ASUS Edge Suite

Software User Guide

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1. Introduction

1.1 ASUS Edge Suite

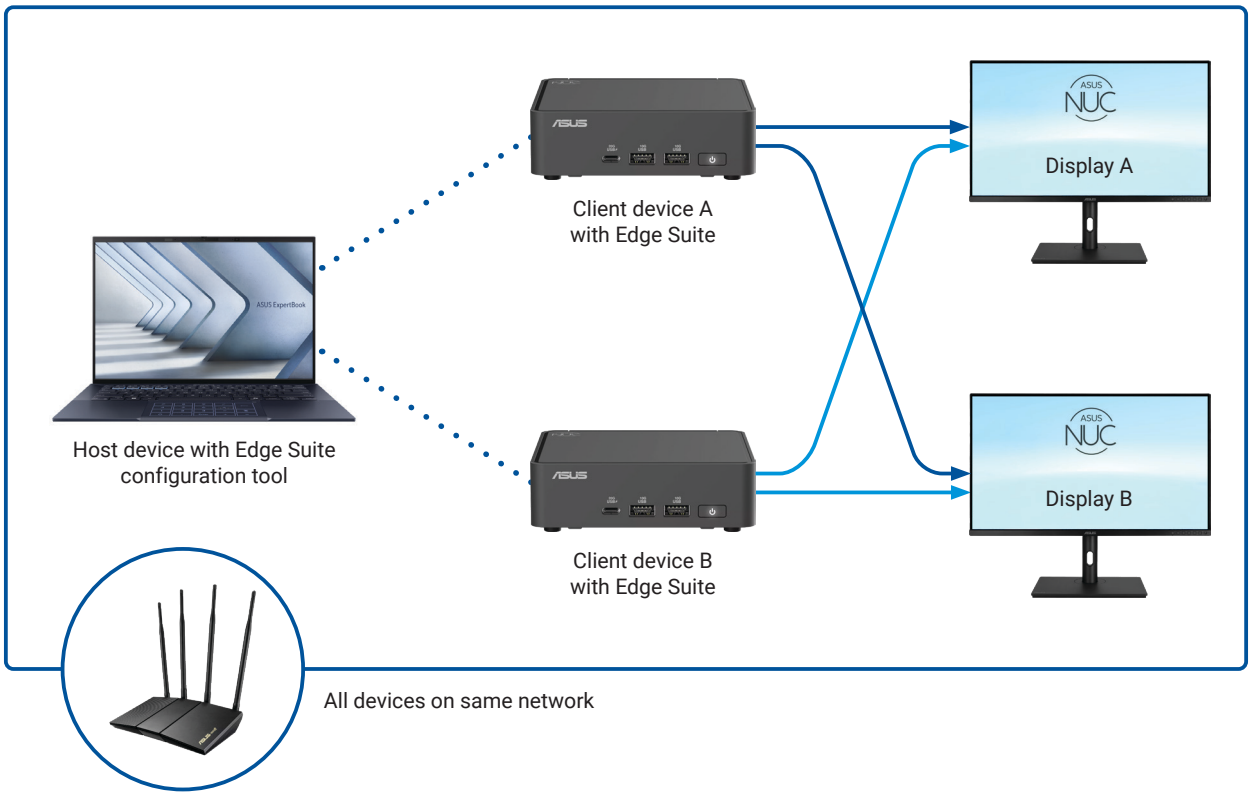
ASUS Edge Suite monitors unattended applications and provides redundant screen services for digital signage applications. Key capabilities include:

- Terminate and relaunch unresponsive applications.
- Gracefully shut down or restart the operating system after an application has failed a certain number of times.
- Log application monitoring events to an easily accessible log file.
- Configure hardware watchdog timers to execute hard system resets if an application causes the system to become unresponsive.
- Manage failover devices when a given device goes down due to power or network failures.
- Perform hardware diagnostics on the HDMI-CEC WMI exposed by the ACPI BIOS.
- Monitor remote server information and connectivity status.

1.2 ASUS Edge Suite configuration tool

For player failover functionality, the ASUS Edge Suite configuration tool must be installed on a host device. It provides step-by-step instructions to configure the target devices and the shared display devices.

1.3 Player failover topology



1.4 Hardware and network requirements

Host and client devices

- A host device with the Edge Suite configuration tool installed.
- Up to four client devices with Edge Suite support.
- The latest BIOS update should be installed on all client devices.
- A keyboard and mouse is needed for all host and client devices during Edge Suite configuration tool setup.
- Supported operating systems are Windows 10 IOT Enterprise LTSC 2021, Windows 11 Pro 25H2, and Ubuntu 24.04 LTS (kernel versions 6.14.0-37-generic).

NOTE: Refer to https://www.asus.com/np/support/faq/1056681/ for the latest list of supported devices.

Display

- Use display devices with HDMI ports that support the HDMI CEC specification.
- For best results, use display devices with the same resolution, brand, and model.
- Use HDMI cables compliant with HDMI specification 2.0 or later.

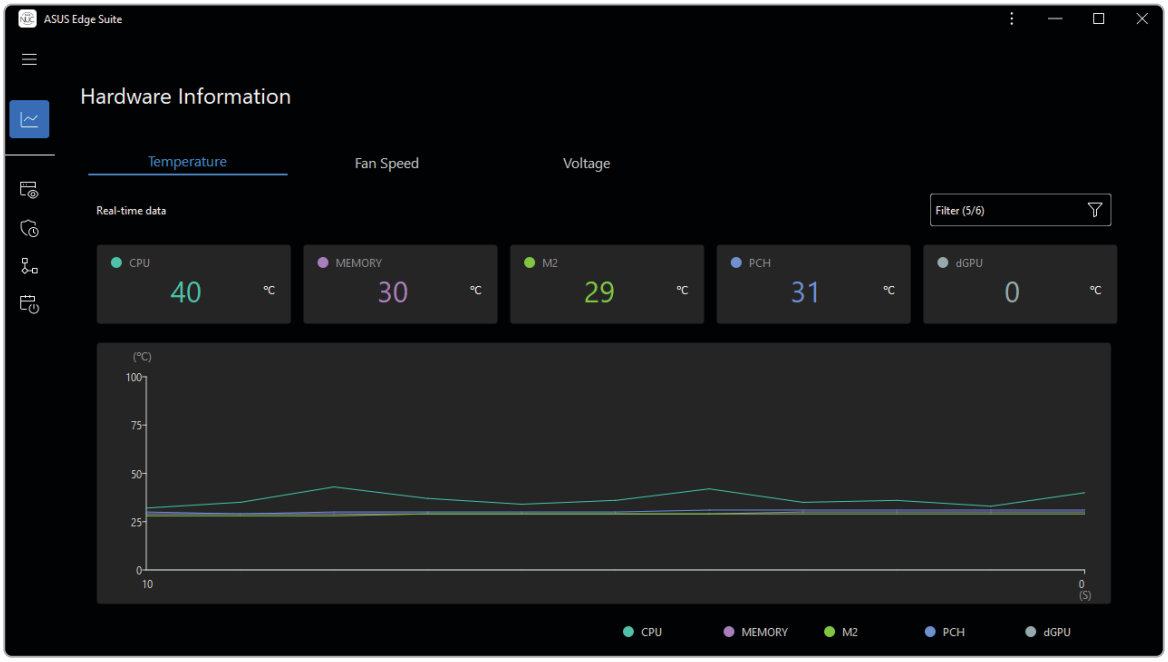
Networking

- The host and client devices must be connected to a managed network environment with an active router. This can be a wired or wireless connection to the same router or switch. Non-managed passive hubs or switches are not supported.
- The host and client devices must be on the same IPv4/IPv6 network and subnet.
- The router must use the TCP network protocol with DHCP enabled to dynamically assign TCP IP addresses. Static (non-DHCP) IP addresses are not supported.
- Wi-Fi hotspots (such as from mobile devices) are not supported as the hotspot may block multicast P2P packets required for Edge Suite communication.
- Ensure that the router or switch does not block or filter multicast P2P packets.
- Ensure that the LAN/WLAN connection is set to Private Network in the Network and internet settings on host and client devices.
- Ensure that the firewall settings are properly configured to not block Edge Suite communication on host and client devices.

2. ASUS Edge Suite

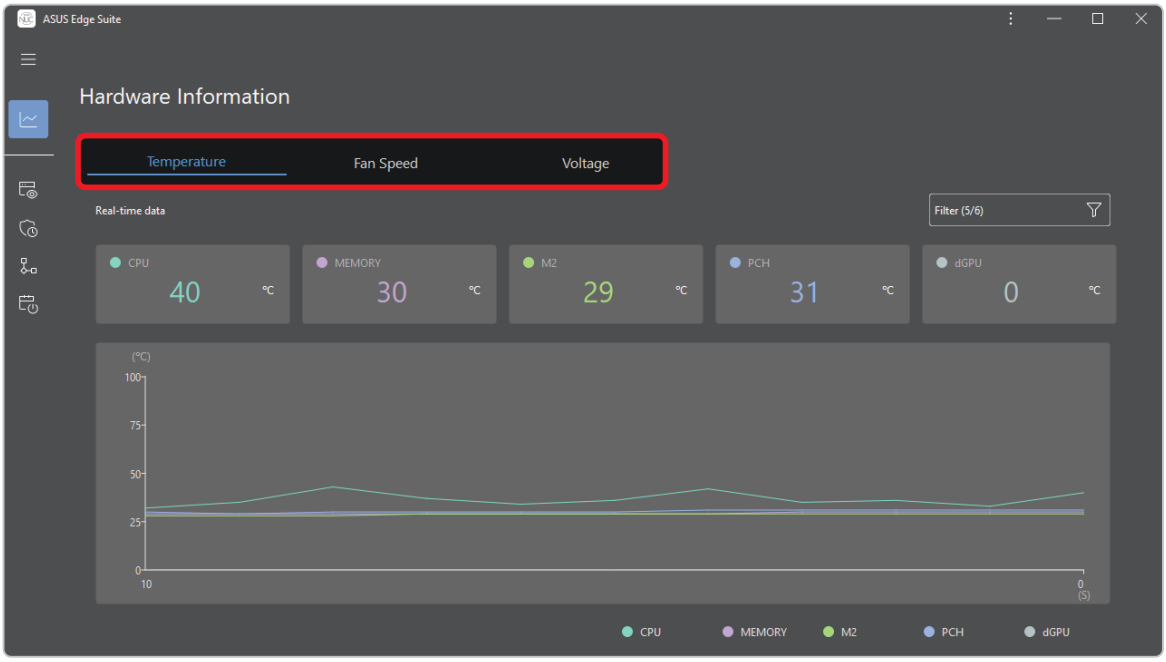
2.1 Hardware information

This panel shows data from the temperature, fan speed, and voltage sensors.



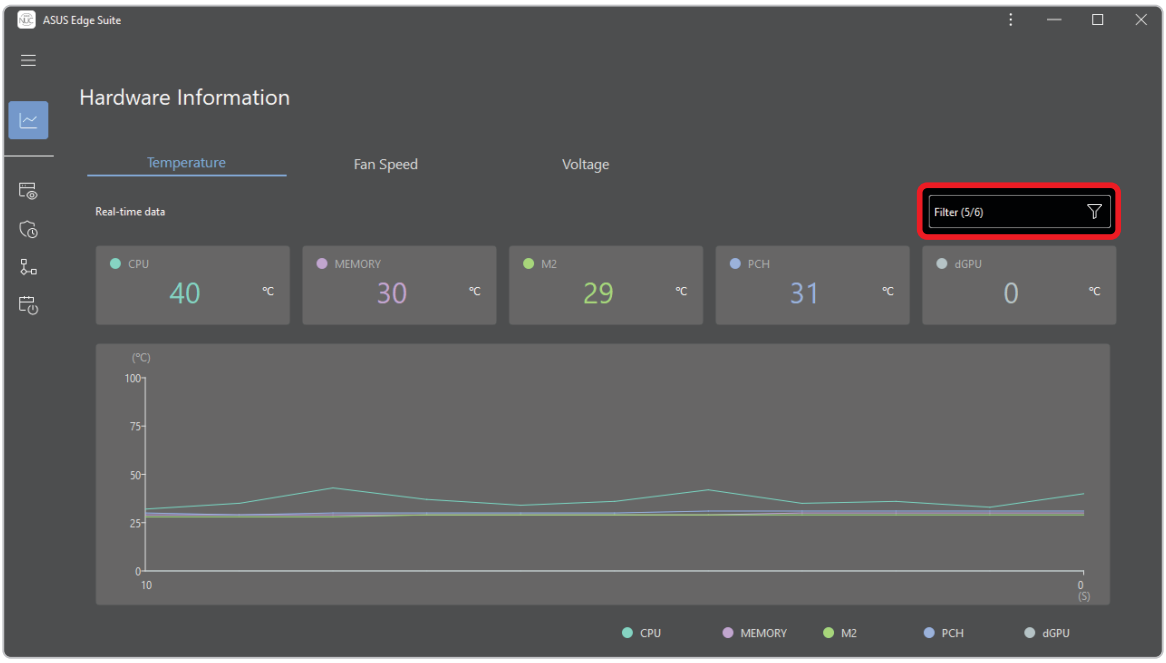
2.1.1 Switch between sensor categories

Click a tab to switch between sensor categories.

