



NVIS APP INSTRUCTIONS

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MacOS NVIS Alert GUI Instructions

Overview

The NVIS App is a dock icon app that allows you to do all NVIS commands without having to use the Terminal shell. CLI. The app is loaded from a disk image (DMG) file.

The mapping to NVIS commands is reflected in this table:

Button	CLI	Privilege
Install/Update	(nvis_macos_inst install equiv)	✓
About	nvis -v	
Reload	nvis_macos_inst refresh	✓
Set Address	nvis -ga <addr>	✓
Settings	nvis -gl	
NVIS IP	nvis -s	
ON	nvis on	✓
OFF	nvis off	✓

QuickStart

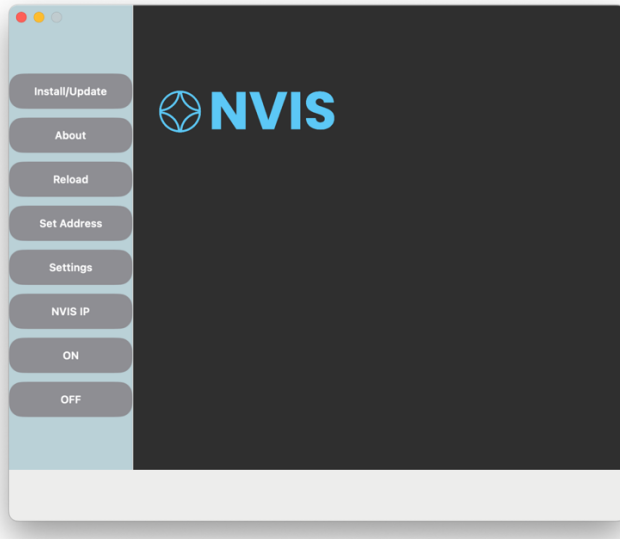
There are two versions of NVIS for Mac. **NVIS App** is the latest for M1/M2/M3 (arm64), and x86_64 (Universal). Which you could run with Rosetta.

Either can be downloaded from <https://nvis-inc.com/download> as DMG files.

Other than that, the attached instructions are the same for both.

The Quick Start is:

1. Download the arm64 or x86_64 DMG
2. Click on DMG and it will mount the Installer. Launch it.
3. The installer lets you drag and drop **NVIS** to the Applications folder.
4. Launch NVIS You will see:



5. Press **Install/Update**. It will prompt you for the Admin password.
6. **IMPORTANT:** From here, you will have to go to System Settings, Privacy & Security to unblock the device driver.
7. You will then have to REBOOT to change the policy to load third party drivers. This is described here : <https://tunnelblick.net/cKextsInstallation.html> .
8. After rebooting, launch NVIS again. Press “Set Address” for your license. Here’s a demo license:

0x3b8a8ba0de39184c85c2a3d176acbac6eabb0e20

Press OK. It will promote you for the Admin password to save it.

8. Now it gets easy. You can press: **Settings** tot see your NVIS IP.
9. If all is well, you can press **ON**.
10. To test, you can click on this URL <http://10.0.1.65> . You should still see Paris 😊

