

Linux, day 6



LAB: Linux networking



Assignment

- Add a second NIC to your VM (in Virtualbox).
 - You can put it in the NAT network.
- Bring the new NIC under NetworkManager control.
- Configure it using "*nmtui*".

Solution (RHEL)

- *sudo dmesg | grep -i network*
- *sudo nmcli device set eth1 managed yes*
- *sudo nmtui*
 - Set up the new device, similar to *eth0*.
 - Devices names may differ, like *enp0s3*.

Solution (Debian)

- *sudo vi /etc/netplan/00-installer-config.yml*
Should only contain these lines:
network:
version: 2
renderer: NetworkManager
- *sudo netplan generate; sudo netplan apply*
- *sudo nmcli device set eth1 managed yes*
- *sudo ip link eth1 up; sudo nmtui*

LAB: Configuring network services



Assignment

- Install the "*vsftpd*" package on Ubuntu.
 - On Fedora WS, the firewall will block you.
- Check for the latest changes (*ls -lrt*) in:
 - */lib/systemd/system/*
 - */etc/systemd/system/*
 - */etc/systemd/system/multi-user.target.wants/*

Assignment

- Enable the "*vsftpd*" service.
- Again, check for the latest changes (*ls -lrt*) in:
 - */lib/systemd/system/*
 - */etc/systemd/system/*
 - */etc/systemd/system/multi-user.target.wants/*

Assignment

- Check the status of the "*vsftpd*" service.
- Start the "*vsftpd*" service.
- Check the status of the "*vsftpd*" service again.
 - Can you FTP into the server?
- Finally, disable and mask the "*vsftpd*" service.

Closing

Homework

- Go do:
 - On Ubuntu, setup a *httpd* webserver.
 - Create a simple "index.html" to serve up.
 - Make sure you can browse to the site:
 - Both from your Fedora VM
 - And from your laptop (setup a port forward!)

Reference materials

Resources

- [ifconfig vs ip](#)
- [netplan vs networkmanager vs networkd](#)
- [Have a plan for netplan](#)
- [Bonding with NetworkManager](#)
- [Bonding with configuration files](#)
- [Bridged network connections](#)

Resources

- [Bug in Ubuntu and Network Manager](#)
- [Learning to love systemd](#)
- [SysVinit and systemd service mgt cheatsheet](#)

Resources

- Does Not Compute:
 - [Let's look at some big, expensive servers.](#)
 - [Let's check out a blade server \(32 CPUs\).](#)
- Others:
 - [Inside a Google data center](#)
 - [Rackmount server anatomy 101](#)