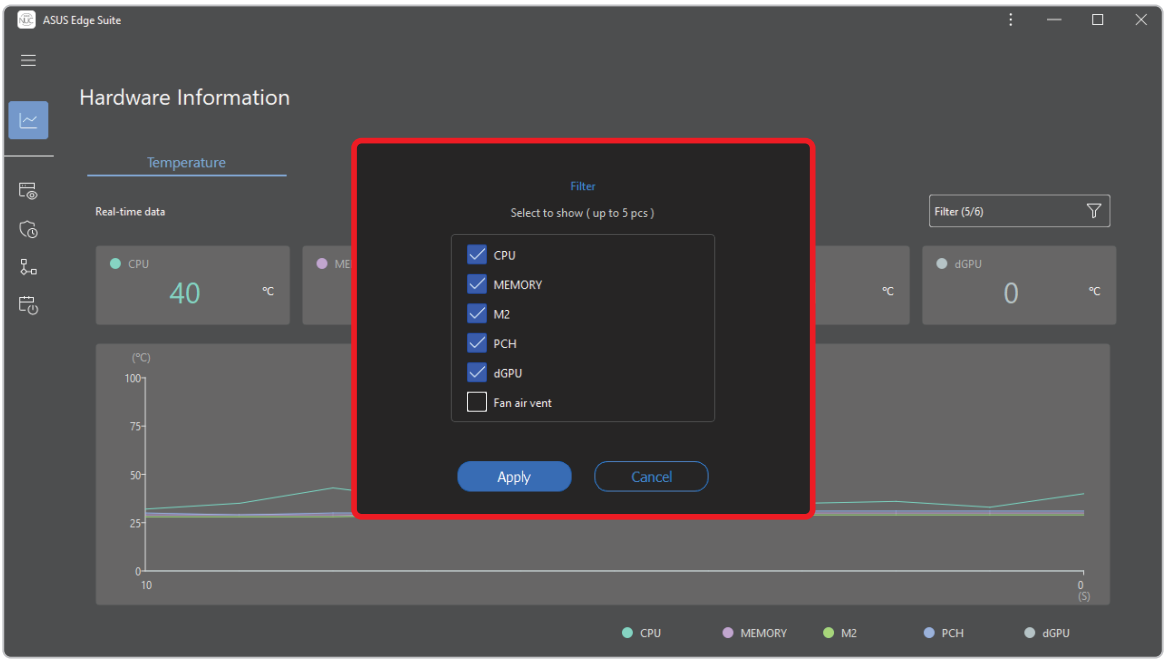


2.1.2 Show or hide individual sensor data

1. Click **Filter**.

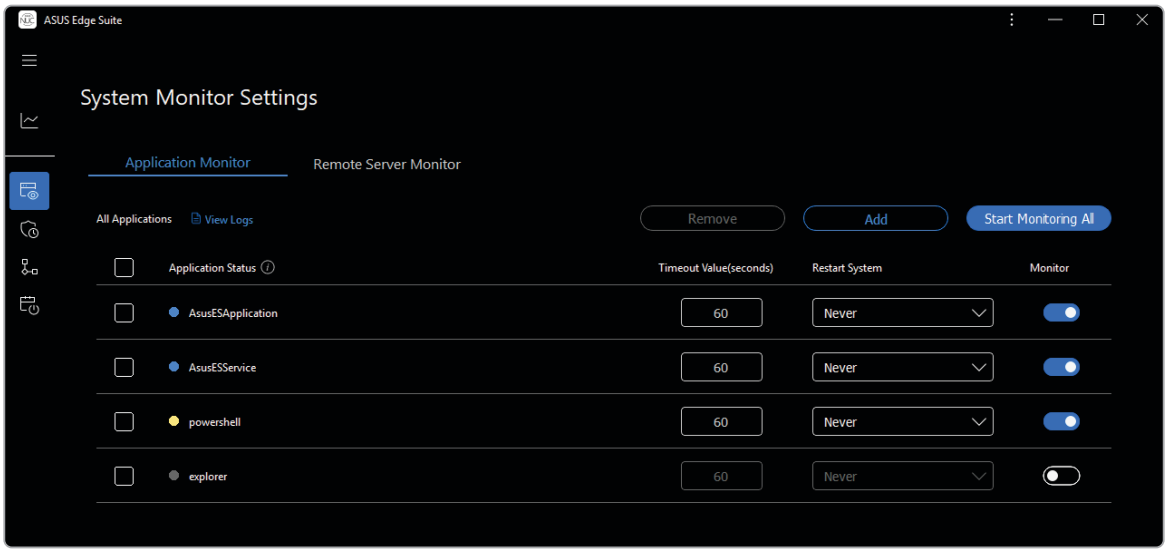


2. In the pop-up window, select up to five sensors and click **Apply**.

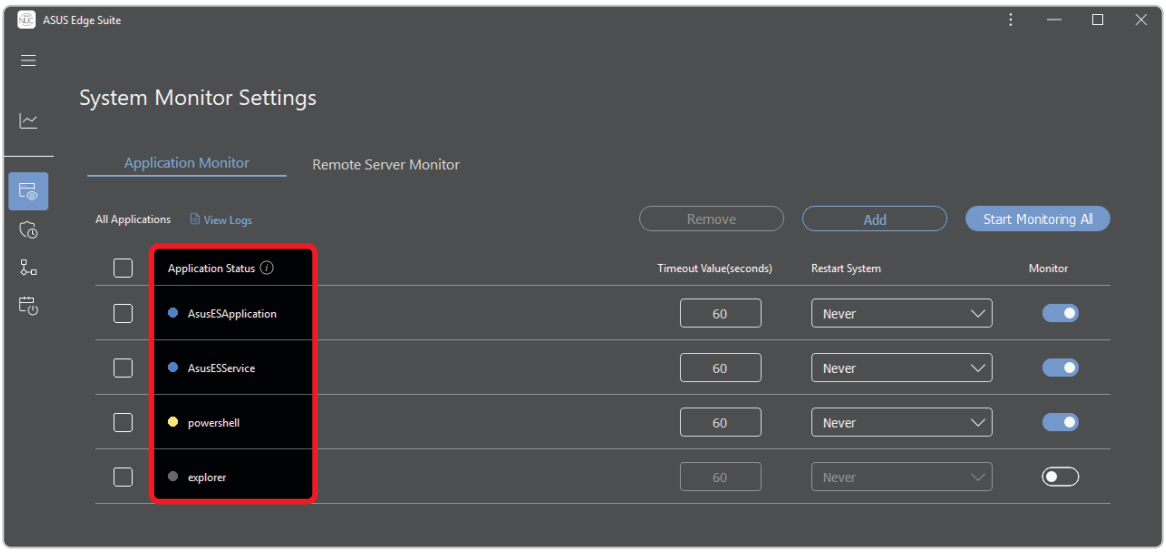


2.2 Application monitor

This tab lets you view and manage application monitoring.



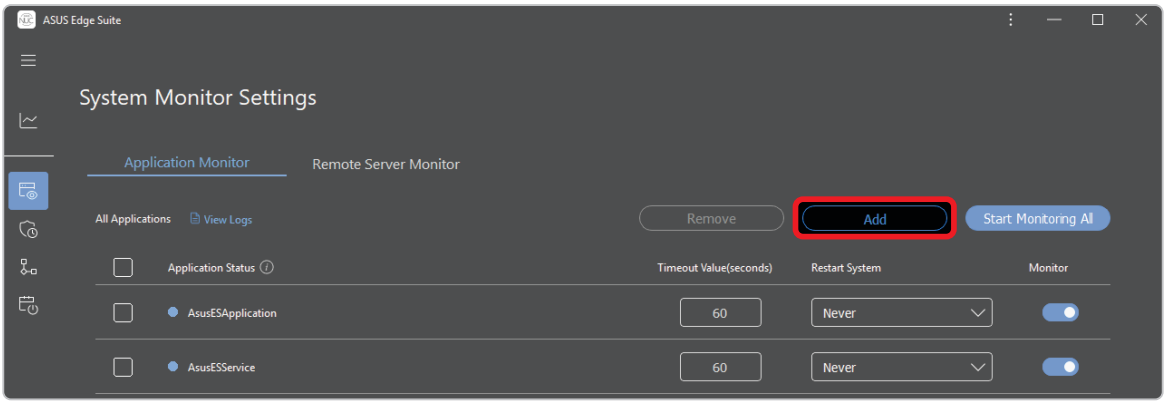
2.2.1 Status indicators



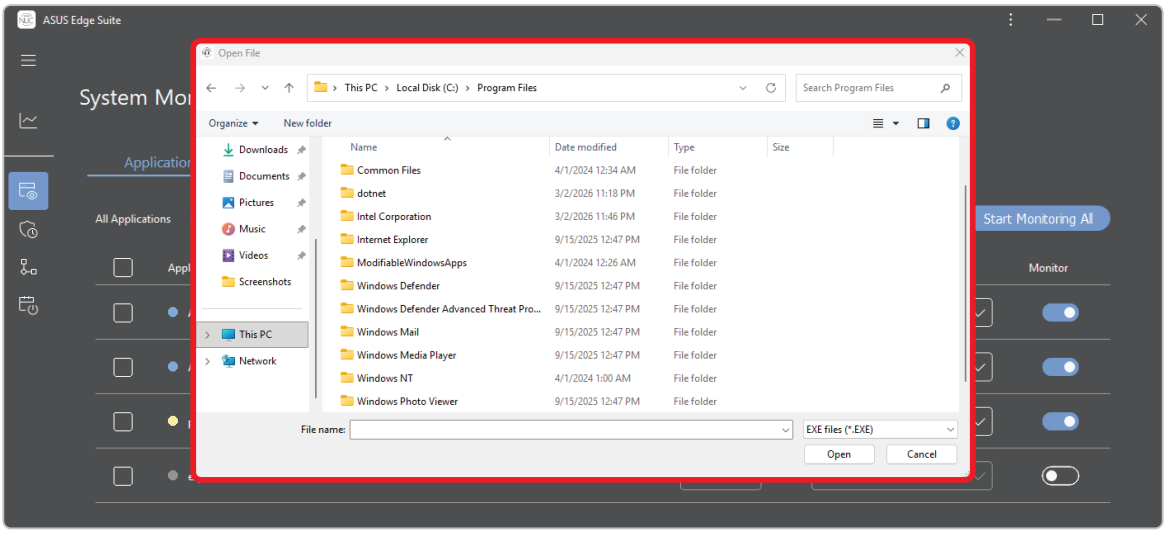
Status indicator	Description
Running	Application is running.
Not running	Application is not running.
Not responding	Application has encountered an error or is not responding.
Not monitored	Monitoring is disabled for this application.

2.2.2 Add an application

1. Click **Add**.

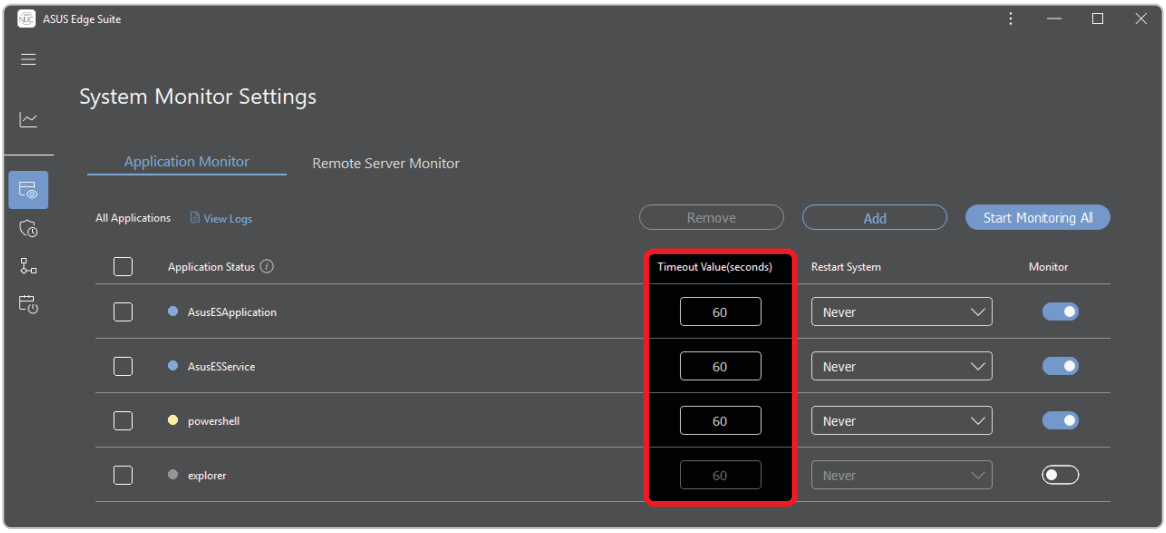


2. Select an application, then click **Open**.



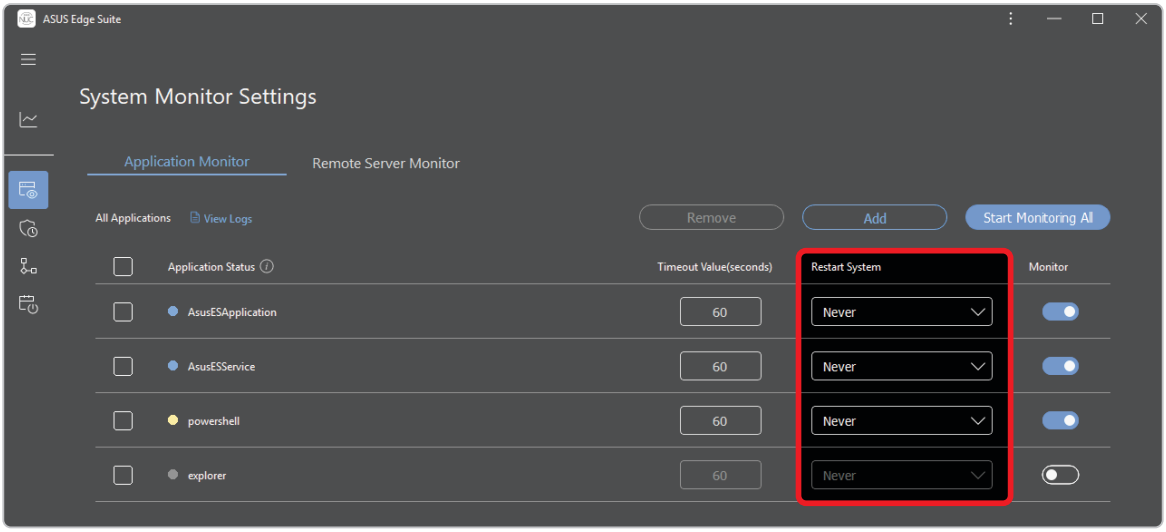
3. Set the **Timeout Value** in seconds (optional).

NOTE: When set to **60** seconds, Edge Suite will attempt to restart the application after the application becomes unresponsive for a duration of 60 seconds.



