

Always Food Available (AFA) is growing and will need to expand their operations to include a remote site. This remote site will be used as a warehouse to store the delivery drones. You will be responsible for configuring a network that will allow for communications between the existing office (campus), the warehouse (remote site), and the Internet. All of the equipment has been purchased, physically installed, and cabled. You will be responsible for configuring the network based on the requirements given below.

A few things to note

SAVE YOUR PACKET TRACER FILE OFTEN.

Internet:

- Here you will find a switch and a server. This represents the “Internet”. You do not need to modify or add configuration on these devices.
- The server will provide both web and DNS services:
 - The external DNS server is **64.102.174.10**
 - Always Food Available Server:
 - <http://www.afa.com>

Instructions

NOTE: Exact commands will be in quotation marks to help you know when the command starts and stops. Please do not type the quotation marks when you are instructed to type a command.

Configure the “enable secret” password on all Routers and Switches = N

C1sc0R0cks

· Configuration

§ Remote Site Router

- Host name = Remote_Site_Router1
- Addressing:
 - § Fa0/0 = 172.18.124.2 /30
 - § Fa0/1 = 172.18.124.9 /30
 - § E1/0 = 10.1.1.1 /24
- Configure the router to run the RIP Routing protocol. Enable RIP and include network statements for 172.18.0.0 and 10.0.0.0

§ Gateway Router

- Host name = Gateway_Router1

- Addressing:

- § Fa0/0 = 172.18.124.10 /30

- § Fa0/1 = 172.18.124.6 /30

- § E1/0 = 64.102.174.1 /24

- Configure the router to run the RIP Routing protocol. Enable RIP and include network statements for 172.18.0.0. You will need to use the “default-information originate” command to have the gateway router inject a default route for the rest of the network to utilize.

- § **Campus Router**

- Host name = Campus_Router1

- Addressing:

- § E1/0 = 172.18.124.1 /30

- § E1/1 = 172.18.124.5 /30

- § Fa0/1 = 192.168.20.1 /24

- § Fa0/0 = 192.168.10.1 /24

- Configure the router to run the RIP Routing protocol. Enable RIP and include network statements for 172.18.0.0, 192.168.10.0, and 192.168.20.0

- § **Remote Site Switch**

- Host name = Remote_Site_Switch1

- Addressing:

- § VLAN1 = 10.1.1.254 /24

- Use the “ip default-gateway” command to point to 10.1.1.1

- § **Campus Switch 1**

- Host name = Campus_Switch1

- Addressing:

- § VLAN20 = 192.168.20.254 /24

- Use the “ip default-gateway” command to point to 192.168.20.1

- Configure port Fa0/3 to be an access port using “switchport mode access” command and to VLAN 20 using the “switchport access vlan” command.

- Configure port Fa0/1 and Fa0/4 to be an access port using “switchport mode access” command and to VLAN 10 using the “switchport access vlan” command.

- Configure port Fa0/2 to be a trunk using the “switchport mode trunk” command. Use the “switchport trunk allowed vlan” command to allow VLANs 1,10, 20.

- § **Campus Switch 2**

- Host name = Campus_Switch2

- Addressing:

- § VLAN20 = 192.168.20.253 /24

- Use the “ip default-gateway” command to point to 192.168.20.1

- Configure port Fa0/4 to be an access port using “switchport mode access” command and to VLAN 10 using the “switchport access vlan” command.
- Configure port Fa0/1 and Fa0/3 to be an access port using “switchport mode access” command and to VLAN 20 using the “switchport accessvlan” command.
- Configure port Fa0/2 to be a trunk using the “switchport mode trunk” command. Use the “switchport trunk allowed vlan” command to allow VLANs 1,10, 20.

§ Host Configuration

- Configure the Hosts using the information from the following table. Note: There is a Remote Site PC that was configured by the installer. You should verify it was done correctly.

Host	IP Address	Subnet Mask	Default Gateway	DNS
Faculty PC1	192.168.20.2	/24	192.168.20.1	64.102.174.10
Faculty PC2	192.168.20.3	/24	192.168.20.1	64.102.174.10
Student PC1	192.168.10.2	/24	192.168.10.1	64.102.174.10
Student PC2	192.168.10.3	/24	192.168.10.1	64.102.174.10

Test connectivity:

- Ensure that all Faculty, Student, & Remote hosts can reach the IP addresses for other hosts and networking equipment.
- Browse from all PC to the website:
<http://www.afa.com>

Submit Packet Tracer Activity

Submit your Packet Tracer file using the instructions found on the Netacad CP-IX Round 2 assignment.