

ECSC 325 – Web Server Administration

Spring 2025 – Section 200

Assignment 1 – 40 points

Create documents with responses to the three parts below. Submit the doc to the respective D2L Assignments folders.

Part A – 10 Points

Browse through the popular Linux distributions at [DistroWatch.com](https://distrowatch.com). Choose three Linux distributions, and describe how they are different from other distro's. What makes each one unique? Why would I use it?

Save your file as Lastname_Firstname_HW1A and submit your file(s) in D2L to the Assignments folder HW1A.

Part B – 10 Points

Put together a list of network hardware you think you would need to create a small business network. You will need to connect up to 16 wired desktop PC's, 8 wired servers, 4 other wired devices, a wireless access point, and a Network Accessible Storage device. You will also need Internet access; describe the type of internet connectivity and the hardware involved. All that is required is a simple list of hardware devices with description.

Save your file as Lastname_Firstname_HW1B and submit your file(s) in D2L to the Assignments folder HW1B.

Part C – 20 Points

Answer the following questions:

1. Define the Internet.
2. Define the Web.
3. Is e-mail part of the Web or Internet?
4. What is a backbone?
5. What does TCP/IP stand for?
6. What does HTTP stand for?
7. What is HTTPS, why is it used, and how is it different from S-HTTP?
8. Explain peering arrangements.
9. True/False: A Web server can also be an FTP server and an e-mail server.
10. List two programming languages available for Web servers.
11. List five different types of server administrators.
12. What is DNS and what does it do?
13. What are four tasks that are common to all server administrators?
14. What protocol is used to send e-mail?
15. What protocol is used to transfer files?
16. What protocol provides an addressing scheme?
17. Define UDP and explain when it is used instead of TCP.
18. Explain what a router does in a network.
19. What is bandwidth?
20. How do you connect to the Internet outside of school, and what hardware is involved?

Save your file as Lastname_Firstname_HW1C and submit your file(s) in D2L to the Assignments folder HW1C.