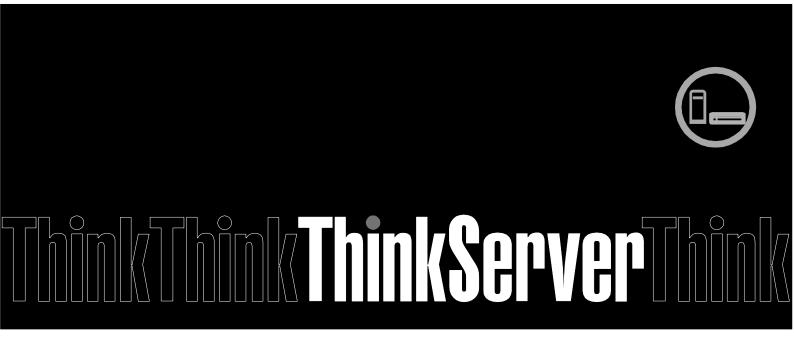


Lenovo ThinkServer Partner Pack for Microsoft System Center Operations Manager User Guide



**Note:** Before using this information and the product it supports, ensure that you read and understand Appendix A "Notices in page32".

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# **1** Introduction

The purpose of this guide is to explain the processes involved in monitoring and managing Lenovo servers through the Lenovo ThinkServer Partner Pack for Microsoft System Center Operations Manager.

## 1.1 System Overview

The Lenovo Partner Pack for Microsoft System Center Operations Manager (SCOM) automatically discovers and provides a detailed system information about the Lenovo ThinkServer managed servers, including component inventory, and component and sensor status. The Partner Pack also enables additional tasks, such as restarting or powering off the ThinkServer and accessing the Remote Desktop Console via RDP and accessing the Lenovo ThinkServer System Manager interface. Implemented as a Management Pack for SCOM, the Partner Pack is integrated into SCOM by using the native Management Pack interface allowing IT administrators to manage ThinkServers by using familiar tools and "one pane of glass" management.

The Lenovo ThinkServer Partner Pack for Microsoft System Center Operations Manager manages the Lenovo ThinkServer with only Intel® Xeon® processor E5-2600 v3 or Intel® Xeon® processor E5-2600 v2 product family and above.

Knowledge on other tools is not necessary to use the Lenovo ThinkServer Partner Pack.

### **1.2 Key Features and Benefits**

The Lenovo ThinkServer Partner Pack for Microsoft System Center Operations Manager provides the following features:

- Power-off and restart through in-band functionality.
- Directly launch the remote console of a selected host (Remote Desktop).
- Launch the Lenovo ThinkServer System Manager web page of the selected host by using the Link and Launch options.
- Launch the Host Console out of band.
- The Lenovo ThinkServer Partner Pack for Microsoft System Center Operations Manager provides:
  - Detailed Server information of the Lenovo ThinkServer at the Host level from the **Hosts** view.
  - Information including the number of Virtual Machines and Operating System version from the **Server Information** view.
  - Inventory of the detailed Server information including Memory, Processors, Server Information. In addition to this, FAN, Temperature Sensor, FRU & PSU information is available out of band.
  - o Details of the System board such Server model, Serial number and UUID.
  - SEL information of each monitored BMC.

### **1.3 User Roles and Responsibilities**

The Lenovo ThinkServer Partner Pack for Microsoft System Center Operations Manager can be accessed through the SCOM console. By using the Lenovo ThinkServer Partner Pack, you can perform various operations based on your roles.

Role	Responsibilities
Administrator	• Runs the setup wizard, installs and exports the package.
	• Deletes and uninstalls the package.
	• Accesses Lenovo ThinkServer partner pack to view various components.
	• Uses the start and stop maintenance mode for the components through the Lenovo ThinkServer partner pack.
	• Restarts, shuts down or remotely connects to the servers through SCOM.
	• Configures Lenovo Hosts by Add/Edit the username and password for each BMC Lenovo ThinkServer System Manager IPv4.
	Launches Lenovo Web Console.
	• Refresh Host Data for the selected server.
	• View, export and clear Extended SEL of each monitored BMC.
Read-only	Launches Lenovo Web Console.
	Views Lenovo ThinkServer Partner Pack for Microsoft System Center Operations Manager
User	Launches Lenovo Web Console.
	Views Lenovo ThinkServer Partner Pack for Microsoft System Center Operations Manager

Table 1: Roles and Responsibilities

## 2 Installing Lenovo ThinkServer Partner Pack

Run the LenovoThinkServerPartnerPack.EXE installation file from the installation package and follow the prompts. This will extract the Lenovo Partner Pack for System Center Operations Manager into the directory you choose during the installation process. The default location is C:\Program Files (x86) \LenovoThinkServerPartnerPack.Later, this package can be imported through the SCOM console. For detailed information please refer to the Installation Guide.

# 3 Working with Lenovo ThinkServer Partner Pack

This section explains the various functionalities of the Lenovo ThinkServer Partner Pack's user interface.

### 3.1 Monitoring Overview Screen

On the left pane, click the Monitoring tab to view the Monitoring Overview screen.

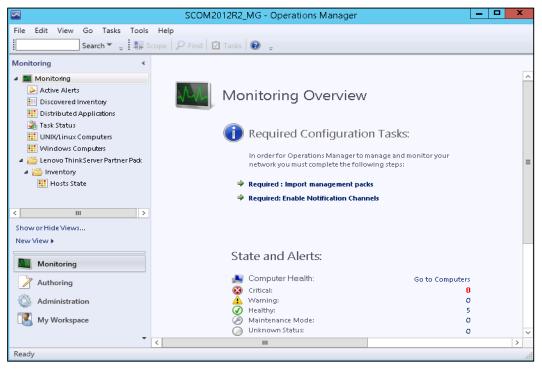


Figure 1: Monitoring Overview Screen

The **Monitoring Overview** screen displays the various sections such as: Required Configuration Tasks, Actions, State and Alerts, Key Concepts, Learn About and Online Resources.

### 3.2 Accessing Hosts State

On the left pane, under the **Monitoring** folder, you can find the **Lenovo ThinkServer Partner Pack** folder once the Lenovo ThinkServer Partner Pack for Microsoft System Center Operations Manager management pack is imported.

The **Inventory** folder is located under the **Lenovo ThinkServer Partner Pack** folder. The **Hosts State** folder is under the **Inventory** folder.

Click Hosts State to open the main screen.

The Main Screen displays **Hosts State**. The Hosts State section contains a list of hosts that are identified. Along with the host name, the path of the Host server and the overall status of each component are also displayed.

