Connect

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Introduction

The following guide is intended to guide the user in how to install, uninstall, load and unload **Connect** on Linux.

Connect for Linux includes the **Guest** and **Host**.

The **Guest** can connect to a remote **Host** through the following communication protocols:

- Impero Portal
- Internet (TCP)
- LAN (TCP)
- WebConnect and WebConnect3

The **Host** uses the following communication protocols to connect to the **Guest**:

- Impero Portal
- Internet (TCP)
- LAN (TCP)
- UDP
- HTTP
- WebConnect and WebConnect3

Install

Before you install the **Host** and **Guest**, make sure that your computer meets the following minimum technical requirements:

Supported platforms: **32** & **64-bit**

- Red Hat Enterprise Linux 7
- Ubuntu 16.04, 18.04, 20.04
- SUSE 12

NOTE: Supported X Window System is X.org

Memory:

- For the **Guest** a minimum of 1 GB (2 GB recommended)

- For the **Host** a minimum of 512 MB (1 GB recommended)

Disk space:

- For the **Guest** a minimum of 410 MB

- For the **Host** a minimum of 45 MB

Video: any supported by X.org Server

NOTE: To be able to install the **Host** or **Guest**, make sure that the user logged on the computer has system user privileges.

To download the **Connect** for the supported Linux distributions refer to the following link.

- The download page includes separate installation or archive files for the **Guest** and **Host** depending on your Linux distribution.

- The archive file contains the following files:
  - `ca-certificates.crt`
  - `eula.txt`
  - `install.pl`
  - `installpubkey`
  - `Impero.pub`
  - `Impero-*.deb | Impero-*.rpm` (based on the Linux distribution in use)

`install.pl` is a Perl script file that handles the installation process via the terminal.

To list all the parameters of the `install.pl` Perl script, use the following command:

`install.pl --help`

`install.pl` parameters table:

Function	Command
`[--help]`	Prints the help message and exits.
`[--version]`	Prints the version info and exits.
`[--serial <serial>]`	Installs the **Guest │ Host** with the `<serial>` number license key.
`[--debug]`	Turns debugging on.
`[--license]`	Prints the **License**.
`[--autoinstall]`	Non-interactive installation assumes that you agree with the **License**.

Example:

For the non-interactive **Host** installations, use the following command:

`perl install.pl --autoinstall --host <serial>`

You can install the **Guest** and **Host** in two ways:

    A. You double-click on the `Impero-host_*.deb | rpm,` and `Impero-guest_*.deb | rpm` installation file within your desktop environment.

