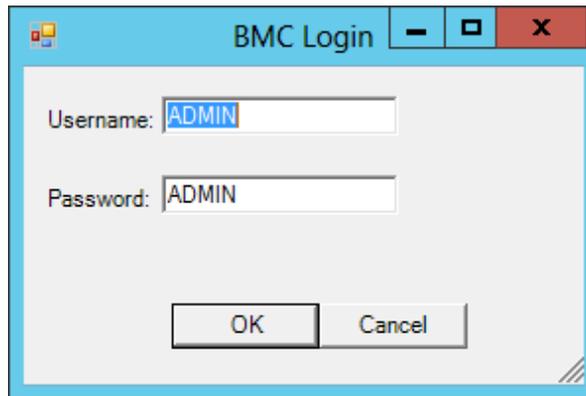


Figure 4-17

The figure shows the result output.

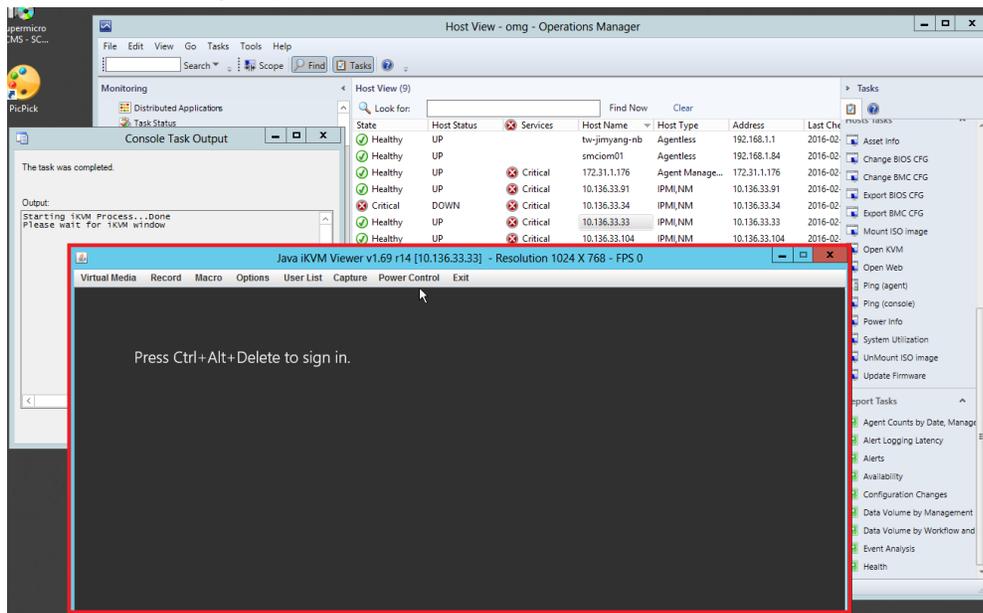


Figure 4-18

4.10 Opening the IPMI WebUI

In the Host View Tasks menu, click **Open Web** to invoke the browser and locate the desired host.

