Routing on a Stick

Where a single interface routes between different networks

Configures a Fast Ethernet port on a router as a trunk

Can use ISL or 802.1q

Have to create sub-interfaces and tag those with the correct VLAN

First select VLAN

No IP address is needed

Ensure the interface is up

Not essential

This will become the gateway for the VLAN

This is where the VLAN is tagged

Router(config)#interface fa0/1

Configure the sub interface for VLAN 1

Router(config-subif)#ip address 10.0.0.1 255.255.255.0

Sets default configuration for VLAN 2

Router(config-subif)#exit

Routing on a Stick

Connected Interface

Administrative Distance of 0

Routing on a Stick

Inter VLAN Routing

Routing between VLANs

Can use VLAN interfaces

Where a single interface routes between different networks

VLAN Interfaces are represented as interface vlan # where # is the VLAN number

This is the gateway for hosts on the VLAN

Use the VLAN interface as IP address

OSPF

Administrative Distance of 110

Configuration

Router(config)#router ospf

Router(config-router)#network 1.1.1.1 0.0.0.0 area 0

Router(config-router)#network 192.168.1.0 0.0.0.255 area 0

Show commands

Router#show ip ospf database

Router#show ip ospf neighbor

RIP

Administrative Distance of 120

Configuration

Router(config)#router rip

Router(config-router)#version 2

Router(config-router)#no auto-summary

Router(config-router)#network 2.2.2.2

Router(config-router)#network 192.168.1.0

Show commands

Router#show ip rip database

Router#show ip rip neighbors

EIGRP

Administrative Distance of 90

Configuration

Router(config)#router eigrp

Router(config-router)#network 1.1.1.1 0.0.0.0

Router(config-router)#network 192.168.1.0 0.0.0.255

Show commands

Router#show ip eigrp neighbors

Router#show ip eigrp topology

Dynamic Routing

Administrative Distance of 1

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