

# Networking!

## 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.

We are currently in the process of fixing an issue with the VPN, if you are unable to log in don't worry!  
We will make an announcement soon once we get it working.

## Deliverables

**Please document your steps.**

1. There is a router and a Linux machine.

### **Router:**

Credentials: **admin:pfsense**

LAN: 192.168.1.1

### **Linux:**

Credentials: **user:bruh** and **root:bruh**

IP: 192.168.1.35

- a. Set the WAN IP of the router to 172.16.1XX.1/16, where XX is the last two digits of your resource pool. The default gateway is 172.16.0.1. When changing the WAN IP, choose "no" for anything that says "DCHP", "IPv6", and "HTTP".
  - b. Access the pfsense web configurator on your host. Change the Virtual IP to 172.16.1XX.0. 1:1 NAT should work now (the rest of 1:1 NAT has been pre-configured).
2. Find the IP address of the Linux machine using the terminal.

3. There is a web server on the VM. **Using your host, show what the homepage looks like.**
4. The website hosted on Parthenon is MindMend's official website.
  - a. Using iptables, create a firewall rule to block inbound and outbound connections and a firewall rule that allows web traffic. Show screenshots of **(1) the firewall rules**, and **(2) a screenshot showing you are still able to connect to the website on Parthenon.**