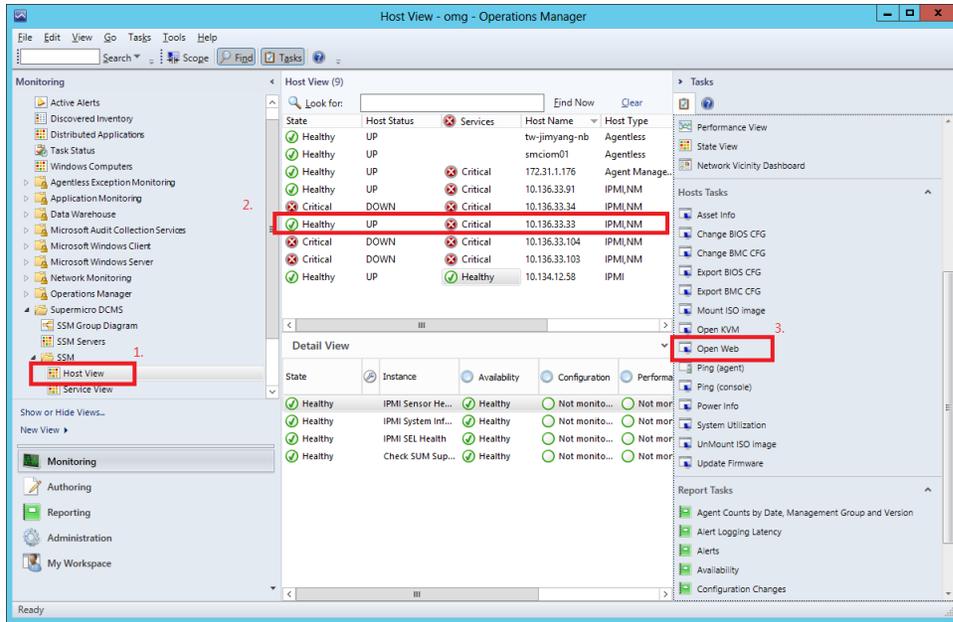


Figure 4-19

The figure shows the result output.

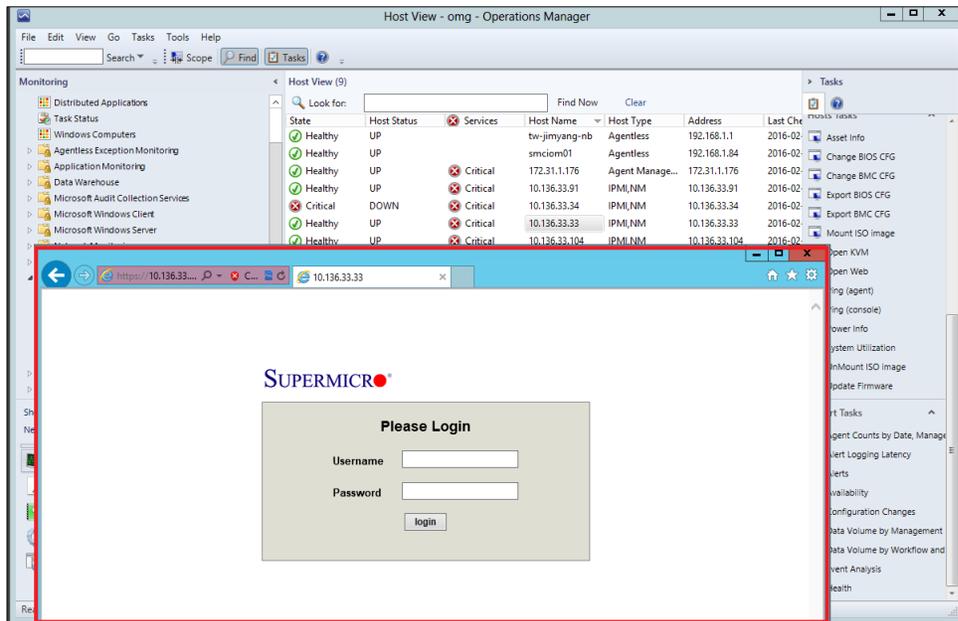


Figure 4-20

4.11 Exporting BIOS/BMC Config

In the Host View Tasks menu, select a desired host and click either **Export BIOS Config** or **Export BMC Config**.