Hosts State - SCOM176 - Operations Manager											
File Edit View Go Tasks Tools He	File Edit View Go Tasks Tools Help										
Search 👻 👙 Scope	🔎 Find 😰 Tas	ks 🕡 🝦									
Monitoring <	Hosts State (2)							<ul> <li>Tasks</li> </ul>			
Monitoring	🔄 🔍 Look for:			Find Now C	ear						
Active Alerts			Power	-	Temperature		-				
Discovered Inventory	Name	Path	Supply Unit	🕢 Fan	Sensor	🕑 FRI (	🕢 Processor	Personalize view			
E Distributed Applications	LENOVO148.Te	LENOVO148.TestDomain					Healthy	Tasks	~		
Task Status UNIX/Linux Computers	WIN-3241BQSU	WIN-3241BQSUNPL.Test					Healthy	Entity Properties			
Windows Computers							· ·				
Agentiess Exception Monitoring								( Health Explorer			
🔛 Application View 😑								Navigation	~		
🛄 Crash Listener View								Alert View			
Error Events								S Diagram View			
Error Group View								Prent View			
System Error Group View								Network Vicinity Dashboard			
Application Monitoring     A Data Warehouse								Performance View			
Gale Waterhouse     Gale Lenovo Think Server Partner Park								III State View			
a 🙀 Inventory								State View			
III Hosts State								Host Tasks	~ -		
Microsoft Audit Collection Services								Configure Lenovo Hosts			
Microsoft Windows Client								Crash Screen			
Microsoft Windows Server	, <		111				>	Extended SEL			
	Detail View						*	Launch Lenovo Host Console			
Show or Hide Views	Host prop	erties of LENOVO148.TestDo					~				
New View 🕨								Launch Lenovo Web Console			
	Display Name Full Path Name		I8. TestDomain.com I8. TestDomain.com	n n\LENOVO148.TestE	omain.com						
Monitoring	Host	LENOVO14	8.TestDomain.com					Power On			
Authoring	ThinkServer Syst	em Manager IPV4 192.168.8.	149					Refresh Host Data			
								Restart			
Reporting								Shut down			
Administration								Report Tasks	^		
My Workspace								Agent Counts by Date, Management Group and Versio	n		
							~	Alert Logging Latency			
Ready								ter.	•		

Figure 2: Main Screen Displaying Hosts State

The various components displayed include:

- Power Supply Unit
- Fan
- Temperature Sensor
- FRU
- Processor
- Memory
- System Board
- Server Information

The status displayed for these components are Healthy, Critical and Warning.

Furthermore, on the right of the screen, on the **Task Pane**, the **Host Tasks** section contains the console tasks of Lenovo ThinkServer Partner Pack for Microsoft System Center Operations Manager.

The various Host tasks include:

- Configure Lenovo Hosts
- Crash Screen
- Extended SEL
- Launch Lenovo Host Console
- Launch Lenovo Web Console
- Launch Remote Desktop
- Power On
- Refresh Host Data
- Restart
- Shut down

#### 3.2.1 Hosts State-Detailed View

For each selected Host, along with the Name and Path, the following additional details for the SCOM server are displayed in the **Detail** view as shown in Figure 2:

- Display Name
- Full Path Name
- Host
- ThinkServer System Manager IPV4

### 3.3 Monitoring Detailed Inventory Information

Detailed Inventory information is provided by double clicking the overall status of the following components:

- Power Supply Unit
- Fan
- Temperature Sensor
- FRU
- Processor
- Memory
- System Board
- Server Information

### 3.3.1 Power Supply Unit

To view the overall status of the Power Supply Unit (PSU), select the power supply overall status for the server. In the below image, the RD440.LAB2.com server is selected. Double-click the power supply unit for the overall status of the host server. In this image, the overall status is healthy.

	Hosts St	tate - SCOM2012R2	_MG - Operation	is Manager	_ □	x		
File Edit View Go Tasks Tools Help Search 👻 🚽 🏭 Scope 🔎 Find 💟 Tasks 🔞 📮								
Search * _ : : : : : : : : : : : : : : : : : :	Hosts State (4) Look for: M Name RD340 RD440	LLAB2.com LLAB2.com 2012R2VM.LAB2.com er III	Path RD340.LAB2.com RD440.LAB2.com SCOM2012R2VM.I Vcenter	Find Now       Clear         Power       Supply         Supply       Image: Supply         Image: Supply       Image: Supply	<ul> <li>Healthy @</li> <li>Healthy @</li> <li>Healthy @</li> <li>Healthy @</li> <li>Security</li> <li>Security</li> </ul>	Task Pane		
Ready	<		Ш		>			

Figure 3: Power Supply Unit Status on the Hosts State Screen

State - SCOM176 - Operations Manager	_ <b>_</b> ×
File Edit View Go Tasks Tools Help Search ▼	
State (2) Path PSU1 Power PSU2 Power LENOVO148.TestDomain.com PSU2 Power LENOVO148.TestDomain.com	
Detail View         Power Supply Unit properties of PSU1 Power         Display Name       PSU1 Power         Yull Path Name       PSU1 Power         Description       UpperNonCriticalGoingLow, UpperNonCriticalGoingHigh         Status       Normal         Current Reading       96 Watts	Alert View Diagram View Event View Event View Network Vicinity Dashboard Performance View State View Report Tasks Agent Counts by Date, Management Group Alert Logging Latency

Figure 4: Power Supply Unit Details on the Grantley Hosts State Screen

Double-click the power supply overall status to display the detailed view.

State - SCOM176 - Operations Manager	
File Edit View Go Tasks Tools Help	
Search 👻 📮 🌆 Scope 👂 Find 🔯 Tasks 🔞 📮	
State (1)	<ul> <li>Tasks</li> </ul>
🖉 Name 🔺 Path	
PSU1 Status LENOVO148.TestDomain.com	State Actions
	Start Maintenance Mode Constraints Edit Maintenance Mode Settings Constraints Stop Maintenance Mode Constraints Stop Maintenance Maintenance Mode Constraints Stop Maintenance Mode Constraints Stop Maintenance Mode Constraints Stop Maintenance Maintenance Mode Constraints Stop Maintenance Mode Constraints Stop Maintenance Mode Constraints
Detail View 🗸	Navigation ^
Power Supply Unit properties of PSU1 Status           Display Name         PSU1 Status           Full Path Name         LENOVO148.TestDomain.com\LENOVO148.TestDomain.com\PSU1 Status           Name Of Power Supply PSU1 Status         Description           Description         PowerSupplyPresenceDetected           Status         Normal           Current Reading         32 Watts	<ul> <li>Diagram View</li> <li>Event View</li> <li>Network Vicinity Dashboard</li> <li>Performance View</li> <li>State View</li> <li>Report Tasks</li> <li>Agent Counts by Date, Management Groupsian Alert Logging Latency</li> </ul>
Ready	

Figure 5: Power Supply Unit Details on the IVB Hosts State Screen

In the detail view, the Display name, full path name, name of power supply, description, status and current reading are displayed.