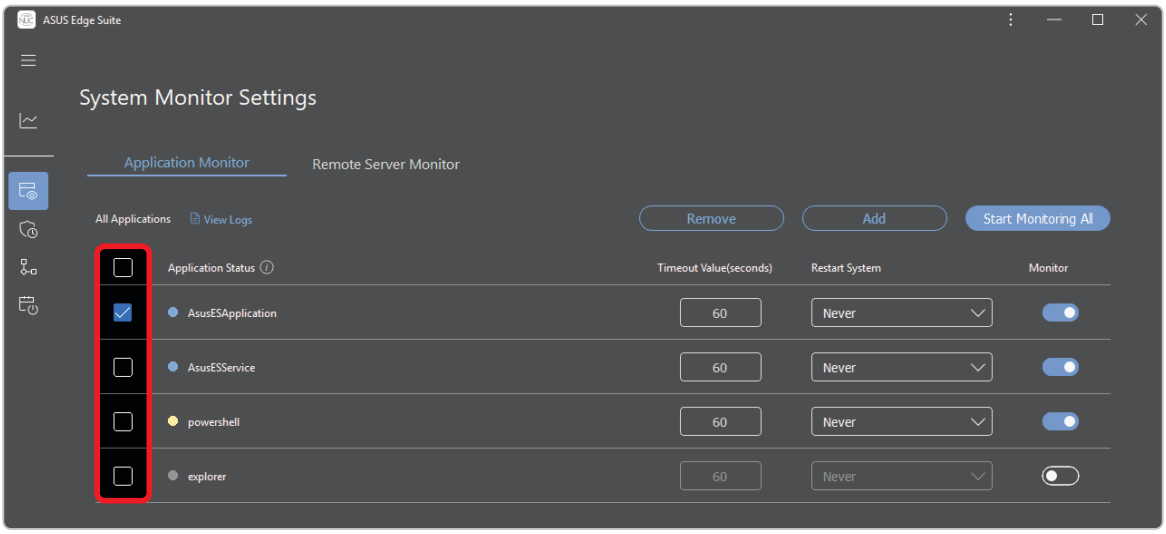
4. Set the **Restart System** interval (optional).

NOTE: When set to **Every 2 failures**, Edge Suite will attempt to restart the device after the application becomes unresponsive two times.

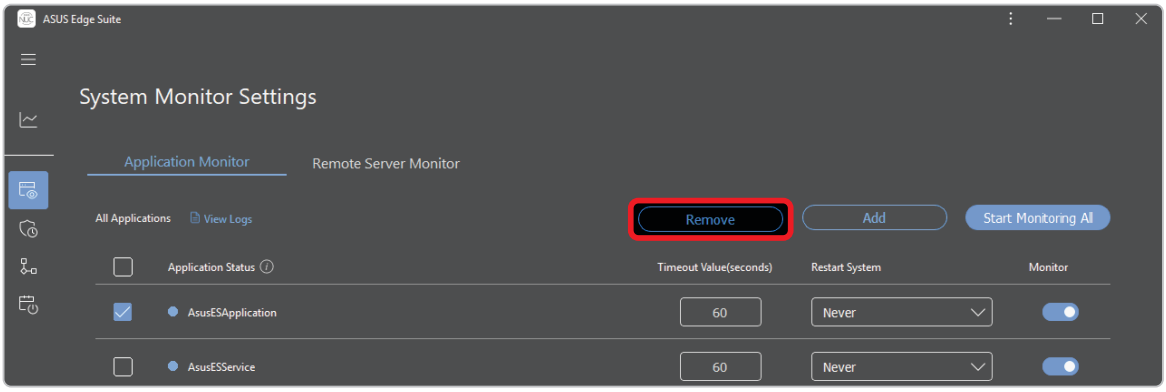


2.2.3 Remove an application

1. Select one or more applications.

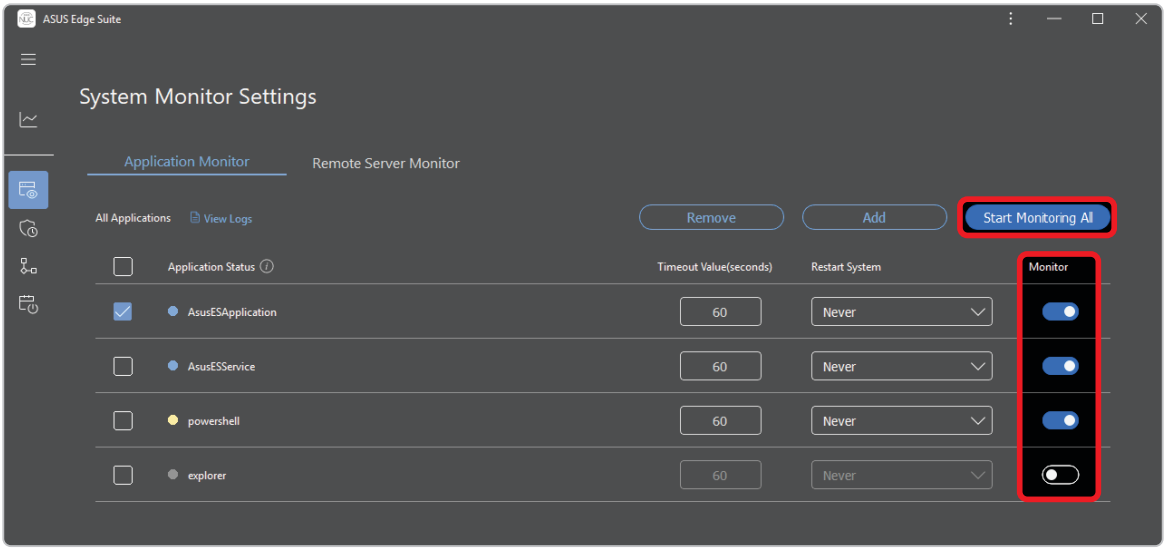


2. Click **Remove**.



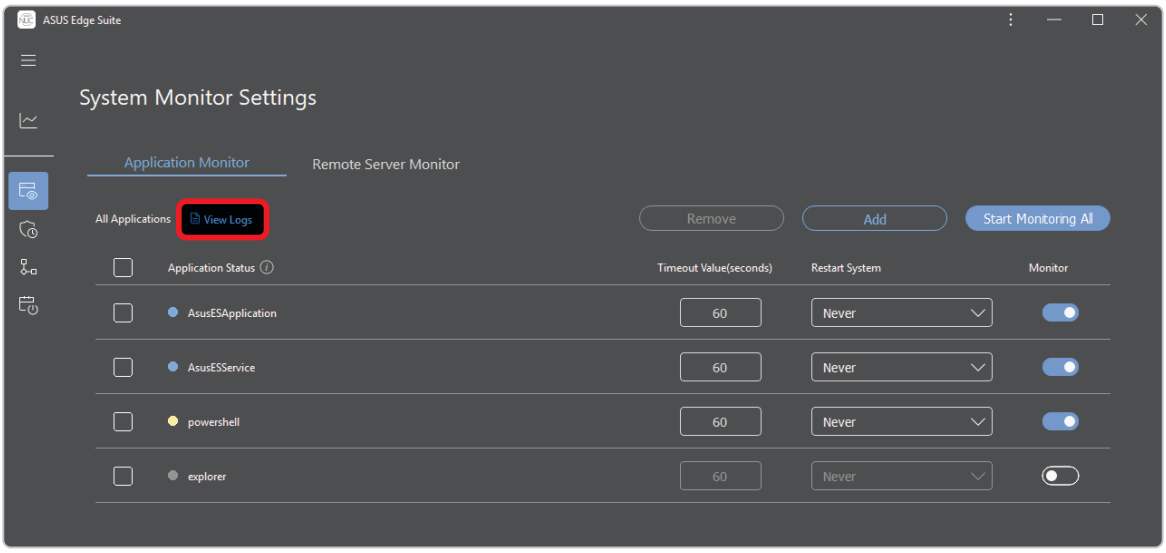
2.2.4 Toggle application monitoring

Select one or more applications, or click **Start Monitoring All** to monitor all applications.

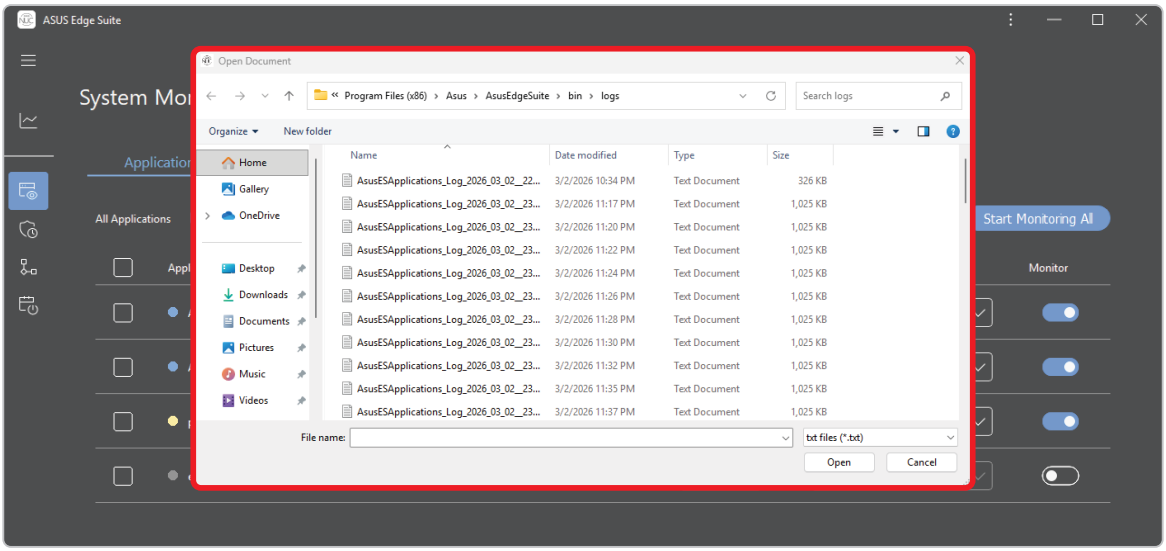


2.2.5 View application monitoring logs

1. Click **View Logs**.

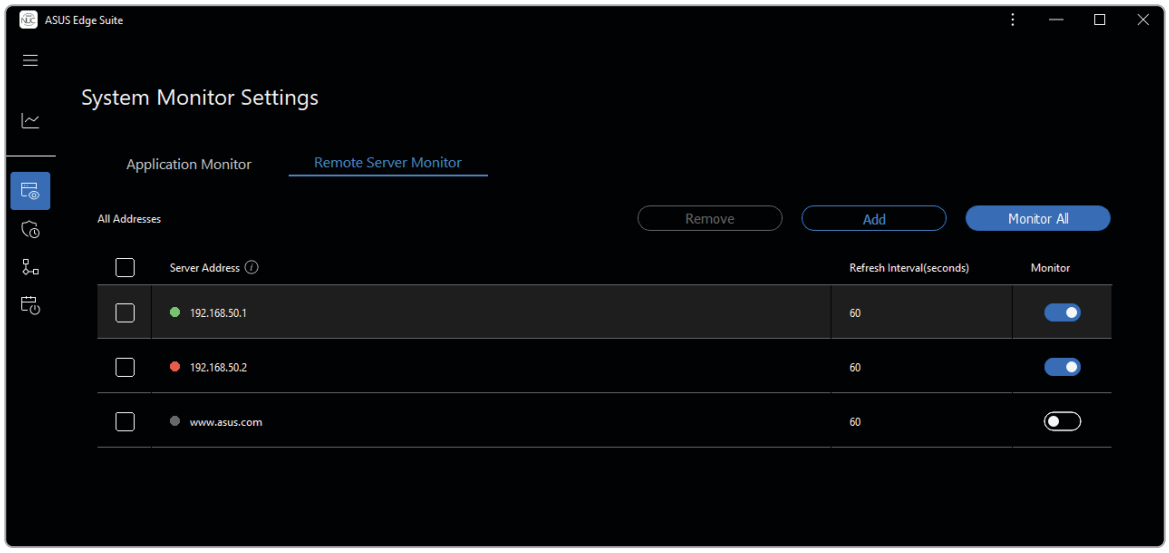


2. Select a log, then click **Open**.

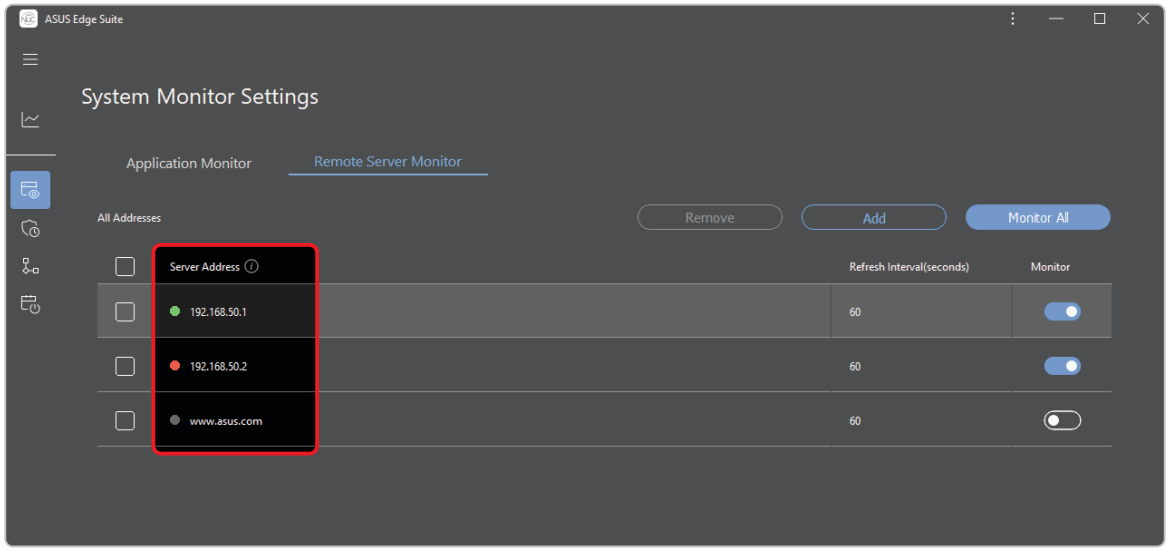


2.3 Remote server monitor

This tab lets you view and manage remote server monitoring.



