

Basic Configuration Commands

Router(config)# no ip domain-lookup	disables dns lookup
Router(config)# hostname R1	changes hostname
R1(config)# enable secret class	sets password for privileged EXEC
R1(config)# line console 0	changes to line configuration mode
R1(config-line)# logging synchronous	configures logging synchronous (no messages interrupt input)
R1(config-line)# password cisco	sets console password (also for vty)
R1(config-line)# login	enables login (also for vty)
R1# copy run start	copies the running-configuration to the startup-configuration

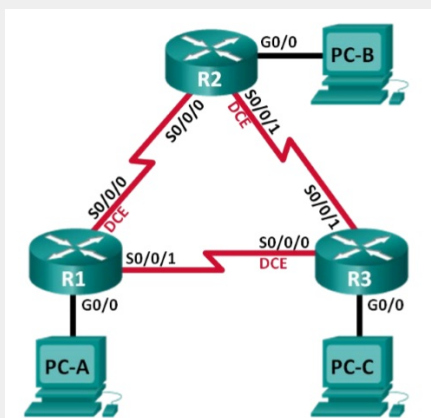
These commands are to be executed for all Routers!

Show Commands

Router# show ip route	displays ip routing table
Router# show ip protocols	shows a summary of configured routing protocol information
Router# show ip ospf	displays general information of OSPF
Router# show ip ospf interface	displays OSPF information for the interfaces on the router

These commands can be used to verify and troubleshoot your configuration.

Topology



Topology for 8.2.4.5 and 10.2.3.3 (Troubleshooting)

Router1 Commands

R1(config)# router ospf 1	enables OSPF (process id = 1)
R1(config-router)# network 192.168.1.0 0.0.0.255 area 0	configures a network
R1(config)# interface lo0	configures a loopback interface
R1(config-if)# ip address 1.1.1.1 255.255.255.255	sets the ip address of an interface
R1(config-router)# router-id 11.11.11.11	sets the router id (ospf)
R1(config-router)# auto-cost reference-bandwidth 10000	changes default reference bandwidth
R1(config-if)# bandwidth 128	sets bandwidth of an interface
R1(config-if)# ip ospf cost 1565	manually sets cost of a link

Router2 Commands

R2(config-router)# no passive-interface s0/0/0	removes passive status. router will receive OSPF routing updates.
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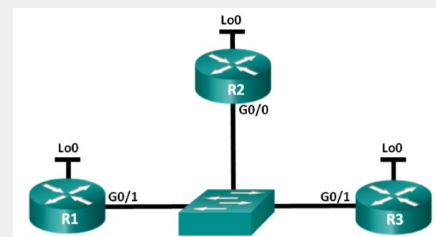
Except the command(s) above, Router 2 mainly used the same commands as Router 1.

Router3 Commands

Router3#clear ip ospf process	Clears all ospf processes
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Except the command(s) above, Router 3 mainly used the same commands as Router 1.

Topology



Topology for 10.1.1.13