    B. Install them from the terminal.

NOTE: We recommend that you install the **Guest** and **Host** via the terminal.
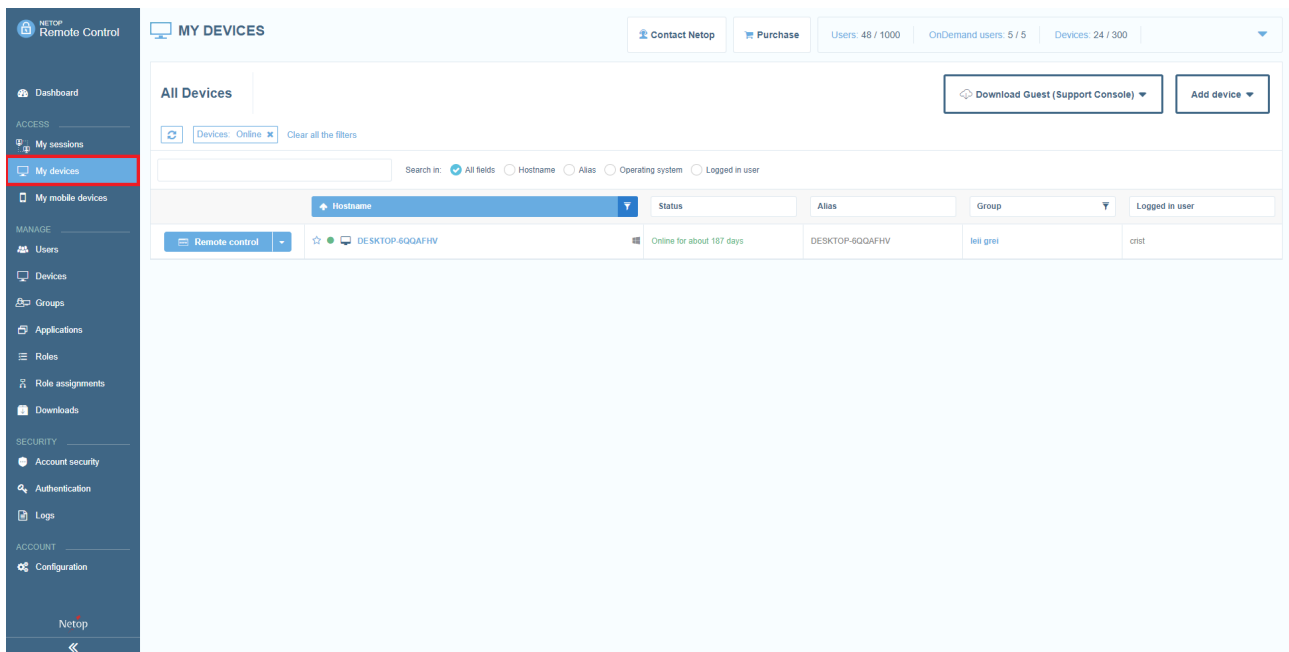
Download the Guest
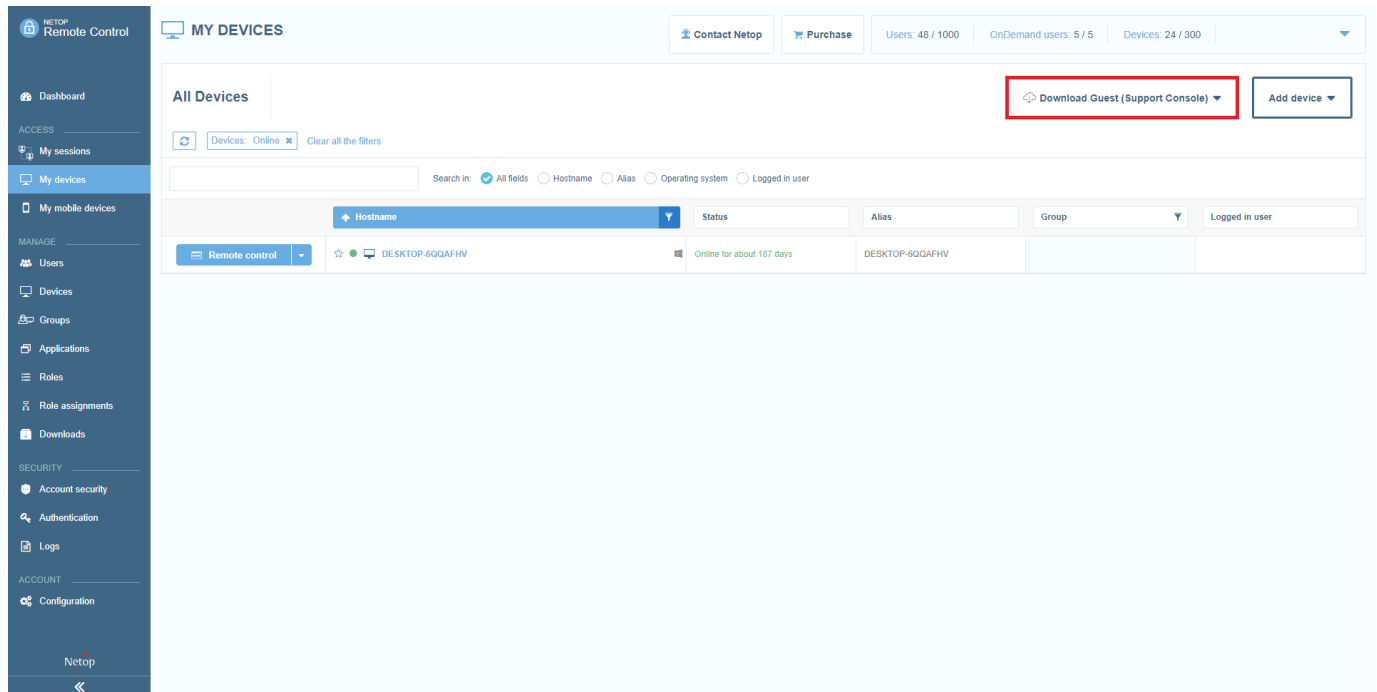
You can download the **Guest** from:

- the Portal

- the Impero website, by clicking on the following link

To download the **Guest (Support Console)** application from the **Portal**, proceed as follows:

1. Log in the **Portal**.

2. Go to the **My Devices** page.

3. Click on the **Download Guest (Support Console)** button.

4. Select the desired platform from the dropdown menu.
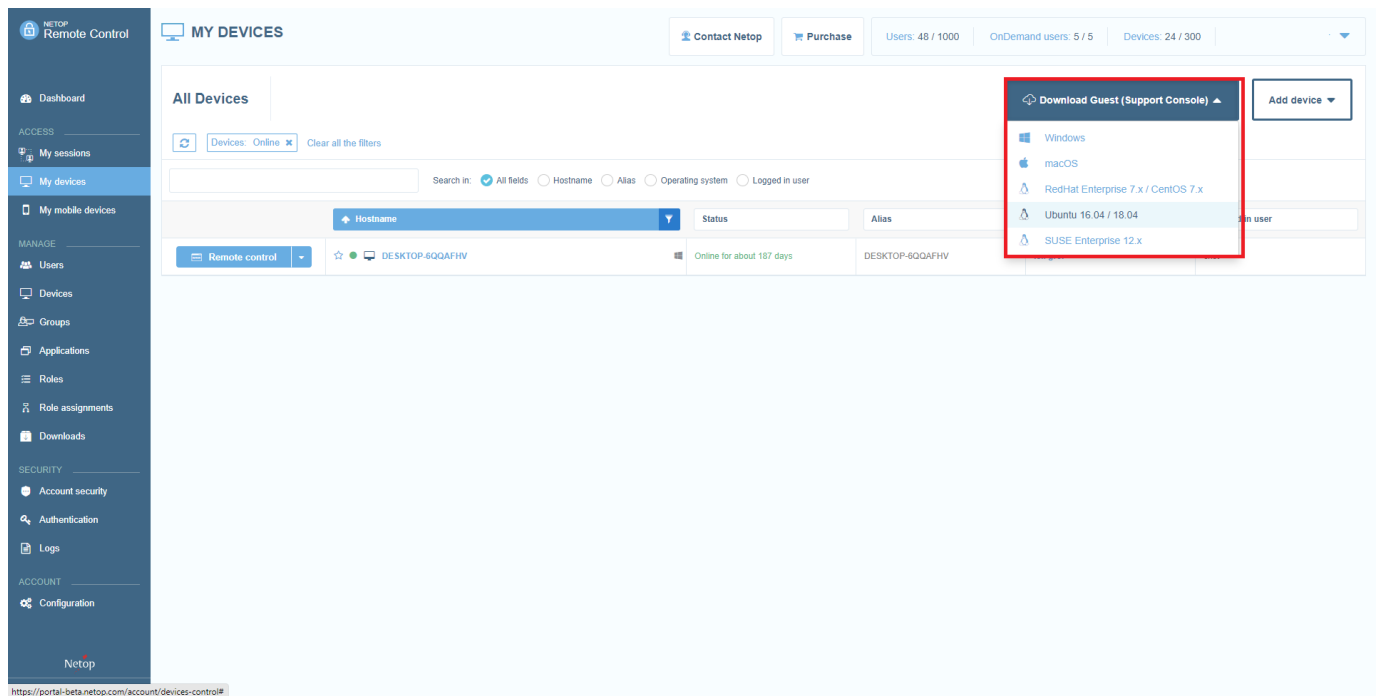
5. Save the archive.

Install the Guest

A. Install the **Guest** through the Software Install*

To install the **Guest** through the application software, proceed as follows:

1. Go to the file path of the extracted **Guest**.
2. Double click on the `Impero-guest_*.deb |rpm` installation file. The following window is displayed.
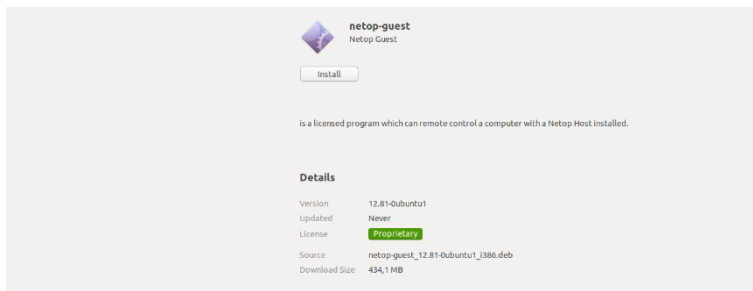
3. To install the **Guest**, click on the **Install** button.
4. Specify your password for authentication.

B. Install the **Guest** via the terminal*

To install the **Guest** via the terminal, proceed as follows:

1. Go to the file path of the extracted **Guest**.
2. Open up a terminal window.
3. Use the following Perl script to initiate the installation process:

   sudo perl install.pl
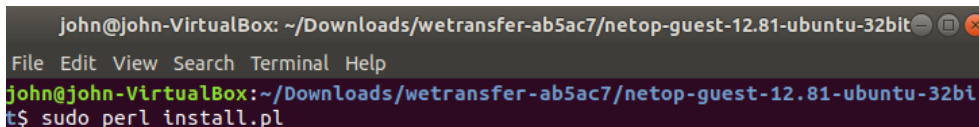
Specify the password for authentication.

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* The procedure applies to Ubuntu version 18.04.1 distribution of Linux.

4. As part of the installation process, it is necessary that you accept the **E**nd **U**ser **L**icense **A**greement.

5. Specify the type of license you want to use for the **Guest**. The following options are available:

- **Portal** – all communication happens using the **Portal** (a **Portal** account is required)
- **Trial** – a 15-day fully-featured trial
- **Custom** – specify the required license after buying the product

Guest installed successfully.

NOTE:
- You are prompted to specify a license key.
- If you do not specify a license key, **Guest** automatically installs itself in **trial** mode.

Download the Host

You can download the Guest from:

- the Portal

- the Impero website, by clicking on the following link

To download the **Host** application from the **Portal**, proceed as follows:

1. Log in the **Portal**.

2. Go to the **My Devices** page.
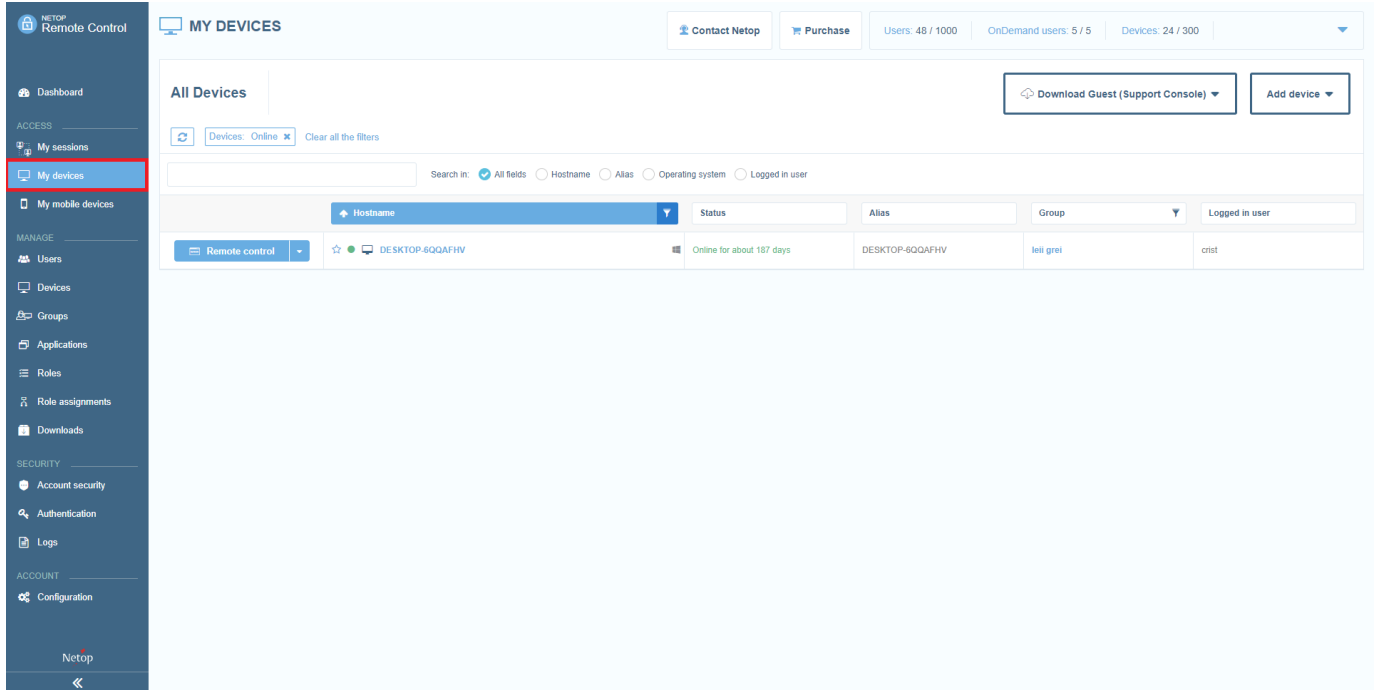
3. Click on the **Add device** button.
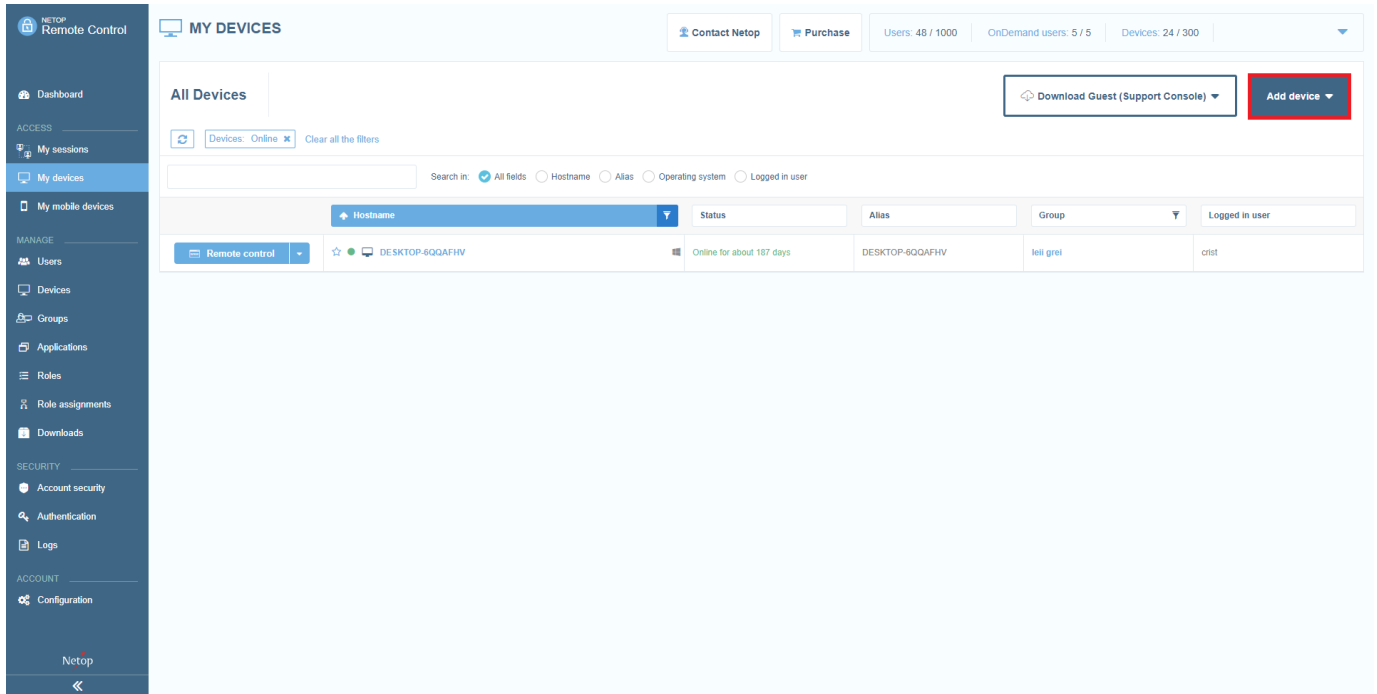
