**Command Helper**

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| Job | Command |
| Show IP address brief | **R0#sh ip int br** |
| Close domain lookup | **Ctrl+shift+6 (ctrl+^)** |
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|  |  |

**Router0**

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| --- | --- |
| Task | Command |
| 1-Hostname | Router(config)#hostname R0 |
| 2-Domain | R0(config)#ip domain-name ee462.kau.edu.sa |
| 3-Create user | R0(config)#username user pass 123456 |
| 4- set console login local | ?? |
| 5- set enable secret | R0(config)#enable secret 123456 |
| 6- set IP address and enable interface | R0(config)#int gig0/0  R0(config-if)#ip address 10.10.10.1 255.255.255.252  R0(config-if)#no shutdown  R0(config-if)#exit  R0(config)#int gig1/0  R0(config-if)#ip address 10.10.12.2 255.255.255.252  R0(config-if)#no shutdown  R0(config-if)#exit  R0(config)#int gig2/0  R0(config-if)#ip address 192.168.10.254 255.255.255.0  R0(config-if)#no shutdown  R0(config-if)#exit |
| 7- save configuration | R0#wr mem |
| 8- restart Router0 | ?? |
| 9- Test  PC0 --- R0 | C:\>ping ?? |
| 10- configure PC0  IP Address: 192.168.10.1/24  Default Gateway: 192.168.10.254 |  |
| 11- configure Switch0  IP Address: 192.168.10.200/24 | Switch(config)#int vlan 1  Switch(config-if)#ip add 192.168.10.200 255.255.255.0  Switch(config-if)#no shut  Switch(config-if)#exit |
| ##- Static routing | R0(config)#ip route 192.168.30.0 255.255.255.0 10.10.12.1 1  R0(config)#ip route 192.168.20.0 255.255.255.0 10.10.10.2 1 |

**Router1**

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| --- | --- |
| Task | Command |
| 1-Hostname | Router(config)#hostname R1 |
| 2-Domain | R1(config)#ip domain-name ee462.kau.edu.sa |
| 3-Create user | R1(config)#username user pass 123456 |
| 4- set console login local | ?? |
| 5- set enable secret | R1(config)#enable secret 123456 |
| 6- set IP address and enable interface | R1(config)#int gig0/0  R1(config-if)#ip address 10.10.11.1 255.255.255.252  R1(config-if)#no shutdown  R1(config-if)#exit  R1(config)#int gig1/0  R1(config-if)# ip address 10.10.10.2 255.255.255.252  R1(config-if)#no shutdown  R1(config-if)#exit  R1(config)#int gig2/0  R1(config-if)#ip address 192.168.20.254 255.255.255.0  R1(config-if)#no shutdown  R1(config-if)#exit |
| 7- save configuration | R1#wr mem |
| 8- restart Router0 | ?? |
| 9- Test  PC0 --- R0 | C:\>ping ?? |
| 10- configure PC0  IP Address: 192.168.10.1/24  Default Gateway: 192.168.10.254 |  |
| 11- configure Switch0  IP Address: 192.168.10.200/24 | Switch(config)#int vlan 1  Switch(config-if)#ip add 192.168.20.200 255.255.255.0  Switch(config-if)#no shut  Switch(config-if)#exit |
| ##- Static routing | R1(config)#ip route 192.168.30.0 255.255.255.0 10.10.11.2 1  R1(config)#ip route 192.168.10.0 255.255.255.0 10.10.10.1 1 |

**Router2**

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| --- | --- |
| Task | Command |
| 1-Hostname | Router(config)#hostname R2 |
| 2-Domain | R2(config)#ip domain-name ee462.kau.edu.sa |
| 3-Create user | R2(config)#username user pass 123456 |
| 4- set console login local | ?? |
| 5- set enable secret | R1(config)#enable secret 123456 |
| 6- set IP address and enable interface | R2(config)#int gig0/0  R2(config-if)#ip address 10.10.12.1 255.255.255.252  R2(config-if)#no shutdown  R2(config-if)#exit  R2(config)#int gig1/0  R2(config-if)# ip address 10.10.11.2 255.255.255.252  R2(config-if)#no shutdown  R2(config-if)#exit  R2(config)#int gig2/0  R2(config-if)#ip address 192.168.30.254 255.255.255.0  R2(config-if)#no shutdown  R2(config-if)#exit |
| 7- save configuration | R1#wr mem |
| 8- restart Router0 | ?? |
| 9- Test  PC0 --- R0 | C:\>ping ?? |
| 10- configure PC0  IP Address: 192.168.10.1/24  Default Gateway: 192.168.10.254 |  |
| 11- configure Switch0  IP Address: 192.168.10.200/24 | Switch(config)#int vlan 1  Switch(config-if)#ip add 192.168.30.200 255.255.255.0  Switch(config-if)#no shut  Switch(config-if)#exit |
| ##- Static routing | R2(config)#ip route 192.168.20.0 255.255.255.0 10.10.11.1 1  R2(config)#ip route 192.168.10.0 255.255.255.0 10.10.12.2 1 |