



Dell OpenManage Plug-in Version 3.0 For Nagios XI


Installation Guide

Identifier	GUID-5B8DE7B7-879F-45A4-88E0-732155904029
Version	13
Status	Translation Validated

註、警示與警告

 **註:**「註」表示可以幫助您更有效地使用產品的重要資訊。

 **警示:**「警示」表示有可能會損壞硬體或導致資料遺失，並告訴您如何避免發生此類問題。

 **警告:**「警告」表示可能的財產損失、人身傷害或死亡。

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Identifier	GUID-3315CFA2-C81E-4A57-9406-3C69D0A24301
Version	6
Status	Released

Introduction

This guide provides information about the software requirements, system requirements and the steps to install, upgrade and uninstall the Dell EMC OpenManage Plug-in Version 3.0 for Nagios XI.

This plug-in provides capabilities to monitor the supported Dell EMC devices in environments managed by Nagios XI. This plug-in gives you complete hardware-level visibility of Dell EMC devices, including overall and component-level health monitoring. The plug-in enables you to view the basic inventory information and conduct event monitoring of Dell EMC devices. The plug-in also supports one-to-one web console launch of the Dell EMC devices for further troubleshooting, configuration, and management activities.

The Dell EMC OpenManage Plug-in Version 3.0 for Nagios XI supports the following Dell EMC devices:

- 12th and later generations of PowerEdge servers through the agent-free method by using Integrated Dell Remote Access Controller (iDRAC) with Lifecycle Controller (LC)
- OEM Servers
- Datacenter Scalable Solutions (DSS)
- Hyper-converged Infrastructure (HCI) Platforms - Dell EMC VxRail and Dell EMC XC device
- PowerEdge FX2/FX2s chassis, PowerEdge VRTX chassis, and PowerEdge M1000e chassis
- EqualLogic PS-Series Storage Arrays, PowerVault MD 34/38 Series Storage Arrays, and Compellent SC-Series Storage Arrays
- Dell EMC Network Switches

For more details on the supported Dell EMC device models, see Support matrix in the “*Dell EMC OpenManage Plug-in Version 3.0 for Nagios XI User’s Guide.*”

Table 1. Key features

Feature	Functionality
Device Discovery	<p>Discovers Dell EMC devices. Once the discovery is complete, host and service definitions are created for each device.</p> <ul style="list-style-type: none"> • Discovering Dell EMC servers through iDRAC with Lifecycle Controller could be done either using SNMP or WSMAN protocol or Redfish REST APIs. • Dell EMC storage and Dell EMC Network Switch discovery is supported using SNMP protocol. • Dell EMC chassis discovery is supported using WSMAN protocol.
Device Information	<p>Displays information about the discovered device such as Service Tag, Firmware Version, Device Name, Device Model, and so on after a device discovery is successful. You can view this information in the Hosts or the Services view in the Nagios XI console.</p> <p>For more information about device services and their description, see Device Information in the <i>Dell EMC OpenManage Plug-in Version 3.0 for Nagios XI User’s Guide</i>.</p>
Monitor overall health of Dell EMC devices	Monitors the overall health of Dell EMC devices.
Component level health of Dell EMC devices	<p>Monitors health of the Dell EMC device components such as Physical Disks, Power Supply, Temperature Probe and Voltage Probe and displays the information about the respective components.</p> <p>For more information about Component level health of Dell EMC devices and their description, see Monitor Component Health of Dell EMC Devices in the <i>Dell EMC OpenManage Plug-in Version 3.0 for Nagios XI User’s Guide</i>.</p>
Monitor SNMP alerts	Monitors SNMP alerts for Dell EMC devices. This feature displays only the last received SNMP alert.

Feature	Functionality
	<p>To view all received SNMP alerts navigate to Reports > Alerts > History in the Nagios Core console.</p> <p>You can also view the Alert Knowledge Base (KB) information for the supported Dell EMC devices corresponding to an SNMP alert for faster troubleshooting of the respective alert.</p> <p>For more information, see Knowledge Base (KB) messages for the generated alerts in the <i>Dell EMC OpenManage Plug-in Version 3.0 for Nagios XI User's Guide</i>.</p>
Launching Dell EMC device specific consoles	Launches the respective Dell EMC one-to-one consoles to further troubleshoot and manage the supported Dell EMC devices.
Warranty information	Monitors and displays the warranty information for the supported Dell EMC devices. For more information, see Warranty information for Dell EMC devices in the <i>Dell EMC OpenManage Plug-in Version 3.0 for Nagios XI User's Guide</i> .

