



ASUS NUC Pro Software Suite

Installation and Configuration Guide

V4.0
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NUC Group
ASUSTek COMPUTER INC.

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Revision History

Version	Date	Description of Changes
4.0	06/18/2024	Initial Release

Table of Contents

Revision History	2
Table of Contents.....	3
1 Installation Steps - Microsoft Windows.....	4
1.1 Application installation on target NUC	4
1.2 Configuration tool installation on host PC.....	4
2 Installation Steps - Linux.....	5
2.1 Prerequisite for fresh Linux machine and NUC.....	5
2.2 Driver and application installation on target NUC.....	5
2.3 Configuration tool installation on host PC.....	5
3 ASUS NUC Pro Software Suite - Configuration Tool	7
3.1 Discover	7
3.2 Configure Primary	8
3.2.1 Primary Display Connected?	9
3.2.2 HDMI Port 2 Disconnected?	9
3.3 Configure Failover	10
3.4 Summary	12
3.5 Saved Topologies.....	13



1 Installation Steps - Microsoft Windows

1. Go to <https://www.asus.com/support/download-center/> and search for the product by name or model. Under the **Support** tab, select **Drivers and Utilities**, and under **Software & Utility** select 'NUC Pro Software Suite'.
2. Download the zip package available for Windows Operating System – **AsusNpss-Windows.zip** and install files in the order mentioned below.

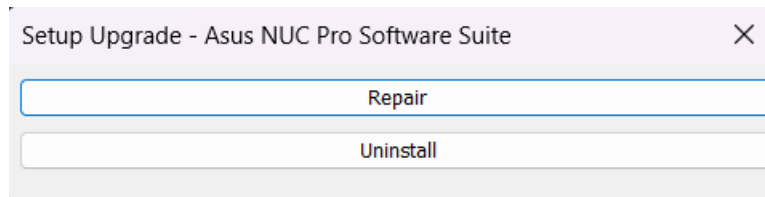
NOTE: Refer to the section [Installation Steps – Linux](#) below if your target OS is Linux.

1.1 Application installation on target NUC

1. Double click the **AsusNpssApplicationInstaller_<version>.exe**. This includes driver installation.

Name	Date modified	Type	Size
 AsusNpssApplicationInstaller_4.0.0.2	6/5/2024 4:34 PM	Application	43,962 KB
 AsusNpssConfigurationInstaller_4.0.0.2	6/5/2024 4:34 PM	Application	39,748 KB

2. Accept the License Agreement and click Install. Follow the setup steps from the installer. Restart the system when prompted for a successful installation.
3. If the ASUS NUC Pro Software Suite application already exists on the system, it prompts an upgrade to the latest version. Either click **Repair** to start the upgrade process or click **uninstall** and do a fresh install of the latest version of the application.





4. Launch **ASUS NUC Pro Software Suite** to get started.

1.2 Configuration tool installation on host PC

Follow the instructions below to install the **ASUS NUC Pro Software Suite – Configuration Tool**.

NOTE: Do not install the configuration tool on the target NUC. It should always be installed on a host PC that is part of the same network as the target NUCs. Copy the **AsusNpssConfigurationInstaller_<version>.exe** onto the host PC.

1. On the host PC, double-click the **AsusNpssConfigurationInstaller_<version>.exe**.

Name	Date modified	Type	Size
 AsusNpssApplicationInstaller_4.0.0.2	6/5/2024 4:34 PM	Application	43,962 KB
 AsusNpssConfigurationInstaller_4.0.0.2	6/5/2024 4:34 PM	Application	39,748 KB

2. Accept the License Agreement and click Install. Follow the setup steps from the installer.

2 Installation Steps - Linux

1. Go to <https://www.asus.com/support/download-center/> and search for the product by name or model. Under the **Support** tab, select **Drivers and Utilities**, and under **Software & Utility** select 'NUC Pro Software Suite'
2. Download the tar package available for Linux Operating System – **AsusNpss-Linux_<version>.tar** and install files in the order mentioned below

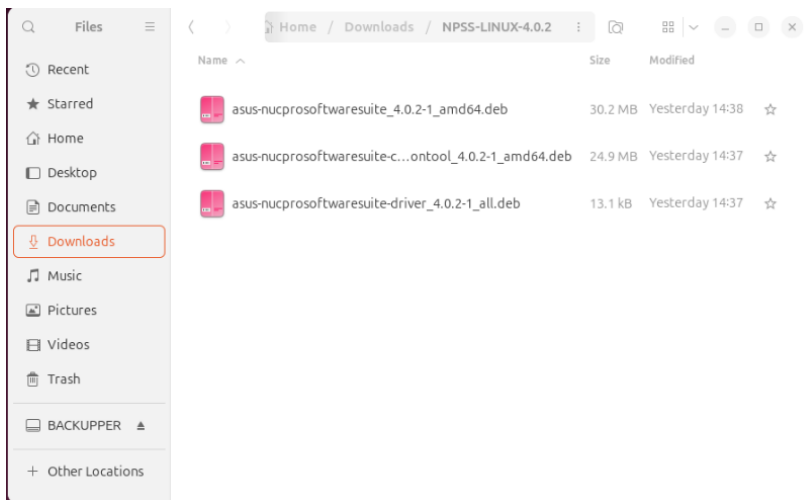
NOTE: Refer to the section [Installation Steps – Windows](#) above if your target OS is Windows.