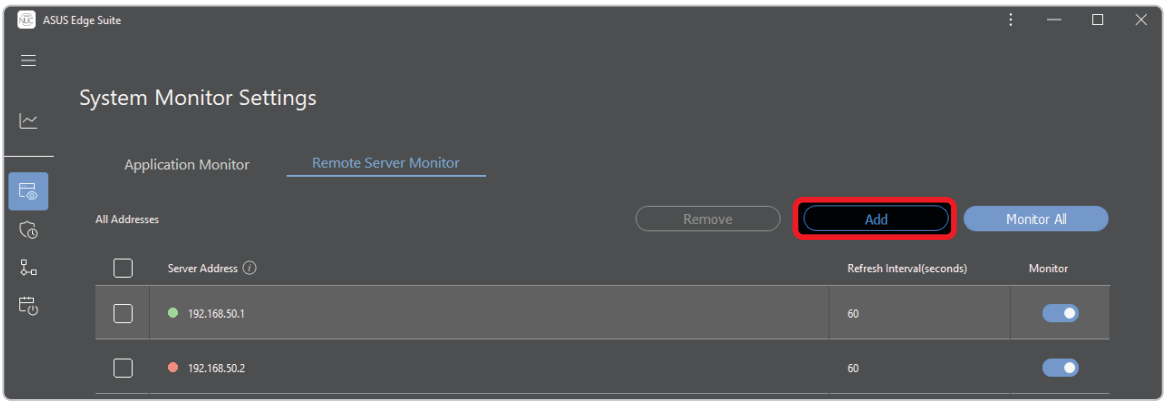
2.3.1 Status indicators



Status indicator	Description
Running	Remote server is online.
Not running	Remote server cannot be accessed.
Not monitored	Monitoring is disabled for this remote server.

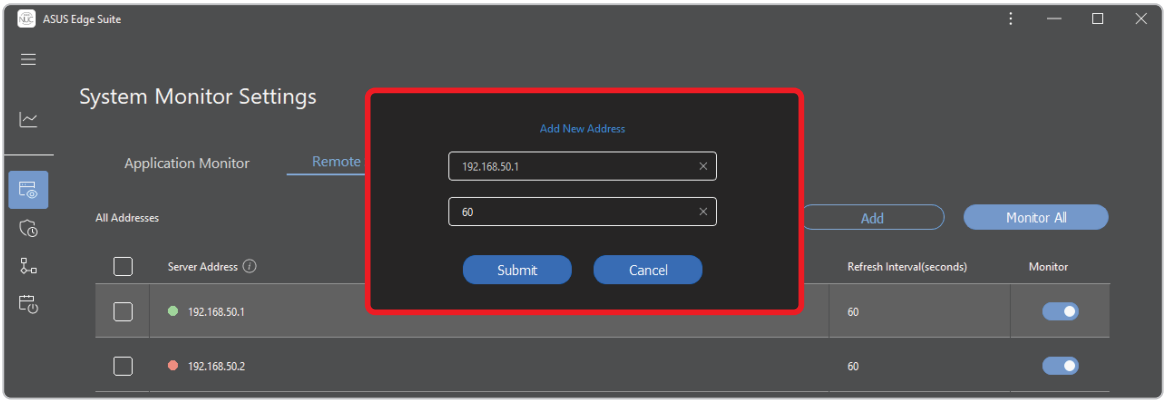
2.3.2 Add a remote server

1. Click **Add**.



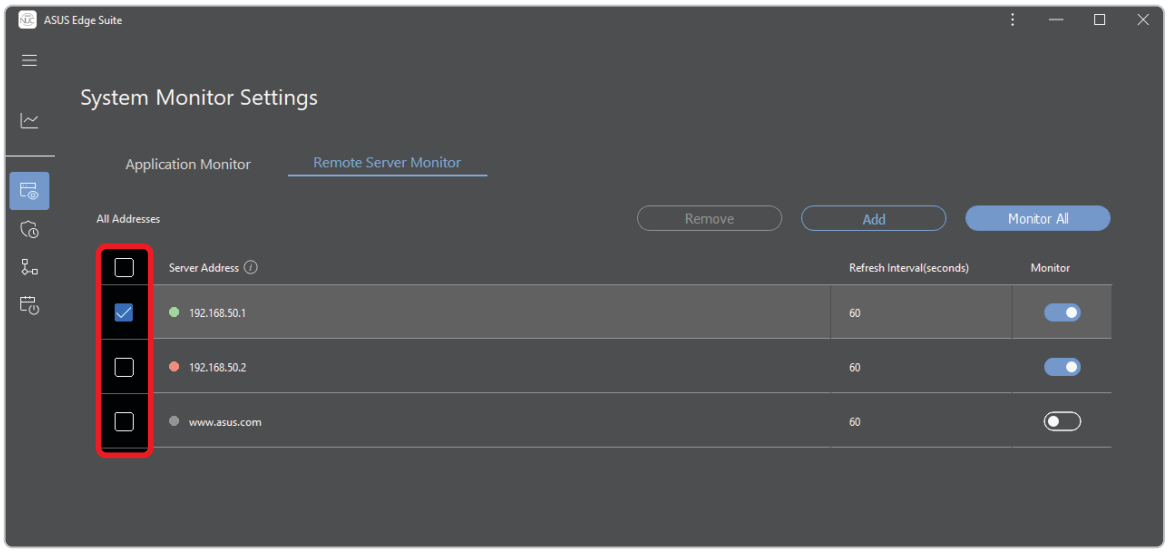
2. Enter an IP address or URL and set the refresh interval in seconds, then click **Submit**.

> **NOTE:** When set to **60** seconds, Edge Suite will update the status of the remote server every 60 seconds.

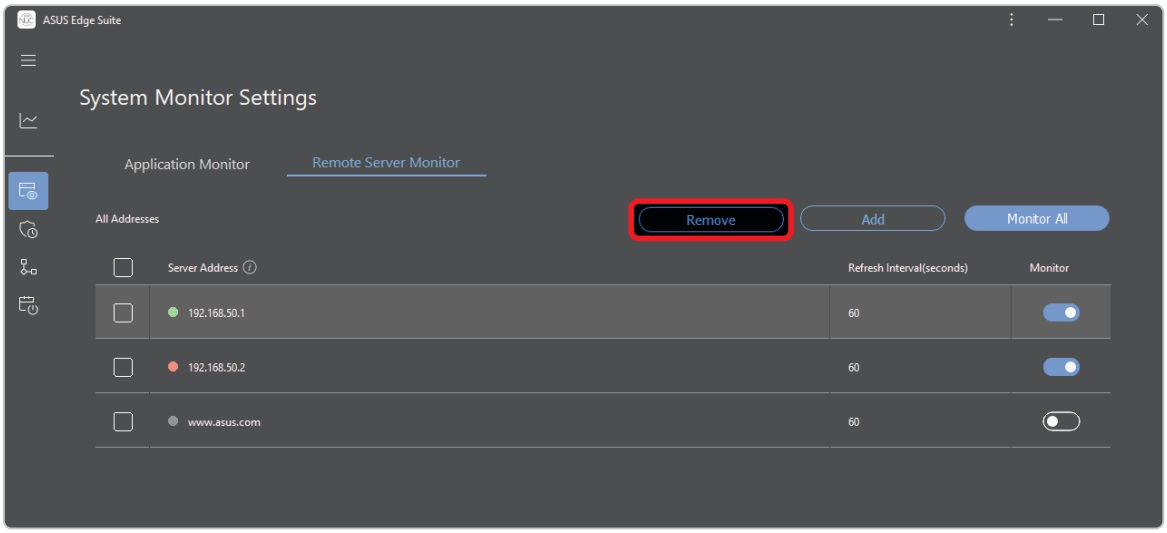


2.3.3 Remove a remote server

1. Select one or more remote servers.

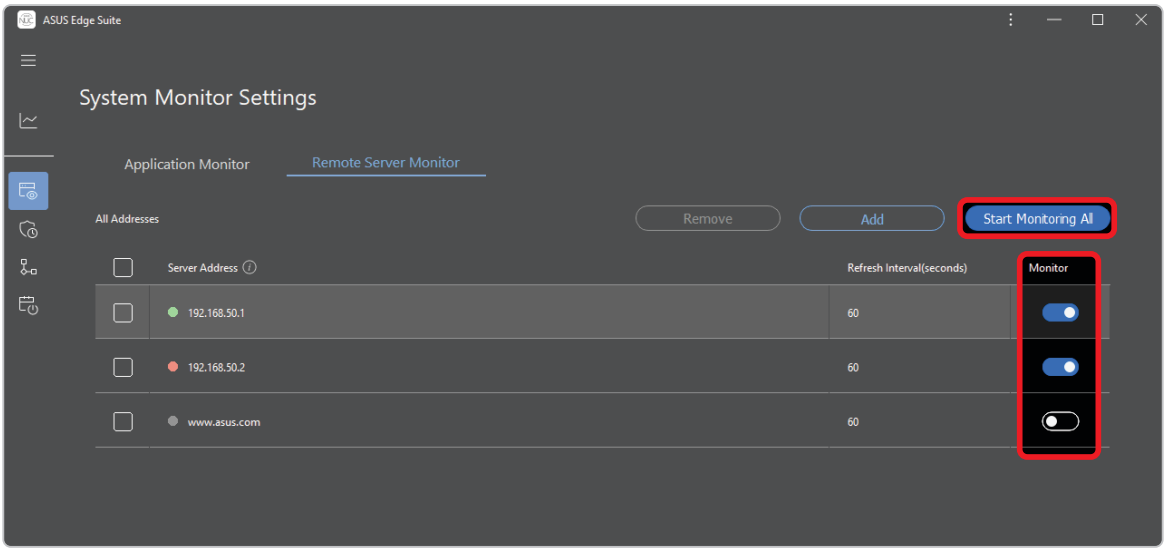


2. Click **Remove**.



2.3.4 Toggle remote server monitoring

Select one or more remote servers, or click **Start Monitoring All** to monitor all remote servers.

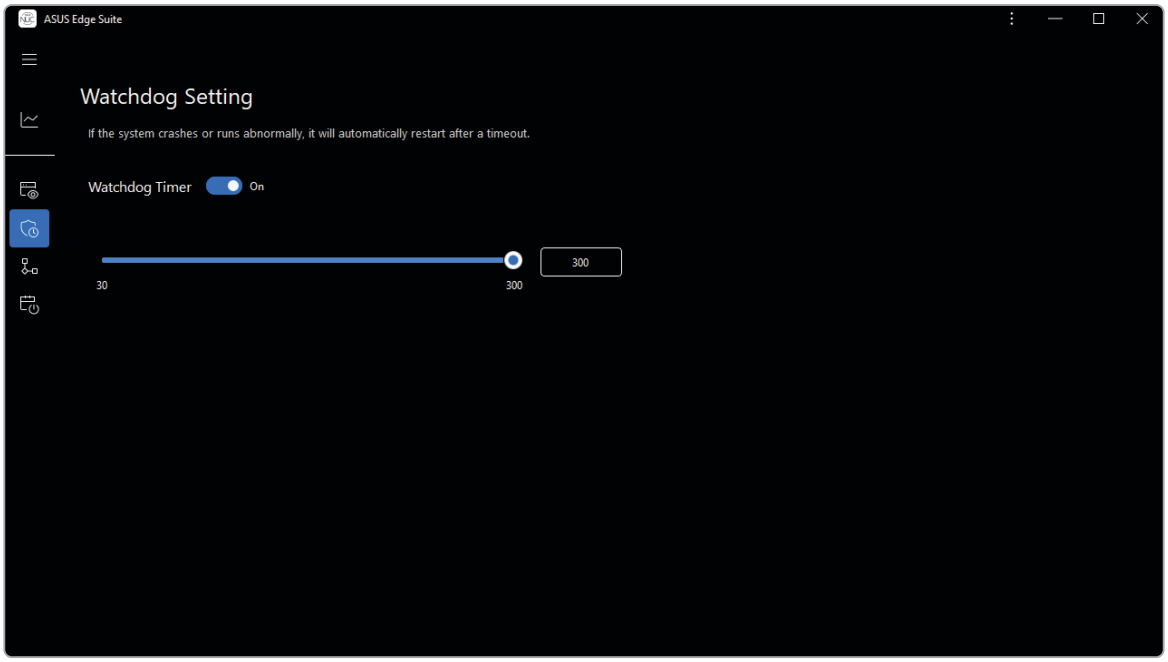


2.4 Watchdog setting

This tab lets you configure the watchdog to automatically restart the system after a certain amount of time in the event of a system crash or abnormality.

2.4.1 Configure the watchdog timer

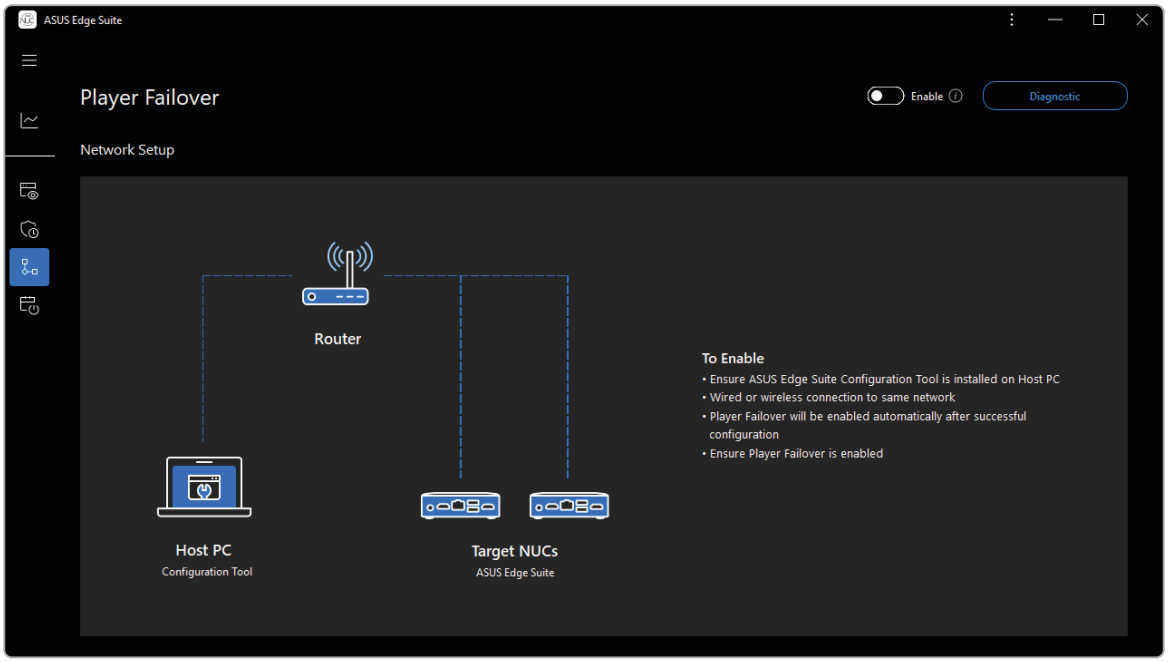
Toggle **Watchdog Timer**, then set a timeout value in seconds.