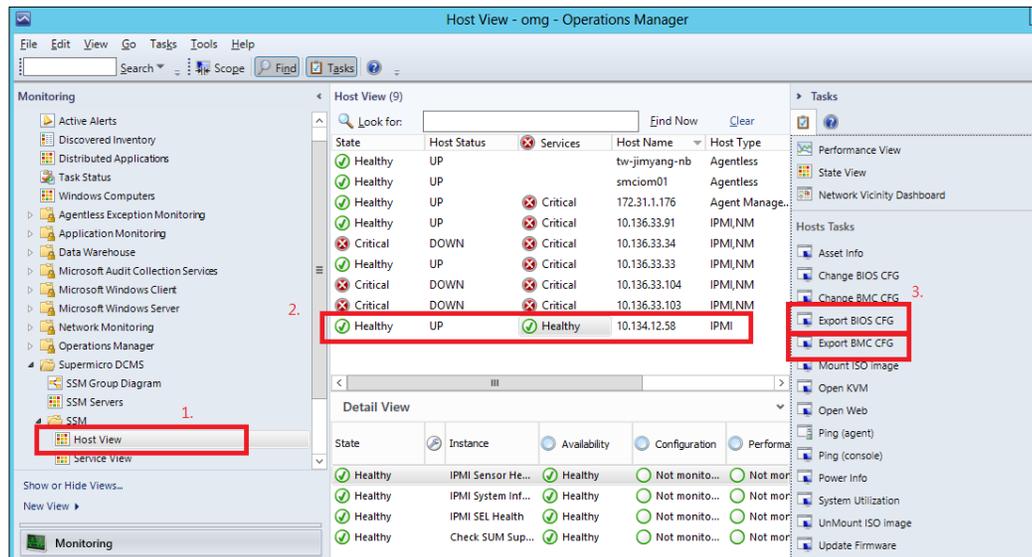


Figure 4-21

Click **Browse** to select a destination path to save the exported configurations.

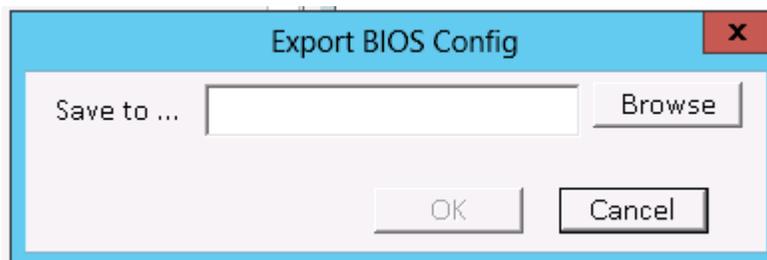


Figure 4-22

The figure shows the result output of exporting BIOS configurations.

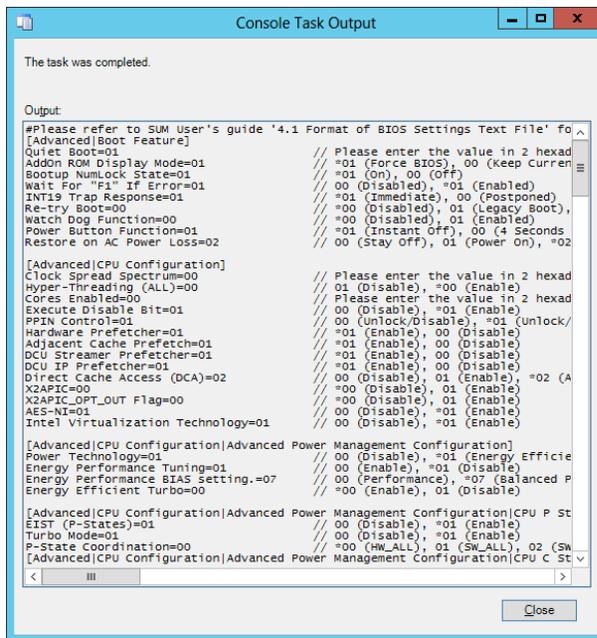


Figure 4-23

The figure shows the result output of exporting BMC configurations.

