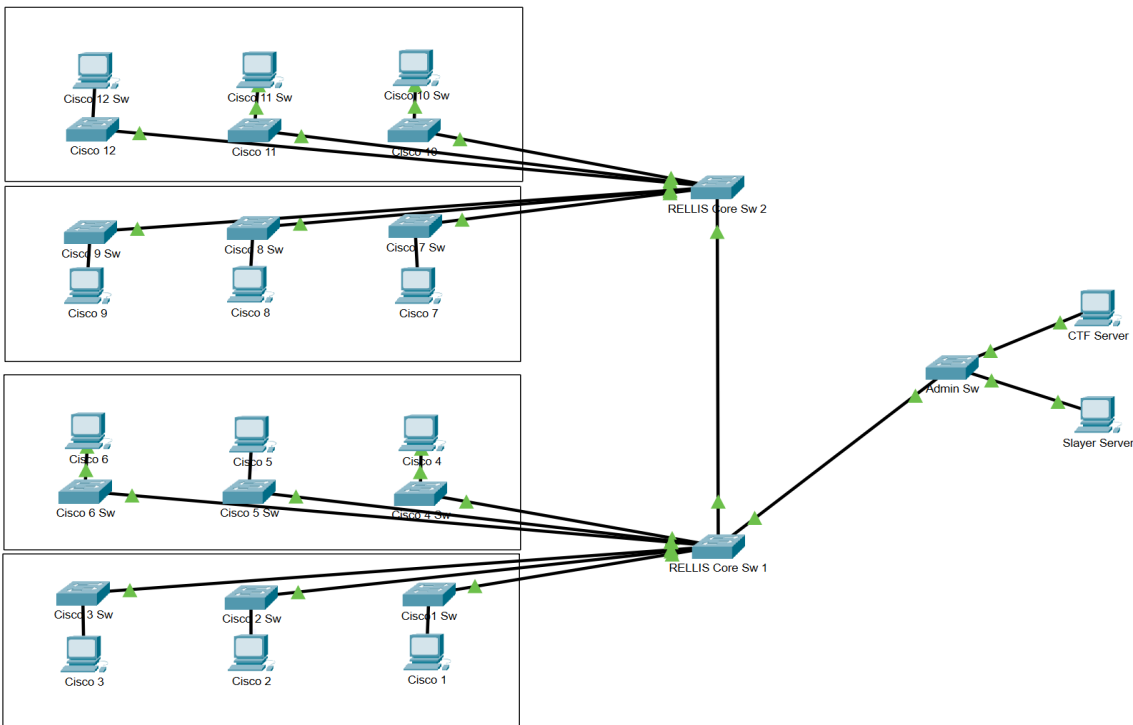


Admin VLANs: Fall 2022

Purpose:

This document contains the configurations for the core layer of the network.



Part 1:

IP addressing scheme

- We will be using the 192.168.1.0 /24 IP address block for this lab
- Use the table below to assign the servers IP addresses

Device	IP address
CTF Server	192.168.1.13
Slayer Server	192.168.1.14

Part 2:

The configurations below are for the Admin Switch.

- Enter the following commands to create the VLANs and assign them to ports

```
switch> enable
switch# configure terminal
switch(config)# hostname Admin_Sw
switch(config)# vlan 10
switch(config-vlan)# name CTF
switch(config-vlan)# exit
switch(config)# vlan 20
switch(config-vlan)# name Slayer
switch(config-vlan)# exit
switch(config)# interface f0/1
switch(config-if)# switchport mode access
switch(config-if)# switchport access vlan 10
switch(config-if)# interface f0/2
switch(config-if)# switchport mode access
switch(config-if)# switchport access vlan 20
switch(config-if)# interface f0/3
switch(config-if)# switchport mode trunk
switch(config-if)# end
switch# copy run start
```

Part 3:

The configurations below are for the RELLIS Core Switch 1.

- Enter the following commands to create the VLANs and assign them to ports

```
switch> enable
switch# configure terminal
switch(config)# hostname RELLIS_Core_Sw1
switch(config)# interface range fa0/1-8
switch(config-if)# switchport mode trunk
```

```
o switch(config-if)#end
o switch# copy run start
```

Part 4:

The configurations below are for the RELLIS Core Switch 2.

- Enter the following commands to create the VLANs and assign them to ports

```
o switch> enable
o switch# configure terminal
o switch(config)# hostname RELLIS_Core_Sw2
o switch(config)# interface range fa0/1-7
o switch(config-if)# switchport mode trunk
o switch(config-if)#end
o switch# copy run start
```

Part 5:

Now, we need to wipe the switch of all the VLANs and trunks that are on it.

- Use the following commands wipe the VLANs from the switch's memory

```
o switch# show vlan
o switch# show interface trunk
o switch# configure terminal
o switch(config)# interface range fa0/1-2
o switch(config-if-range)# switchport mode access
o switch(config-if-range)# end
o switch# delete vlan.dat
    ■ Press enter to the questions that pop up
o switch# write erase
o switch# reload
o switch> enable
o switch# show vlan
o switch# exit
```