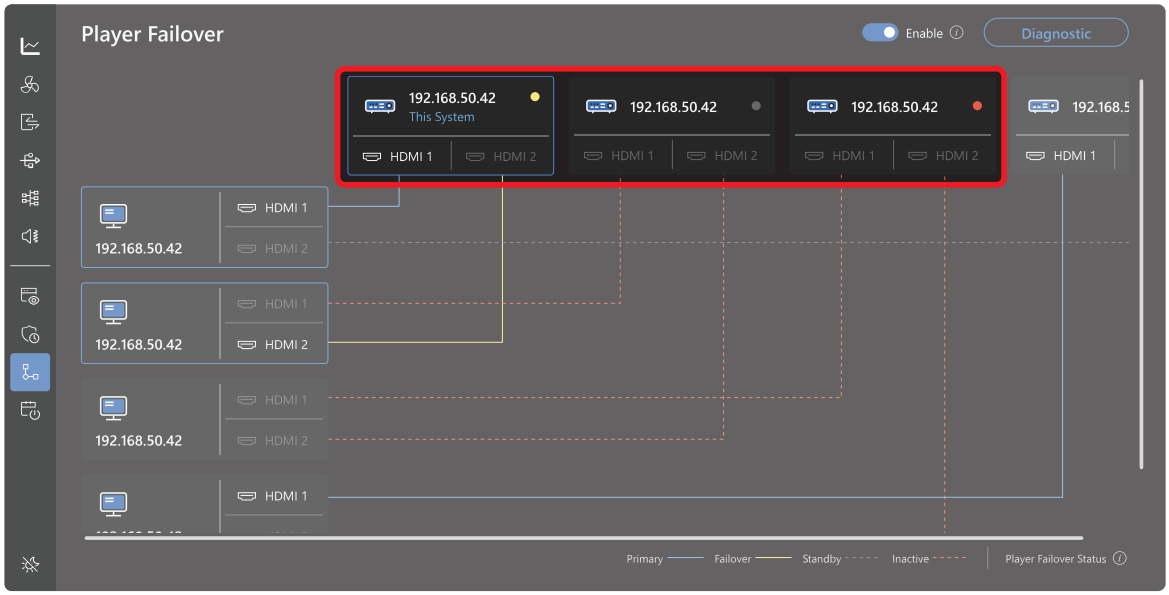
2.5 Player failover

This tab lets you manage screen redundancy services for uninterrupted display operations in the event of a client device system failure.

NOTE: Ensure that the ASUS Edge Suite configuration tool is installed on a host device that is connected to the same network as the client devices. Refer to the *ASUS Edge Suite configuration tool* section for more information.

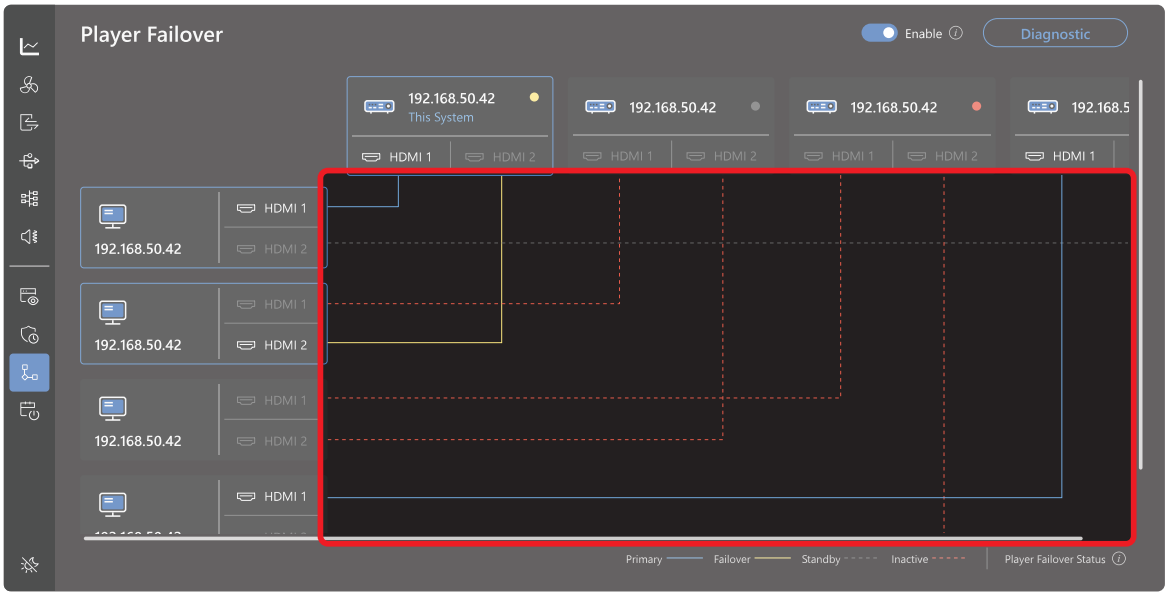


2.5.1 Status indicators



Status indicator	Description
Normal	Client device online.
Lost heartbeat	Providing failover redundancy (partner client device offline).
Heartbeat failed	Client device offline (failed to transmit heartbeat).
Not connected	Client device not connected.

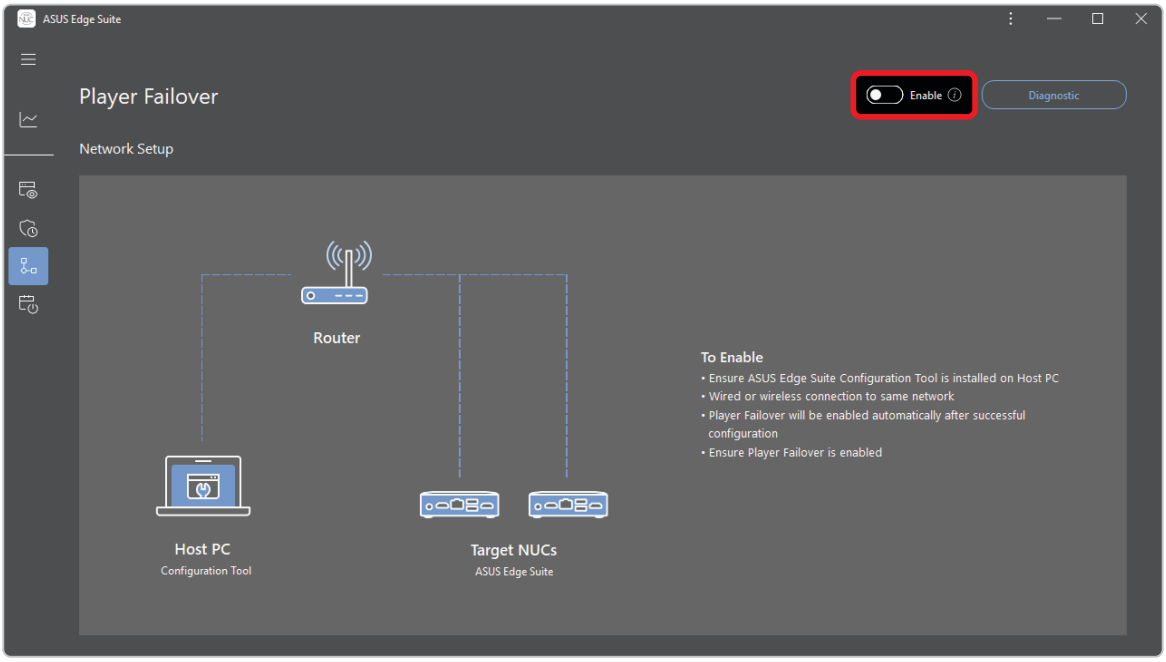
2.5.2 Link indicators



Status indicator	Description
Primary	Primary link active.
Standby	Link inactive (ready to provide failover redundancy).
Failover	Link active (providing failover redundancy).
Inactive	Link inactive (client device offline).

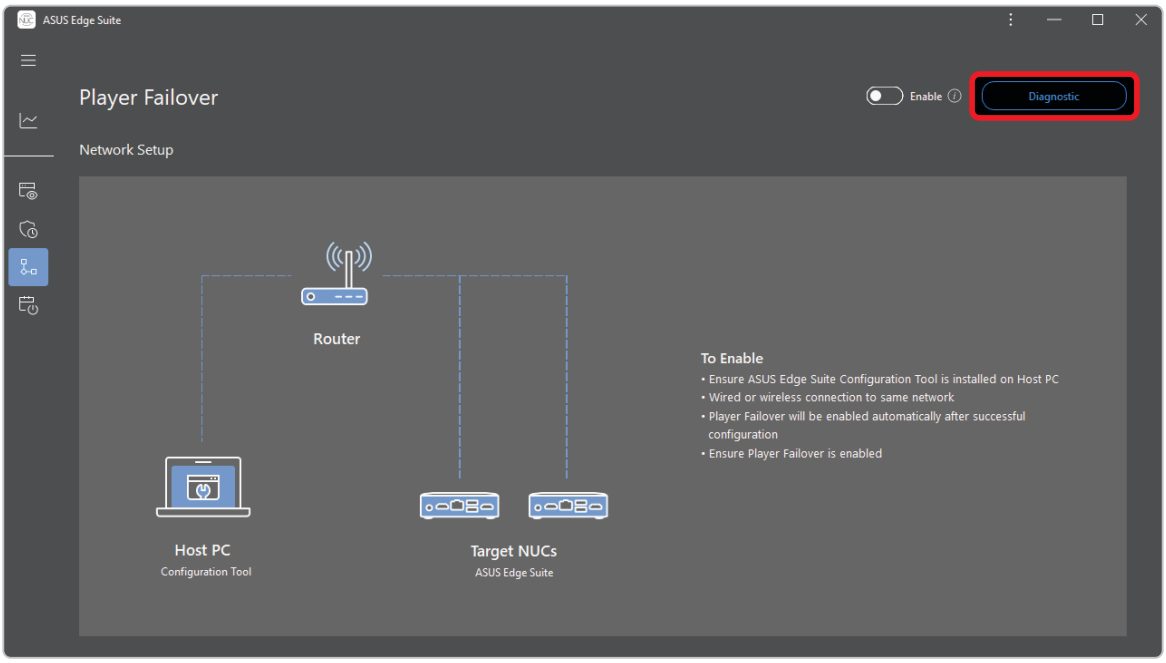
2.5.3 Enable or disable player failover

1. Ensure that all prerequisites for player failover are met. Refer to the *Hardware and network requirements* section for more information.
2. Click **Enable**, then confirm the action if prompted.

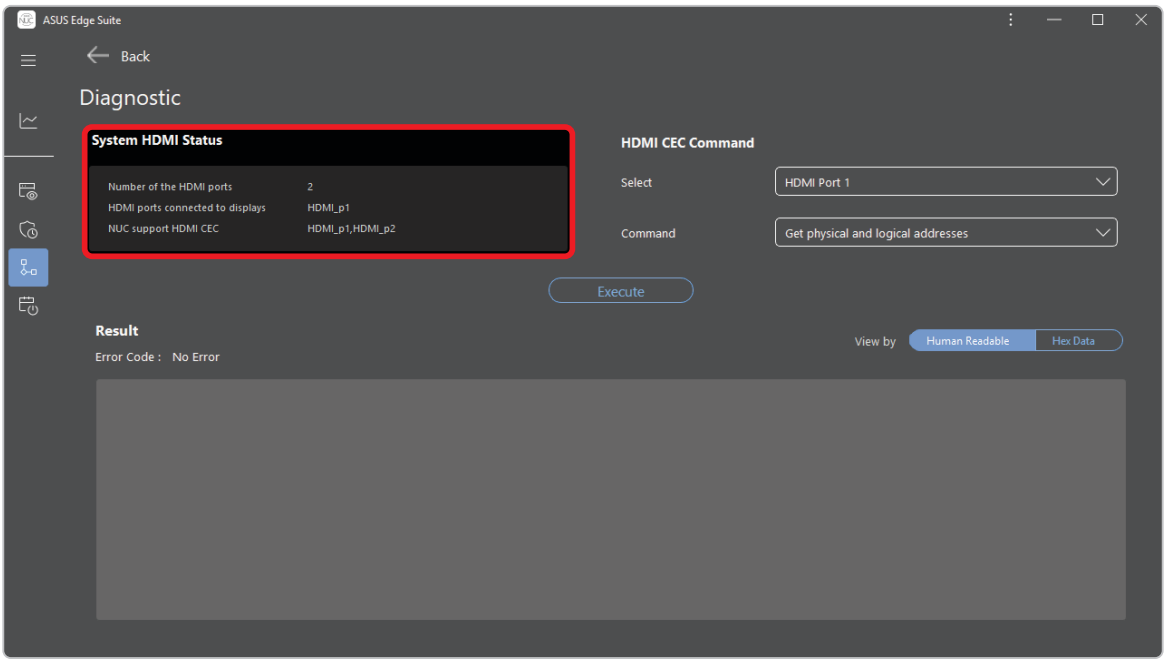


2.5.4 Execute player failover diagnostics

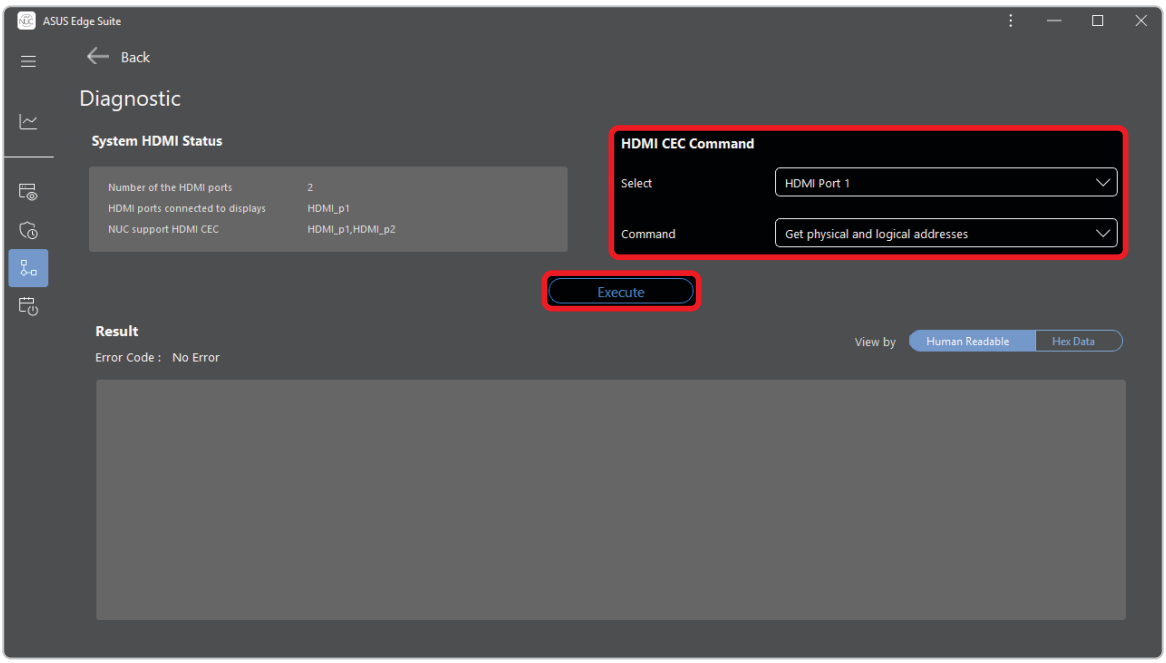
1. Click **Diagnostic**.