This plug-in supports Nagios XI versions 5.4.11 and 5.4.13.

Before installing Dell EMC OpenManage Plug-in Version 3.0 for Nagios XI, download the latest documents from [Dell EMC OpenManage Plug-in for Nagios XI](#) for the latest information about this product.

Identifier	GUID-2546D7F4-B9BF-4C81-88DE-AA2509C9E2ED
Version	4
Status	Released

System requirements

Before you install the plug-in, ensure that you meet the following requirements:

Common prerequisites:

- Any Nagios XI version between 5.4.11 to 5.4.13 is installed and all the Nagios XI components are functional.
- OMSDK (OpenManage Python Software Development Kit) version 1.1.268 is installed.
- Python version 2.7.5 and above or 3.6.3 and above is installed.
- Python Argparse module is installed.
- Python Netaddr module is installed.
- (Optional) Java version 1.6 or later is installed to view Dell EMC warranty information.
- (Optional) SNMP Trap Translator (SNMPTT) version 1.3 or later is installed to receive SNMP alerts. It is recommended to use the latest version.

NOTE: You can discover iDRAC devices either using SNMP or WSMAN protocol or Redfish REST APIs. Dell EMC storage and Dell EMC Network Switch discovery is supported using SNMP protocol. Dell EMC chassis discovery is supported using WSMAN protocol.

NOTE: For information regarding installation, uninstallation and upgrade of OMSDK, refer [OMSDK Installation](#)

Topics:

- [管理系統的系統需求](#)
- [受管系統的系統需求](#)

Identifier	GUID-F7F3758F-B046-4CE8-BE06-ED7FA49C2E46
Version	2
Status	Translation approved

管理系統的系統需求

管理系統就是安裝 Nagios XI 的伺服器。管理系統的需求如下：

- Red Hat Enterprise Linux (RHEL) 7.3 版與 RHEL 6.9 版 (64 位元)

亦支援執行 RHEL、SLES 與 Ubuntu 客戶端作業系統支援版本的 ESXi Hypervisor。

Identifier	GUID-9C986F2A-68D0-4327-BD65-285E6E772D6C
Version	2
Status	Translation approved

受管系統的系統需求

受管理系統是您正在監視的受支援 Dell EMC 裝置。受管系統的需求如下：

表 2. Dell EMC 裝置支援的韌體版本

Dell EMC 裝置	韌體	支援的韌體版本
第 14 代 PowerEdge 伺服器	iDRAC9	3.17.17.17 , 3.15.15.15 , 3.11.11.11 與 3.00.00.00
第 13 代 PowerEdge 伺服器	iDRAC8	2.50.50.50 和 2.41.40.40
第 12 代 PowerEdge 伺服器	iDRAC7	2.50.50.50 和 2.41.40.40
資料中心可擴充解決方案	iDRAC8	2.50.50.50 和 2.41.40.40

Dell EMC 裝置	韌體	支援的韌體版本
Nutanix XC	iDRAC8	2.50.50.50 和 2.41.40.40
	iDRAC9	3.15.15.15 和 3.11.11.11
VxRail	iDRAC8	2.50.50.50 和 2.41.40.40
	iDRAC9	3.15.15.15 和 3.11.11.11
PowerEdge M1000e 機箱	CMC	6.0 和 5.22
PowerEdge VRTX 機箱	CMC	3.0 和 2.23
PowerEdge FX2/FX2s 機箱	CMC	2.0 和 1.42
Compellent SC 系列儲存陣列	NA	7.2.10 和 7.2.1
EqualLogic PS-Series Storage Arrays	NA	9.1.5 和 9.1.4
Dell PowerVault MD 34/38 系列儲存陣列	NA	08.25.13.60 和 08.25.11.60
Dell EMC Network Switch M、S、FN、Z 與 C 系列	NA	9.13.0.0 和 9.11.2.8
Dell EMC Network Switch N 系列		6.3.3.10 和 6.3.3.9

