



Lenovo XClarity Integrator for Microsoft Windows Admin Center Quick Start Guide



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Contents

Contents i

Chapter 1. Get started with Lenovo XClarity Integrator for Microsoft Windows Admin Center 1

Install Windows Admin Center and Lenovo XClarity Integrator for Windows Admin Center extension 1

Installing Lenovo XClarity Integrator from a local file system/shared folder 1

Configure HTTP Proxy 2

Manage credentials 2

Check firmware/driver updates 3

Manage Windows servers in Server Manager 3

Manage cluster nodes in Cluster Manager 3

Update firmware/drivers when creating an Azure Stack HCI cluster. 3

Update firmware/drivers with the Cluster-Aware Updating tool in Cluster Manager 4

Use the Lenovo XClarity Integrator extension 4

Report problems to Lenovo 5

Chapter 2. Key functions 7

Chapter 3. Web resources 9

Appendix A. Notices. 11

Trademarks 12

Important notes. 12

Chapter 1. Get started with Lenovo XClarity Integrator for Microsoft Windows Admin Center

This Quick Start Guide instructs users to get started with Lenovo XClarity Integrator for Microsoft Windows Admin Center, so that they can manage their servers in an easy way. Using this guide, you will know how to do the following:

- “Install Windows Admin Center and Lenovo XClarity Integrator for Windows Admin Center extension” on page 1
- “Installing Lenovo XClarity Integrator from a local file system/shared folder” on page 1
- “Configure HTTP Proxy” on page 2
- “Manage credentials” on page 2
- “Check firmware/driver updates” on page 3
- “Manage Windows servers in Server Manager” on page 3
- “Manage cluster nodes in Cluster Manager” on page 3
- “Update firmware/drivers when creating an Azure Stack HCI cluster” on page 3
- “Use the Lenovo XClarity Integrator extension” on page 4
- “Report problems to Lenovo” on page 5

Install Windows Admin Center and Lenovo XClarity Integrator for Windows Admin Center extension

Procedure

- Step 1. Install Microsoft Windows Admin Center. Refer to [Windows Admin Center official website](#).
- Step 2. Install Lenovo XClarity Integrator for Microsoft Windows Admin Center.
 - a. Log in to Windows Admin Center.
 - b. Click the settings icon in the top right corner. The Settings page is displayed.
 - c. On the Settings page, click **Extensions** in the left navigation pane. The **Extensions** pane is displayed.
 - d. On the **Extensions** pane, click the **Available extensions** tab.
 - e. On the **Available extensions** tab, select **Lenovo XClarity Integrator** from the list. The license information will be displayed.
 - f. Read the license information. If you accept the license information, click **Install**.


Note: If an earlier version of Lenovo XClarity Integrator for Microsoft Windows Admin Center has been installed, remove it and install a later version, or upgrade it.

Installing Lenovo XClarity Integrator from a local file system/shared folder

This section describes how to install Lenovo XClarity Integrator from a local file system folder or a local shared folder.

Procedure

- Step 1. Download the installation package (Invgy_sw_xclarity_integrator_for_wac.*.nupkg) from the windows-admin-center-feed site or Lenovo WAC home page.
- Step 2. Put the installation package into a local file system folder or a local shared folder. For example, c:\lenovo\, //localhost/sharedFolder.

- Step 3. Log in to Windows Admin Center.
- Step 4. Click the settings icon  in the top right corner. The Settings page is displayed.
- Step 5. On the Settings page, click **Extensions** in the left navigation pane.
- Step 6. In the **Extensions** pane:
- Click the **Feeds** tab and click **Add**
 - Input the shared folder path, and click **Add**.
- Step 7. Return to the **Extensions** pane:
- Click the **Available extensions** tab.
 - On the **Available extensions** tab, select **Lenovo XClarity Integrator** from the list. The license information will be displayed.
 - Read the license information. To accept the license information, click **Install**.
 - When the “Install this extension?” window is displayed, click **Confirm** to continue. When a notification prompts Lenovo XClarity Integrator is installed, users can work with Lenovo XClarity Integrator.

Configure HTTP Proxy

Ensure Internet connectivity on the Windows system to be installed with the Lenovo XClarity Integrator extension. Alternatively, configure Proxy in the Lenovo XClarity Integrator extension.

Procedure

- Step 1. In the Lenovo XClarity Integrator extension, click the more icon in the top right corner. A menu is displayed.
- Step 2. In the menu, click **Settings**.
- Step 3. On the Internet Access page:
- Enable HTTP Proxy.
 - Specify the Proxy server host and port.
 - If authentication is enabled, specify the username and password.
 - Click **Test URL**.
A success message will be displayed if the Internet access test passes.
 - Click **Apply**.

Note: Internet connectivity is critical to lots of functions.

Manage credentials

Procedure

- Step 1. In the Lenovo XClarity Integrator extension, click the more icon in the top right corner. A menu is displayed.
- Step 2. In the menu, click **Settings → Credential Manager**.
- Step 3. On the Credential Manager page, you can add, edit, or delete a credential.

Note: The settings in this page influence the settings on the Report Problem page and the alert bar in any of Lenovo extensions.