2. Review the **System HDMI Status** block for information on the client device's HDMI ports and CEC support.

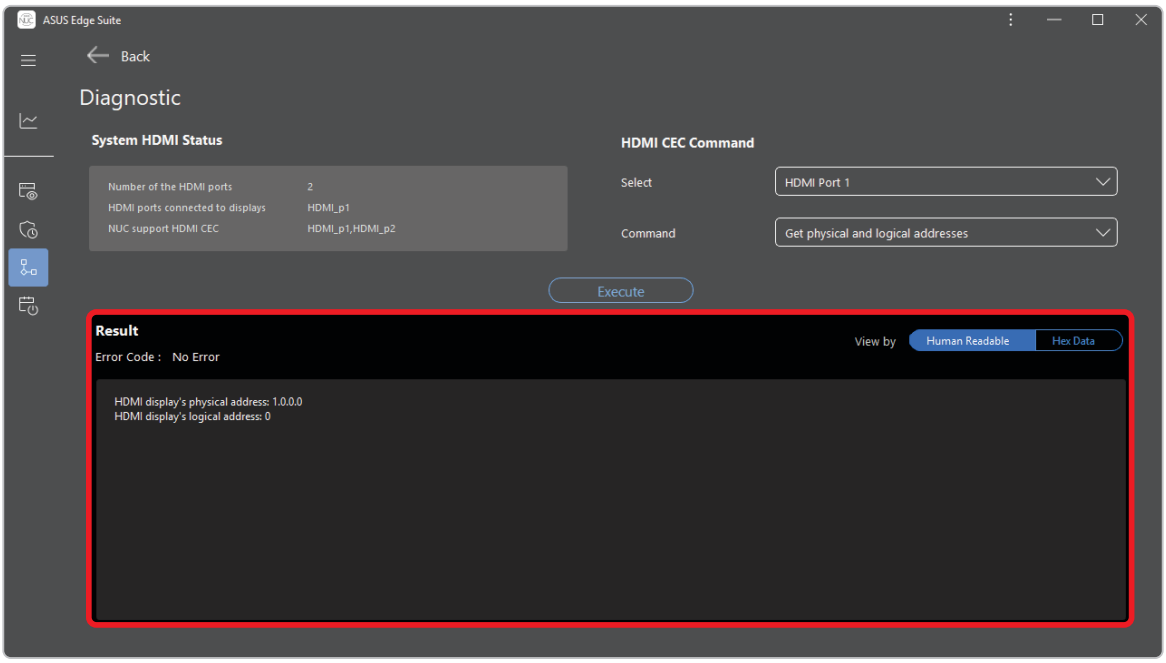


3. Select an HDMI port and CEC command, then click **Execute**.



Command	Description
Get physical and logical addresses	Retrieve the physical and logical addresses of the connected display devices.
Get EDID information	Retrieve the EDID information of the connected display devices.
Query power state	Retrieve the current power state of the connected display devices.
Set input to system connection	Set the input source of the connected display device to this client device.

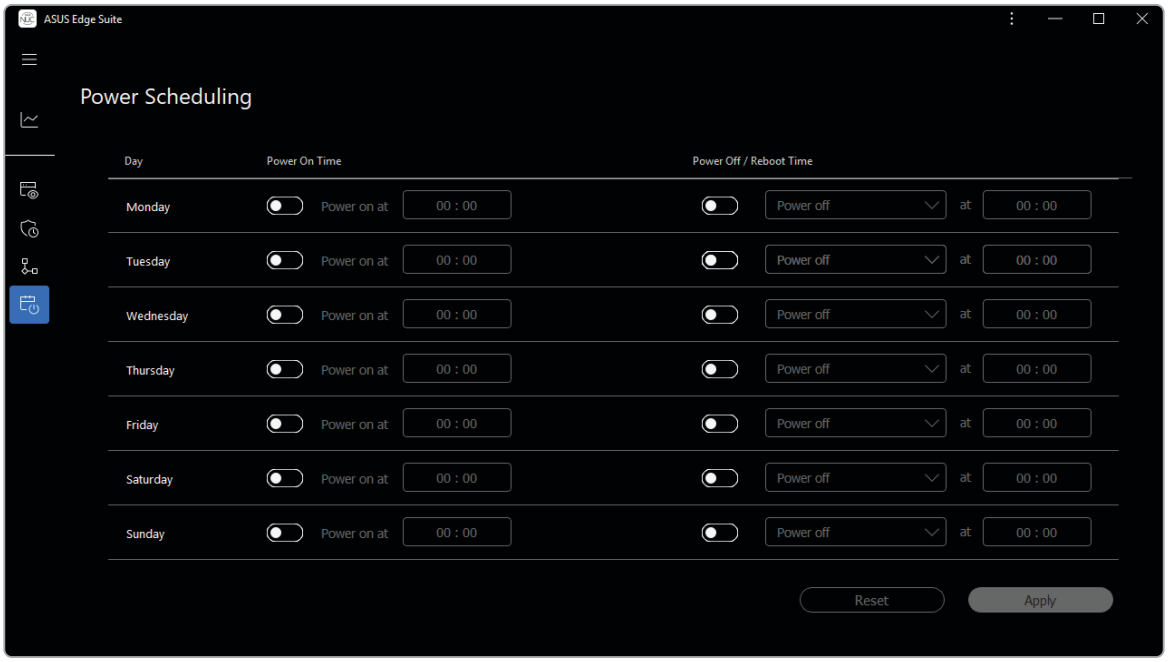
4. Review the **Result** block for the results of the CEC command.
5. Click **Human Readable** or **Hex Data** to switch between view modes (optional).



Error code	Description
00h / No Error	No error.
E1h	Function not supported.
E2h	Undefined device.
E3h	No response from EC.
E4h	Invalid parameter.
E5h	Node busy. Command not executed as command processing resources are temporarily unavailable.
E6h	Command execution failure. Parameter is illegal because the destination device is disabled or unavailable
E7h	Invalid CEC OP code.
E8h	Insufficient data buffer size.
Efh	Unexpected error.
Others	Reserved

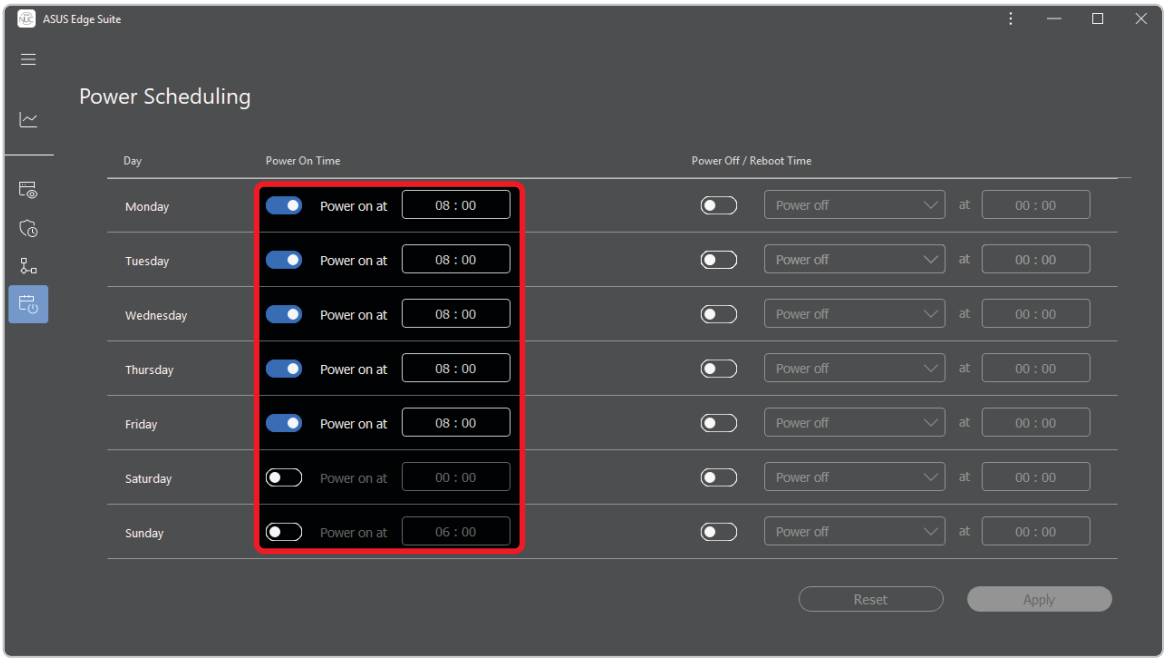
2.6 Power scheduling

This tab lets you manage power scheduling to automatically power on, power off, or reboot client devices at specified times.

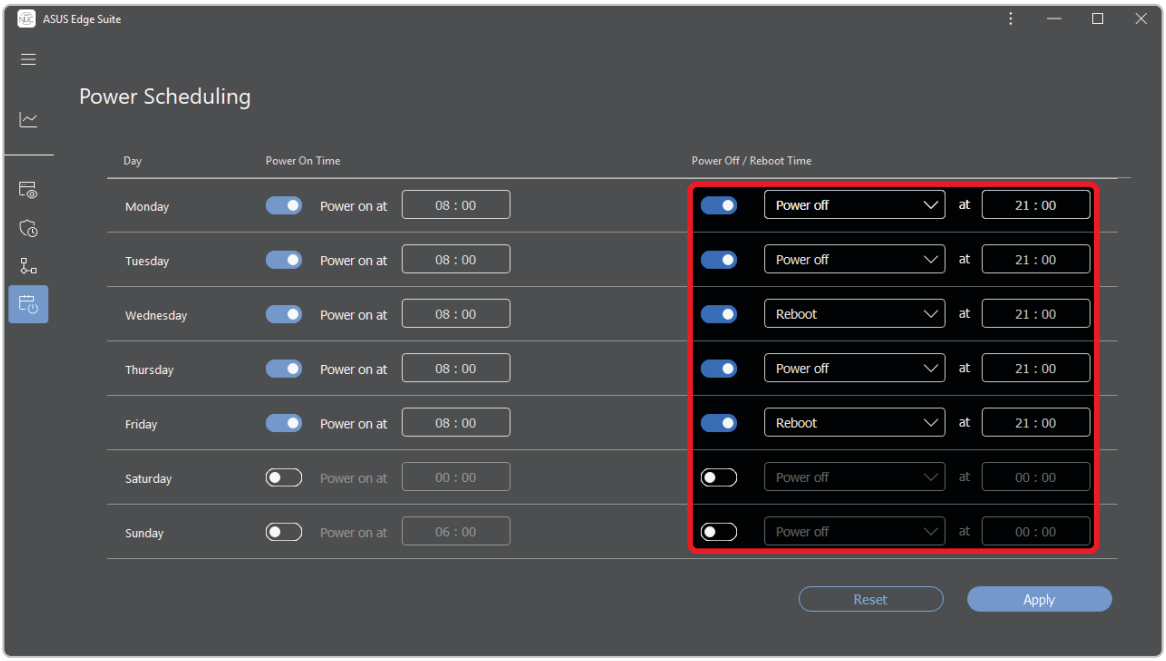


2.6.1 Configure a power schedule

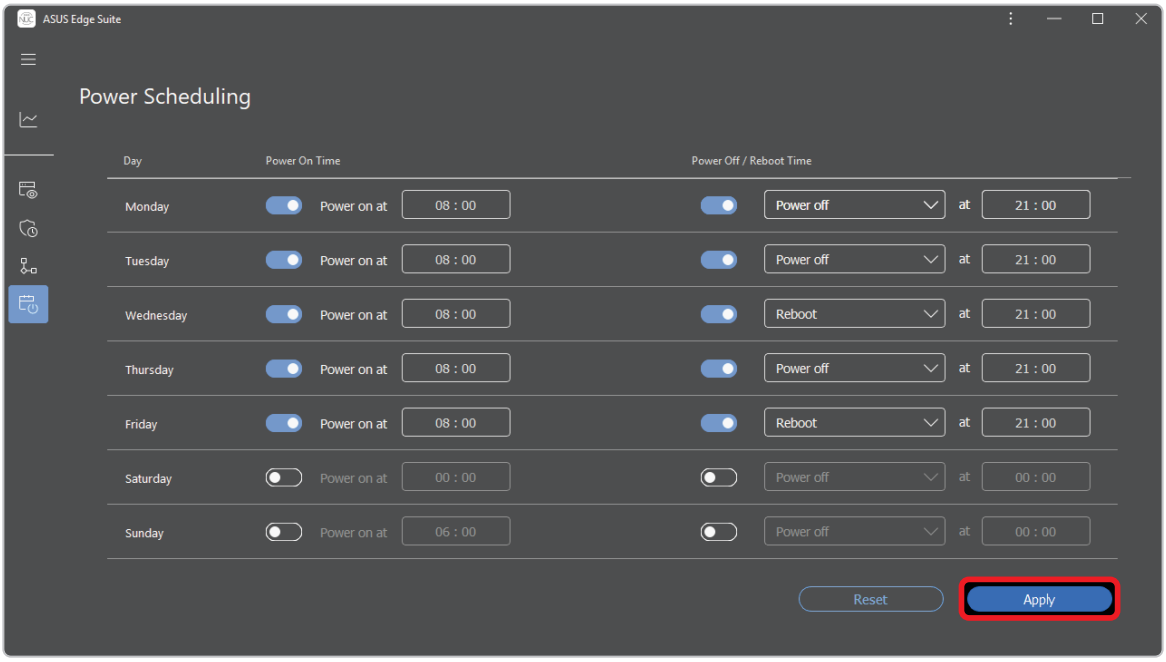
1. Enable **Power On Time** and set a time for the action (optional).