- 如果您使用的是 SNMP 通訊協定，確認 SNMP 已在各自的裝置設定。
如果您要在 Nagios XI 主控台內接收 SNMP 設陷，請確認您在各自的裝置中設定 SNMP 設陷目的地。
如需更多資訊，請參閱 Nagios XI 適用的 Dell EMC OpenManage Plug-in 3.0 版使用者指南中的附錄，網址是 dell.com/OMConnectionsEnterpriseSystemsManagement。
- 如果您使用的是 RedFish REST API，確認 RedFish 已在各自的裝置啟用。
- 如果您使用的是 WSMAN 通訊協定，建議您使用預設服務帳戶以外的 WSMAN 服務帳戶。如需更多資訊，請於 dell.com/esmmanuals 上參閱各自裝置的使用者指南中的**設定使用者帳戶及權限**。

如需支援平台的清單，請參閱 Nagios XI 適用的 Dell EMC OpenManage Plug-in 3.0 版使用者指南中的**支援矩陣**。

Identifier	GUID-96E2D3FE-6ED9-4979-B691-76F5DCBF8938
Version	4
Status	Released

Downloading and Installing the Dell EMC OpenManage Plug-in Version 3.0 for Nagios XI

- To install the Dell EMC OpenManage Plug-in Version 3.0 for Nagios XI, you must extract the component-specific files on the systems. The installer is packaged as a `.tar.gz` file named **Dell_EMCMOpenManage_Plugin_v3.0_Nagios_XI_A00.tar.gz**. Before you begin deploying the files, follow the instructions below to download **Dell EMC OpenManage Plug-in Version 3.0 for Nagios XI**.
 - Open the browser and enter the URL www.dell.com/support.
 - Navigate to your **Dell EMC product page** or search by **Dell EMC Service Tag**.
 - Select **Drivers and Downloads** from the left pane options.
 - The page will display a list of supported software and plug-in available for the selected Dell EMC device.
 - Click on **Dell EMC OpenManage Plug-in Version 3.0 for Nagios XI** and download the file.
- Navigate to the location where you have downloaded the file, and extract its contents. The following files are extracted:
 - `Dell_EMCMOpenManage_Plugin_v3.0_Nagios_XI_A00.tar.gz` file
 - `Dell_EMCMOpenManage_Plugin_v3.0_Nagios_XI_ReadMe.pdf` file
 - `Dell_EMCMOpenManage_Plugin_v3.0_Nagios_XI_ReadMe.txt` file
 - `license_en.txt` file
 - Upgrade folder.
- Login to Nagios XI console with your credentials. The Nagios XI home page is displayed.
- Click the **Admin** tab.
- In the left pane, under **System Extensions**, click **Manage Config Wizards**. The **Manage Configuration Wizards** page is displayed.
- In the **Upload a Wizard** menu, click **Browse**. The **File Upload** window is displayed.
- Navigate to the location where you have extracted the contents of the **Dell_EMCMOpenManage_Plugin_v3.0_Nagios_XI_A00.tar.gz** file, select the **Dell_EMCMOpenManage_Plugin_v3.0_Nagios_XI_A00.tar.gz** file and click **Open**.
- Click the **Upload & Install** button. The Dell EMC OpenManage Plug-in for Nagios XI is successfully installed in your system and is displayed under the **Wizard Information** menu along with its copyright and version information as depicted in the image below.

Nagios XI Home Views Dashboards Reports Configure Tools Help Admin

System Information: System Status, Monitoring Engine Status, Audit Log, Check For Updates

Users: Manage Users, LDAP/AD Integration, Notification Management

System Config: System Settings, License Information, Proxy Configuration, System Profile, Manage Email Settings, Manage Mobile Carriers, Performance Settings, Automatic Login, Reset Security Credentials, SSH Terminal

Monitoring Config: Config Snapshots, Check File Permissions, NRPE Config Manager, Unconfigured Objects, Deadpool Settings

Check Transfers: Outbound Transfers, Inbound Transfers

























System Extensions: Manage Components, Manage Config Wizards, Manage Dashlets, Manage Plugins, Manage Graph Templates, Manage MIBs, Custom Includes

System Backups: Scheduled Backups, Local Backup Archives

Manage Configuration Wizards

Manage the configuration wizards that are installed on this system and available to users under the **configuration** menu. Need a custom configuration wizard created for your organization? [Contact us](#) for pricing information. You can find additional configuration wizards for Nagios XI at [Nagios Exchange](#).