2.1 Prerequisite for fresh Linux machine and NUC

1. Disable Secure Boot option from BIOS setting for both clean setup and existing setup.
F2> Boot > Secure Boot. Select disabled from dropdown
2. Install QT libraries and dependencies for the Linux version of ASUS NUC Pro Software Suite and Configuration tool:
 - a. `sudo apt update`
 - b. `sudo apt upgrade`
 - c. `sudo apt install --reinstall libxcb-xinerama0`
 - d. `sudo apt install libxcb-cursor0`
 - e. `sudo apt install dkms`
 - f. `sudo apt install build-essential`

2.2 Driver and application installation on target NUC

1. Locate and open the **Terminal** on your target NUC.

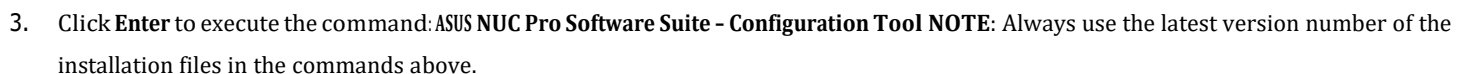


2. If the driver is already installed in the system, type in the command **`sudo dpkg -r asus-nucprosoftwaresuite-driver`** to uninstall.
3. To install the new driver, enter **`sudo dpkg -i asus-nucprosoftwaresuite-driver_<version>_all.deb`**
4. To install the ASUS NUC Pro Software Suite application, enter **`sudo dpkg -i asus-nucprosoftwaresuite_<version>_amd64.deb`**
5. Command to verify the driver installation
`lsmod | grep intel_npss`
6. Command to check service running
`systemctl status AsusNucProSoftwareSuite.service`
7. Command to stop Service
`sudo systemctl stop AsusNucProSoftwareSuite.service`

NOTE: Always use the latest version number of the installation files in the commands above.

2.3 Configuration tool installation on host PC

1. Locate and open **Terminal** on your host PC.



3 ASUS NUC Pro Software Suite - Configuration Tool

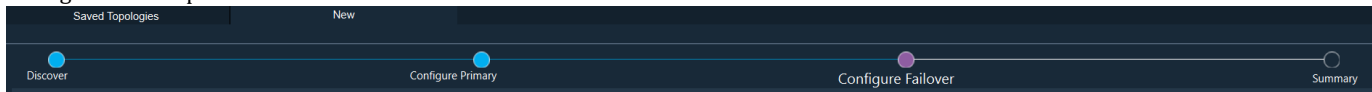
The **ASUS NUC Pro Software Suite - Configuration Tool** provides step-by-step instructions to configure the target NUCs and set up the primary and secondary connection between the target system and displays.

Do not install the configuration tool on the target NUCs. Instead, install the configuration tool on a host PC that is on the same network as the target NUCs.

If you have not installed the configuration tool yet, refer to the installation section for [Windows](#) and [Linux](#).

1. To begin configuration, Launch the '**ASUS NUC Pro Software Suite – Configuration Tool**' and switch to the **New** tab.
NOTE: Strictly follow the steps in the **Failover Configuration Illustration** animation for a successful connection.

2. Configuration Steps Indicator



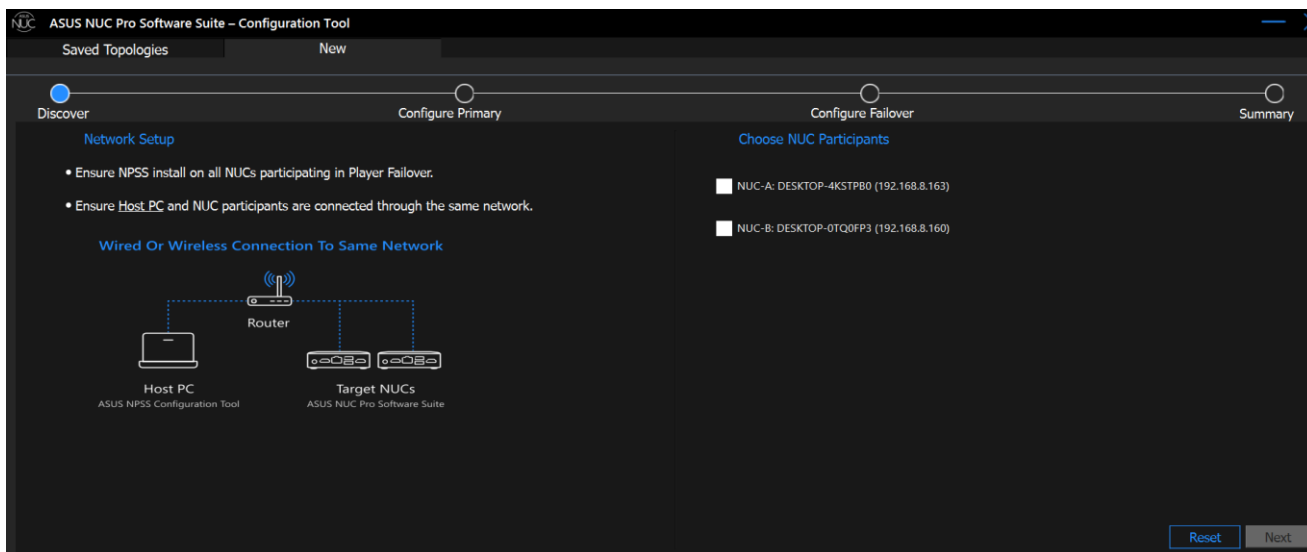
the icon indicates the check is incomplete or in progress.