Check firmware/driver updates

Procedure

- Step 1. In the Lenovo XClarity Integrator extension, click the repository icon in the top right corner. The System Updates Repository page is displayed.
- Step 2. Choose **...(More icon) → Select Machine Types** from the action bar to select machines types of your servers if they are not listed in the product catalog.
- Step 3. Click the refresh catalog button to check online system update packages.

Manage Windows servers in Server Manager

Procedure

- Step 1. Open Server Manager of Windows Admin Center, and then select a server to enter its management page.
- Step 2. In the left navigation pane of the server page, click **Lenovo XClarity Integrator** or **XC**.
- Step 3. Choose either of the following management methods to continue:
 - If no Lenovo XClarity Administrator is available, choose **Native OS Management** and then click **Take me there** to open the management dashboard.
 - Choose **Lenovo XClarity Administrator**. (Refer to [“Use the Lenovo XClarity Integrator extension” on page 4](#)).The Summary page of the managed server is automatically displayed.
- Step 4. On the Summary page, manage the server as required.

Manage cluster nodes in Cluster Manager

Procedure

- Step 1. Open Cluster Manager of Windows Admin Center, and then select a cluster to enter its management page.
- Step 2. In the left navigation pane of the server page, click **Lenovo XClarity Integrator** or **XC**.
- Step 3. Choose either of the following management methods to continue:
 - If no Lenovo XClarity Administrator is available, choose **Native OS Management** and then click **Take me there** to open the management dashboard.
 - Choose **Lenovo XClarity Administrator**. (Refer to [“Use the Lenovo XClarity Integrator extension” on page 4](#)).The Dashboard page of the managed cluster is automatically displayed.
- Step 4. On the Dashboard page, manage the cluster nodes as required.

Update firmware/drivers when creating an Azure Stack HCI cluster

Procedure

- Step 1. Open the Azure Stack HCI cluster deployment wizard, complete all required steps until the **Install hardware updates** step, and then click **Get updates**.
- Step 2. Choose either of the following management methods to continue:
 - If no Lenovo XClarity Administrator is available, choose **Native OS Management** (recommended) and then click **Take me there** to open the system update wizard.
 - Choose **Lenovo XClarity Administrator**. (Refer to [“Use the Lenovo XClarity Integrator extension” on page 4](#)).

The system update wizard of the managed cluster is automatically displayed.

- Step 3. Select any of the following update methods:
- Click **Best Recipes (Recommended)**, select a best recipe, which includes a firmware and device driver bundle predefined for Lenovo ThinkAgile MX certified servers.
 - Click **Compliance Policies**, select a policy.
 - Click **Latest Updates**, select a firmware/driver update.
- Step 4. Follow the wizard to complete the update procedure.

Update firmware/drivers with the Cluster-Aware Updating tool in Cluster Manager

Procedure

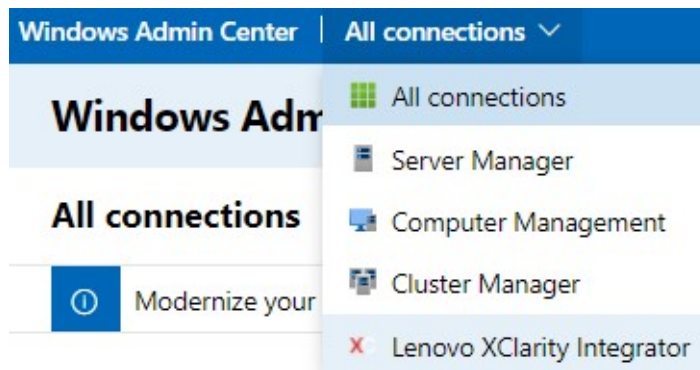
- Step 1. Open Cluster Manager of Windows Admin Center, and then select a cluster to enter its management page.
- Step 2. In the left navigation pane of the cluster page, click **Updates**.
- Step 3. In the Updates page, select one or more target quality updates and click **Install**.
- Note:** If there is no available quality updates, hardware updates cannot be installed in CAU tool.
- Step 4. Choose either of the following management methods to continue:
- If no Lenovo XClarity Administrator is available, choose **Native OS Management** (recommended) and then click **Take me there** to open the system update wizard.
 - Choose **Lenovo XClarity Administrator**. (Refer to [“Use the Lenovo XClarity Integrator extension” on page 4](#)).
- The system update wizard of the managed cluster is automatically displayed.
- Step 5. Select any of the following update methods:
- Click **Best Recipes (Recommended)**, select a best recipe, which includes a firmware and device driver bundle predefined for Lenovo ThinkAgile MX certified servers.
 - Click **Compliance Policies**, select a policy.
 - Click **Latest Updates**, select a firmware/driver update.
- Step 6. Follow the wizard to complete the update procedure.

Use the Lenovo XClarity Integrator extension

In the previous sections, Native OS management is recommended for server management tasks. Alternatively, Lenovo XClarity Administrator is a second approach as a dependence for server management, especially in case of large-scale deployment of Lenovo servers.

