Dell EMC OpenManage Integration Version 1.0.0 with Microsoft Windows Admin Center

Installation Guide

DELLEMC

Notes, cautions, and warnings

ⓘ **NOTE: A NOTE indicates important information that helps you make better use of your product.**

⚠ **CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.**

⚠ **WARNING: A WARNING indicates a potential for property damage, personal injury, or death.**

Contents

Overview of OpenManage Integration with Microsoft Windows Admin Center

Dell EMC OpenManage Integration with Microsoft Windows Admin Center (OMIMSWAC) enables IT administrators to manage the PowerEdge servers as hosts, Microsoft Failover Clusters created with PowerEdge servers, and Hyper-Converged Infrastructure (HCI) created by using the Dell EMC Microsoft Storage Spaces Direct (S2D) Ready Nodes. OMIMSWAC simplifies the tasks of IT administrators by remotely managing the PowerEdge servers and clusters throughout their life cycle. For more information about the features and benefits of OMIMSWAC, see the documentation at Dell.com/OpenManageManuals.

Key features of OMIMSWAC

- OMIMSWAC provides a simplified solution to IT administrators to efficiently manage the following:
  - Dell EMC PowerEdge servers. See the "Manage Dell EMC PowerEdge Servers" section in the *Dell EMC OpenManage Integration with Microsoft Windows Admin Center User's Guide*.
  - Azure Stack HCI created with Dell EMC Microsoft Storage Spaces Direct Ready Nodes. See the "Manage Azure Stack HCI created with Microsoft Storage Spaces Direct Ready Nodes" section in the *Dell EMC OpenManage Integration with Microsoft Windows Admin Center User's Guide*.
  - Microsoft failover clusters created with Dell EMC PowerEdge servers. See the "Manage Microsoft failover clusters created with PowerEdge servers" section in the *Dell EMC OpenManage Integration with Microsoft Windows Admin Center User's Guide*.
- A unified view of health, hardware, and firmware inventory information of the device components.
- Provides update compliance report of PowerEdge servers and clusters against update repository that is created with Dell EMC Repository Manager (DRM).
- Provides notifications on availability of new update catalogs.
- View iDRAC information of PowerEdge servers. For out-of-band management, you can directly launch the iDRAC console from Windows Admin Center.
- Availability of OMIMSWAC GUI and documentation in English, French, German, Spanish, Simplified Chinese, and Japanese languages.

Topics:

- Additional resources

Additional resources

Table 1. Additional resources

Document	Description	Availability
Dell EMC OpenManage Integration with Microsoft Windows Admin Center User's Guide	Provides information about using OpenManage Integration with Microsoft Windows Admin Center.	1. Go to Dell.com/OpenManageManuals. 2. Select **OpenManage Integration with Microsoft Windows Admin Center**. 3. Click **DOCUMENTATION** > **MANUALS AND DOCUMENTS** to access these documents.
Dell EMC OpenManage Integration with Microsoft Windows Admin Center Release Notes	Provides information about new features, known issues and workarounds in OpenManage Integration with Microsoft Windows Admin Center .	
Microsoft Windows Admin Center documentation	For more information about using Microsoft Windows Admin Center.	https://www.microsoft.com/en-us/cloud-platform/windows-admin-center

Compatibility matrix

Table 2. Compatibility matrix

Supported software and hardware	Version
Microsoft Windows Admin Center	1904 and 1904.1 GA releases. See the Microsoft Windows Admin Center documentation at https://www.microsoft.com/en-us/cloud-platform/windows-admin-center.
Operating systems	For more information about the supported OSs for installing Microsoft Windows Admin Center and different modes of installation, see the Microsoft Windows Admin Center documentation at https://www.microsoft.com/en-us/cloud-platform/windows-admin-center. ⓘ **NOTE: To view the update compliance details of the devices by using OpenManage Integration version 1.0.0 with Windows Admin Center, the supported OS is Microsoft Windows 2012 R2 and later.**
Browsers	For more information about the supported browsers by Microsoft Windows Admin Center, see the Microsoft Windows Admin Center documentation at https://www.microsoft.com/en-us/cloud-platform/windows-admin-center.
Dell EMC System Update Utility (DSU) The **Systems-Management_Application_DVHNP_WN64_1.7.0_A00.EXE** DSU file can be downloaded from here.	1.7.0
Dell EMC Inventory Collector (IC) The IC utility can be downloaded from here.	19_04_200_472
PowerEdge servers as target nodes	12th and 13th generation of PowerEdge servers with latest iDRAC firmware version (recommended firmware version is 2.60.60.60 or later). ⓘ **NOTE: For PowerEdge servers with firmware versions lesser than 2.60.60.60, information of hardware inventory and health status of few components might not be available. For more information about the components for which the information is not available, see** *Dell EMC OpenManage Integration with Microsoft Windows Admin Center User's Guide.* 14th generation of PowerEdge servers with latest iDRAC firmware version (recommended firmware version is 3.30.30.30 or later).
Storage Spaces Direct Ready Nodes as target nodes	R740xd, R740xd2, and R640 Storage Spaces Direct Ready Nodes

