Single-Area OSPF Cheat Sheet

by bausac16 via cheatography.com/100632/cs/21723/

Basic configuration

Disable DNS lookup	no ip domain-lookup
Configure device name	hostname [name]
Privileged exec mode password	enable secret [password]
Console password	password [password]
Copy running to startup config	copy r s

These commands were executed on all routers!

Router 1

router ospf 1	enable ospf
network 192.168.12.0 0.0.0.3 area 0	configure network statements
show ip ospf neighbor	verify that all routers list all other routers as neighbours
show ip ospf	see process id and router id
show ip ospf interface	detailed list of every OSPF-enabled interface
show ip ospf interface g0/0	see specific interface
show ip route ospf	cost for routes
auto-cost references-b-andwith 100	sets the reference bandwith
ip ospf cost 1565	set specific cost
show ip ospf interface brief	verify that ospf is configured
ip ospf priority 255	set interface priority

These are the most important commands for R1 concerning OSPF!

Router 2

enable OSPF	router ospf [process-id]
verify OSPF neighbors	show ip ospf neighbor
routing table	show ip route
verify OSPF protocol settings	show ip protocols
verify OSPF interface settings	show ip ospf interface brief
change router IDs using loopback addresses	interface lo0 **ip address 1.1.1.1 255.25-5.255.255** end
configure G0/0 with OSPF priority 0	interface g0/0 **ip ospf priority 100** end

These are the most important commands for R2 concerning OSPF!

Router 3

router ospf 1	enable ospf
network [ip] [subnetmask] area 0	add network to ospf area
ip ospf priority [number]	set priority to ospf at interface
show ip ospf neighbor	show all devices learned over ospf
clear ip ospf 1 process	reset all the routers of the ospf process
show ip ospf interface	show ospf details
show ip interface brief	show all interfaces
show ip protocols	show all running protocols

These are the most important commands for R3 concerning OSPF!

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