#### 3.3.2 Fan

The Fan view provides details such as Name, Path, Rotational Speed (RPM), Display Name, Full Path Name and Status of the fans used in the servers.

	Ho	osts State -	SCOM2012R2	_MG - Operation	is Manager		_ [	3	x
File Edit View Go Tasks Tools Help									
Search 🔻 🝦 💱 Scope 🔎 Find 📝 Tasks 😰 👙									
Monitoring <	Hosts St	tate (4)							<
4 🧱 Monitoring	🔍 Loo	k for:			Find Now	Clear			
<ul> <li>Active Alerts</li> <li>Discovered Inventory</li> <li>Distributed Applications</li> </ul>	⊘ м	Name		Path	A Power Supply Unit	🕢 Fan	🕢 Memory	Ø	
Task Status		RD340.LAB2.c	om	RD340.LAB2.com	🔔 Warning	🕢 Healthy	🕢 Healthy	Ø	
III UNIX/Linux Computers		RD440.LAB2.c	om	RD440.LAB2.com	🕢 Healthy	🕢 Healthy	🕢 Healthy	Ø	
🔢 Windows Computers		SCOM2012R2	VM.LAB2.com	SCOM2012R2VM.	LA		🕢 Healthy	Ø	
a 🚰 Lenovo ThinkServer Partner Pack		Vcenter		Vcenter			🕢 Healthy	Ø	
4 🚰 Inventory	<		ш					>	
🗰 Hosts State	Detai	l View						~	1
< III >	State	B	Instance	Availability	Configuration	Performance	Security		Task Pane
Show or Hide Views	🕢 Heal	thy	FAN5	🕢 Healthy	🔘 Not monito	🔘 Not monito	. 🔘 Not mo	nito	ē
New View 🕨	🕢 Heal	lthy	FAN1	🕢 Healthy	🔘 Not monito 🔘 Not monit		🔘 Not moni		
	🕢 Healthy		FAN2	🕢 Healthy	🔘 Not monito 🔘 Not moni		o 🔘 Not moni		
Monitoring	🕢 Heal	lthy	FAN3	🕢 Healthy	🔘 Not monito 🔘 Not mo		ionito 🔘 Not moi		
Authoring 🕢 Healthy		Ithy	FAN6	🕢 Healthy	🔘 Not monito	🔘 Not monito	. 🔘 Not mo	nito	
🚳 Administration									
🔣 My Workspace									
•	<							>	
Ready								_	

Figure 6: Fans Status on the Hosts State Screen

	State - SCOM2012R2_MG - Operat	ions Manager	_ <b>D</b> X
File Edit View Go Tasks Tools	Help		
Search 👻 🚊 🌆 So	ope 🔎 Find 🔃 Tasks 🔞 🖕		
State (5)			➤ Tasks
Name	Path		
FAN5	RD440.LAB2.com		
FAN1	RD440.LAB2.com		State Actions
FAN2	RD440.LAB2.com		Start Maintenance Mode
FAN3	RD440.LAB2.com		Edit Maintenance Mode Settings
FAN6	RD440.LAB2.com		Stop Maintenance Mode
FANO	KD440.LAB2.COM		
			Personalize view
Detail View		~	Tasks ^
Detail view		Ť	Entity Properties
Fan properties of FAN5		^	
Display Name	FAN5		A Health Explorer
Full Path Name	RD440.LAB2.com\RD440.LAB2.com\FAN5		Navigation ^
Fan Name	FAN5		Alert View
Rotational Speed (RPM)	5376		
Lower Critical Threshold (RPM) Lower Non-Critical Threshold (RPM)	1984 2496		C Diagram View
Lower Non-Recoverable Threshold (RPM)			te Event View
			Performance View
			State View
			Network Vicinity Dashboard
		$\sim$	Activate Windows
Ready			Go to System in Control Pane

Figure 7: Fans Status—Detailed View

The Fan detail view provides details such as Name, Path, Display Name, Full Path Name, Fan Name, Rotational Speed (RPM), Lower Critical Threshold (RPM), Lower Non-Critical Threshold (RPM) and Lower Non-Recoverable Threshold (RPM).

### **3.3.3 Temperature Sensors**

The Temperature Sensor Detail view displays the Display Name, Full Path Name, Temperature Sensor Name, Current Temperature, Upper Threshold Critical Temperature, Upper Threshold Fatal Temperature, Upper Threshold Non Critical Temperature and status. The server's temperature is displayed in degree Celcius units.

Hosts State - SCOM2012R2_MG - Operations Manager									x		
File Edit View Go Tasks Tools	; Help										
Search 🔻 🝦 🌆 Scope 👂 Find 🖸 Tasks 🔞 🖕											
Monitoring «	Hosts State (4)										۰
4 🧱 Monitoring	🔍 Look for:				Find Now	r Cl	ear				
<ul> <li>Active Alerts</li> <li>Discovered Inventory</li> <li>Distributed Applications</li> </ul>	Name		Path 🔺	Ø	Temperatu Sensor	🕢 Fan			wer oply it	🕢 Men	
Task Status	RD340.LAB2.com		RD340.LAB2.com	Ø	Healthy	🕢 Hea	lthy	🔔 Wa	arning	🕢 Heal	
🔢 UNIX/Linux Computers	RD440.LAB2.com		RD440.LAB2.com	Ø	Healthy	🕢 Hea	ilthy	🕢 He	althy	🕢 Heal	
👥 Windows Computers	SCOM2012R2VM.LAE	B2.com	SCOM2012R2VM.LA							🕢 Heal	
Icenovo ThinkServer Partner Pack	Vcenter		Vcenter							🕢 Heal	
4 🚰 Inventory	<		ш							>	
Hosts State	Detail View									*	Ta
< III >	State 🥟	Instance		0	Availability	0	Configu	ration	🔘 Per	formance	Task Pane
Show or Hide Views	🕢 Healthy	SystemBo	ard 1 PCI Zone2 Temp	Q	) Healthy	0	Not mo	nito	O No	t monito	ē
New View 🕨	🕢 Healthy	SystemBo	ard 1 PCH Temp	Q	) Healthy	0	Not mo	nito	O No	t monito	
	🕢 Healthy	Processor	r 2 CPU2 Temp 🕢 Healthy			🔘 Not monito 🔘 N			O No	t monito	
Monitoring	🕢 Healthy	Processor	1 CPU1 Temp	Ø	) Healthy	0	Not mo	nito	🔘 No	t monito	
Authoring	🕢 Healthy	SystemBo	ard 1 PSU Inlet Temp	Q	) Healthy	0	Not mo	nito	🔘 No	t monito	
· · · · · · · · · · · · · · · · · · ·	🕢 Healthy	SystemBo	ard 1 DIMM Zone1 Temp	J	) Healthy	0	Not mo	nito	🔘 No	t monito	
Administration	🕢 Healthy	SystemBo	ard 1 Inlet Amb Temp	Ø	) Healthy	0	Not mo	nito	🔘 No	t monito	
My Workspace											
•	<		ш							>	
Ready											