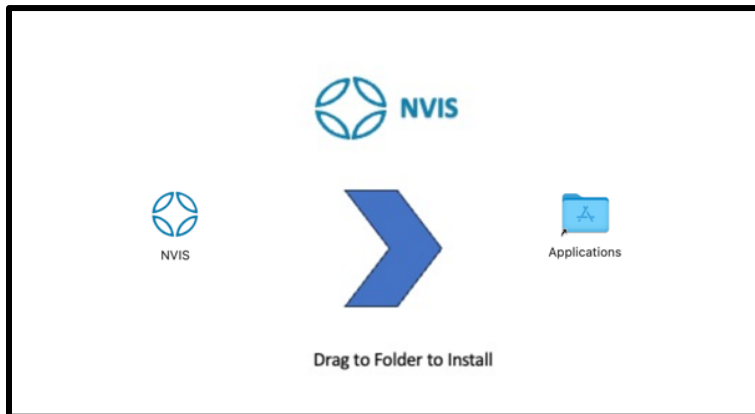
App Installation

1. Download DMG file: “**NVIS App Install <arm64, x86_64>.dmg**”
2. From the desktop double click the DMG. You will see:



NVIS App Install

3. Double click and you will see:



4. Drag the **NVIS** icon to the Applications folder.

5. You should now see the NVIS icon in your Applications and in the Launchpad
Click the app and you will see:



Setup and Operation

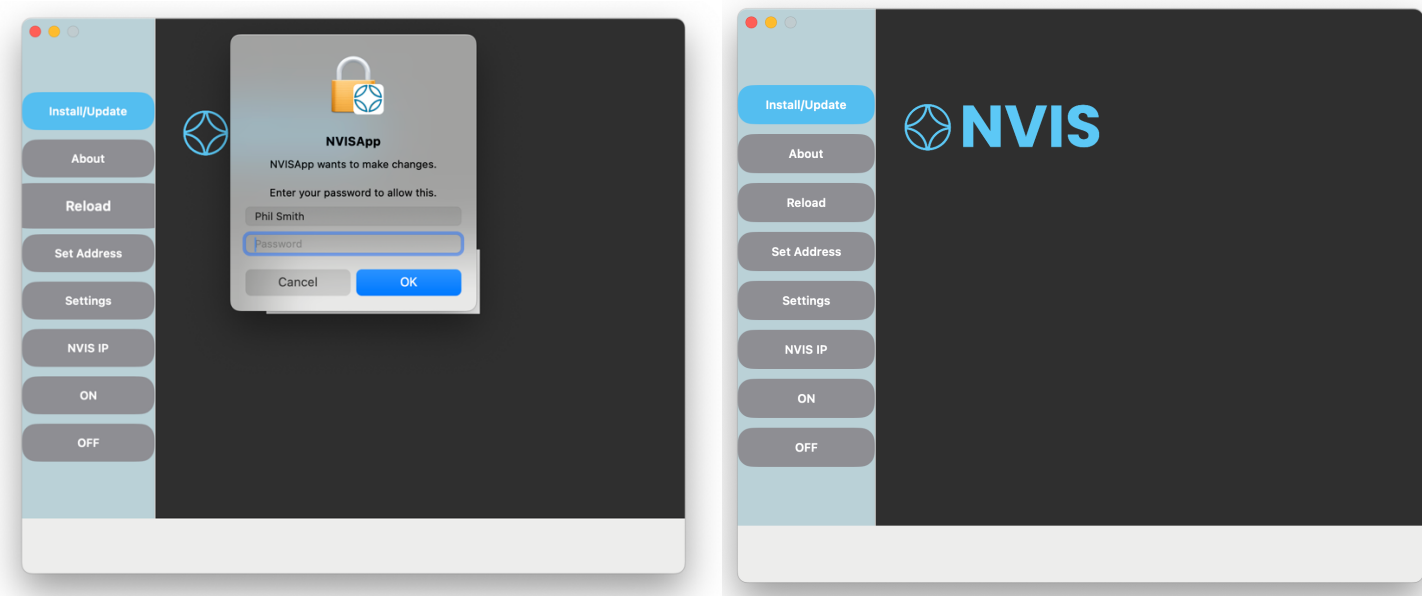
The NVIS App buttons organized in the order of use:

- Install/Update – installs or updates the NVIS CLI and drivers.
- About – to verify the version of the installed software.
- Reload drivers after a power off or cold-boot.
- Set Address – This is the “who am I “ query to the SDP using the assigned User Address for your node. It also let’s you change your identity.
- Settings – show the Group, NVIS IP for the User Address.
- NVIS IP – just show the secure IP address of your machine.
- ON – connects to your network segment / group
- OFF – disconnect from your group

The normal operation is just ON/OFF.