Installing Dell EMC OpenManage Integration with Microsoft Windows Admin Center

The Dell EMC OpenManage Integration with Microsoft Windows Admin Center can be installed in one of the following methods:

- By using the NuGet feed of Microsoft Windows Admin Center. See Install Dell EMC OpenManage Integration with Microsoft Windows Admin Center by using the NuGet feed.
- By using a local path or a network share as package source for installation. See Install Dell EMC OpenManage Integration with Microsoft Windows Admin Center by using local path or network file share.

ⓘ **NOTE: If you are installing Dell EMC OpenManage Integration with Windows Admin Center extension by using the Custom Feed option, see the Microsoft documentation to set up a custom feed or share.**

Topics:

Download Dell EMC OpenManage Integration with Microsoft Windows Admin Center

1. Go to Dell.com/support.
2. Perform one of the following actions:
    - Enter the Service Tag of your PowerEdge server, and then select **Search**.
    - Select **Browse all products** > **Servers** > **PowerEdge**, and then select the appropriate model of your PowerEdge server.
3. On the support page of your server, select **DRIVERS & DOWNLOADS**.
4. From the **Category** list, select **Systems Management**.
5. Select the supported version of OpenManage Integration with Microsoft Windows Admin Center, and then click **Download**.

The downloaded `Dell_EMC_OpenManage_Integration_MS_WAC_<Version>.<Build_Number>.zip` file contains the .nupkg file which is used to install OMIMSWAC integrator in Windows Admin Center by using a local path or network share.

ⓘ **NOTE: Do not rename the .nupkg file while installing the OMIMSWAC extension.**

Install Dell EMC OpenManage Integration with Microsoft Windows Admin Center by using the NuGet feed

Before you install Dell EMC OpenManage Integration extension in Windows Admin Center by using the NuGet feed, ensure that you have:

- Logged in to Windows Admin Center as a gateway administrator.

To install Dell EMC OpenManage Integration extension by using the NuGet feed:

1. In the Windows Admin Center application, in the upper right corner, select **Settings**.
2. Under **GATEWAY**, click **Extensions**.

    In the **Available extensions** tab, the Dell EMC OpenManage Integration extension is listed.

3. Select **Dell EMC OpenManage Integration** extension, click **Install**, and then click **Confirm** to confirm the changes and to install the extension.

After the Dell EMC OpenManage Integration extension is installed, Windows Admin Center is restarted, and the extension is listed under **Installed extensions**.

Install Dell EMC OpenManage Integration with Microsoft Windows Admin Center by using local path or network file share

Before you install Dell EMC OpenManage Integration extension in Windows Admin Center by using a local path or a network file share, ensure that you have:

- Logged in to Windows Admin Center as a gateway administrator.
- Downloaded and extracted the OpenManage Integration with Microsoft Windows Admin Center .zip file from the Dell EMC support site.

To install Dell EMC OpenManage Integration extension by using a local or network file share:

1. In the Windows Admin Center application, in the upper right corner, select **Settings**.
2. Under **GATEWAY**, click **Extensions**.
3. Select **Feeds** > **Add**.
4. In the Add package source window, enter the local path or network file share where you have extracted the .zip file. Example paths: `C:\<foldername>`, `\\sharename\foldername`.

   ⓘ **NOTE: Do not rename the .nupkg file in the extracted folder.**

   ⓘ **NOTE: You must set read and write permissions to the local or network file location.**

5. Click **Add**.
   If the extension is successfully added, the extension is listed under the **Available Extensions** tab.
6. Select **Dell EMC OpenManage Integration** extension, click **Install**, and then click **Confirm** to confirm the changes and to install the extension.

After the Dell EMC OpenManage Integration extension is installed, Windows Admin Center is restarted, and the extension is listed under **Installed extensions**.