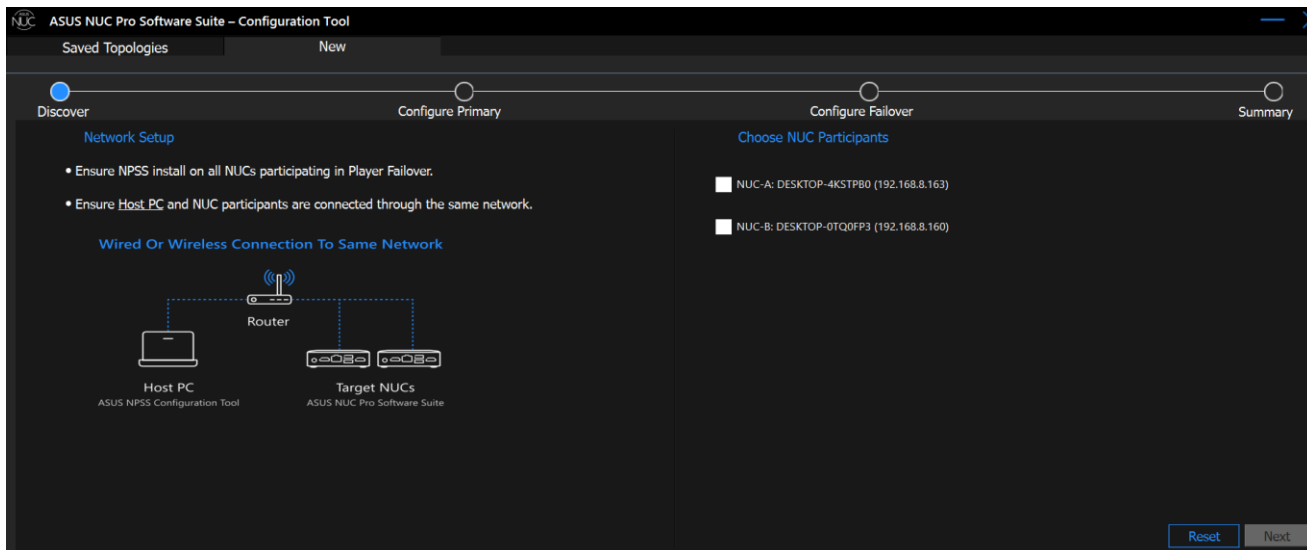
The icon indicates the check is complete.

3.1 Discover

Illustrates network setup details and displays NUCs discovered in the network

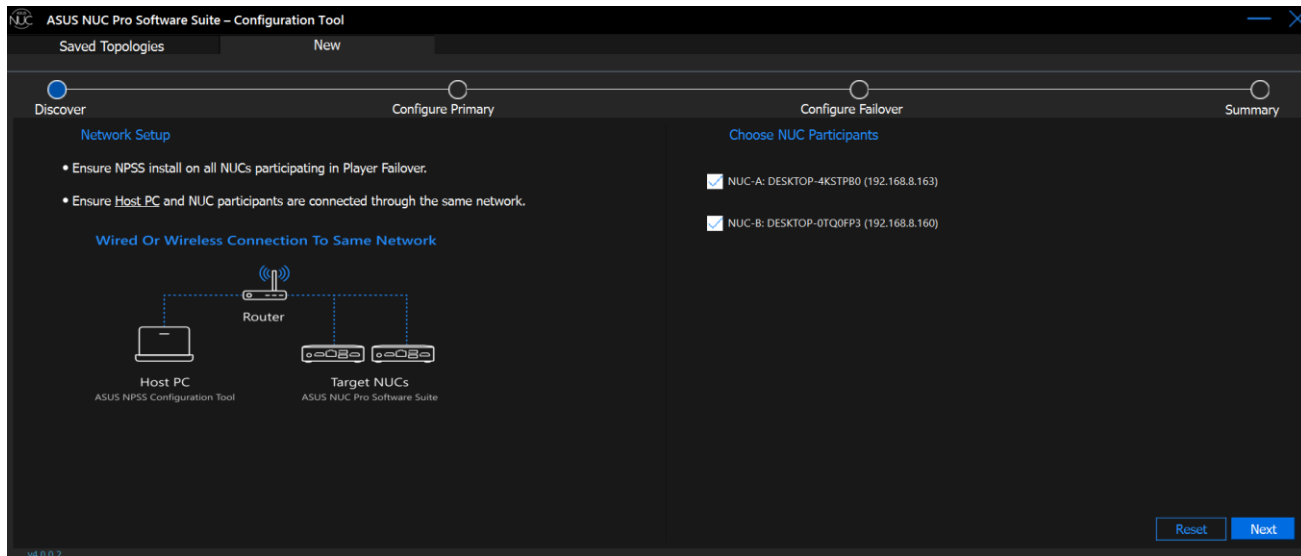


1. In Step 1, NUCs will be auto discovered and the available NUCs IP Addresses on the Local Network/Wi-Fi/LAN can be seen.



2. Select NUCs from the discovered NUC list for configuration and click Next.

Note: The user should select a minimum of 2 NUCs and up to 4 NUCs for Player Failover configuration.