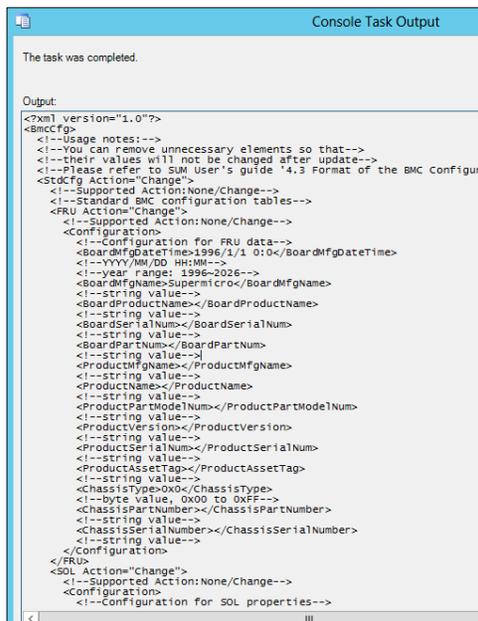


Figure 4-24

4.12 Changing BIOS/BMC Config

In the Host View Tasks menu, select a desired host and click either **Change BIOS Config** or **Change BMC Config**.

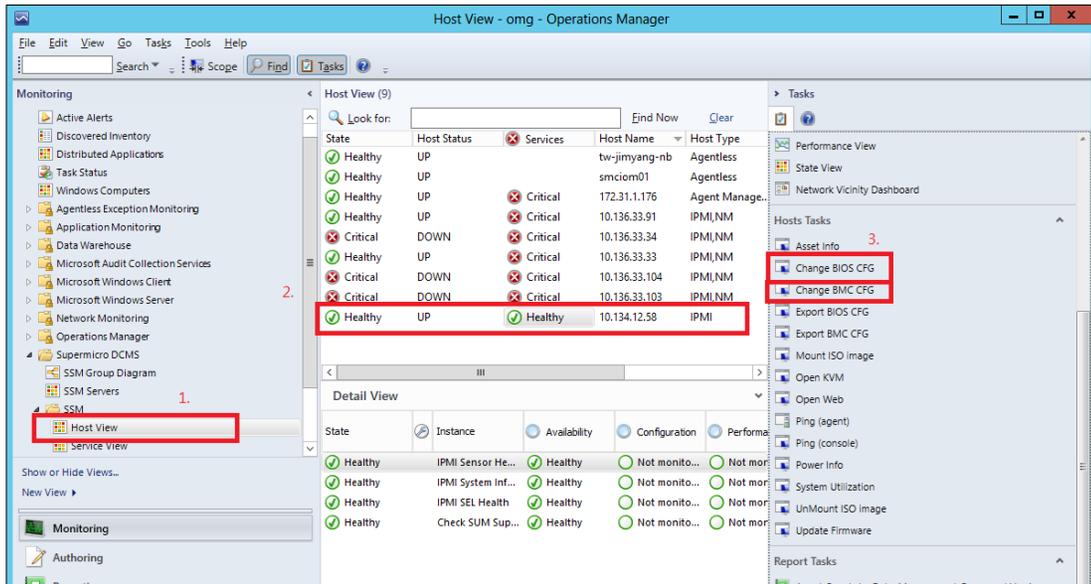


Figure 4-25

The figure shows the result output of using the Change BIOS Config function.

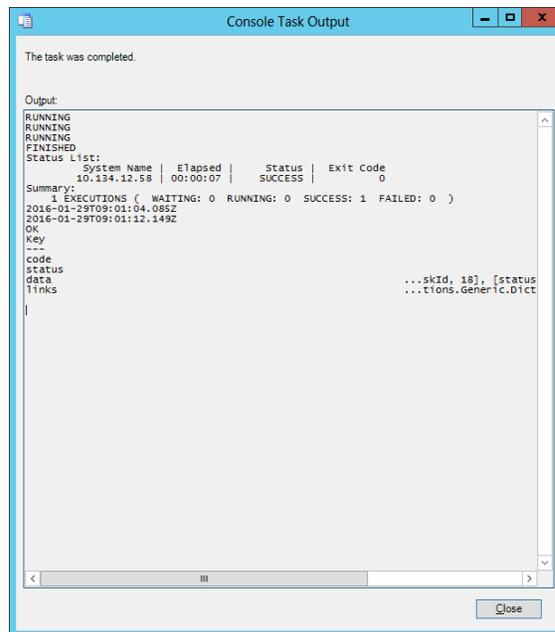


Figure 4-26

The figure shows the result output of using the Change BMC Config function.

