

## Operate LANforge Scripts from Windows.

**Goal**: Use an installation of LANforge and Perl on a Windows computer to operate tests and manage connections on remote LANforge computers.

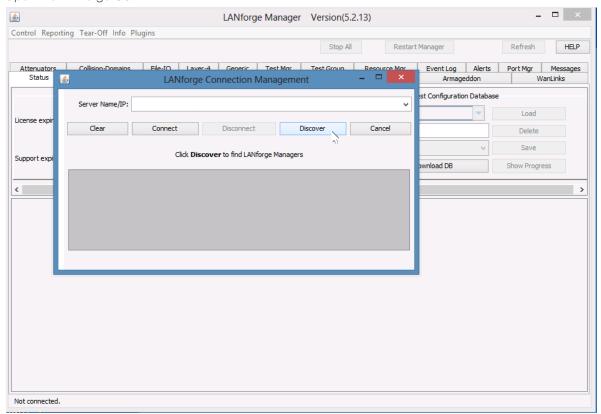
You do not need to connect to your LANforge manager using ssh or VNC to manage connections or operate tests. In this cookbook, you will see an example of using the 1f\_firemod.p1 script which can give you port information. This example will require a Windows desktop with Java, ActiveState Perl, the LANforge Server and the LANforge GUI installed. You will not need to start the LANforge server on your Windows computer, so no licenses will be required for operating on the Windows computer. This cookbook assumes connectivity between the Windows computer and a running LANforge manager computer.



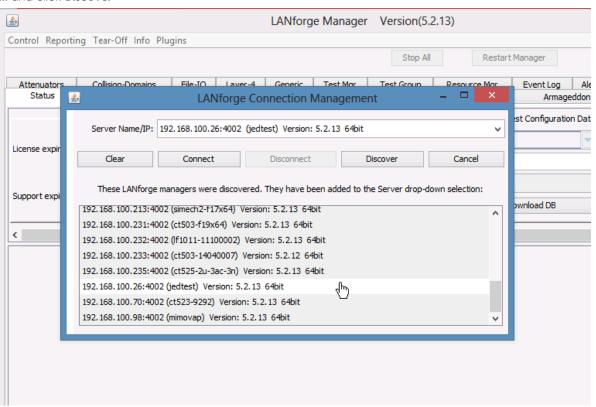


- 1. Prepare your Windows computer:
- 2. Install LANforge Server
  - A. You do not need to configure or start this server. Only the perl scripts directory of this installation will be used.
  - B. You can download it from our current releases page. For more information see LANforge Server Installation
- 3. Install LANforge GUI
  - A. You can download it from the same location.
  - B. Make sure you can connect to your LANforge manager. In this example, the LANforge manager will be at 192.168.100.26

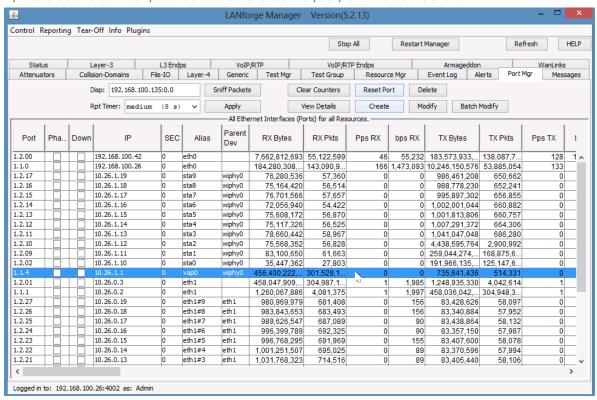
## C. Open the LANforge GUI



## D. ... and click Discover



E. If you are able to connect you should be able to browse your ports and connections.

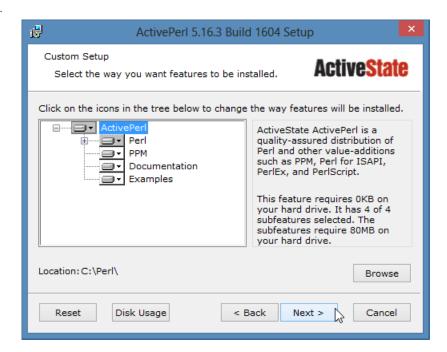


For more information see LANforge GUI Installation

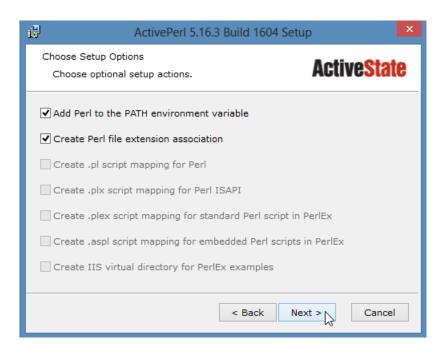
- 4. Install ActiveState Perl
  - A. Please download it from the ActiveState downloads page.
  - B. Begin and press next...