4. Select the **Host** for another operating system option from the dropdown menu.
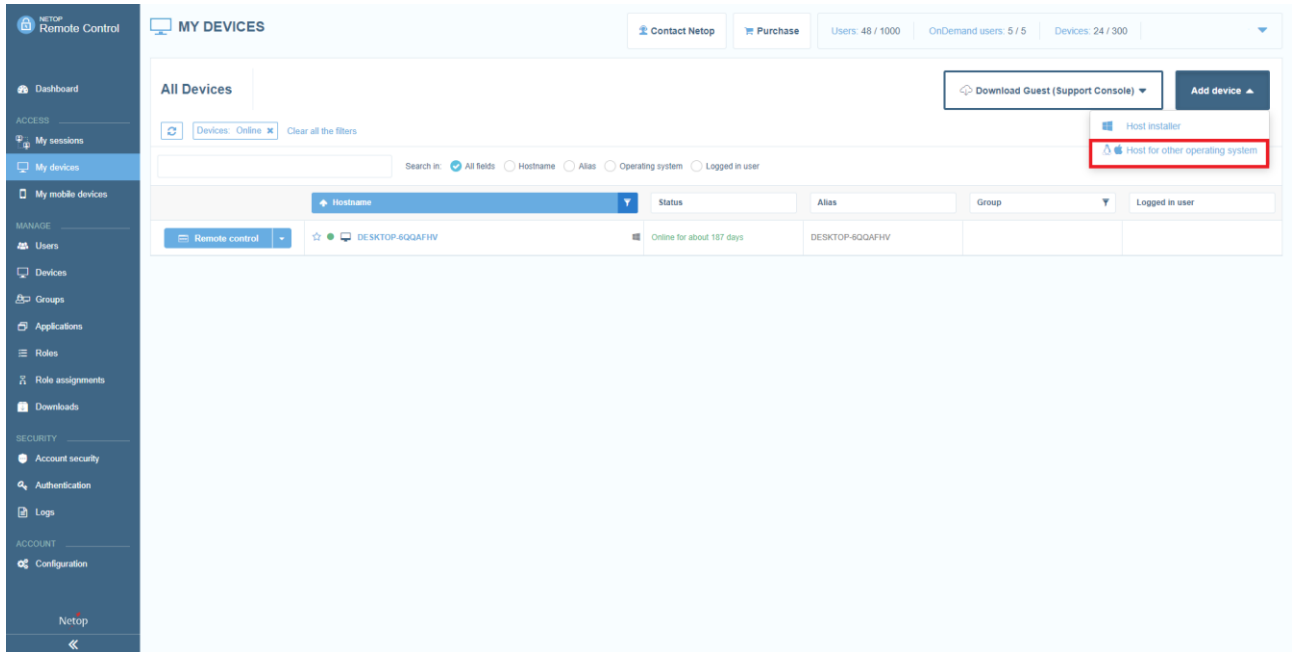
5. Select the **Host** for the desired platform.
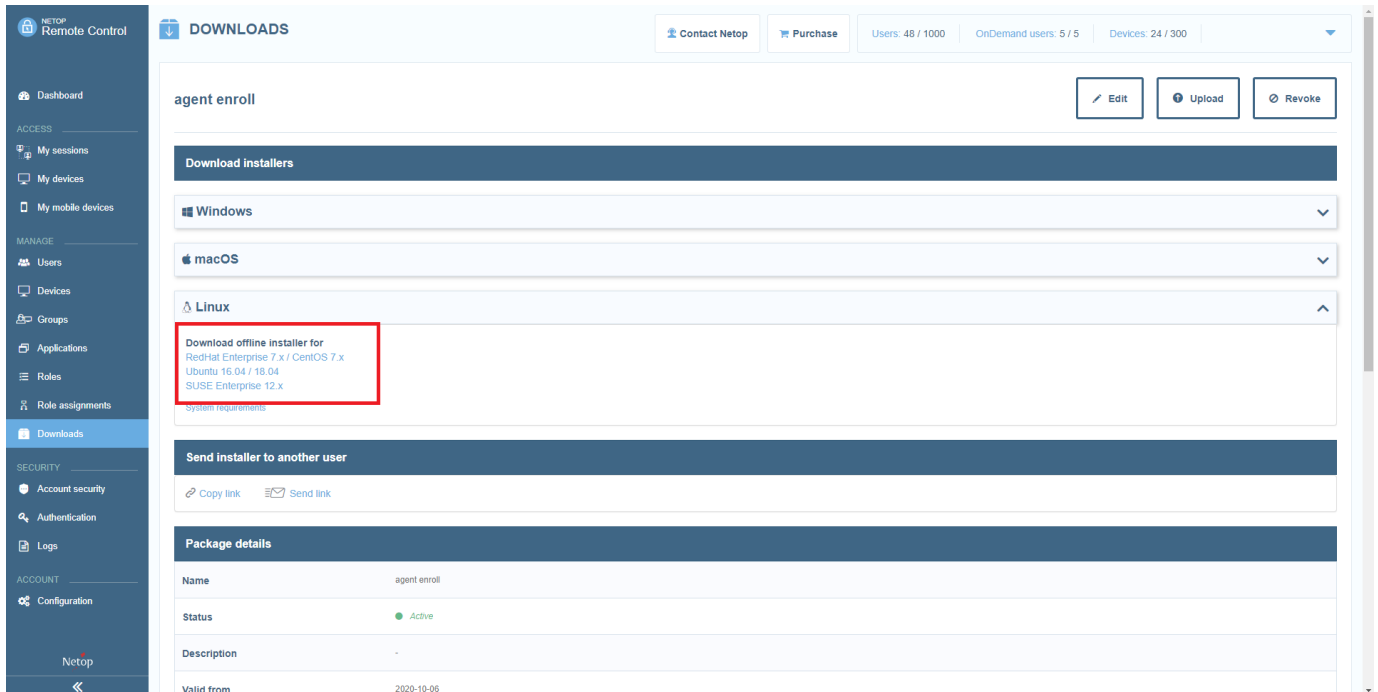
6. Save the archive.