Install/Update

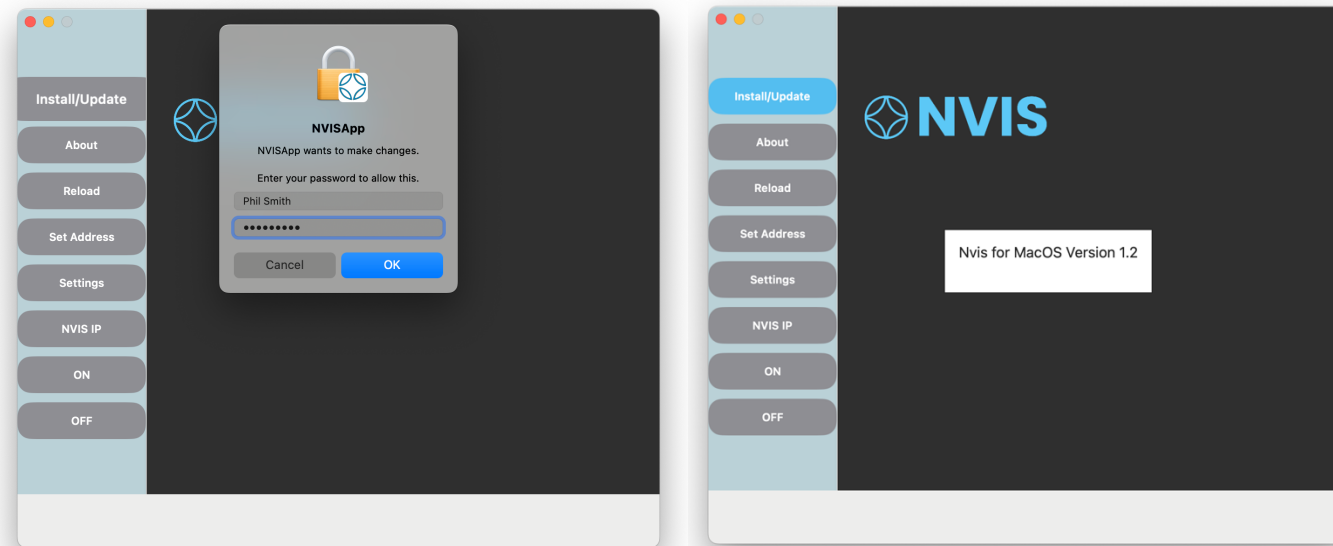
This button installs or updates the underlying NVIS commands and drivers.



NOTE: First time installation requires you to go to System Settings to enable the app, and Privacy and Security to enable third party driver load, then **REBOOT** to load the drivers.

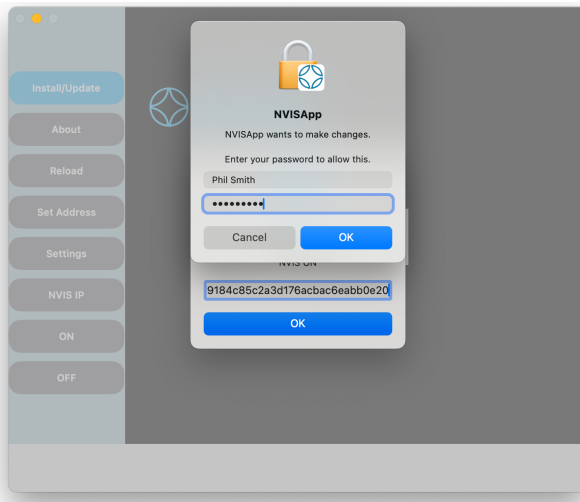
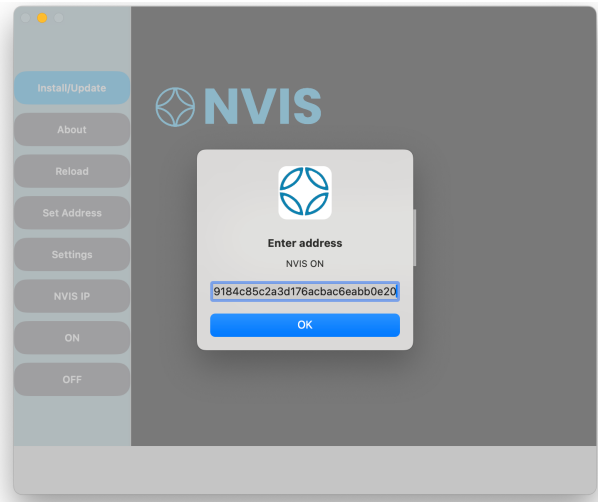
About

This returns the version and platform info:



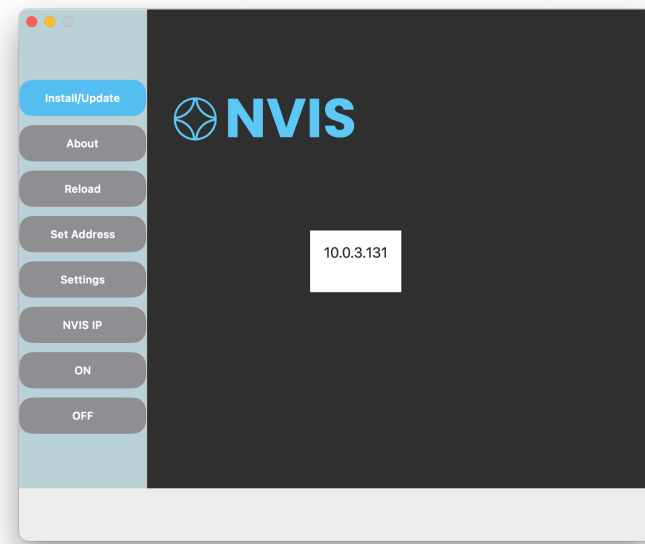
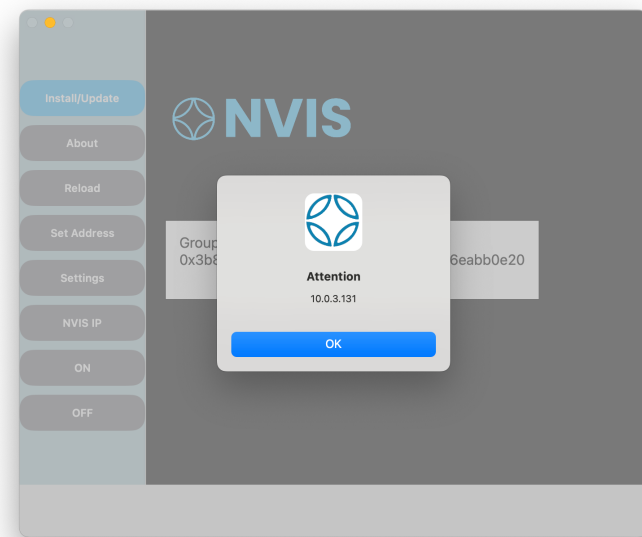
Set Address

You first must do a “who am I” query to get your assigned group, network and security information for your unique address.



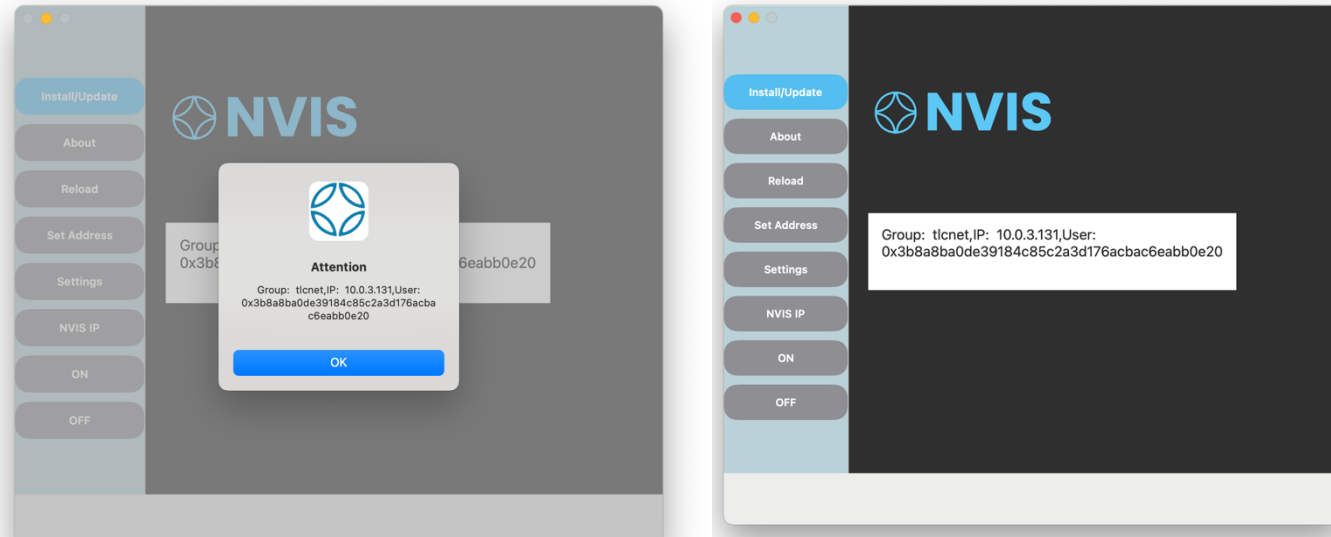
NVIS IP

This button shows the current IP



Settings

This command gets configuration. First time shows the NVIS IP on the main window. Clicking it again shows all details.