Upload a Wizard Browse... More Wizards [↗](#)

Wizard Information	Type	Actions	Version	Status
 Dell EMC OpenManage Plug-in for Nagios XI Discover and Monitor Dell EMC servers through an agent-free method using Integrated Dell Remote Access Controller (iDRAC) with Lifecycle Controller, Dell EMC chassis, Dell EMC storage devices, Dell EMC HCI Compute nodes, and Dell EMC Network Switches. ↕ 3.0 Copyright © 2018 Dell Inc. All rights reserved.	Configuration	 	3.0	
 Auto-Discovery Monitor servers, devices, and services found by auto-discovery jobs. ↕ 1.4.0	Configuration	 	1.4.0	
 BPI Wizard Create service checks for your Nagios BPI groups. ↕ 1.1.2 09/30/2016 Nagios Enterprises, LLC Copyright © 2008-2016 Nagios Enterprises, LLC.	Configuration	 	1.1.2	
 Bulk Host Cloning and Import Clones existing hosts quickly and easily. Supports import from auto-discovery jobs and CSV input. ↕ 2.0.4 06/16/2017	Configuration	 	2.0.4	
 DHCP Monitor a DHCP server. ↕ 1.1.3	Configuration	 	1.1.3	
 DNS Query Monitor a host or domain lookup/query via DNS. ↕ 1.1.2	Configuration	 	1.1.2	
 Domain Expiration Monitor a domain expiration ↕ 1.1.2	Configuration	 	1.1.2	
 Email Delivery Test mail servers reception and simulated users inspection of email messages. ↕ 2.0.3	Configuration	 	2.0.3	

Identifier	GUID-2C7D1777-1FC0-4B91-BC61-AE65B8D2706D
Version	3
Status	Translation in review

安裝後需求

本節列出根據您的監控需求，必須執行的選用步驟。

成功安裝 Nagios XI 適用的 Dell EMC OpenManage Plug-in 3.1 版後，請執行下列步驟：

- 設定警示或事件以監控設陷。
- 設定知識庫 (KB) 文章，以能夠檢視所接收警示或事件 (設陷) 的更多資訊。

如果您已於非預設位置安裝 Nagios XI，請執行於[設定在非預設路徑所安裝的 Nagios XI](#) 一節中所列的步驟。

主題：

- [設定警示或事件設陷](#)
- [設定知識庫文章](#)
- [Configuring Nagios XI installed in non default path](#)

Identifier	GUID-0E0DBE12-1FAD-40E9-AE80-9A7A8319D107
Version	3
Status	Translation in review

設定警示或事件設陷

監視 SNMP 設陷是選配的必要條件。若要設定 SNMPTT 接收 SNMP 警示，請執行下列步驟：

1. 瀏覽至 `cd <NagiosXI installed path>/html/includes/configwizards/Dell EMC_OM_NagiosXI_monitoring_wizard/plugins` 並執行下列命令：

```
./postinstall.sh trap
```

 Nagios XI 的預設位置為 `/usr/local/nagiosxi`。
2. 提供安裝 `snmptt.ini` 檔案的路徑，然後按 **ENTER** 鍵。
 或者，您也可以按 **Enter** 鍵以預設檔案路徑繼續，`/etc/snmp/snmptt.ini`。
3. 提供安裝設陷組態檔案的路徑，然後按 **ENTER** 鍵繼續。另外，您也可以按 **Enter**，以預設的檔案路徑 `/usr/local/nagios/libexec` 繼續。
4. 執行下列命令，以重新啟動 SNMPTT 服務：

```
service snmptt restart
```

您現在已能接收 SNMP 警示或事件 (設陷)。

Identifier	GUID-FB9D7160-11C2-406E-A434-FAAFD2FBFF4D
Version	3
Status	Translation in review

設定知識庫文章

知識庫文章和所探索 Dell EMC 裝置產生的警示或事件有關聯。若要能在 Nagios XI 主控台中檢視知識庫文章，您必須進行設定。

瀏覽至 `cd <Nagios XI installed path>/html/includes/configwizards/Dell EMC_OM_NagiosXI_monitoring_wizard/plugins` 並執行下列命令：

```
./postinstall.sh dellkb
```