Procedure

- Step 1. Deploy Lenovo XClarity Administrator by referring to [Lenovo XClarity Administrator Updates](#), configure the management network, and assign IP addresses to Lenovo XClarity Administrator appliance and the XCC/IMM of Lenovo servers.
- Step 2. Register Lenovo XClarity Administrator in Lenovo XClarity Integrator.
- a. In Windows Admin Center, select **Lenovo XClarity Integrator** from the drop-down list in the top left corner to open the Lenovo XClarity Integrator extension.



- b. On the All Connections page, click **Add** and select **Connect to a Lenovo XClarity Administrator**.
- c. Input the IP address, username, and password of the Lenovo XClarity Administrator you have deployed, and then click **Submit**.

Note: Ensure that the user account provided has enough permissions to perform desired operations. For the first user or test, grant the user account the lxc-supervisor role.

After the Lenovo XClarity Administrator is connected, servers being managed by it will be listed.


Step 3. Manage Lenovo servers.

- a. On the All Connections page, click **Add** and select **Manage Lenovo Rack or Tower Servers**.
- b. Select a Lenovo XClarity Administrator to manage Lenovo servers with it.
- c. Input the XCC/IMM IP address, username, and password, and then click **Manage**.

Note: This operation requires some time. To check the progress, click the notification icon in Windows Admin Center. Lenovo XClarity Administrator usually takes some time (15 minutes) to collect inventory or health status data from the server before it becomes fully available. The server successfully managed will be listed under the Lenovo XClarity Administrator.

Report problems to Lenovo

Procedure

Step 1. In any of Lenovo extensions, click the more icon  on the top right corner, and then click **Call Home** from the menu.

Step 2. Do one or more of the following:

- On the Call Home Contact page, you can add or delete the contact, set the primary contact, check the details of a contact, and sort the contact list.
- On the Report Problem page, you can submit your problem and attach relevant files.

Notes:

- This feature is only supported when connecting servers or clusters through native OS management mode or LXCA.
- LXCI automatically collects the required logs and data, and uploads them to Lenovo, including Server Service Data, Cluster Diagnostic Data, Windows Admin Center Log, and Lenovo XClarity Integrator Log. LXCI will automatically retry if any log or data collection is failed.
- On the Service Ticket page, you can delete or search tickets, attach the file or note for a ticket, export, customize, refresh, or sort the ticket list, check or hide the details of the specific ticket, and manually upload the data or log failed to be uploaded in the past 30 days.

- On the Settings page, you can enable or disable the automatic reporting function, add, edit, or remove a host or cluster to be monitored, test the accessibility between the host or cluster and the credential, and enable or disable one or more rules for automatic problem reporting.

Chapter 2. Key functions

The following lists the key functions of Lenovo XClarity Integrator for Microsoft Windows Admin Center.

Cluster Hardware Health Status

- Overall nodes status
- Status alerts
- Firmware consistency status report
- Power consumption
- System temperature
- Fans and power supply health status

Server Inventory & Alerts

- Server summary and operations including remote control, power on/off, and links to XCC/IMM portal
- Server inventory, including available firmware/ driver updates
- Server alerts

System Update

- Update repository management
- Firmware update for bare metal servers
- Firmware/driver update for Windows servers
- Cluster-aware firmware/driver update for clusters
- Firmware/driver update based on Lenovo-predefined best recipe for Azure HCI clusters running on ThinkAgile MX appliances or certified nodes
- Firmware update based on Lenovo XClarity Administrator compliance policies
- Firmware/driver update history
- Firmware/driver update jobs retry

ThinkAgile MX Lifecycle Management

- Firmware/driver update for the Azure Stack HCI cluster deployment scenario
- Firmware/driver update for the Azure Stack HCI Cluster-Aware Updating (CAU) scenario

Disk Manager

- Graphic front/rear view of Lenovo ThinkAgile MX certified nodes
- Azure HCI cluster node servers
- Display of overall storage pool, drive, and server information
- Operations on servers, including turning on or turning off the location LED
- Operations on drives, including turning on or turning off the location LED, replacing a drive in a storage pool, adding a drive to a storage pool, and removing a drive from a server

Processor Core Tuning

- Enable/disable processor cores for ThinkAgile MX appliances or certified nodes

Report Problem to Lenovo

- Manually report problems to Lenovo
- Automatically report problems to Lenovo

Chapter 3. Web resources

The following Web sites provide the resources for understanding, using, and troubleshooting Lenovo XClarity Integrator for Microsoft Windows Admin Center.

Lenovo XClarity Systems Management home page

- <https://www.lenovo.com/us/en/data-center/software/management/>

Lenovo XClarity Integrator for Windows Admin Center home page

- <https://support.lenovo.com/us/en/solutions/ht507549>

Lenovo XClarity Integrator for Windows Admin Center User Guide

- https://sysmgmt.lenovofiles.com/help/topic/com.lenovo.lxci_wac.doc/wac_welcome.html

Lenovo XClarity Integrator extension page in the Microsoft documentation center

- <https://docs.microsoft.com/en-us/windows-server/manage/windows-admin-center/extend/case-studies/lenovo>

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