Figure 8: Temperature Sensor Status on the Hosts State Screen

	State - SCOM2012R2_MG - Operations Manager		_ <b>_</b> ×
File Edit View Go Tasks Tools Help			
:Search + ⇒ i alle scope   p			
State (5)			<ul> <li>Tasks</li> </ul>
Name	Path		
Processor 1 CPU1 Temp	RD440.LAB2.com		State Actions
SystemBoard 1 PCH Temp	RD440.LAB2.com		
SystemBoard 1 DIMM Zone1 Temp	RD440.LAB2.com		🛒 Start Maintenance Mode
SystemBoard 1 Inlet Amb Temp	RD440.LAB2.com		Edit Maintenance Mode Settings
SystemBoard 1 PSU Inlet Temp	RD440.LAB2.com		Note Maintenance Mode
			Personalize view
Detail View		~	Tasks
Temperature Sensor properties of Processor	I CPU1 Temp	^	Entity Properties
Display Name Full Path Name Temperature Sensor Name Current Temperature (Degree C)	Processor 1 CPU1 Temp RD440_LA82.com\RD440_LA82.com\Processor 1 CPU1 Temp Processor 1 CPU1 Temp 30		Navigation Alert View
Upper Threshold Critical Temperature (Degree C)	N/A		🗲 Diagram View
Upper Threshold Fatal Temperature (Degree C)	N/A		Event View
Upper Threshold Non-Critical Temperature (Degree	C) N/A		Performance View
			State View
		~	Network Vicinity Dashboard
			Activate Windows
Ready			Go to System in Control Pa

Figure 9: Temperature Sensor Status—Detailed View

Note: The CPU DTS Margin reading is not an absolute temperature value in Celsius or Fahrenheit, but actually an offset from the maximum CPU junction temperature. In other words, CPU DTS Margin is the distance from the maximum operating temperature of the CPU.

### 3.3.4 FRU

The Field Replaceable Unit (FRU) Detail view displays the Display name, Full Path Name, Chassis Type, Chassis Part Number, Chassis Serial Number, Custom Chassis Info, Board Manufacturing Data, Board Manufacturer, Board Product Name, Board Serial Number, Board Part Number, Product Manufacturer Name, Product Name, Product Model Number, Product Version, and Product Serial Number.

	Hosts State - SCOM2	012R2_MG - Operati	ions Manager		x
	Help Scope 👂 Find 🖸 Tasks 🕡	Ŧ			
Search     Image:	Coope     Find     Tasks       Hosts State (4)       Look for:       Name       RD340.LAB2.com       RD440.LAB2.com       SCOM2012R2VM.LAB2.com       Vcenter       Control       Detail View       State       Ø       Healthy       FRU Info	RD340.LAB2.com RD440.LAB2.com SCOM2012R2VM.LA Vcenter III Availability		<ul> <li>✓ Fan</li> <li>▲ Suppl Unit</li> <li>✓ Healthy</li> <li>▲ Warn</li> <li>✓ Healthy</li> <li>✓ Healthy</li> <li>✓ Healthy</li> <li>✓ Fan</li> <li>✓ Fan</li> <li>✓ Security</li> <li>Not monito</li> </ul>	↓ Task Pane
🔣 My Workspace	<			>	
Ready					

Figure 10: FRU Status on the Hosts State Screen

	State - SCOM2012R2_MG - Operations Manager		_ <b>□</b> X
<u>File Edit View Go</u> Ta:	s <u>k</u> s Iools <u>H</u> elp		
i Search V	↓ ↓ Scope ♀ Find 1 Tasks @ ↓		
: <u>Search</u>			
State (1)		>	Tasks
Name	Path	Ż	0
ERU Information of RD44	DJ AB2.com BD440.J AB2.com		<b>W</b>
	1.EAD2.COM	Sta	te Actions
			Start Maintenance Mode
Detail View		1	Edit Maintenance Mode Settings
		. <b>1</b> 6	Stop Maintenance Mode
FRU properties of FRU	Information of RD440.LAB2.com		Personalize view
Display Name	FRU Information of RD440.LAB2.com		Personalize view
Full Path Name	RD440.LAB2.com\RD440.LAB2.com\FRU Information of RD440.LAB2.com	Tas	the A
Chassis Type	RackMountChassis	103	KS P
Chassis Part Number	Not Available		Entity Properties
Chassis Serial Number	To Be Filled By O.E.M.	G	Health Explorer
Custom Chassis Info	Not Available	1	
Board Manufacturing Date		Na	vigation ^
Board Manufacturer	Lenovo		
Board Product Name	Reno/Raleigh		Alert View
Board Serial Number Board Part Number	To be filled by O.E.M. Not Available	-	Diagram View
Product Manufacturer Name		1.2	Event View
Product Name	Lenovo ThinkServer RD330		
Product Model Number	Not Available		Performance View
Product Version	FFFFFF		State View
Product Serial Number	1234567	20	Network Vicinity Dashboard
		03	Hearding Dashooard
		1	
Ready			

Figure 11: FRU-Detailed View

#### 3.3.5 Processors

The processor detail view displays the Display Name, Full Path Name, Processor Manufacturer, Model Name, Speed (MHz), Socket Number, Number of Logical Processors, Number of Cores, L2 Cache Size(KB), L3 Cache Sixe(KB) and Status.

	Hosts State - SC	OM2012R2_	MG - Operati	ons Manager			x
File Edit View Go Tasks Tools	Help					_	
Search 👻 📮 🌆 S	Scope 🔎 Find 🚺 Tasks	s 🕡 📮					
Monitoring <	Hosts State (4)						<
4 🧱 Monitoring	🔍 Look for:			Find Now Clea	r		
Active Alerts Discovered Inventory Distributed Applications	Name	Path	*	🕢 Processor 🕢 Memo	y 🥑 Temperatu 🚱	🕖 Fan	
<ul> <li>Distributed Applications</li> <li>Task Status</li> <li>UNIX/Linux Computers</li> <li>Windows Computers</li> </ul>	RD340.LAB2.com RD440.LAB2.com SCOM2012R2VM.LAB2.co	RD440	LAB2.com LAB2.com 2012R2VM.LA	<ul> <li>Healthy</li> <li>Healthy</li> <li>Healthy</li> <li>Healthy</li> <li>Healthy</li> <li>Healthy</li> <li>Healthy</li> </ul>	y 🕜 Healthy (	🕑 Healthy 🕑 Healthy	
Vindows computers A Computers Lenovo ThinkServer Partner Pack	Vcenter	Vcente	r	Healthy Health			
4 🚰 Inventory	<	Ш				>	
iii Hosts State	Detail View					~	Ta
< III >	State 🖉 Ins	stance	🔘 Availability	Configuration	Performance 🔘 S	ecurity	Task Pane
Show or Hide Views	🕢 Healthy Ge	enuineIntel	🕢 Healthy	🔿 Not monito 🔾	Not monito 🔘 N	lot monito	le
New View 🕨		enuineIntel	🕢 Healthy	🔘 Not monito 🔘	Not monito 🔘 N	lot monito	
Monitoring							
Authoring							
🚳 Administration							
My Workspace							
•	<		Ш			>	
Ready							