Nagios XI 的預設位置為 `/usr/local/nagiosxi`。

知識庫文章已設定。您現在能檢視知識庫文章。

Identifier	GUID-BE9FDE1B-2F3E-437B-A75B-9017E6A78A10
Version	3
Status	Released

Configuring Nagios XI installed in non default path

By default, Nagios is installed in the following path:

```
/usr/local/nagios/
```

If you have installed Nagios XI in a non default path, then, perform the following steps to integrate this path:

1. Navigate to `cd <Nagios XI installed path>/html/includes/configwizards/Dell EMC OM NagiosXI monitoring wizard/plugins` and run the following command:

```
./postinstall.sh nagiosinstallpath
```
2. Provide the path where the `submit_check_result.sh` script file is installed and then press **ENTER**.
3. Restart the SNMPTT services by running the following command:


```
service snmptt restart
```

The Nagios XI installed path is now configured.


Identifier	GUID-A8985472-DC8D-45BB-AEB1-67231D854747
Version	2
Status	Released

Upgrading to Dell EMC OpenManage Plug-in Version 3.0 for Nagios XI

You can upgrade from Dell OpenManage Plug-in Version 1.0 to Dell EMC OpenManage Plug-in Version 3.0 for Nagios XI by performing the following steps:

- Download the latest Dell EMC OpenManage Plug-in Version 3.0 for Nagios XI installer from the Dell EMC support website at **Dell.com/support** or from Nagios exchange at **exchange.nagios.org/**.
The installer is packaged as a `.tar.gz` file named **Dell EMC OpenManage Plugin v3.0 Nagios XI A00.tar.gz**.
- Copy the **Dell EMC OpenManage Plugin v3.0 Nagios XI A00.tar.gz** file to the Nagios XI setup.
- Navigate to the location where you have downloaded the folder, and extract its contents.
The following folder and files are extracted:
 - Dell_OpenManage_Plugin folder
 - Dell EMC OM Plugin 3_0 For NagiosXI IG.pdf file
 - Dell EMC OM Plugin 3_0 For NagiosXI ReadMe.txt file
 - license_en.txt file
 - Dell EMC OM NagiosXI monitoring wizard.zip file
 - Upgrade folder.
- Delete Dell OpenManage Plug-in Version 1.0 by following the below steps :
 - Login to the Nagios XI console with your credentials.
The Nagios XI home page is displayed.
 - Click the **Admin** Tab.
 - In the left pane, under **System Extensions**, click **Manage Config Wizards**.
The **Manage Configuration Wizards** page is displayed.
 - Locate the Dell Plug-in under **Wizard Information** and click the  (Delete) button under **Actions**, to uninstall the Dell OpenManage Plug-in for Nagios XI wizard.
The Dell OpenManage Plug-in is successfully uninstalled from your system.
- Install the Dell EMC OpenManage plug-in Version 3.0 by following the below steps
 - Login to Nagios XI console with your credentials.
The Nagios XI home page is displayed.
 - Click the **Admin** Tab.
 - In the left pane, under **System Extensions**, click **Manage Config Wizards**.
 - In the **Upload a Wizard** menu, click **Browse**.
The **File Upload** windows is displayed.
 - Navigate to the location where you have extracted the contents of the **Dell EMC OpenManage Plugin v3 Nagios XI A00.tar.gz** file, select the **Dell EMC OM NagiosXI monitoring wizard.zip** file and click **Open**.
 - Click the **Upload & install** button.
 - The Dell EMC OpenManage Plug-in for Nagios XI Version 3.0 is successfully installed in your system and is displayed under the **Wizard Information**.
- Navigate to **Upgrade** folder and run the below command :

```
sh Upgrade.sh <DBPassword> <DBName>
```

 **NOTE:** Running Database script will change the previously discovered service names to new service names. Upgrade is supported only if the database is in the same management node.

7. Rediscover the devices.

 **NOTE:** Dell EMC OpenManage plug-in Version 3.0 is the latest upgrade version of Dell OpenManage plug-in Version 1.0. No intermediate versions available.

