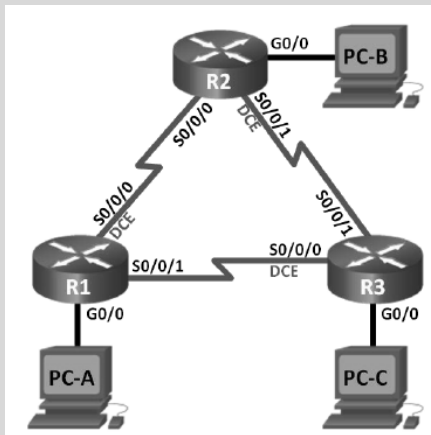


Basic Configuration

Router (config)# hostname R1	set hostname of Router
Router (config)# no ip domain-lookup	disable dns lookup
Router (config)# enable secret class	set password for privileged EXEC mode
Router (config-line)# password cisco	sets console password
Router (config-line)# login	enables login
Router (config)# copy run start	copies running configuration to startup configuration

Topology



Topology for 8.2.4.5 and 10.2.2.3

Verify OSPF

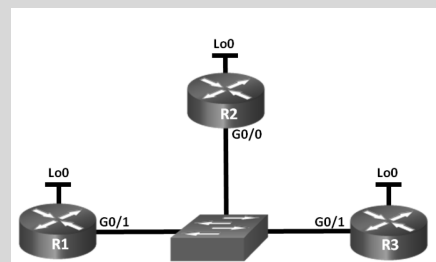
Router# show ip ospf	shows all ospf information
Router# show ip ospf neighbor	shows ospf neighbor routers
Router# show ip route ospf	verify ospf networks
Router# show ip protocols	verify ospf configuration
Router# show ip ospf interface	shows summary of OSPF-enabled interfaces
Router# show ip ospf interface F0/0	shows ospf information about that interface

For OSPFv3 add ipv6 to the command: Router (config)# show ipv6 route ospf

Configure OSPF

Router (config)# router ospf 1	enable ospf with specific process id
Router (config-router)# network 192.168.1.0 0.0.0.255	configure network with area id 0
Router (config-router)# router-id 1.1.1.1	set router id manually
Router (config-router)# auto- cost reference-bandwidth 10000	change default reference bandwidth
Router (config)# clear ip ospf process	clears ospf to refresh everything (f.e after set router-id)
Router (config)# passive-inte- rface F0/0	routing updates won't send on that interface
Router (config)# no-passive-i- nterface F0/0	router will send OSPF routing updates on that interface
Router (config-if)# ip ospf cost 1565	set cost on a interface
Router (config-if)# ip ospf priority 255	configure interface with ospf priority
Router (config-if)# ip ospf priority 0	router can not be become DR or BDR

Topology



Topology for 10.1.1.13