Figure 12: Processor Status on the Hosts State Screen

	State - SCOM2012R2_MG - Operations Mana	ager	_ 🗆 X
File Edit View Go Ta:	sks Tools Help		
Search T	🖕 🌆 Scope 👂 Find 🗹 Tasks 🔞 📮		
State (2)			<ul> <li>Tasks</li> </ul>
🖉 Name	Path		
GenuineIntel	RD340.LAB2.com		
GenuineIntel	RD340.LAB2.com		State Actions
			💕 Start Maintenance Mode
			Edit Maintenance Mode Settings
			Stop Maintenance Mode
			Personalize view
			Tasks ^
Detail View		~	
			Entity Properties
Processor properties o	of GenuineIntel		🙀 Health Explorer
Display Name	GenuineIntel		
Full Path Name	RD340.LAB2.com\RD340.LAB2.com\GenuineIntel		Navigation ^
Processor Manufacturer Model Name	GenuineIntel Genuine Intel(R) CPU @ 1.60GHz		Alert View
Speed (GHz)	1.6		Ciagram View
Socket Number	CPU 2		Event View
Number of Logical Processo	rs 16		
Number of Cores	8		Performance View
L2 Cache Size (KB)	2048		State View
L3 Cache Size (KB)	4096		Network Vicinity Dashboard
		$\sim$	Activate Windows
Ready			
neady			Go to System in Control Pane

Figure 13: Processor Status-Detailed View

### **3.3.6 Memory**

The Memory detail view displays details such as Display Name, Full Path Name, Manufacturer of each DIMM, Type of each DIMM, Location of each DIMM, Capacity of each DIMM (MB), Serial Number for each DIMM, Part Number of each DIMM and Status.

	Hosts State - SCOM2	012R2_MG - Operations Manager		x
File Edit View Go Tasks Tools	Help Scope 🔎 Find 🗹 Tasks 🔞	÷		
Search *     Image:	Hosts State (4) Look for: Name RD340.LAB2.com RD440.LAB2.com SCOM2012R2VM.LAB2.com Vcenter C Detail View State Ø Healthy DIMMB1 Ø Healthy DIMME Ø Healthy Ø Healthy DIMME Ø Healthy Ø He	Find Now       Clear         Path       Image: Processor       Image: Memory       Image: Temperatule Sensor         RD340.LAB2.com       Image: Healthy       Image: Healthy       Image: Healthy       Image: Healthy       Image: Healthy         RD440.LAB2.com       Image: Healthy       Image: Healthy       Image: Healthy       Image: Healthy       Image: Healthy         SCOM2012R2VM.LA       Image: Healthy       Image: Healthy       Image: Healthy       Image: Healthy       Image: Healthy         Vcenter       Image: Healthy       Image: Healthy       Image: Healthy       Image: Healthy       Image: Healthy       Image: Healthy         Image: Healthy       Image: Healthy       Image: Healthy       Image: Healthy       Image: Healthy       Image: Healthy       Image: Healthy         Image: Healthy       Image: Not monito       Image: Not monito	<ul> <li>Fan</li> <li>Health</li> <li>Health</li> <li>Health</li> <li>Security</li> <li>Not monito</li> <li>Not monito</li> <li>Not monito</li> <li>Not monito</li> </ul>	▼ Task Pane
Ready	<	ш	>	

Figure 14: Memory Status on the Hosts State Screen

	State - SCOM2012R2_MG - Operations Manager	_ <b>D</b> X
File Edit View Go Tasks Tools Help		
Search 👻 🝦 🌆 Scope 👂 Find	I Tasks 😧 🚽	
State (4)		<ul> <li>Tasks</li> </ul>
Name     CPU1 DIMMB1     CPU1 DIMMA1     CPU1 DIMM82     CPU1 DIMM82	Path RD440LAB2.com RD440LAB2.com RD440LAB2.com RD440LAB2.com	State Actions        State Actions        Start Maintenance Mode        Edit Maintenance Mode Settings        Stop Maintenance Mode        Image: Personalize view
Detail View           Image: Memory properties of CPU1 DIMMB1	• •	Tasks  Tasks
Display Name CPU1 DIMMB1 Full Path Name RD440.LA82.com/RD440.L Manufacturer of each DIMM Samsung Type of each DIMM DDR3 Location of each DIMM (VMB) 4096 Serial Number for each DIMM 223D8D67 Part Number for each DIMM M39385270DH0-YK0	AB2.com\CPU1 DIMMB1	Navigation  Alert View  Diagram View  Event View  Performance View  State View  Network Vicinity Dashboard  Activate Windows
Ready		Go to System in Control Pane

Figure 15 Memory Status-Detailed View

### 3.3.7 System Board

The System Board detail view displays the Display Name, Full Path Name, System Board Manufacturer, Server Model, Serial Number and UUID.

File Edit View Go Tasks Tools	Hosts State - SCOM2 Help	2012R2_MG - Operat	ions Manager		x
Search 👻 📮 🌆 S	Scope 🔎 Find 🖸 Tasks 🔞	÷			
Monitoring <	Hosts State (4)		Find Now Clear		<
Active Alerts     Discovered Inventory     Distributed Applications	Name	Path 🔺	System Board OProcessor		
Distributed Applications     Task Status     UNIX/Linux Computers     Windows Computers     Cenovo Think Server Partner Pade	RD340.LAB2.com RD440.LAB2.com SCOM2012R2VM.LAB2.com Vcenter	RD340.LAB2.com RD440.LAB2.com SCOM2012R2VM.LA Vcenter	<ul> <li>Healthy</li> </ul>	<ul> <li>Healthy</li> <li>Healthy</li> <li>Healthy</li> <li>Healthy</li> <li>Healthy</li> <li>Healthy</li> <li>Healthy</li> </ul>	
<ul> <li>Inventory</li> <li>Hosts State</li> </ul>	< Detail View	III		>	Tas
< III >	State 🖉 Instance	e 🔘 Availab	ility 🔘 Configuration 🔘 F	Performance 🔘 Security	Task Pane
Show or Hide Views New View 🕨	Healthy ThinkSe	rver RD340 🕜 Health	y 🔷 Not monito 🔿 I	Not monito 🚫 Not mo	ē
Monitoring					
Authoring					
Administration					
My Workspace					
Ready	<			>	

Figure 16: System Board Status on the Hosts State Screen

State - SCOM2012R2_MG - Operations Manager		_ <b>D</b> X
Eile <u>E</u> dit <u>V</u> iew <u>G</u> o Tas <u>k</u> s Iools <u>H</u> elp Search ▼ <sub>↓</sub> : I k Scope P Find <b>I Tasks 2</b> ↓		
State (1)       Image: Stat		
Detail View       System Board properties of ThinkServer RD440       Display Name     ThinkServer RD440	*	Navigation  Alert View C Diagram View C Event View Performance View C State View
Full Path Name     RD440.LAB2.com\RD440.LAB2.com\ThinkServer RD440       System Board Manufacturer     LENOVO       Server Model     ThinkServer RD440       Serial Number     Not Available       UUID     2020202-2020-2020-2020-2020202020	~	Network Vicinity Dashboard   Tasks   Tasks   Entity Properties   Health Explorer
Ready		h.

