Nathan Christensen-Padilla

Adrianna Holden-Gouveia

Linux Administration

10/24/2021

CentOS Network Setup

To get the network set up we need to install some network tools and to do this we use the command “sudo dnf install net-tools” and then confirm it. You can also have net-tools pre-installed on your VM like how it was for mine.

Text

Description automatically generated

Now you can look at your network settings by using the command “cd /etc/sysconfig/network-scripts/” to first go to the folder that contains the info then use the command “ls –all” to look at all the files in the folder and then open up the ifcfg file which contains the network info by using “vim ifcfg-ens33”.





Text

Description automatically generated

Also, there are a few other commands we can use to look at our network setup like “ip a” which shows some network settings like the IPv4 & IPv6 addresses, ethernet and netmask to name a few. Next, we can use ‘sudo netstat -tulpn” and “sudo lsof -i” to see what programs are running on the server and what’s connected. Also, we can use the command “sudo lshw -class network” to see even more information about the network and even the hardware itself.

Text

Description automatically generated Text

Description automatically generated Text

Description automatically generated

Lastly my system-resolved.service wasn’t working properly because I didn’t have it enabled so if you input a command like “resolvectl” and it fails this could be the case for you to. So to enable it with the command “systemctl enable systemd-resolved.service” and then enter your password to confirm it.

Text

Description automatically generated

Installed: 10/23/2021, 6:04PM

Sources:

<https://ubuntu.com/server/docs/network-configuration>

This website was a huge help in explaining all of the network commands and how everything worked.

[How to Configure Network Static IP Address on RHEL/CentOS 8/7 (tecmint.com)](https://www.tecmint.com/configure-network-interface-in-rhel-centos-7-0/)

This website explained a lot of CentOS network stuff to me like the network file location “/etc/sysconfig/network-scripts/” from the ninth step and some network commands on step 2 .

[ifconfig vs ip: What's Difference and Comparing Network Configuration (tecmint.com)](https://www.tecmint.com/ifconfig-vs-ip-command-comparing-network-configuration/)

This website helped me learn more about the ifconfig and ip commands.

[linux - Activation via systemd failed for unit 'dbus-org.freedesktop.resolve1.service': Unit dbus-org.freedesktop.resolve1.service not found - Super User](https://superuser.com/questions/1427311/activation-via-systemd-failed-for-unit-dbus-org-freedesktop-resolve1-service)

This discussion helped me resolve my problem with resolvectl command.