MARKS: 30%

SERVERS (Except Elven Island)

- Access a URL from any PC Web Browser: Should show a message accordingly
  - 'capital.holfort.kingdom' -> 'Welcome to the Capital of the Kingdom of Holfort'
  - 'royal.holfort.kingdom' -> 'You are now in the presence of the Holfort Royal Family'
  - 'duke.bartfort.kingdom' -> 'Welcome to the Domain of Duke Bartfort'
- Send an email from Atlee to Capital or vice versa
  - Email can be both sent and received
  - Email servers should send DNS query to Redgrave LAN to get email server IP (simulate)

ROUTING

- Atlee-Bartfort (static)
  - Disable Capital-Bartfort and Capital-Redgrave routes
  - Ping Capital to Baron Bartfort: Should Fail
  - Ping Capital to Duke Bartfort: Should Fail
  - Ping Atlee to Baron Bartfort: Should Succeed
  - Ping Atlee to Duke Bartfort: Should Succeed
- Redgrave-Bartfort (static)
  - Ping Redgrave to Bartfort or vice versa: Should Succeed
  - Disable Redgrave-Bartfort or Capital-Bartfort route and ping from the other: Should Succeed
- All other routes are dynamic
- No default routes

LOGICAL ADDRESS [Address Table]

- All servers have static IP
- Capital has a DHCP Server
  - Main PC is static, 4 Servers are static, 20 extra PCs are static, Default gateway takes 1 IP
  - Exclude at least 26 IP addresses
- Other LANs use dynamic IP assignment (can use a separate server or a router)
- Elven LAN uses dynamic IP from the router
- Exclude some IP for Servers (where applicable) and Default Gateways
- Add a new end device and check for dynamic IP assigning
- All IP within specified networks

MARKS: 20%

TOPOLOGY

- Maximum 6 routers
- Maximum 7 switches
- Bartfort Domain router connects to 2 switches (2 LANs)
- Duke Bartfort (LAN) has a Web Server
- Redgrave (LAN) has a DNS Server
- Atlee (LAN) has an Email Server
- Capital (LAN) has two Web, one Email and one DHCP Servers
- Every LAN has a main named PC, and 2 additional end devices (PCs)
- Elven Island router is secluded and not connected to other routers
- Elven LAN has a fixed network (59.68.96.32/27)
- Elven Island router placed to the left of Bartfort Domain router
- Elven LAN has at least 2 end devices (PCs)
- Topology has proper labels and annotations

NETWORKS [VLSM Table]

- Maximum Network: 255.255.224(11100000).0/19
- Capital LAN [2789 + 1 + 2]: <network>/20
- Redgrave LAN [1000 + 1 + 2]: <network>/22
- Roseblade LAN [411 + 1 + 2]: <network>/23
- Atlee LAN [411 + 1 + 2]: <network>/23
- Baron Bartfort LAN [120 + 1 + 2]: <network>/25
- Duke Bartfort LAN [50 + 1 + 2]: <network>/26
- Elven LAN [20 + 1 + 2]: 59.68.96.32/27
- WAN [2 + 2]: <network>/30