Identifier	GUID-D518DBDD-7F65-433A-8167-DA51CA9D012B
Version	2
Status	Translation approved

解除安裝 Nagios XI 適用的 Dell EMC OpenManage Plug-in 3.0 版

1. 使用您的憑證登入 Nagios XI 主控台。
Nagios XI 首頁面隨即顯示。
2. 按一下**管理者**標籤。
3. 在左窗格中，在**系統延伸**下，按一下**管理組態精靈**。
管理組態精靈頁面隨即顯示。
4. 在**精靈資訊**之下找到 Dell EMC Plug-in，然後按一下**動作**之下的  (Delete) 按鈕，以解除安裝 Nagios XI 適用的 Dell EMC OpenManage Plug-in 3.0 版精靈。
已成功從您的系統解除安裝 Dell EMC OpenManage Plug-in。

Identifier	GUID-B9F8B314-89CD-4D7A-9B5A-07D0B0BE7789
Version	44
Status	Translation Validated

從 Dell EMC 支援網站存取文件

您可以用下列方式之一存取所需文件：

- 使用下列連結：
 - Dell EMC 企業系統管理、Dell EMC 遠端企業系統管理，以及 Dell EMC 虛擬化解決方案文件 — www.dell.com/esmmanuals
 - Dell EMC OpenManage 文件 — www.dell.com/openmanagemanuals
 - iDRAC 文件 — www.dell.com/idracmanuals
 - Dell EMC OpenManage Connections 企業系統管理文件 — www.dell.com/OMConnectionsEnterpriseSystemsManagement
 - Dell EMC 服務性工具文件 — <https://www.dell.com/serviceabilitytools>
- 從 Dell EMC 支援網站：
 1. 前往 <https://www.dell.com/support>。
 2. 按一下**瀏覽所有產品**。
 3. 從**所有產品**頁面，按一下**軟體**，然後從以下按一下所需的連結：
 - 分析
 - 用戶端系統管理
 - 企業應用程式
 - 企業系統管理
 - 大型主機
 - 作業系統
 - 公共事業解決方案
 - 服務性工具
 - 支援
 - 公用程式
 - 虛擬化解決方案
 4. 若要檢視文件，請按一下所需的產品，然後按一下所需的版本。
- 使用搜尋引擎：
 - 在搜尋方塊輸入文件名稱和版本。

Identifier	GUID-15CDE675-08AA-435E-8915-070212C4431F
Version	5
Status	Translation approved

相關說明文件

除了本指南外，您還可以取得在 Dell.com/support/manuals 的 Dell EMC 支援網站提供的以下指南。請在「手冊」頁面上，按一下**軟體與安全性**，並按一下適當的產品連結以存取文件。

- *整合式 Dell Remote Access Controller 7 (iDRAC7) 3.00.00.00 版使用者指南*
- *Dell EMC XC 系列 Hyperconverged 設備手冊*
- *Dell EMC VxRail 裝置系列手冊*
- *具有 Lifecycle Controller 的 Integrated Dell Remote Access Controller 8 使用者指南*
- *Integrated Remote Access Controller 7 使用者指南*
- *Dell EMC Chassis Management Controller for Dell PowerEdge M1000e 使用者指南*
- *Dell EMC Chassis Management Controller for Dell PowerEdge VRTX 使用者指南*
- *Dell EMC Chassis Management Controller for Dell PowerEdge FX2/FX2s 使用者指南*
- *Compellent SC-Series Storage Arrays 使用者指南*
- *EqualLogic PS-Series Storage Arrays 使用者指南*
- *PowerVault MD-Series Storage Arrays 使用者指南*
- *Dell EMC Network Switch 使用者指南*

另請參閱 www.nagios.org/documentation 瞭解任何 Nagios XI 相關說明文件。

Identifier	GUID-0F4F893B-386C-4D54-A620-7D19A86AB13D
Version	3
Status	Released

OMSDK Installation

OMSDK is available as a standard python package in `pypi.org`. You can install OMSDK using pip.

Installing OMSDK package:

Run the below command to Install OMSDK:

```
pip install omsdk==1.1.268
```

```
pip install omdrivers==1.1.268
```

Upgrading OMSDK package:

Run the below command to Upgrade OMSDK:

```
pip install omsdk --upgrade
```

```
pip install omdrivers --upgrade
```

Uninstalling OMSDK package:

Run the below command to Uninstall OMSDK:

```
pip uninstall omsdk
```

```
pip uninstall omdrivers
```