3.2 Configure Primary

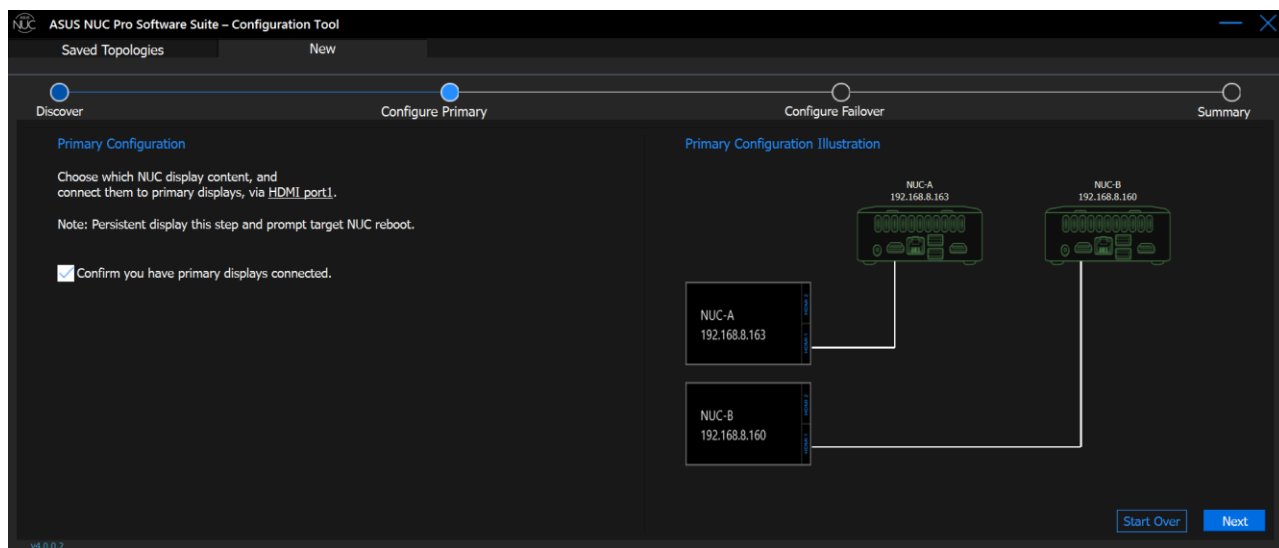
Steps to configure the primary connection will be displayed through animation for selected NUCs.

Connect the NUC and display as shown in the illustration of the Config Tool UI.

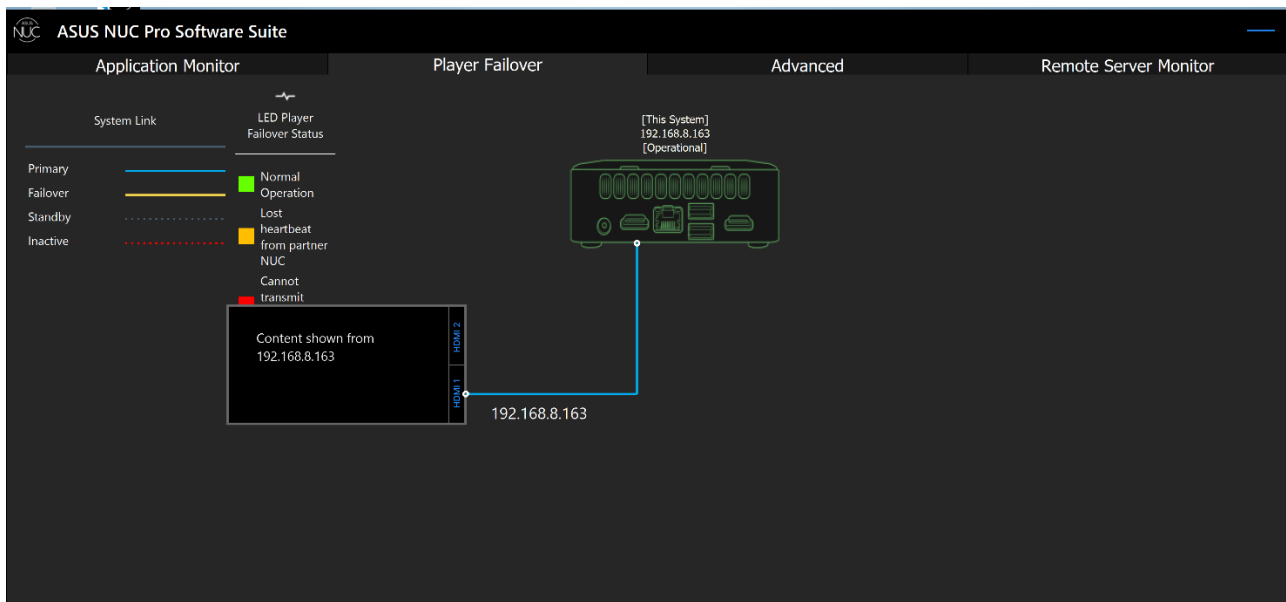
On Successful connection, the topology will be displayed on the config tool and NPSS.

Note: In middle of the configuration if we observe that the IP address automatically changed in either of the NUC then we need to do Startover and do the configuration again.

Configuration Tool:



NUC Pro Software Suite (NPSS):