Install the Host[*]

A. Install the **Host** via the Software Installer[*]

To install the **Host** via the Software Installer, proceed as follows:

1. Go to the file path of the extracted **Host**.
2. Double click on the `Impero-host_*.deb | rpm` installation file. The following window is displayed.
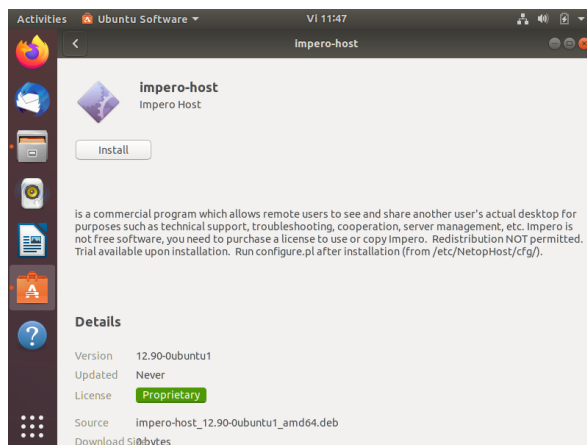
3. To install the **Host**, click on the **Install** button.
4. Specify the password for authentication.

B. Install the **Host** via the terminal[*]

To install the **Host** via the terminal, proceed as follows:

1. Go to the file path of the extracted **Host**.
2. Open up a terminal window.
3. Use the following Perl script to initiate the installation process:

```
sudo perl install.pl
```

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[*] The procedure applies to Ubuntu version 18.04.1 distribution of Linux.

[*] The procedure applies to Ubuntu version 18.04.1 distribution of Linux.

4. As part of the installation process, it is necessary that you accept the **A**cceptable **U**se **P**olicy.
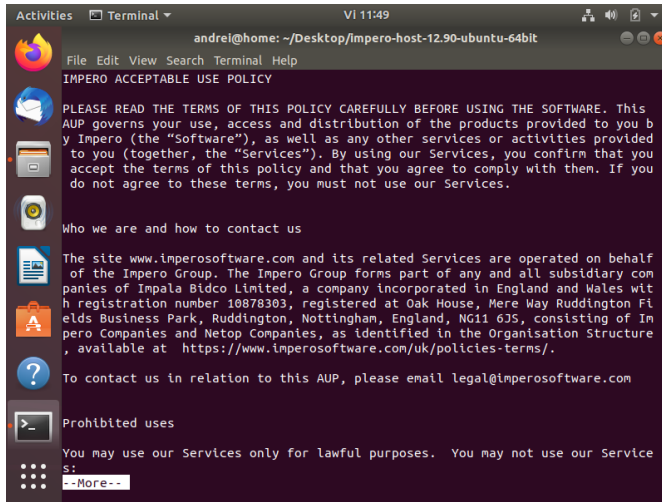
5. Specify the type of license you want to use for the **Host**. The following options are available:

   a. **Portal** – all communication happens using the **Portal** (a **Portal** account is required)

     i. Specify if you have a **Portal** account.
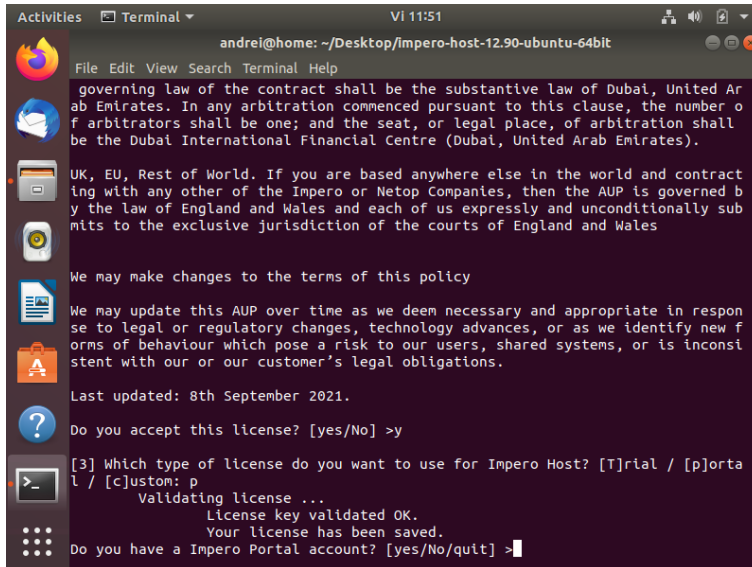
ii. Specify the enrollment key for your **Portal** account.

b. **Trial** – a 15-day fully-featured trial.
   i. Specify if you have a **Portal** account.
   ii. Specify the enrollment key for the **Portal** account.
c. **Custom** – specify the required license after buying the product.
   i. Enter the License key for the **Host**.