Figure 17: System Board Status-Detailed View

### 3.3.8 Server Information

The Server Information detail view displays the Display Name, Full Path Name, OS Version, Number of VMs, BIOS Version, Number of Threads, Number of Processors and Number of Cores.

	Hosts State - S	COM2012R2_	MG - Operati	ons N	lanager		_		x
File Edit View Go Tasks Tools	·								
Search 👻 👙 🖬 S	cope 👂 Find 🚺 Tas	sks 🕡 🍦							
Monitoring «	Hosts State (4)								۲.
4 🧱 Monitoring	🔍 Look for:				Find Now	Clear			
<ul> <li>Active Alerts</li> <li>Discovered Inventory</li> <li>Distributed Applications</li> </ul>	Name	Path			rver formation	System Board	🕢 Processor	🕢 Me	
📓 Task Status	RD340.LAB2.com		LAB2.com	<u> </u>		) Healthy	🕢 Healthy	🕢 He	
🛄 UNIX/Linux Computers	RD440.LAB2.com		LAB2.com	-		Healthy			
iii Windows Computers	SCOM2012R2VM.LAB2.	com SCOM. Vcente	2012R2VM.LA	~		) Healthy Healthy			
Icentry Control Con	<		r	<b>V</b> ¬	ealthy 😡		Meaniny		
Hosts State	Detail View							*	1
< III >	State 🔗 1	Instance	Availability	0	) Configuratio	n 🔘 Perfor	rmance 🔘 Sec	urity	Task Pane
Show or Hide Views	🕢 Healthy 🛛 🛛	RD440.LAB2.com	🕢 Healthy	C	) Not monito	🔘 Not n	nonito 🔵 No	t monito	ō
New View 🕨									
Monitoring									
Authoring									
🚳 Administration									
🔣 My Workspace									
•	<		Ш					>	
Ready									

Figure 18: Server Information Status on the Hosts State Screen

Sta	te - SCOM2012R2_MG - Operations Manage	er	_ <b>D</b> X
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>G</u> o Tas <u>k</u> s <u>T</u> ools <u>H</u> elp			
Search 👻 📮 🌆 Scope 👂 Fi <u>n</u> d	🖸 Tasks 🔞 🝦		
State (1)			Tasks
Name	Path		
RD440.LAB2.com	RD440.LAB2.com		State Actions
			Start Maintenance Mode
			Edit Maintenance Mode Settings
			Stop Maintenance Mode
			Personalize view
			Tasks ^
			Entity Properties
			🙀 Health Explorer
Detail View		~	-
Server Information properties of RD440.LAB2.com		~	Navigation ^
Display Name RD440.LAB2.com			Alert View
Full Path Name RD440.LAB2.com\RD440.LAB2.com	n\RD440.LAB2.com		🚭 Diagram View
OS Version Microsoft Windows Server 2008 F	2 Enterprise		Event View
Number of VMs 3 BIOS Version A0TS03A			Performance View
Number of Threads 16			III State View
Number of Processors 1			Network Vicinity Dashboard
Number of Cores 8			
		$\sim$	
Ready			

Figure 19: Server Information-Detailed View

### 3.4 Operating Host Tasks

This section details the various Host tasks.

### 3.4.1 Configure Lenovo Hosts:

It provides an easy to use interface to enter and store the user name and password for the BMC Lenovo ThinkServer System Manager IPV4 data.

Notice: The password must be minimum 1 character long and maximum 16 characters long, and the password length doesn't distinguish IVB or GRT devices.

### 3.4.2 Crash Screen:

The Crash Screen feature captures a screenshot of the most recent operating system crash, i.e., a Blue Screen of Death (BSOD). With the Crash Screen, users can identify that an issue happened in the operating system running on the host, even if the host restarted while no one was effectively checking the console or using the operating system the moment the crash happened.

The Crash Screen is only able to capture a screenshot of the last BSOD. Therefore, it only works for Windows operating systems. Also, since this feature depends on the Virtual Console, it must be available in ThinkServer System Manager and the user must have the 'KVM' privilege to use it.

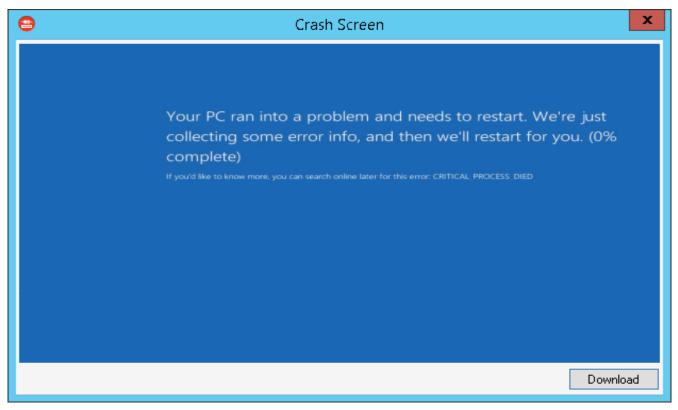


Figure 20: Crash Screen Window

### 3.4.3 Extended SEL

It provides an easy user interface to view and export the Extended SEL of each BMC.

192.168.8.149 - Extended SEL							
Severity	All 🔻 Se	nsorType All	▼ Events:		Search	Clear	
Severity	Time	Sensor Types	Event Details				
Warning	1980/1/1 19:07:25 1979/12/31 16:00:09 1979/12/31 16:00:11			Assert: General Chas			
	< All <b>v</b> >		Export	Clear SEL	Cano	el	

Figure 21: Extended SEL window

#### 3.4.4 Launch Lenovo Host Console:

By using the **Launch Lenovo Host Console** task, you can remotely connect to the machine out of band. You can connect to the machine even if the Operating System is not up/panic state.