2. Enable **Power Off / Reboot Time**, then select an action from the drop-down list and set a time for the action (optional).

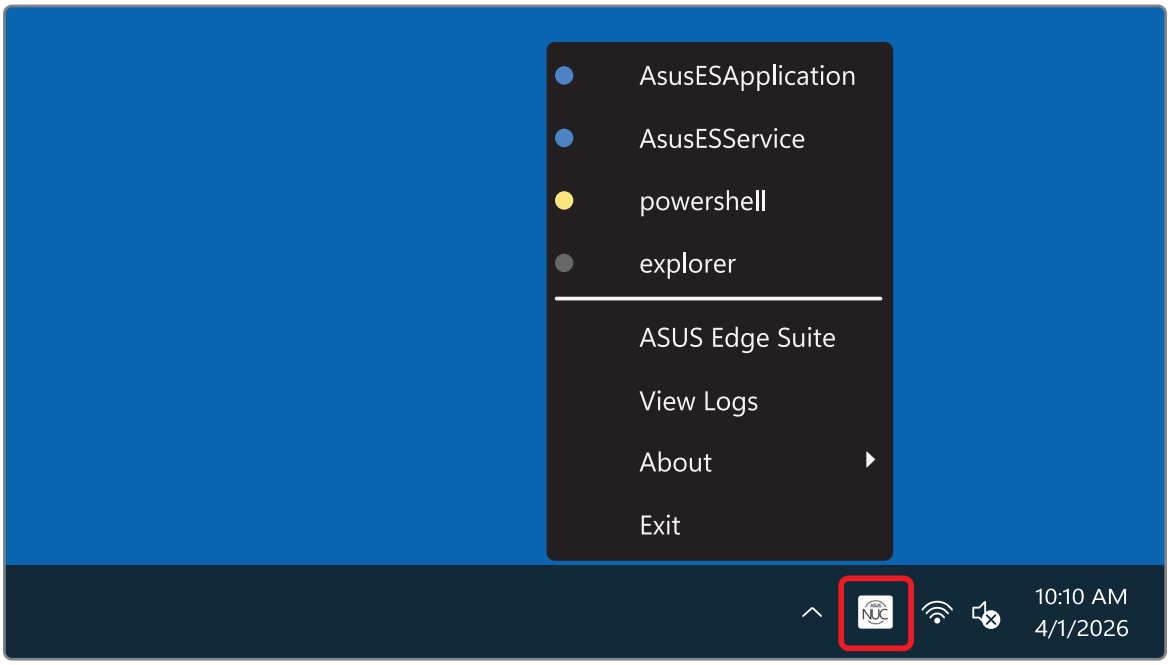


3. Click **Apply**.



2.7 System tray icon

Right-click the system tray icon to view the status of monitored applications and quickly access ASUS Edge Suite functions.



3. ASUS Edge Suite configuration tool

3.1 Introduction

For player failover functionality, the ASUS Edge Suite configuration tool must be installed on a host device. It provides step-by-step instructions to configure the target devices and the shared display devices.

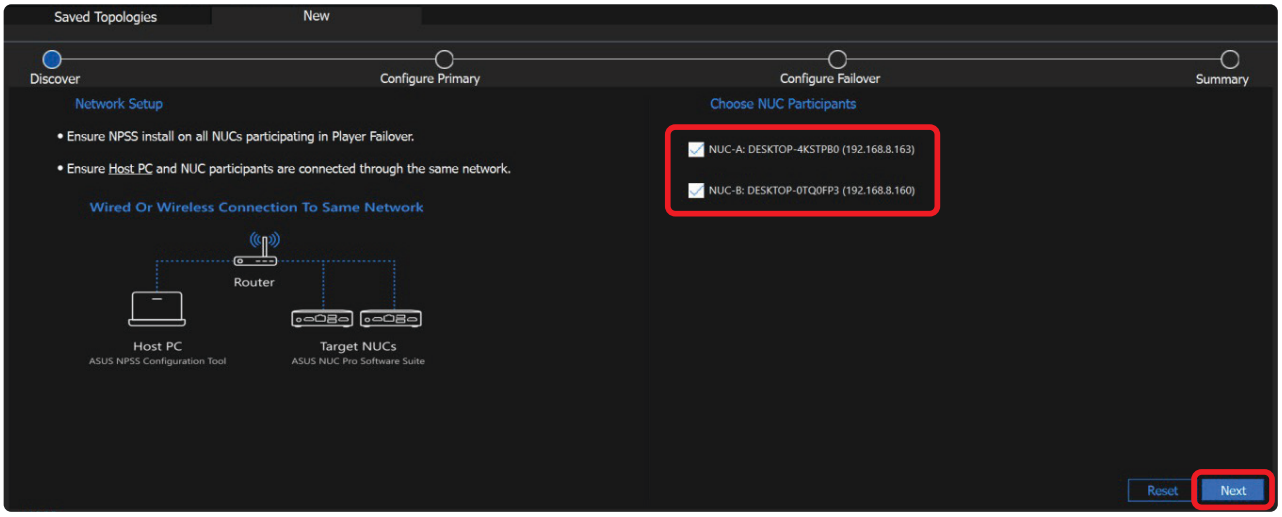
Do not install the configuration tool on the client devices. Instead, it should be installed on a host device that is on the same network as the client devices.

Refer to the *Installing the Edge Suite configuration tool* section for more information.

3.2 Configuration

1. Ensure that all prerequisites for player failover are met. Refer to the *Hardware and network requirements* section for more information.
2. Start the configuration tool.
3. Select two to four client devices, then click **Next**.

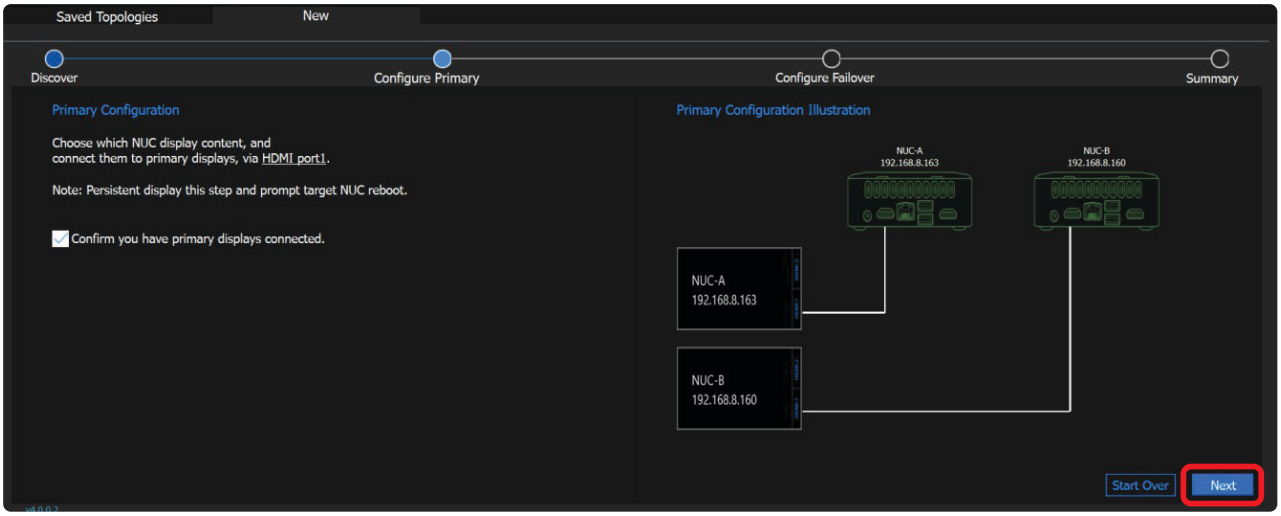
NOTE: If the IP address of a client device changes during player failover configuration, restart the configuration tool and start again.



4. Connect the primary display to the HDMI1 port of each client device. The on-screen topology will update automatically if the connection is successful.

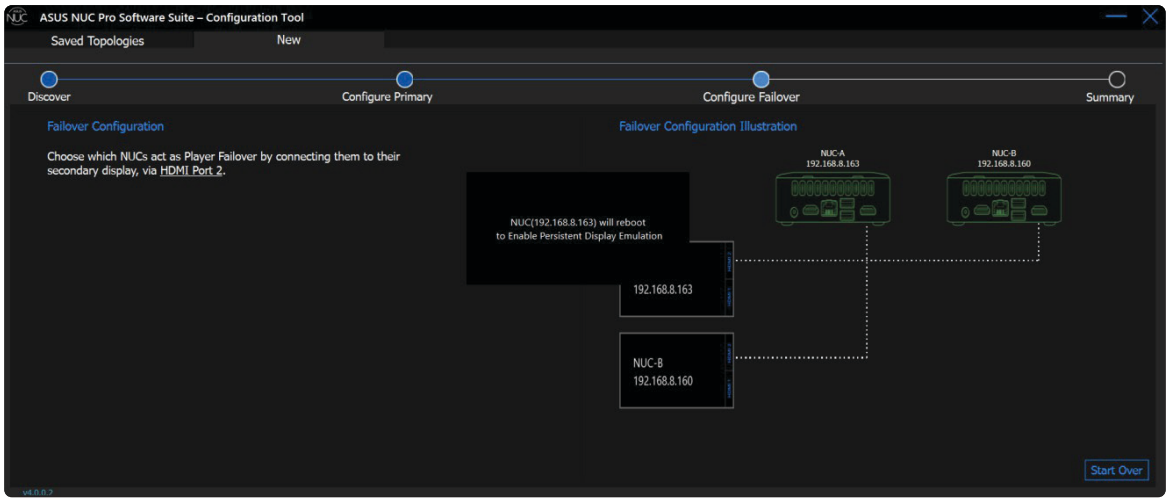
NOTE: Do not connect a display to the HDMI2 port on the client device yet.

5. Click **Next** after all primary displays are connected and recognized.

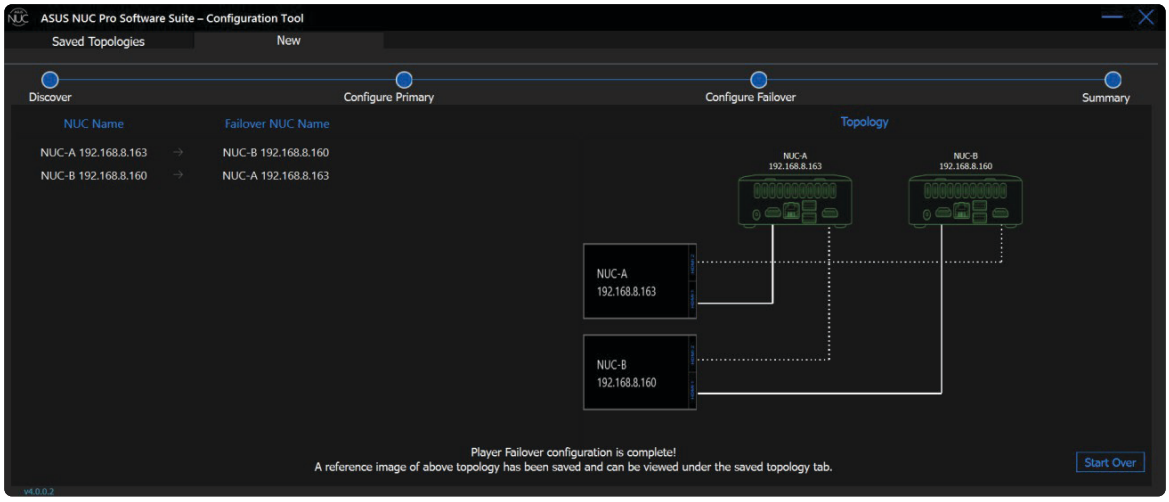


6. Connect the failover display to the HDMI2 port on each client device. The on-screen topology will update automatically if the connection is successful.

NOTE: The client device may restart to enable persistent display emulation. Ensure that the latest BIOS update is installed on all client devices.



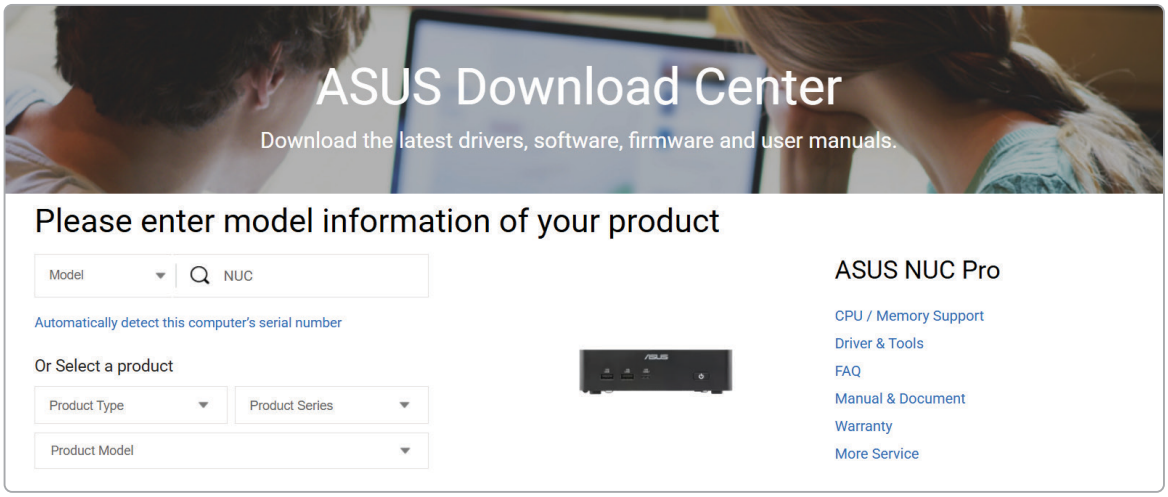
7. Review the topology summary.



