Network Tech Documentation

Release 2.8.0

Glen Harmon

Sep 01, 2021

Contents

SubReddit: SublimeNetworkTech

CHAPTER 1

Quick Start

1. Install Sublime Text
2. Install Package Control
3. **Install the package:** *Tools → Command Pallet*

   ```
   Package Control:  Install Package
   <enter>
   Network Tech
   <enter>
   ```

4. **Enable the syntax highlighting** *Tools → Command Pallet*

   ```
   Set Syntax:  Cisco IOS
   <enter>
   ```

CHAPTER 2

Contents

2.1 Install

1. Install Sublime Text 3
2. **Install Package Control** *Tools → Command Pallet*

   ```
   Install Package Control
   <enter>
   ```

3. **Install the package:** *Tools → Command Pallet*

   ```
   Package Control:  Install Package
   <enter>
   Network Tech
   <enter>
   ```

Note: Sublime Text 2 is not supported

2.2 Highlighting

Supported configurations:

- Cisco ASA
- Cisco ACE
- Cisco IOS
- Cisco IOS XR
- Cisco NXOS

Set the syntax from the command pallet

1. *Tools → Command Pallet* **OR** `ctrl+shift+p`
2. *Set Syntax: Cisco IOS* `<enter>`

File extensions

If a configuration file has a specific file extension and is opened in Sublime Text, the syntax will be automatically be set:

- Cisco ASA - *.cisco-asa - *.asa
- Cisco ACE - *.cisco-ace
- Cisco IOS - *.cisco-ios - *.ios
- Cisco IOS XR - *.cisco-ios-xr - *.ios-xr
- Cisco NXOS - *.cisco-nxos - *.cisco-nexus - *.nxos

2.3 Completions

Configuration snippets and autocompetions are suggested based off the syntax and configuration mode.

2.3.1 Mask Conversions

Manually Trigger the Completions Popup: `<ctrl>+<space>`

There are mask completions that convert between the different IPv4 mask types:

- Prefix Length: /24
- Subnet Mask: 255.255.255.0
- Wildard Mask: 0.0.0.255

Note: Prefix lengths will only complete if there is a space before the '/' character

- Right: " /24 "
- Wrong: " 1.2.3.4/24 "

The conversions are activated by typing the mask or opening the completions menu:

- Windows: `ctrl-space`

2.4 Quick Info

2.4.1 Networks

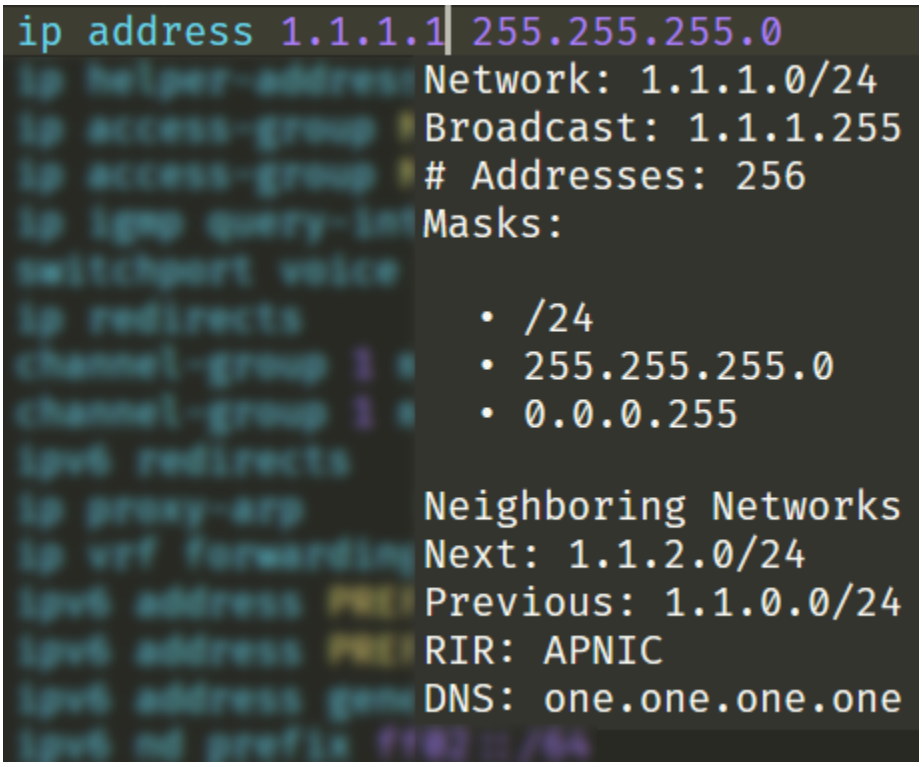
When you type or mouse over a network, subnet information is provided