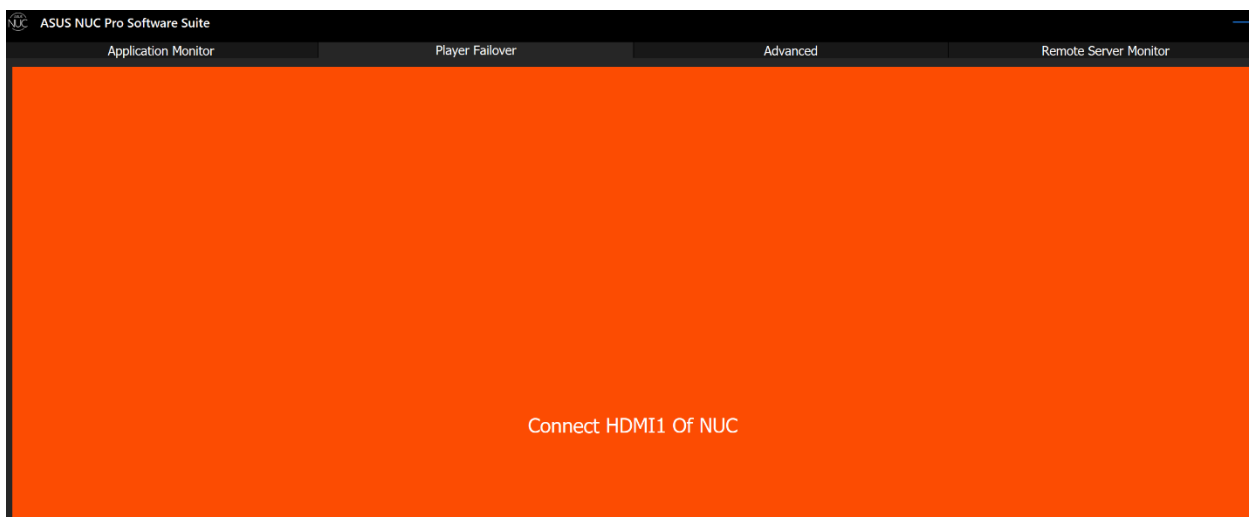


3.2.1 Primary Display Connected?

Connect the primary display's HDMI port connected to the primary port of the NUC.



Note: If the primary port connection is not established correctly between NUC and Display, an error message displays both in the config tool and in the ASUS NUC Pro Software Suite as below:

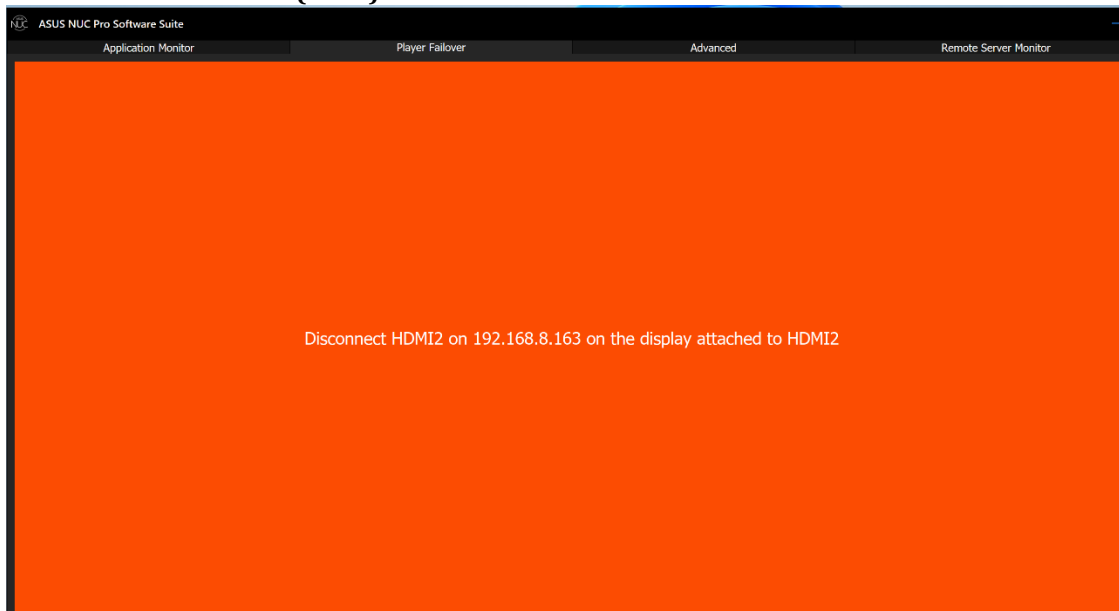


3.2.2 HDMI Port 2 Disconnected?

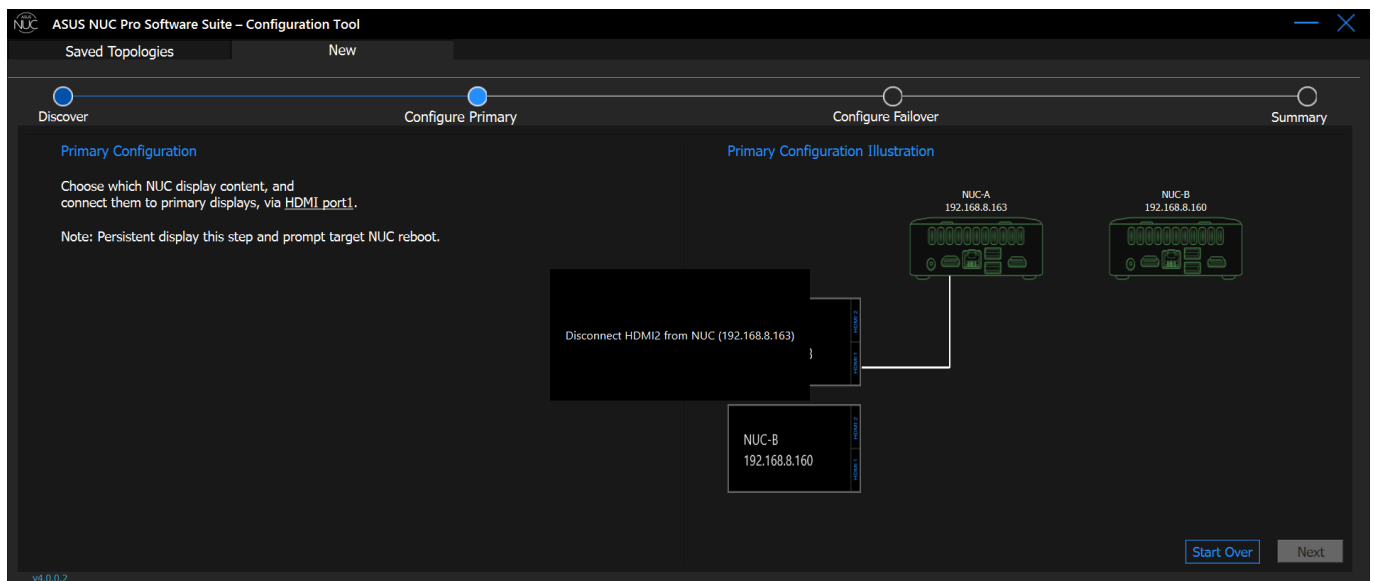
The Secondary connection (Dotted Line) must be disabled as we are configuring the Primary Connection to complete the configuration.

