

April 2023 Lab Requirements

Purpose:

Students will be given the opportunity to create their own network to give to future employers as a potential network solution.

Requirements:

Below will be a list of requirements and/or guidelines to follow to create an appealing network solution. You are free to add on to the requirements and make it as intriguing as you would like, as long as it works!

- LAN requirements
 - 1 switch
 - 2 subnets, private address range
 - 2 VLANs
 - DHCP server
- WAN requirements
 - 1 router
 - 1 OSPF connection to backbone (area 0)
 - 1 default route
 - NAT (static, dynamic, PAT)
- Additional requirements
 - 1 ACL (standard or extended)
 - 1 SSID for Wifi
 - 1 Server (Raspberry Pi will be provided)

Helpful Links:

Below is a list of videos that cover aspects of the network that we have not gone into too much detail this semester, but you'll need to implement on your network.

- [NAT Configurations](#)
- [DHCP Configurations](#)