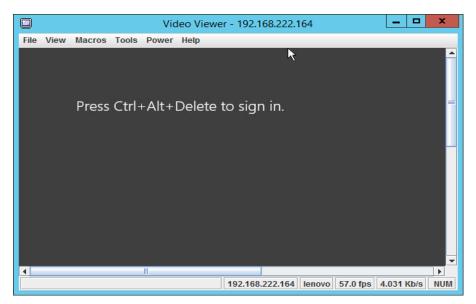


Figure 22: Video Viewer Screen

### 3.4.5 Launch Lenovo Web Console:

By using the **Launch Lenovo Web Console** task, which is above the RDP console, you can open the Lenovo ThinkServer System Manager(TSM) Website login screen. You need to enter the user name and password to log in.

Remote Management Controller - Windows Internet Explorer	Annual Succession of the local division of t	
🖕 Favorites 🛛 🚔 🔊 Suggested Sites 👻 🔊 Web Slice Gallery 🗸		
🐴 🔻 🖾 👻 🖃 🖶 👻 Page 🕶 Safety 🕶 Tools 🕶 🚱 🖛	I N	
		Support Help About
ThinkServer Management Module		lenovo
Logo	in to:	
Usern	mo	
Userin	ine.	
Passw	ord:	
	OK Cancel	

Figure 23: Remote Management Controller

### 3.4.6 Launch Remote Desktop:

By using the **Launch Remote Desktop task**, you can remotely connect to the servers. You need to enter the credentials to get the access.

	credentials
iese creueni	and will be used to connect to KD440.LAB2.com.
	lab2\scomaction
$\sim$	Password
	Use another account
1 1	
間	Connect a smart card
🗌 Rem	ember my credentials

Figure 24: Remote Desktop Login Screen

### 3.4.7 Refresh Host Data

Select the host server from the Host State section and click on the **Refresh Host Data** console task. The **Refresh Host Data** console task fetches the latest inventory details for the selected host server and the refreshed data will be displayed on the console window for the selected host server.

#### 3.4.8 Restart

Upon clicking the **Restart** link, the selected server will restart.

#### 3.4.9 Shut down

Upon clicking the Shut Down link, the selected server will shutdown.

### 3.5 Configure interval

### 3.5.1 Configure discovery interval

Select the Authoring navigation pane and navigate to Authoring  $\rightarrow$  Management Pack Object  $\rightarrow$  Object discoveries and search and select the inventory item.

Eg: Temperature sensor discovery as shown in the below screen shot.

	Object Discoveries - SCO	M2012R2_MG - Operations Ma	anager	_ 0	x
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>G</u> o Tas <u>k</u>	s <u>T</u> ools <u>H</u> elp				
Search 🔻 🗧	Overrides 🔻 🝦 🎼 Scope 🔎 Find 🗹 Tasks				
Authoring <	Object Discoveries (2)				<
Authoring	Look for: temp	Find Now Clear			
h Anna sant Dask Tama	Name	Target	Management Pack	Enabled by defa	
Distributed Applications		Target	Management Pack	Enabled by dela	
Citoups	Discovered Type: Temperature Sensor (1)				
<ul> <li>Management Pack Objec</li> <li>Attributes</li> </ul>	TemperatureSensor Discovery	Windows Computer	Lenovo ThinkServer Partner Pack	Yes	
Monitors					
Object Discoveries					
🥵 Overrides					
📃 Rules					
Service Level Tracking					
Tasks					
					Tag
	<	Ш		>	sk p
	Object Discovery Details:			~	Task Pane
< III >			Object Discovery Description:	^	
Add Monitoring Wizard	TemperatureSensor Discovery		Object Discovery Description:		
New Distributed Application	Management Pack: Lenovo ThinkServer Partner	- Da ala			
New Group	Management Pack: Lenovo minkServer Partner	Pack	Description for the new discover	у.	
	Target: Windows Computer			=	
Monitoring	Knowledge: View knowledge				
Authoring					
	Created: 09-04-2014 18:13:24				
Administration	Scope categories, relationships, and their attributes:		Activate Wind	lows	
My Workspace	P. Type: Temperature Sensor	^	Go to System in C	ontrol Panel to	
•	Current Temperature (Degree C) (String)		activate Windows.		
Ready	Unner Threshold Non-Critical Temperatur	re (Dearee C) (String)			

Figure 25: Object discoveries - Search Object

	Object Discoveries - SCOM2012R2_	MG - Operations Manage	er	_ 0 ×			
Eile Edit View Go Tasks Iools Help							
Search 👻 🚽 Overrides 👻 🚽 👫 Scope 🕗 Find 🖸 Tasks 🕡 📮							
Authoring <	Object Discoveries (2)			<ul> <li>Tasks</li> </ul>			
Authoring	Q Look for: temp	<u>Find Now</u> <u>C</u> lear					
Management Pack Templates Distributed Applications	Name	Target	Management Pack	Object Discovery			
Groups				Properties			
4 📷 Management Pack Objects	Discovered Type: Temperature Sensor (1)			Disable			
E Attributes	TemperatureSensor Discovery	Windows Computer	Lenovo ThinkServer Partner	📷 Overrides 🕨			
Dbject Discoveries	Properties	time compare		🗡 Delete			
Solution Overrides	Disable						
📰 Rules	Soverrides Disable the Object Disco	very +					
Service Level Tracking	X Delete Del Override the Object Disc		bjects of class: Windows Comp	outer			
Views	Refresh F5 Summary	<ul> <li>For a group</li> </ul>	For a group				
			ecific object of class: Windows	Computer			
		For all o	bjects of another class				
< III >							
Add Monitoring Wizard							
New Distributed Application							
New Group							
Monitoring							
Authoring	<		>				
	Object Discovery Details:		~				
Administration			Object Discovery Descr				
My Workspace	TemperatureSensor Discovery						
			activate Windov				
Ready							
	<b>3</b> 🐼 🔍		ŀ	19:03 10-04-2014			

Figure 26: Object discoveries - Override the Object Discovery

Right click the object to which the discovery interval will be set. Select Overrides  $\rightarrow$  Override the Object Discovery  $\rightarrow$  For all objects of class... from the displayed popup.

	Override Properties							
Object Di	Object Discovery name: TemperatureSensor Discovery							
Category		Discove	ry					
Override	s target:	Class: W	/indows Computer					
Override	controller	d parameters:				Show Obj	ject Discovery Prop	erties
		-	Parameter Type	Default Value	Override Value	Effective Value	Change Status	E
		Enabled	Boolean	True	True	True	[No change]	
		IntervalSeconds	Integer	120		120	[Added]	<u> </u>
<				Ш				>
Details:								
Interva	IntervalSeconds Description Edit							
ThinkSe	The new custom override will be created in the 'Lenovo ThinkServer Partner Pack'. Click apply to view the new effective value for this parameter.							
	Select destination management pack:							
Lenovo	Lenovo ThinkServer Partner Pack V New							
							Activat Go to Sys	tem in C
<u>H</u> el	p					ОК	Apply Ca	Nindows

Figure 27: Object discoveries – Set interval

Set the interval value in the screen displayed above and click **OK**. These steps will set the interval value.