Note: If the Secondary Connection is not disabled, an error message displays in both the Config tool and ASUS NUC Pro Software Suite as below:

NUC Pro Software Suite (NPSS):

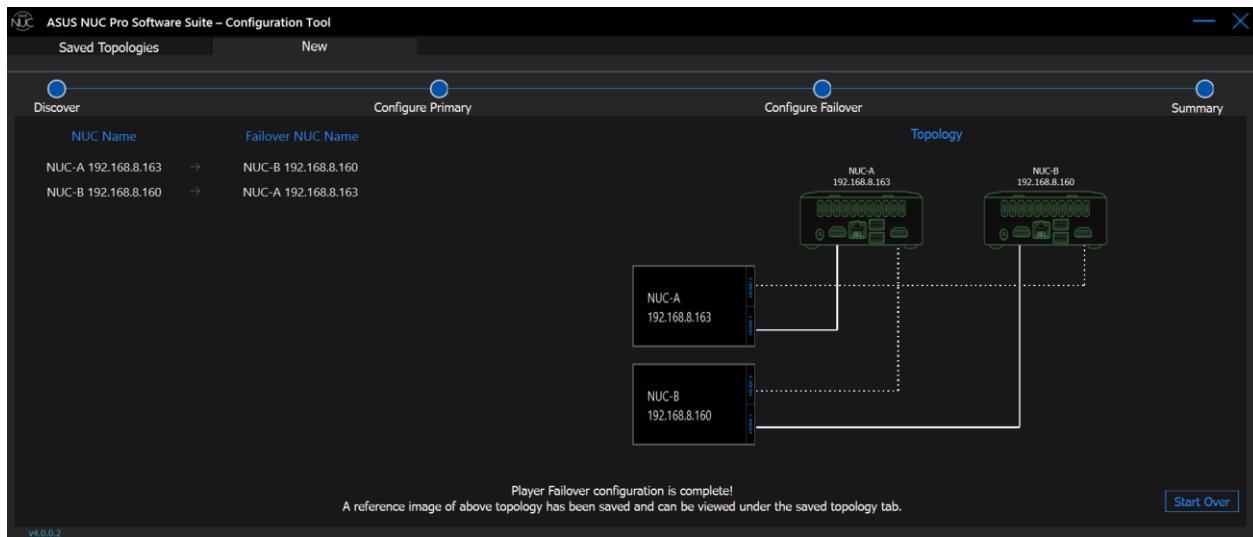


Configuration Tool:



3.3 Configure Failover

The animation will show the mechanism for configuration through dotted lines.



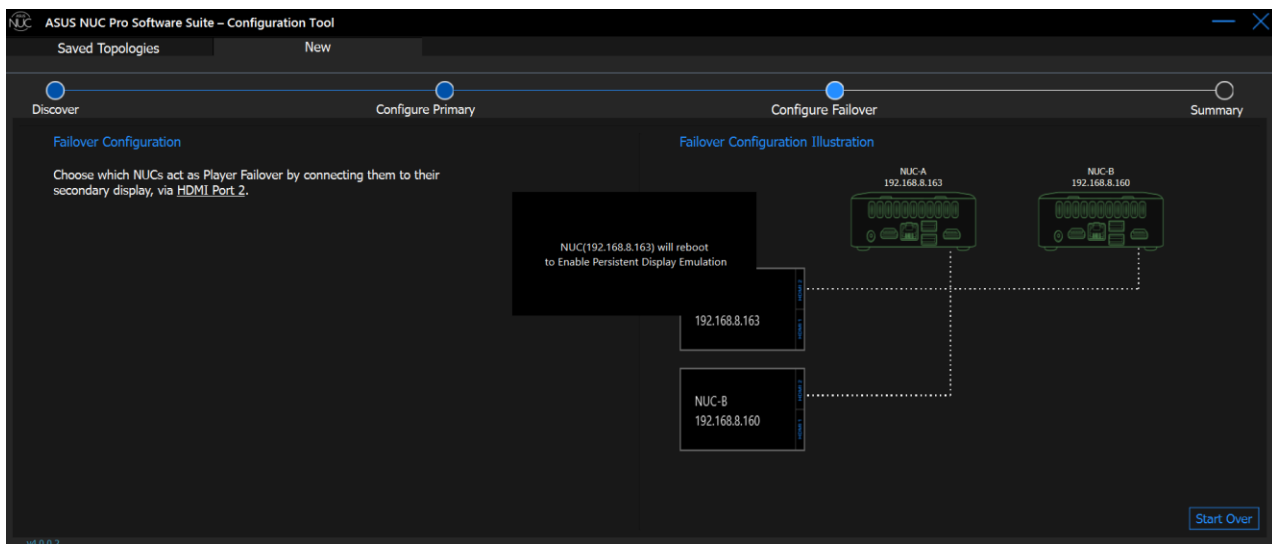
3.3.1 Connect port 2 of Display A to HDMI 2 of the redundant NUC

3.3.2 After a successful connection, the user can see a secondary connection (Dotted Line) between the display and NUC ports.