ⓘ **NOTE: While installing OMIMSWAC by using local path or network path, multiple instances of OMIMSWAC extension might be listed under Available and Installed Extensions, when:**

- **More than one .nuget packages are available in the specified folder path.**
- **The .nuget packages are available in root or subfolders in addition to the folder path provided under Feeds > Add package source.**

Launching OpenManage Integration with Microsoft Windows Admin Center

After installing the OpenManage Integration with Microsoft Windows Admin Center (OMIMSWAC), perform the following actions to launch the extension:

1. In the upper left corner of Windows Admin Center, select **Server Manager**, **Hyper-Converged Cluster Manager**, or **Failover Cluster Manager** from the drop-down menu.
2. From the list, select a server or cluster connection, and then click **Connect**.
3. Provide the server or cluster credentials.

   ⓘ **NOTE: If you are not prompted to enter the credentials, ensure that you select "Manage as" and provide appropriate Server Administrator or Cluster Administrator accounts.**

4. In the left pane of the Microsoft Windows Admin Center, under **EXTENSIONS**, click **Dell EMC OpenManage Integration**.

ⓘ **NOTE: If Microsoft Windows Admin Center is installed on a target node and the target node is managed by OMIMSWAC, the inventory fetch functionality of OMIMSWAC may result in failures.**

Before connecting to the target node, ensure that you select "Manage as" and provide appropriate Server Administrator or Cluster Administrator accounts. For more information about selecting "Manage as", see the "Get Started with Windows Admin Center" section in the Microsoft documentation.

When you launch the OpenManage Integration for the first time, a consent form is displayed to inform you about the operations performed by the OpenManage Integration such as enabling the USB NIC and creating an iDRAC user on the target node. Click Accept to continue to manage the PowerEdge servers by using the OpenManage Integration.

ⓘ **NOTE: After the information from the managed nodes is collected, if the USB NIC is enabled by OMIMSWAC then it is disabled and the previously created iDRAC user is deleted by OMIMSWAC.**

To ensure proper functioning of OpenManage Integration with Microsoft Windows Admin Center, ensure that:

- Firewall in your enterprise environment enables communication through SMB port 445.
- Redfish service is enabled on the target node.
- An iDRAC user slot is available on the target node.
- Ensure that the target node is not booted to Lifecycle Controller.
- Target node is not in the reboot state, or is powered-off.
- The USB NIC adapter is not disabled on the target node OS.
- The lockdown mode is disabled on target node.

ⓘ **NOTE: For management of PowerEdge servers, OMIMSWAC uses an internal OS to iDRAC Pass-through interface. By default, iDRAC will be reachable using the IP address 169.254.0.1/<Subnet> or 169.254.1.1/<Subnet>. However, if the host has another network interface in the same subnet (For example, when tool like VMFleet is installed), OMIMSWAC might not be able to communicate to the iDRAC from the host OS. To resolve the conflict, log in to iDRAC and change the USB NIC IP address under the OS to iDRAC passthrough section. For more information about assigning this IP address, see the iDRAC documentation on the Dell EMC support site.**

For more information about using and configuring the OpenManage Integration with Microsoft Windows Admin Center extension, see *Dell EMC OpenManage Integration with Microsoft Windows Admin Center User's Guide* on the Dell EMC support site.

Uninstall Dell EMC OpenManage Integration with Microsoft Windows Admin Center

1. In the Windows Admin Center application, in the upper right corner, select **Settings**.
2. Under **GATEWAY**, click **Extensions**.
3. In the **Installed extensions** tab, select the **Dell EMC OpenManage Integration** integration, and then click **Uninstall**.
4. Click **Confirm** to proceed with the uninstallation of the extension.

After the Dell EMC OpenManage Integration extension is uninstalled, Windows Admin Center is restarted, and the extension is listed under **Available extensions**.

(i) **NOTE: After OpenManage Integration with Windows Admin Center is uninstalled, the update tool settings will be retained in the Windows Admin Center instance. However, the passwords are not retained.**

Contacting Dell EMC

ⓘ **NOTE: If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell EMC product catalog.**

Dell EMC provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area. To contact Dell EMC for sales, technical support, or customer service issues:

1. Go to **Dell.com/support.**
2. Select your support category.
3. Verify your country or region in the **Choose a Country/Region** drop-down list at the bottom of the page.
4. Select the appropriate service or support link based on your need.