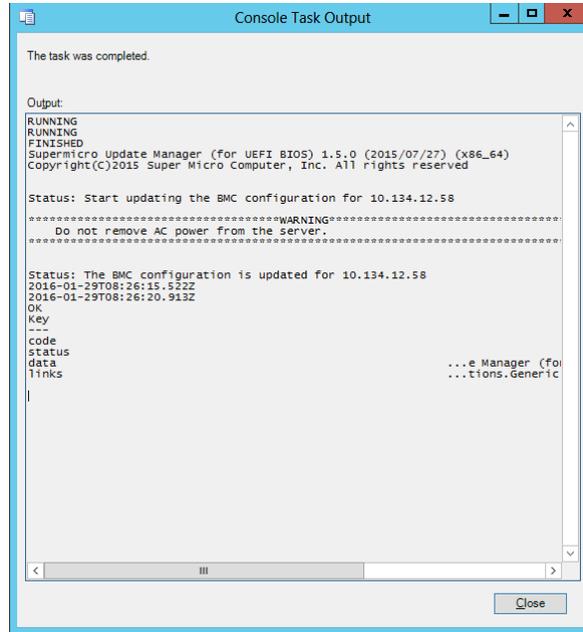


Figure 4-27

4.13 Updating BMC FW

In the Host View Tasks menu, select a desired host and click **Update BMC FW**.

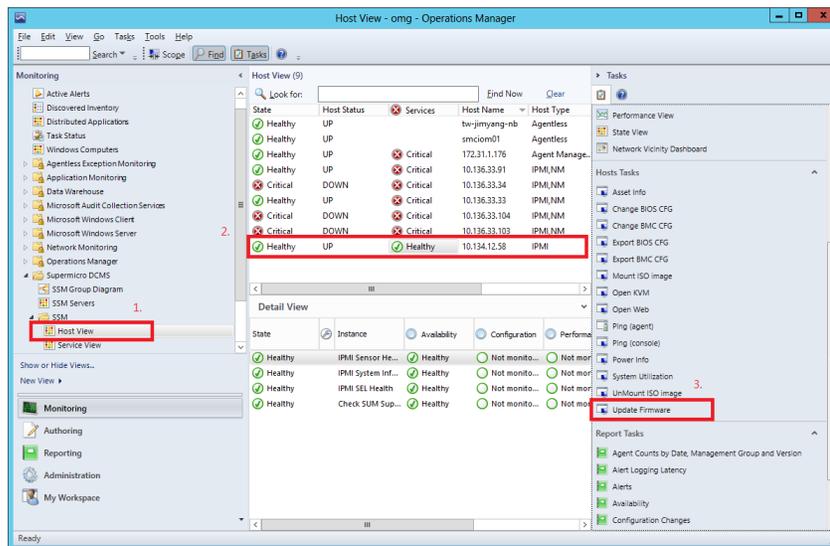


Figure 4-28

Enter the BMC login credential and firmware file location.

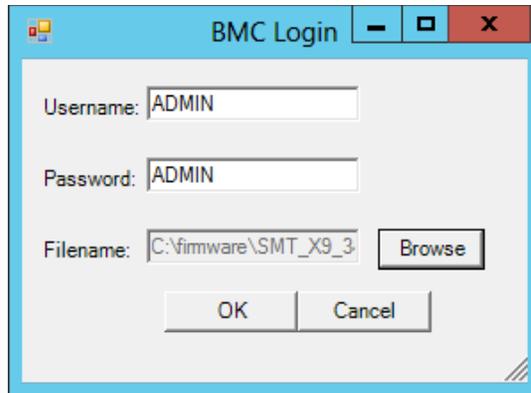


Figure 4-29

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