### 3.5.2 Configure monitoring interval

Select the Authoring navigation pane and navigate to Authoring  $\rightarrow$  Management Pack Object  $\rightarrow$  Monitors and search and select the inventory item.

Eg: FAN unit monitor as shown in the below screen shot.

		Monitors - SCOM2012R2	_MG - Operations Ma	anager		<b>ر ا</b>	x
<u>File Edit View Go</u> Tas	<u>k</u> s <u>T</u> ools <u>H</u> elp						
Search V	. Create a Monitor	r 👻 🝦 🛛 Overrides 👻 📮 👫 Scope	🔎 Fi <u>n</u> d 🚺 T <u>a</u> sks 🧕				
Authoring <	Monitors						
Authoring	Q Look for: far	n	Find Now Clear				
Management Pack Temp	Target		Type	Inherited From	Management Pack	^	
🕸 Distributed Applications	⊿ Fan		1.16 -				
<ul> <li>Groups</li> <li>Management Pack Object</li> </ul>	4 🔐 Entity Healt	th	Aggregate Rollup	Object	Health Library		
Attributes	4 😹 Availabil	ity	Aggregate Rollup	Object	Health Library	≡	
Monitors	Fan Unit	Monitor	Lenovo.TMM.Ser	(Not inherited)	Lenovo ThinkServer Partner Pack		
Object Discoveries	4 🛞 Configur	ration	Aggregate Rollup	Object	Health Library		
Source Stress St	4 器 Perform	ance	Aggregate Rollup	Object	Health Library		
Rules	4 😹 Security		Aggregate Rollup	Object	Health Library		
Service Level Tracking	⊿ Host						
Views	Tasks 🖌 🍪 Entity Health		Aggregate Rollup	Object	Health Library		
Views		an Dependency Monitor	Dependency Roll		Lenovo ThinkServer Partner Pack		Ч
	Most.Baseb	oard.Dependency.Monitor	Dependency Roll	(Not inherited)	Lenovo ThinkServer Partner Pack	>	sk
	Monitor details:					~	Task Pane
	Womtor details.						æ
< 111 >	Fan Unit Mon	itor	Monitor De	escription:		^	
Add Monitoring Wizard	_						
New Distributed Application New Group	Management Pack:	Lenovo ThinkServer Partner Pack	Description f	or the new unit monitor			
New Group	Target:	Fan					
Monitoring	Inherited From:	(Not inherited)					
Authoring	Knowledge:	View knowledge					
	Monitor Type:	Lenovo.TMM.Server.Fan.Status.Monitor					
Administration	Generates Alerts:	No			Activate Windows		
My Workspace					Go to System in Control Panel		
	A Warning				activate Windows.	~	
Ready	😭 Critical						
Ready							

Figure 28: Monitors - Search

Right click on the unit monitor and select Overrides  $\rightarrow$  Override the Monitor  $\rightarrow$  For all objects of class from popup.

<u>Eile Edit View G</u> o Tas <u>k</u> s <u>T</u> ools <u>H</u> elp	
Search 🔻 🖕 Create a Monitor 🐂 🖞 Overrides 🐂 🖁 💭 Find 💟 Tasks 🔞 👙	
Authoring < Monitors	<
Authoring Q Look for: fan Eind Now Clear	
Management Pack Temp Target Type Inherited From Management Pack	^
An Distributed Applications A Fan	
A 📷 Management Pack Object 4 🛞 Entity Health Aggregate Rollup Object Health Library	=
E Attributes Aggregate Rollup Object Health Library	
Monitors Create a Monitor Lenovo.TMM.Ser (Not inherited) Lenovo TminkServer Partner	Pack
Object Discoveries     Aggregate Rollup     Object     Health Library       Disable     Disable     Aggregate Rollup     Object     Health Library	
Overrides     Aggregate Rollup     Object     Health Library       Rules     Image: Sign of the second	
Service Level Tracking A Host Overrides Summary Override Honitor > For all objects of class: Fan	
Tasks	
	Pack
	Pack > Task Pane
Monitor details: Override Recovery	Pan
	(D
Add Monitoring Wizard  Fan Unit Monitor Monitor Description:	^
New Distributed Application New Group Management Pack: Lenovo ThinkServer Partner Pack Description for the new unit monitor.	_
Target: Fan	
Monitoring Inherited From: (Not inherited)	
Authoring Knowledge: View knowledge	
Administration Monitor Type: Lenovo.TMM.Server.Fan.Status.Monitor	
Generates Alerts: No Activate Windows	
Warning Go to System in Control P	anel to
Critical activate Windows.	~
Ready	

Figure 29: Monitors - Override the Monitor

Set the interval as shown in below screen shot and press OK.

			Ov	erride Proper	ties			
/onitor n	ame:	Fan Unit	t Monitor					
ategory	ategory: Custom							
)verride	s target:	Class: F	an					
Override	-controlle	d parameters:				[	Show Monitor Prope	erties
-		Parameter Name	Parameter Type	Default Value	Override Value	Effective Value	Change Status	
		Alert On State	Enumeration	The monitor	The monitor i	The monitor is	[No change]	
		Alert Priority	Enumeration	Low	Low	Low	[No change]	
		Alert severity	Enumeration	Critical	Critical	Critical	[No change]	
		Auto-Resolve Alert	Boolean	False	False	False	[No change]	
		Enabled	Boolean	True	True	True	[No change]	
		Generates Alert	Boolean	False	False	False	[No change]	
•	~	IntervalSeconds	Integer	120	120 🗘	120	[Added]	
		SyncTime	String				[No change]	
	alSecond	-		scription				Edit
The new custom override will be created in the "Lenovo ThinkServer Partner Pack'.Click apply to view the new effective value for this parameter.								
Se <u>l</u> ect de	Select destination management pack:							
Lenovo	Lenovo ThinkServer Partner Pack							
							Activa Go to S	

Figure 30: Monitors – Set interval

# 4 Troubleshooting

### 4.1 Error messages

This table displays the common error messages and their resolutions.

Error Message	Resolution
SCOM - Importing a Management Pack failed.	Delete the old version of the management pack and import the new version of the management pack.
Lenovo ThinkServer Partner Pack for Microsoft System Center Operations Manager is not displaying data after importing the pack.	Right-click the inventory folder and click <b>Refresh</b> . Please wait for few minutes, as the system will take some time to populate the data after importing it from the pack.
Lenovo ThinkServer Partner Pack for Microsoft System Center Operations Manager is not displaying data.	Refer to the <b>Operations Manager</b> event log.

Table 2: Common error messages and their resolutions

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