4. Installation

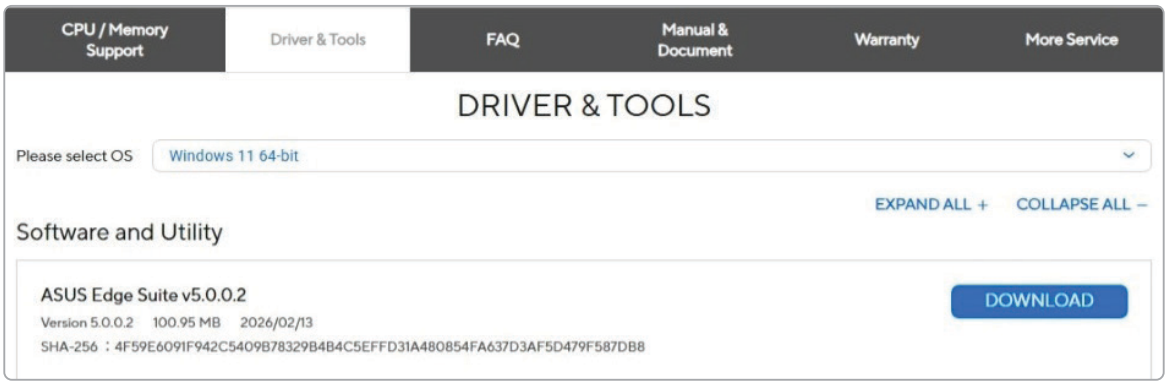
4.1 Downloading the software package

1. Navigate to https://www.asus.com/support/download-center/ in a web browser, then search for the client device by name or model.
2. Click **Drivers & Tools**.



3. Download the latest version of **ASUS Edge Suite** under **Software and Utility**.

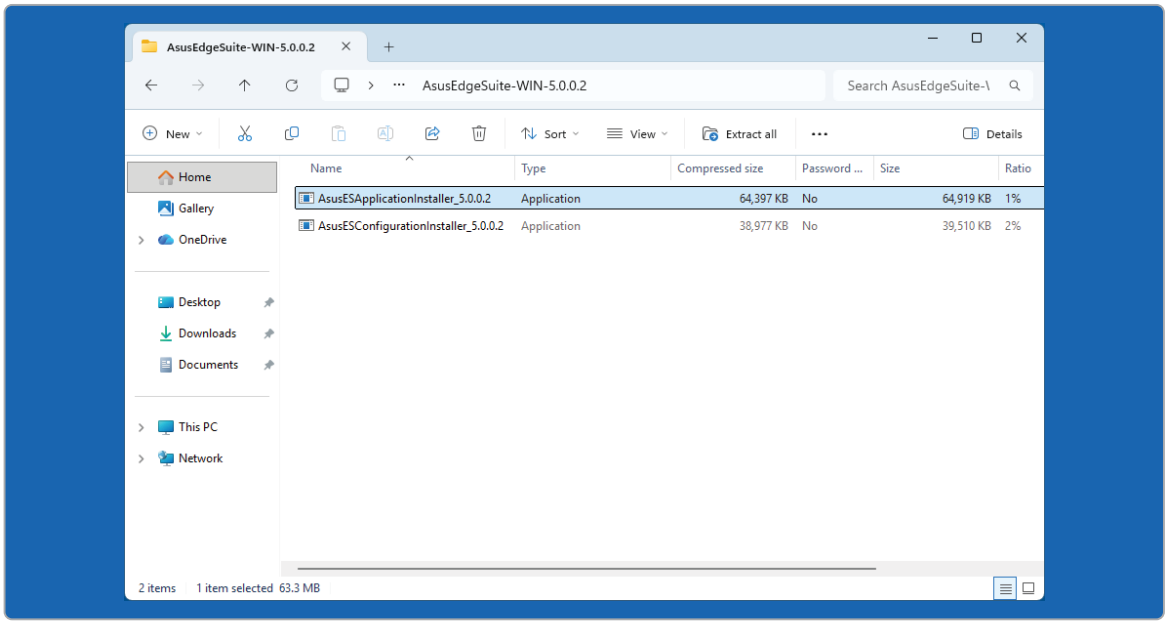
NOTE: The compressed archive includes binaries for both Windows-based and Linux-based operating systems.



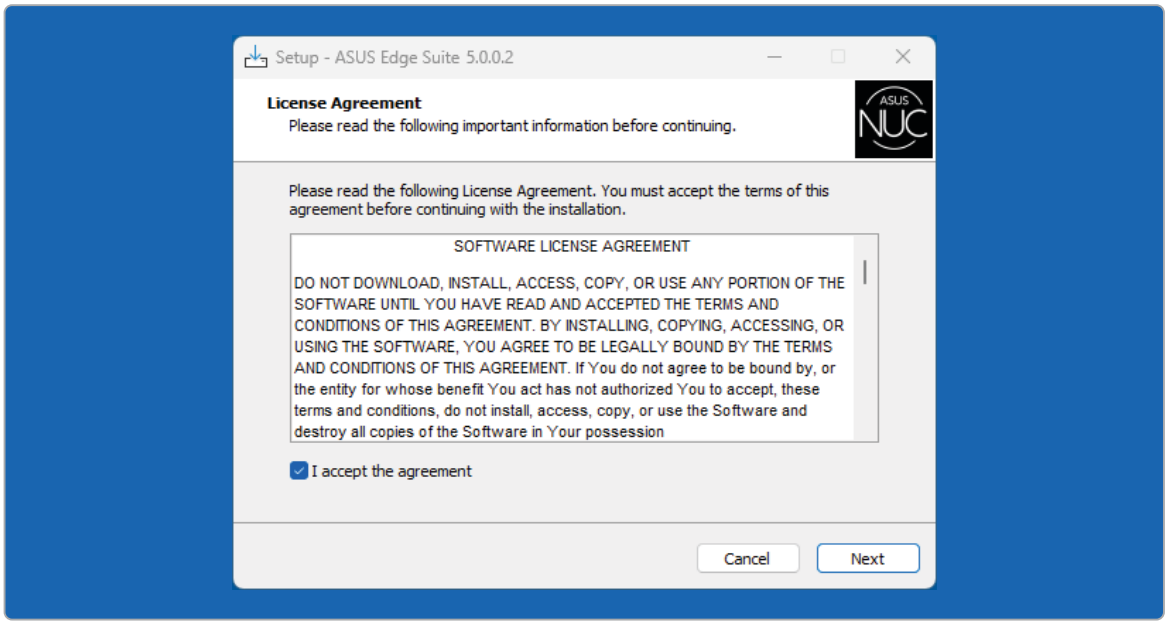
4.2 Installing the Edge Suite application

4.2.1 Windows-based systems

1. Extract the compressed archive from the *Downloading the software package* section, then locate and run the setup file (AsusESApplicationInstaller_<version>.exe).



2. Follow the on-screen instructions to install the Edge Suite application.



4.2.2 Linux-based systems

1. Ensure that Secure Boot is disabled under **Boot** > **Secure Boot** in the BIOS setup utility.
2. Run the following commands to install required dependencies.

```
sudo apt update
sudo apt upgrade
sudo apt install --reinstall libxcb-xinerama0
sudo apt install libxcb-cursor0
sudo apt install dkms
sudo apt install build-essential
```

3. Extract the compressed archive from the *Downloading the software package* section, then navigate to the extracted folder in a terminal window.
4. If a previous version of the driver package is installed, run the following command to uninstall it:

```
sudo dpkg -r omniedge-drivers-dkms
```

5. Run the following command to install the latest driver package:

```
sudo dpkg -i omniedge-drivers-dkms_<$version>_amd64.deb
```

```
<$version>: Version from filename
            e.g., "omniedge-drivers-dkms_2.25_amd64.deb"
```

6. Run the following command to install the OmniEdge SDK:

```
sudo dpkg -i omniedge_<$version>_amd64.deb
```

```
<$version>: Version from filename
            e.g., "omniedge_1.2.5_amd64.deb"
```

7. Run the following command to install the ASUS Edge Suite application:

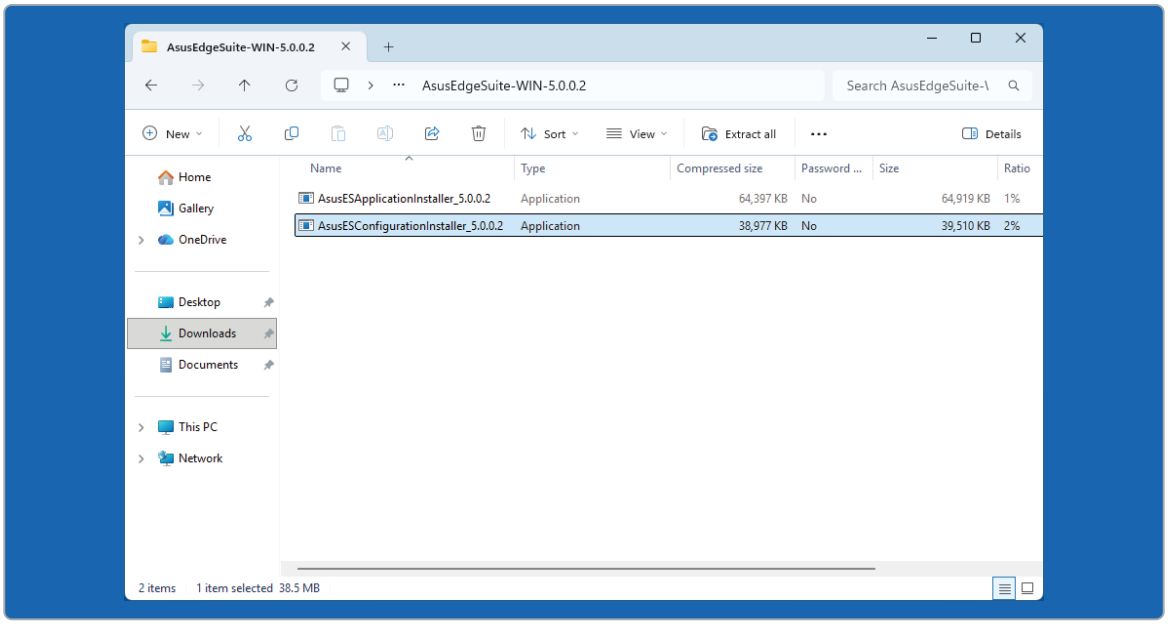
```
sudo dpkg -i asus-edgesuite_<$version>_amd64.deb
```

```
<$version>: Version from filename
            e.g., "asus-edgesuite_5.0.2-2_amd64.deb"
```

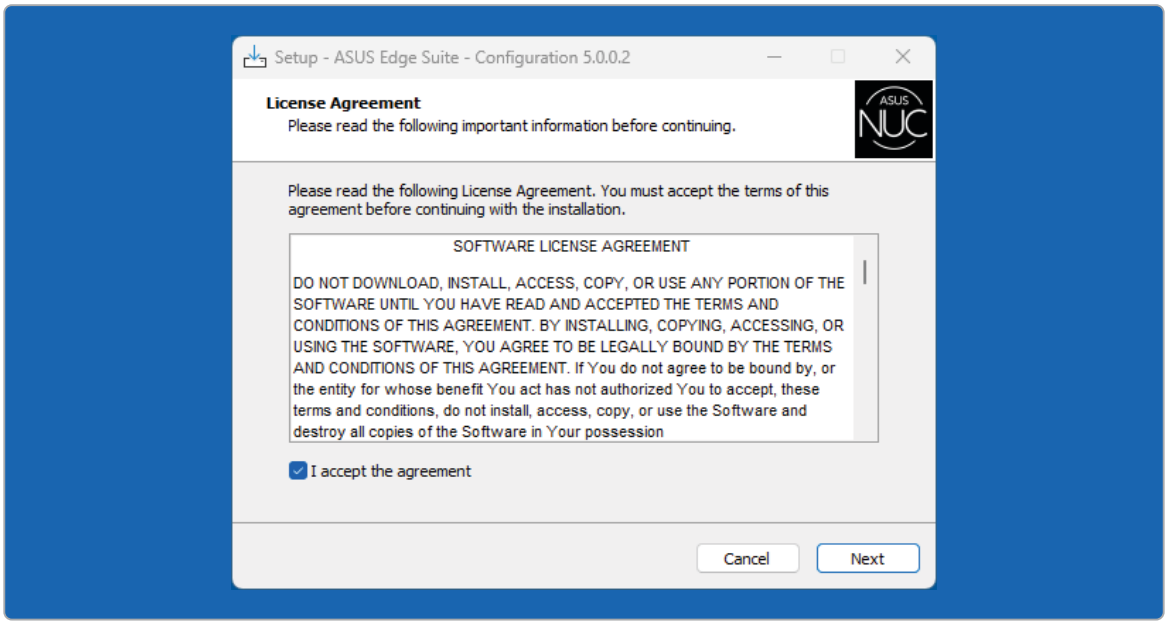
4.3 Installing the Edge Suite configuration tool

4.3.1 Windows-based systems

1. Extract the compressed archive from the *Downloading the software package* section, then locate and run the setup file (AsusESConfigurationInstaller_<version>.exe).



2. Follow the on-screen instructions to install the configuration tool.



4.3.2 Linux-based systems

1. Extract the compressed archive from the *Downloading the software package* section, then navigate to the extracted folder in a terminal window.
2. Run the following command to install the ASUS Edge configuration tool:

```
sudo dpkg -i asus-edgesuite-configuration-tool_<$version>_amd64.deb
```

```
<$version>: Version from filename
            e.g., "asus-edgesuite-configurationtool_5.0.2-2_amd64.deb"
```