This feature can be toggled on & off using:

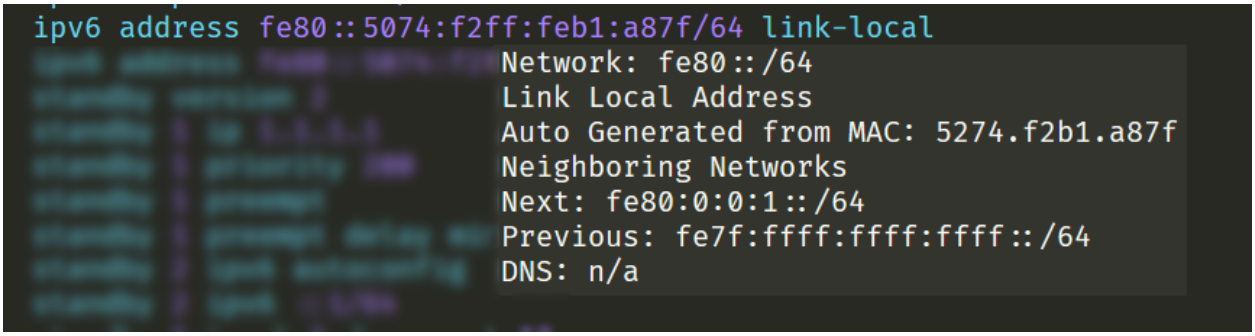
Tools → Command Pallet

```
Network Tech:  Toggle Network Info Popup on Hover
```

IPv4



IPv6



2.5 Formatting

2.5.1 MAC Address

Select a MAC address and use `Network Tech: Format MAC Address` from the command pallet to change the format

Supported Formats:

- Colon: *aa:aa:aa:aa:aa:aa*
- Dot: *aaaa.aaaa.aaaa*
- Dash: *aa-aa-aa-aa-aa-aa*

2.6 Password Decode

Some password types can be decoded locally on your computer.

Important: The code is linked to below so you can verify it does nothing nefarious.

To decode use the command:

1. In the command pallet choose: Network Tech: Decode Passwords
2. Choose the password from the list
3. Choose to display the password in a dialog or copy it to the clipboard

Details on the supported password types and how they are decoded are listed below.

2.6.1 Type 5

Type 5 passwords are salted MD5 hashes. They can be created using the *openssl* command:

```
openssl passwd -1 -salt SpMm password
```

Decoding is done using brute force with an included dictionary of the 10k most common passwords. This means that not all passwords can be broken and the speed of the command increases with out uncommon the password is.

The password dictionary source is SecLists 10k Most Common

Check the decode implementation used in this plugin here

2.6.2 Type 7

Type 7 passwords are a Cisco propriatary encryption algorithm.

Decoding is done using the well documented algorithm.

Check the decode implementation used in this plugin here

2.7 Jumping

Quickly jump around large configuration using Symbols `<ctrl>+<r>` or *Goto → Goto Symbol…*

These jumps are made to commands that enter a new configuration mode:

- *interface Ethernet0*
- *line vty 0 4*
- *router bgp 1*
- etc…

2.8 Search

2.8.1 Network

Subnet-aware searching for networks.

Tools → Command Pallet

Command: *Network: Find*

2.8.2 All Networks

Type a network in any format and any networks or host IP addresses matching or contained by the network will be found.

Tools → Command Pallet

Command: *Network: Find All*

More then one network can be searched for by seperating them with commas.

Note: The network under the cursor will be searched for by default.

2.9 Feature Requests and Bug Reporting

Report a bug. Request a feature.

2.10 Settings

2.10.1 Logging

Logs are sent to the console *View → Show Console*

The log level in the console can be set using the setting *log_level*

The logging levels are:

- WARNING
- INFO
- DEBUG