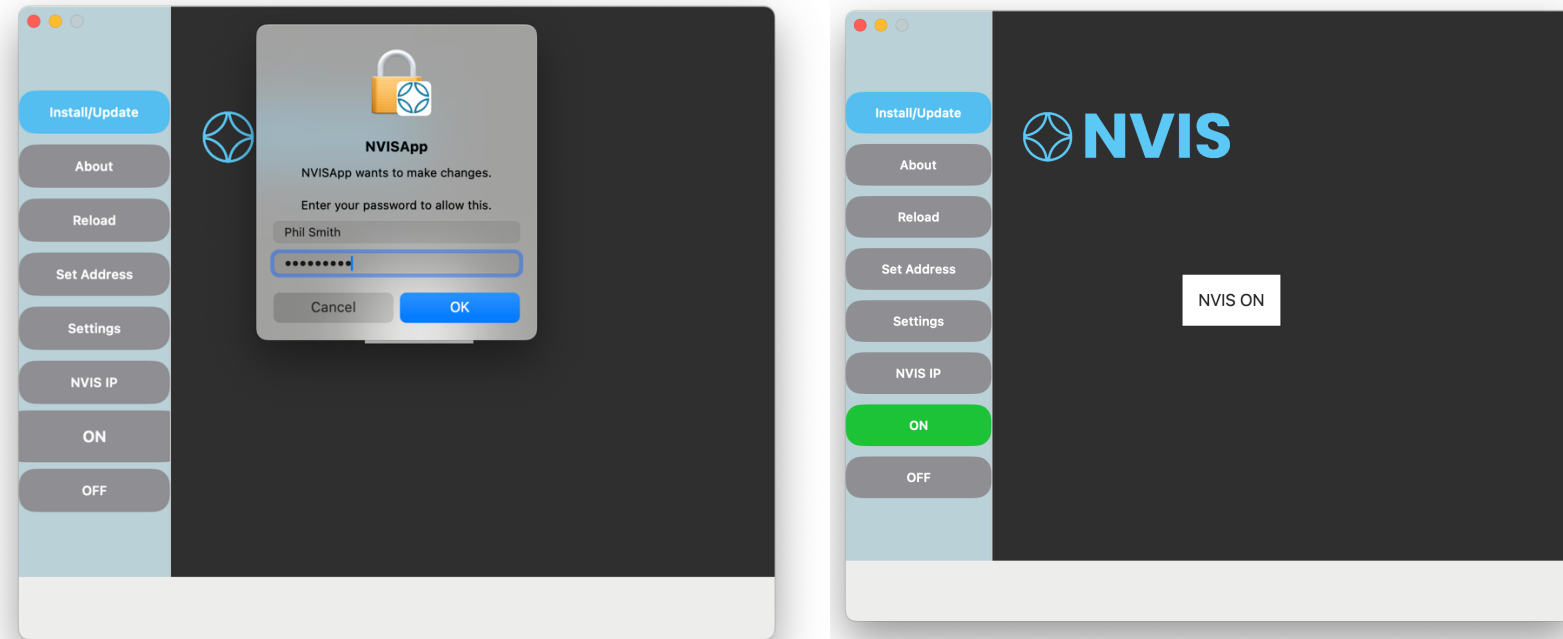


The details consist of:

- Group name
- NVIS IP
- User (Universal Unique Address)

ON

The ON button connects to the NVIS network. This requires Administrator (sudo) privileges, so a dialog will pop-up:

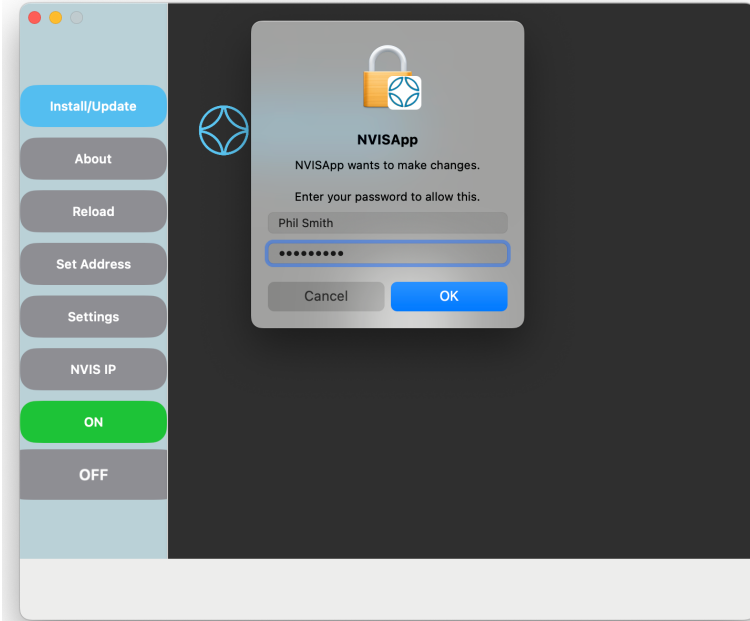


You may verify this in a Terminal window by pinging your own NVIS IP:

```
philsmith -- nvsi@vultr: -- bash -- 106x35
--- 10.0.1.55 ping statistics ---
370 packets transmitted, 239 packets received, 35.4% packet loss
round-trip min/avg/max/stddev = 177.694/187.401/494.336/20.227 ms
bash-3.2# ping 10.0.3.119
PING 10.0.3.119 (10.0.3.119): 56 data bytes
64 bytes from 10.0.3.119: icmp_seq=0 ttl=64 time=0.114 ms
64 bytes from 10.0.3.119: icmp_seq=1 ttl=64 time=0.227 ms
64 bytes from 10.0.3.119: icmp_seq=2 ttl=64 time=0.197 ms
64 bytes from 10.0.3.119: icmp_seq=3 ttl=64 time=0.241 ms
64 bytes from 10.0.3.119: icmp_seq=4 ttl=64 time=0.213 ms
64 bytes from 10.0.3.119: icmp_seq=5 ttl=64 time=0.212 ms
64 bytes from 10.0.3.119: icmp_seq=6 ttl=64 time=0.216 ms
64 bytes from 10.0.3.119: icmp_seq=7 ttl=64 time=0.132 ms
64 bytes from 10.0.3.119: icmp_seq=8 ttl=64 time=0.152 ms
64 bytes from 10.0.3.119: icmp_seq=9 ttl=64 time=0.151 ms
64 bytes from 10.0.3.119: icmp_seq=10 ttl=64 time=0.223 ms
64 bytes from 10.0.3.119: icmp_seq=11 ttl=64 time=0.153 ms
64 bytes from 10.0.3.119: icmp_seq=12 ttl=64 time=0.206 ms
64 bytes from 10.0.3.119: icmp_seq=13 ttl=64 time=0.176 ms
64 bytes from 10.0.3.119: icmp_seq=14 ttl=64 time=0.170 ms
64 bytes from 10.0.3.119: icmp_seq=15 ttl=64 time=0.145 ms
64 bytes from 10.0.3.119: icmp_seq=16 ttl=64 time=0.180 ms
64 bytes from 10.0.3.119: icmp_seq=17 ttl=64 time=0.187 ms
64 bytes from 10.0.3.119: icmp_seq=18 ttl=64 time=0.202 ms
64 bytes from 10.0.3.119: icmp_seq=19 ttl=64 time=0.203 ms
64 bytes from 10.0.3.119: icmp_seq=20 ttl=64 time=0.185 ms
64 bytes from 10.0.3.119: icmp_seq=21 ttl=64 time=0.186 ms
64 bytes from 10.0.3.119: icmp_seq=22 ttl=64 time=0.203 ms
64 bytes from 10.0.3.119: icmp_seq=23 ttl=64 time=0.173 ms
64 bytes from 10.0.3.119: icmp_seq=24 ttl=64 time=0.187 ms
64 bytes from 10.0.3.119: icmp_seq=25 ttl=64 time=0.105 ms
Request timeout for icmp_seq 26
Request timeout for icmp_seq 27
Request timeout for icmp_seq 28
```

