

Summer Bootcamp Homework 3

Networking Week

Initial Setup

1. Set up GlobalProtect
 - a. For CPP Students: [Please see the VPN Instructions here](#)
 - b. For Non-CPP Students: Follow the instructions above using the username and password sent to you in order to log into the VPN.
2. Deploy the CCDC Summer Bootcamp pod in [Kamino](#) (**only** if you haven't already!!!)
 - a. Pods > CCDC_Summer_Bootcamp_2026 > Deploy
 - b. Do not delete this pod!! (It will be used in future sessions + hw)
3. Visit [Proxmox](#)
 - a. In the dropdown in the top left, switch to Pool View and expand the CCDC Summer Bootcamp pool

Lab

Be sure to document your steps!

Configure networking for the environment

Hostname	IP Address	Credentials
cd-su-router	SEE BELOW	admin:pfsense
cd-su-linux	192.168.1.12	user:bruh root:bruh
cd-su-windows	192.168.1.19	Administrator>Password123

Router Configuration

- Set the WAN IP of the router to **172.16.XX.1/16**, where XX is the last two digits of your resource pool. Remove any leading zeros.
 - The default gateway is **172.16.0.1**. When changing the WAN IP, choose "no" for anything that says "DCHP", "IPv6", and "HTTP".
- Access the pfsense web configurator on your host.
 - Change the Virtual IP to **172.16.XX.0**.
 - 1:1 NAT should work now (the rest of 1:1 NAT has been pre-configured).

Linux and Windows Network Configuration

- Configure the static networking for both Linux and Windows VMs.
 - Hint: Both can be done with GUI!

Checking 1:1 NAT

- Ping the Linux and Windows VM from your **host machine**.
 - Hint: Which IPs to ping?
 - Hint 2: Something might be blocking ping on Windows...

Deliverables

- Documentation of setting up the router and network configuration for the Linux and Windows VMs