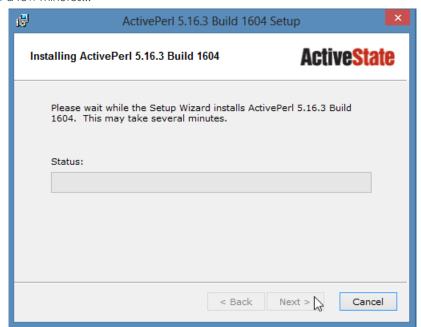
C. ...press next...



D. ...press next...



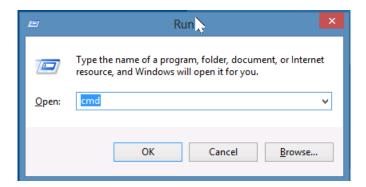
E. ...and then wait a few minutes...



F. Now, you are done, press Finish.



- G. For advanced GUI scripting in Windows, you may also wish to view the Win32::GuiTest perl module page.
- 5. Using scripts from Windows
  - A. The scripts installed on your Windows computer will communicate with the LANforge manager over the management port (TCP 4001).
  - B. Open a cmd window. Click Start->Run, type cmd and press Enter



В.

```
C:\Windows\system32\cmd.exe

Microsoft Windows [Uersion 6.2.9200]
(c) 2012 Microsoft Corporation. All rights reserved.

C:\Users\IEUser>_____
```

C. Change directory to C:\Program Files\LANforge-Server\scripts

```
C:\Windows\system32\cmd.exe

Microsoft Windows [Uersion 6.2.92001
(c) 2012 Microsoft Corporation. All rights reserved.

C:\Users\IEUser>cd "c:\Program Files"

c:\Program Files\cd LANforge-Server

c:\Program Files\LANforge-Server>cd scripts

c:\Program Files\LANforge-Server\scripts>
```

D. List the script files: dir \*.pl

E. Your installation of Perl should have put it into your path variable (%PATH%). Please verify that it did with this command: perl -v

```
C:\Program Files\LANforge-Server\scripts\perl -v

This is perl 5, version 16, subversion 3 (v5.16.3) built for MSWin32-x86-multi-thread (with 1 registered patch, see perl -V for more detail)

Copyright 1987-2012, Larry Wall

Binary build 1604 [298023] provided by ActiveState http://www.ActiveState.com

Built Apr 14 2014 14:32:20

Perl may be copied only under the terms of either the Artistic License or the GNU General Public License, which may be found in the Perl 5 source kit.

Complete documentation for Perl, including FAQ lists, should be found on this system using "man perl" or "perldoc perl". If you have access to the Internet, point your browser at http://www.perl.org/, the Perl Home Page.

c:\Program Files\LANforge-Server\scripts\__
```

- F. If perl is not found (Command not found) then you might need to close your DOS window and open a new one, or your Windows computer might need a reboot for the PATH variable to take effect.
- G. Start the 1f\_firemod.p1 script with the --help switch to see the options.

- A. perl lf\_firemod.pl --help
- H. Open a second cmd window so that you can see the help text in the first window. Change directory toC:\Program Files\LANforge-Server\Scripts
- I. Use this command to list ports available on 192.168.100.26:
  - A. perl lf\_firemod.pl --mgr 192.168.100.26 --resource 1 --action list\_ports

В.

```
C:\Program Files\LANforge-Server\scripts\perl lf_firemod.pl --mgr 192.168.100.26

--resource 1 --action list_ports
eth1 link=UP speed=1G
wiphy0 link=DOWN speed=UNKNOWN
eth0 link=UP speed=1G
wiphy1 link=DOWN speed=UNKNOWN
vap0 link=UP speed=UNKNOWN

C:\Program Files\LANforge-Server\scripts\_
```

J. Most command output shows considerably more text than the output of the previous command. You may want to pipe it to a file. In this example, the output is redirected to C:\tmp\port-vap0.txt and shown with

A. Query the port stats using: perl lf\_firemod.pl --mgr 192.168.100.26 --resource 1 --action show\_port --port vap0 > c:\tmp\port-vap0.txt

```
C:\Windows\system32\cmd.exe

Microsoft Windows [Version 6.2.9200]
(c) 2012 Microsoft Corporation. All rights reserved.

C:\Users\IEUser>cd "C:\Program Files\LANforge-Server\scripts"

C:\Program Files\LANforge-Server\scripts>perl lf_firemod.pl --mgr 192.168.100.26

--resource 1 --action show_port --port_name vap0 > c:\tmp\port-vap0.txt

C:\Program Files\LANforge-Server\scripts>
```

B. Show the output with: notepad c:\tmp\port-vap0.txt