   NOTE:
   - You are prompted to specify a license key.
   - If you do not specify a license key, **Host** automatically installs itself in **Trial** mode.

   ii. Specify if you have a **Portal** account.
   iii. Specify the enrollment key.

Guest

Load and Unload the Guest

To load the **Guest**, execute the following command in a terminal window:

Imperoguest
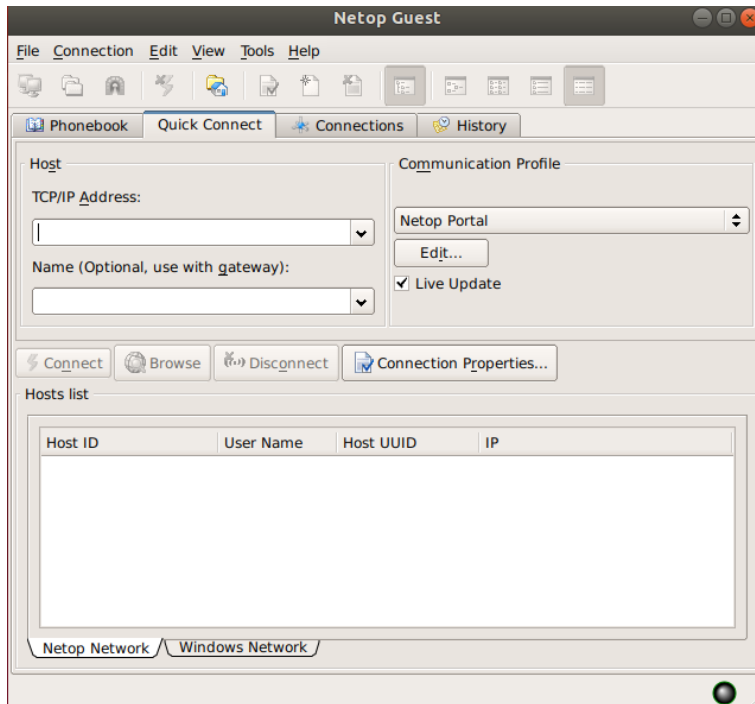
To unload the **Guest**, click on **Exit** from the **File** menu.

Impero Guest functionality

To connect to another port number than the **Impero** default port 6052, add the port number to the **Host** name or address after a colon, for example, 192.168.100.1:1234.

Host

Host includes the following programs:

- **Impero Host Daemon** (**Imperohostd**) - The **Impero Host Daemon** runs when the computer operating system starts. A user with system user privileges can start and stop the **Impero Host Daemon**.

- **Impero Host Program** (**Imperohost**) – The **Impero Host Program** loads and starts when the **Impero Host Daemon** loads. If started, the communication is initialized enabling a **Impero Guest** to connect. A user can typically control the **Impero Host Program** from the **Impero Host GUI**.

- **Impero Host GUI** (**Imperohostgui**) – The **Impero Host GUI** displays the **Impero Host** graphical user interface. It does not automatically load when the **Impero Host Program** loads. A user can load and unload the **Impero Host GUI**.

NOTE: Only a user with system privileges can make changes to the **Impero Host** program options.

Start and stop the Impero Host Daemon

The **Impero Host Daemon** starts and stops with the Linux operating system. A user with system user privileges can start, stop and report the status of the **Impero Host Daemon** with the following terminal window commands:

Command	Function	Description
`/etc/init.d/Imperohostd start`	Start	You use this command to start the **Impero Host Daemon** and load the **Impero Host Program**.
`/etc/init.d/Imperohostd restart`	Restart	You use this command to restart the **Impero Host Daemon** and load the **Impero Host Program**.

`/etc/init.d/Imperohostd status`	Status	You use this command to return a message of whether the **Impero Host Daemon** is running or not.
`/etc/init.d/Imperohostd stop`	Stop	You use this command to unload the **Impero Host Program** and stop the **Impero Host Daemon**.

Display and hide the Impero Host window

The **Impero Host GUI** doesn't automatically load when the **Impero Host Program** loads. If the **Impero Host Program** is loaded, execute the following command in a terminal window:

