

### 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

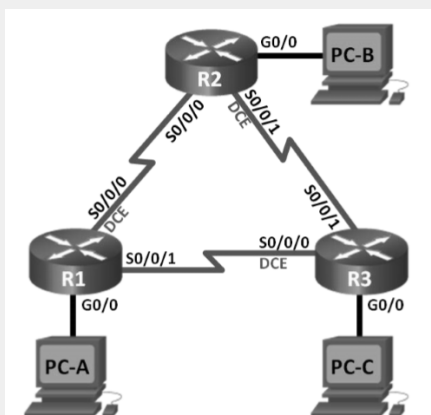
These commands are to be executed for all Routers!

### 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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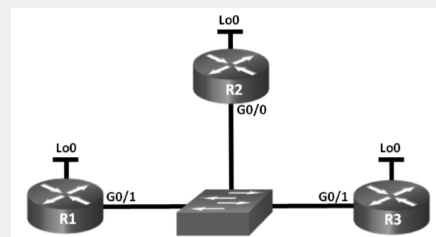
Except the command(s) above, Router 2 mainly used the same commands as Router 1.

### 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