OFF

The OFF button will disconnect from the NVIS network. It also requires Administrator (sudo) privileges. After running it, if you have a Terminal window running ping, you will see that it **times out** until you press ON.




```
philsmith — nvis@vultr: ~ — bash — 106x35
---- 10.0.1.55 ping statistics ----
370 packets transmitted, 239 packets received, 35.4% packet loss
round-trip min/avg/max/stddev = 177.694/187.401/494.336/20.227 ms
bash-3.2# ping 10.0.3.119
PING 10.0.3.119 (10.0.3.119): 56 data bytes
64 bytes from 10.0.3.119: icmp_seq=0 ttl=64 time=0.114 ms
64 bytes from 10.0.3.119: icmp_seq=1 ttl=64 time=0.227 ms
64 bytes from 10.0.3.119: icmp_seq=2 ttl=64 time=0.197 ms
64 bytes from 10.0.3.119: icmp_seq=3 ttl=64 time=0.241 ms
64 bytes from 10.0.3.119: icmp_seq=4 ttl=64 time=0.213 ms
64 bytes from 10.0.3.119: icmp_seq=5 ttl=64 time=0.212 ms
64 bytes from 10.0.3.119: icmp_seq=6 ttl=64 time=0.216 ms
64 bytes from 10.0.3.119: icmp_seq=7 ttl=64 time=0.132 ms
64 bytes from 10.0.3.119: icmp_seq=8 ttl=64 time=0.152 ms
64 bytes from 10.0.3.119: icmp_seq=9 ttl=64 time=0.151 ms
64 bytes from 10.0.3.119: icmp_seq=10 ttl=64 time=0.223 ms
64 bytes from 10.0.3.119: icmp_seq=11 ttl=64 time=0.153 ms
64 bytes from 10.0.3.119: icmp_seq=12 ttl=64 time=0.206 ms
64 bytes from 10.0.3.119: icmp_seq=13 ttl=64 time=0.176 ms
64 bytes from 10.0.3.119: icmp_seq=14 ttl=64 time=0.170 ms
64 bytes from 10.0.3.119: icmp_seq=15 ttl=64 time=0.145 ms
64 bytes from 10.0.3.119: icmp_seq=16 ttl=64 time=0.180 ms
64 bytes from 10.0.3.119: icmp_seq=17 ttl=64 time=0.187 ms
64 bytes from 10.0.3.119: icmp_seq=18 ttl=64 time=0.202 ms
64 bytes from 10.0.3.119: icmp_seq=19 ttl=64 time=0.203 ms
64 bytes from 10.0.3.119: icmp_seq=20 ttl=64 time=0.185 ms
64 bytes from 10.0.3.119: icmp_seq=21 ttl=64 time=0.186 ms
64 bytes from 10.0.3.119: icmp_seq=22 ttl=64 time=0.203 ms
64 bytes from 10.0.3.119: icmp_seq=23 ttl=64 time=0.173 ms
64 bytes from 10.0.3.119: icmp_seq=24 ttl=64 time=0.187 ms
64 bytes from 10.0.3.119: icmp_seq=25 ttl=64 time=0.105 ms
Request timeout for icmp_seq 26
Request timeout for icmp_seq 27
Request timeout for icmp_seq 28
```

Reload

This button reloads the network device drivers. This may be needed after a power-off or reboot.

Command Line Interface

Installer

NVIS includes a command line installer, `nvis_macos_inst`.

Install/Update

The CLI option to install is::

```
nvis_macos_inst install
```

Uninstall

The CLI option to remove the installation is:

```
nvis_macos_inst uninstall
```

Reload drivers

After a power off / shutdown or cold—boot, the drivers may need to be reloaded. This can be done by the command::

```
nvis_macos_inst refresh
```

After “Install” from the App or CLI, the following command line interface (CLI) utilities are provided:

`nvis`

Options:

```
nvis on           Connect to the network.
```

<code>nvis off</code>	Disconnect from the network
<code>nvis -s</code>	Gets the current connection status
<code>nvis -h</code>	Program Help
<code>nvis -v</code>	NVIS Version
<code>nvis -ga addr</code>	Add a new group identity
<code>nvis -gl</code>	List groups

Popular Commands

Who Am I

You may set or change your identity via the command “nvis -ga”, for example:

```
nvis -ga 0xfb3b587728da03c540b3c124b193369c1271c421
```

Show Current NVIS IP

You may see your current NVIS IP using the show command:

```
nvis -s
```

List Group Settings

The current group settings (gGoup, NVIS IP and Address) can be seeing via this command:

```
nvis -gl
```

ON

Connect to the NVIS network. For your group/segment is easy:

nvis on

OFF

Disconnect from your group/segment:

nvis off