`Imperohostgui`

The **Impero Host** interface is displayed.
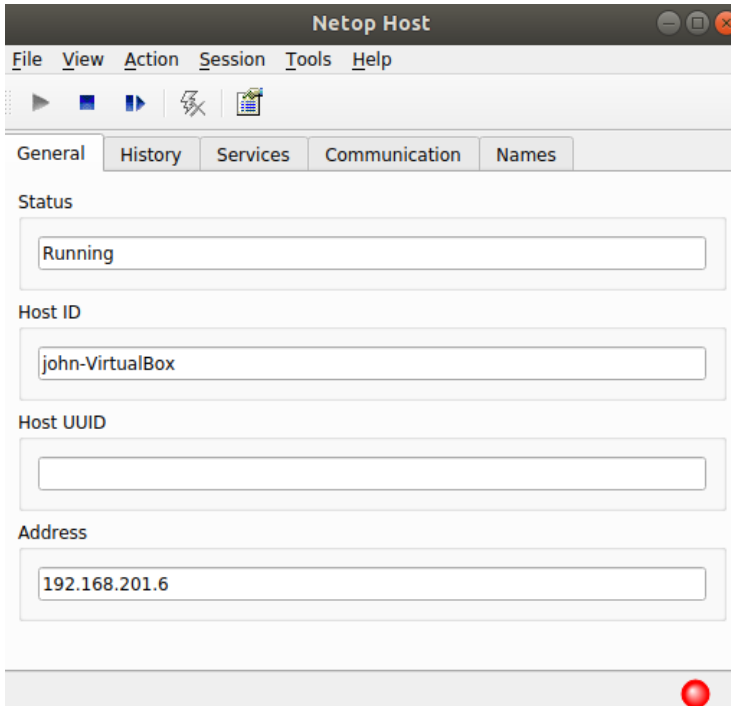
NOTE: The Impero**hostgui** command assumes that the **Impero Host GUI** program file is located in the **/usr/bin** directory or is located in a directory included in the global **PATH**. If the **Impero Host GUI** is located in another directory then specify the full directory path before the **Imperohostgui** command.

To unload the **Impero Host GUI**, click on **Exit** from the **File** menu.

Host Functionality

The **Host** window contains most of the **Host** for Windows window elements but has reduced functionality in comparison with the Windows version and the set up is organized differently.

The **Host** enables a remote **Guest** to connect by using the **TCP/IP**, **TCP/IP** (**TCP**), **Serial** (modem), **HTTP**, **WebConnect**, **WebConnect3**, and the **Impero Portal** communication protocols. Once authenticated, the **Guest** can view the remote screen, control the keyboard and mouse, transfer files between the computers, and interact with the end-user.

To change the setup options of the **Host**, click on **Options** on the toolbar or from the **Tools** menu. The **Impero Host Configuration** login window is displayed.

Specify a valid Linux username and the matching password.

NOTE: To change the setup options, make sure that you have the privileges to edit the `/var/opt/Impero/host/host.xml` file.

Click on **OK**. The **Impero Host Manager** is displayed.
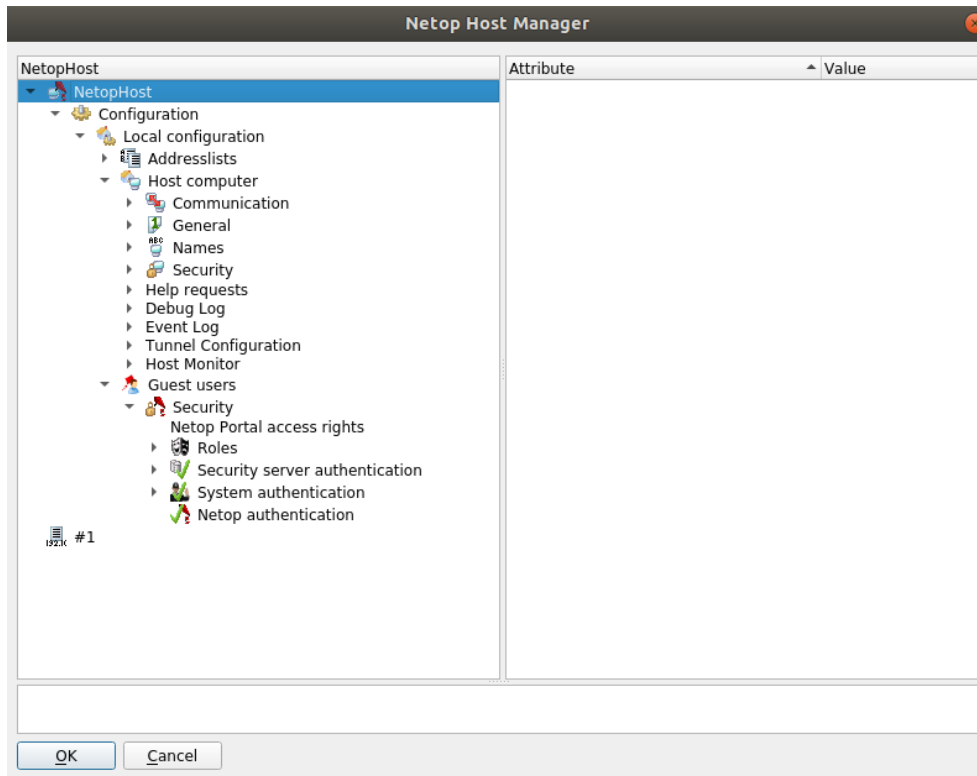
Uninstall

Uninstall the Guest

To uninstall the **Guest**, either use the operating system's package or as root execute the following commands in a terminal window:

- For **RedHat**, **CentOS**, **SUSE**:

  ```
  rpm -e Impero-guest
  ```

- For **Ubuntu**:

  ```
  sudo apt autoremove Impero-guest
  ```

Uninstall the Host

To uninstall the **Host**, either use the operating system's package manager or as root execute the following commands in a terminal window:

- For **RedHat**, **CentOS**, **SUSE**:

    rpm – e Impero-host

- For **Ubuntu**:

    sudo apt autoremove Impero-host

Refer to the specific package manager of your distribution that you are using for more information on how to remove the installed packages.