

Fall Bootcamp Homework 1

Intro + Business + Networking Week

Inject Homework (20 points)

Please refine and complete your inject responses to the prompts we went over in-person.

Then, create an inject template and use it to create responses to the following inject prompts (give yourself 30 min each).

Inject Prompt 3

From: Mars Bar (he/him) - CISO

Hi IT Security Team, Venus informed me I could rely on you to do some busywork. Can you compile a report about how the Collegiate Cyber Defense Competition (CCDC) works and what our team's roles are? What does each role entail and what role(s) might you be interested in? Please answer each question to the best of your ability. Thank you.

Inject Prompt 4

From: Venus Saur (she/her) - IT Manager

Hey team, I need you to do some research on ways to create firewalls on Windows/Linux hosts. Write a guide on how to use Windows Defender Firewall and iptables, including example commands and screenshots. I want to send this over to our new Network Engineer intern, so make it easy to understand! Thanks!

Networking Homework (30 points)

In the CCDC Bootcamp 2026 pod you deployed, please complete the following tasks:

1. Set up networking for the Router (1-INAT-pfsense), Windows Server (server-2022), and Linux (debian-12) VMs.

Hostname	IP Address	Credentials
1-INAT-pfsense	SEE BELOW	admin:pfsense
debian-12	192.168.1.12	user:bruh root:bruh
server-2022	192.168.1.22	Administrator:Password123

Router Tips

- Set the WAN IP of the router 172.16.XXX.1/16, where XXX is the 3rd octet of the WAN IP seen in the Networking details of the 1-INAT-pfsense VM
 - 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.XXX.0.
 - 1:1 NAT should work now (the rest of 1:1 NAT has been pre-configured).
2. Configure firewalls to meet the following requirements:
 - a. Stateful connections are allowed into the Linux VM
 - b. Both Windows Server and Linux can access the Internet
 - c. RDP is blocked on Windows Server, SSH is blocked on Linux
 - d. Implicit deny on both Windows Server and Linux

Note: Be sure to show sufficient proof via screenshots in your documentation to show that you fulfilled all requirements!

Deliverables

Submit 5 total PDFs:

1. Answers to each of the inject prompts under Inject Homework.
 - a. There are 4 total prompts, so submit a PDF for each one
 - b. Naming convention:
 - i. **inject0X_teamYY** where X is the inject number (1 and 2 are the ones we did in-person) and YY is your first and last initials capitalized.
 1. Ex: inject01_teamAC for Adam Cheung's first inject
 - ii. Failure to follow this naming convention will result in an immediate 0 for that inject!
2. 1 PDF for documentation on how you completed the tasks under Networking Homework.