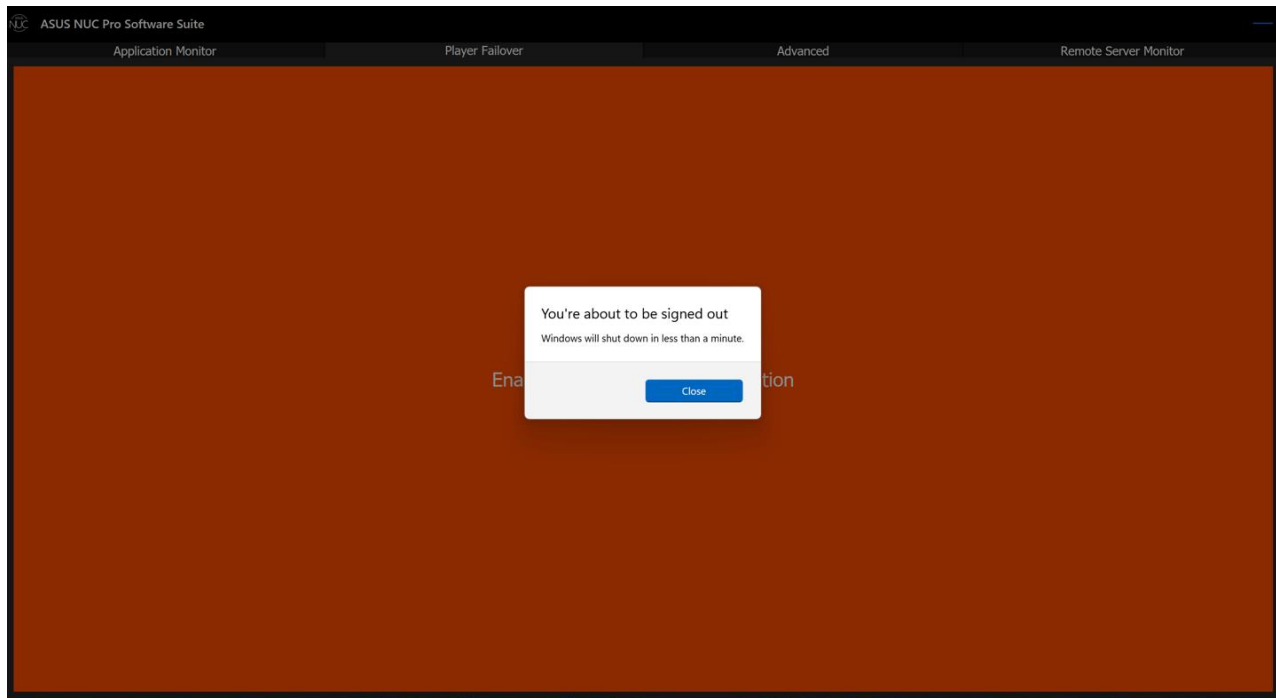
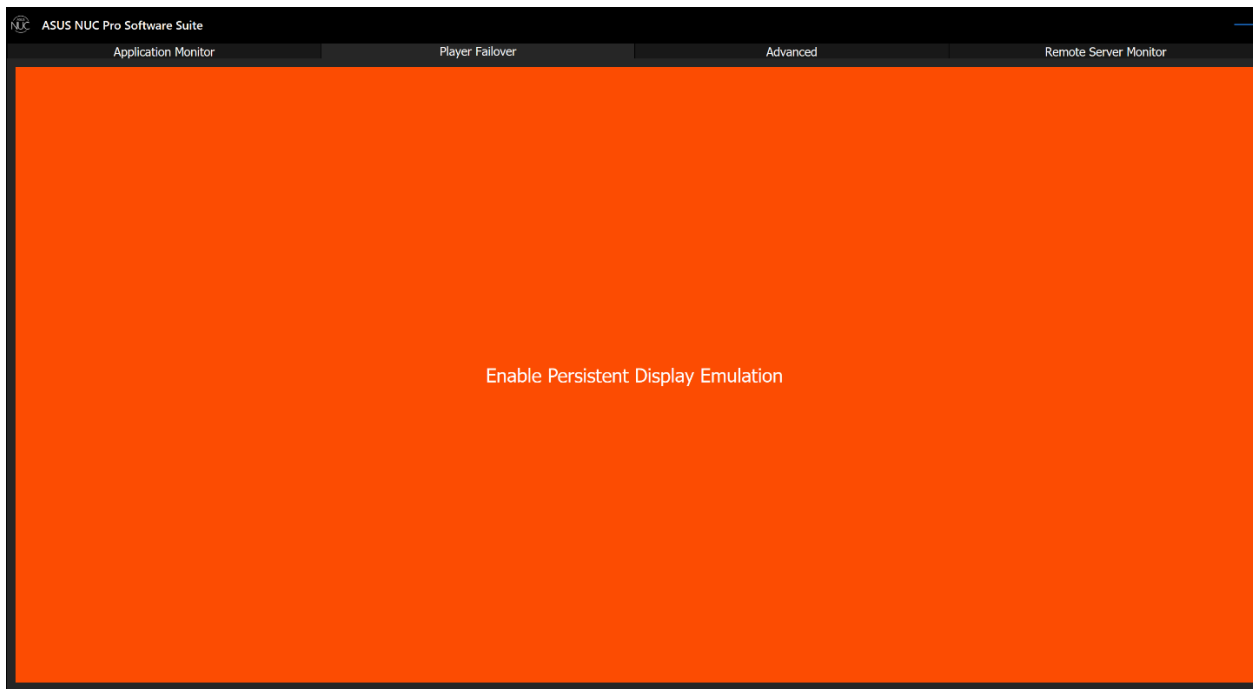
3.3.3 During configuration, Persistent Display Emulation will be automatically enabled/disabled. This feature allows for toleration of display connectivity interruptions without the operating system redetecting and rearranging the display layout.

