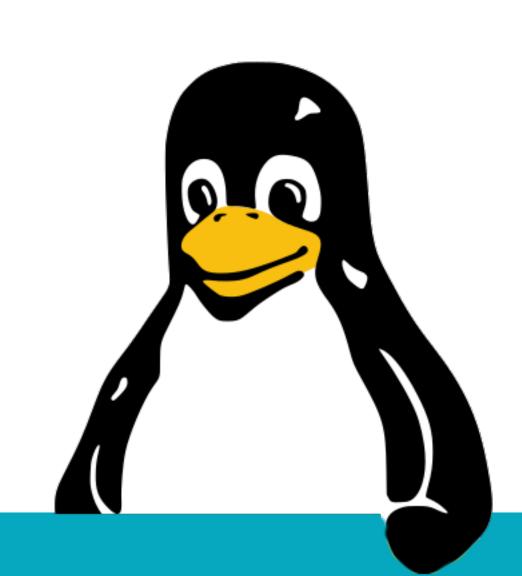
Linux, day 6





LAB: Linux networking





- 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 <u>names may differ</u>, 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





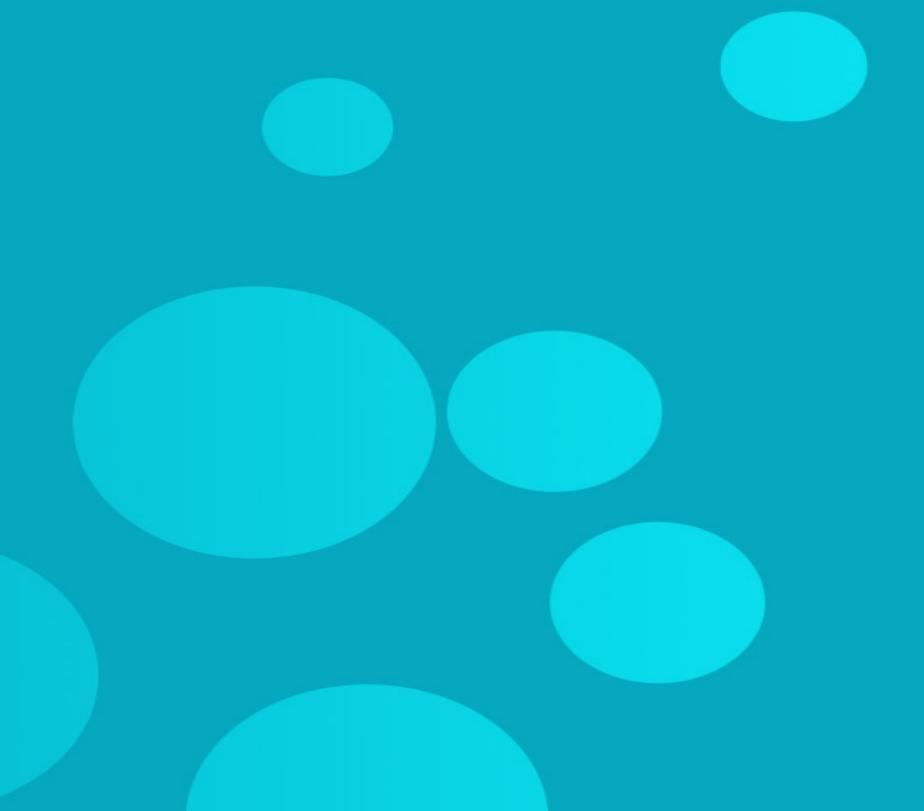
- Install the "vsftpd" package on Ubuntu.
 - On Fedora WS, the firewall will block you.
- Check for the latest changes (Is -Irt) in:
 - /lib/systemd/system/
 - /etc/systemd/system/
 - /etc/systemd/system/multi-user.target.wants/

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

- 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



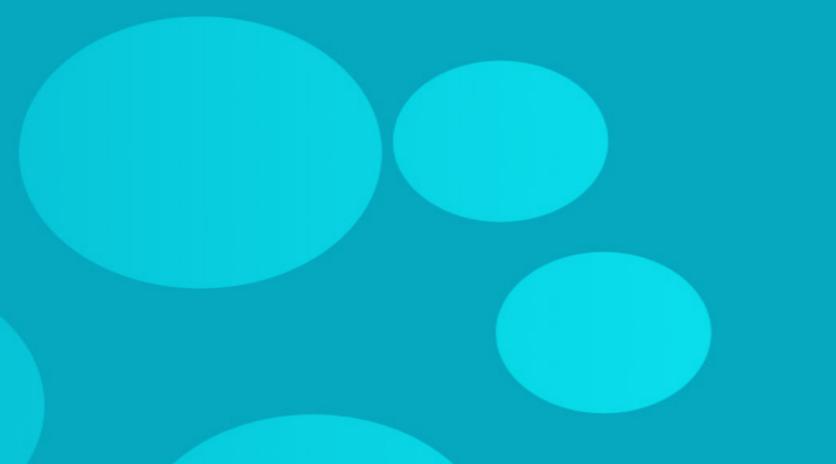


Homework

- 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