NOTE: Make sure the latest BIOS is available in the system.

3.3.4 A message will be prompted stating that NUC will reboot to enable Persistent Display Emulation on the Configuration tool if it is not enabled.



3.3.5 NPSS will show the below message if Persistent Display is not enabled and then reboot.

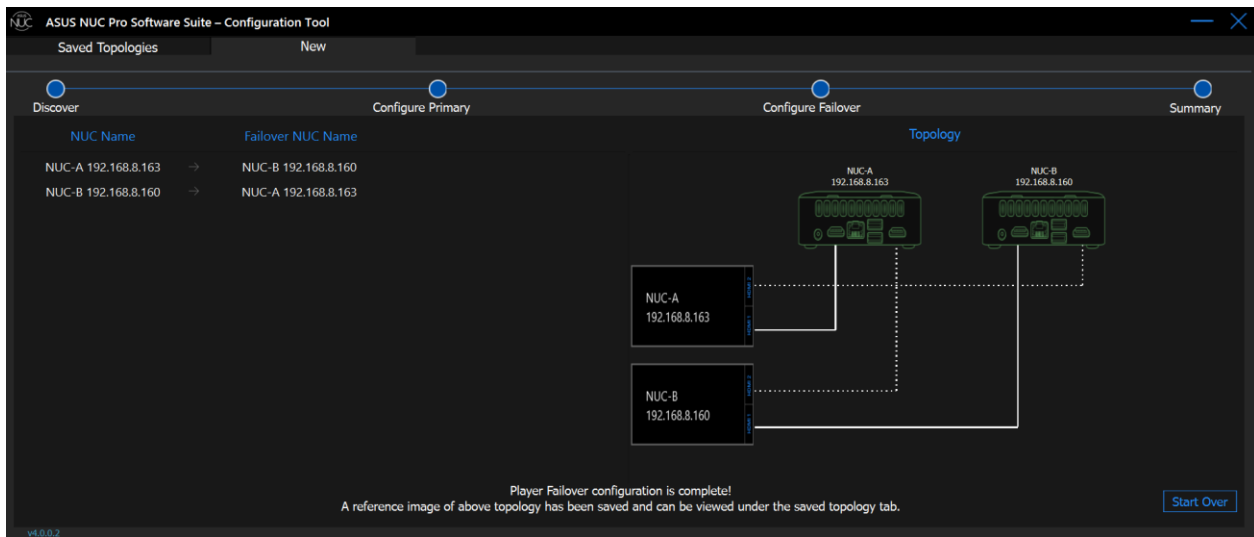


3.4 Summary

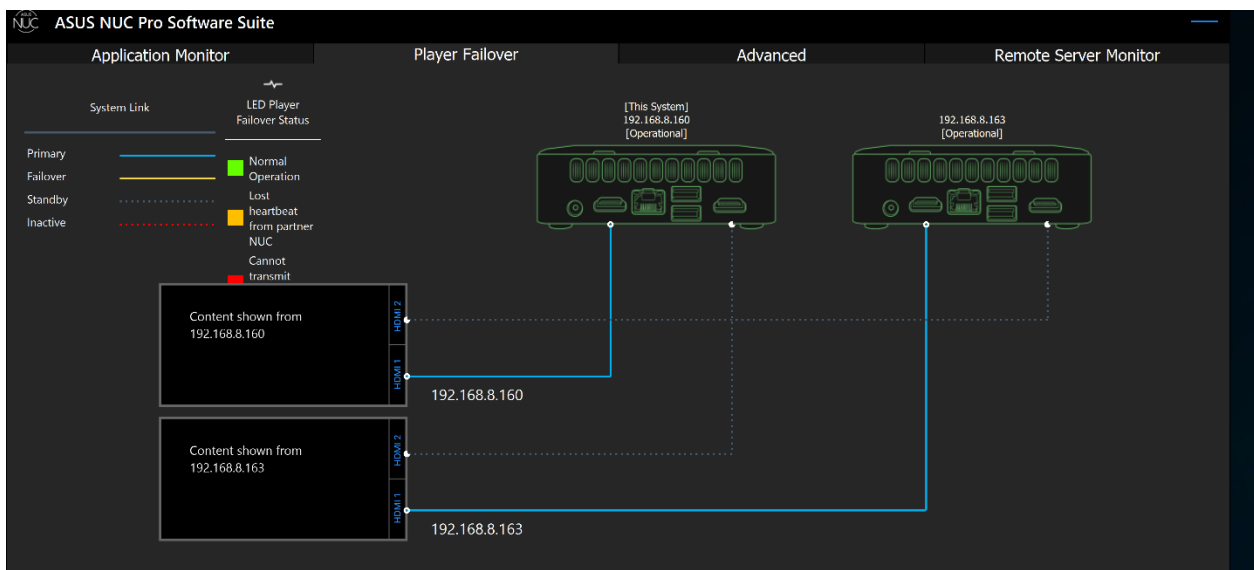
Perform the same steps for each Display or NUC. After a successful connection for NUCs, the displays are set to show the data or information from the NUCs.

To register another NUC, click the **Start Over** button and the user will be navigated to the [Step1:Discover](#).

Configuration Tool:



NUC Pro Software Suite (NPSS):



3.5 Saved Topologies

3.5.1 This tab includes below options:

- 1) **View topology:** To view the existing topology.
- 2) **Rename:** To change the name of the topology.
- 3) **Delete:** To remove the topology image.

