DHCP ROUTER 1   
enable

configure terminal

! Exclude the default gateway from the DHCP pool

ip dhcp excluded-address 190.60.14.1

! Create the DHCP pool for IT Department

ip dhcp pool IT\_POOL

network 190.60.14.0 255.255.255.240

default-router 190.60.14.1

dns-server 8.8.8.8

exit  
  
  
ROUTER 2  
  
enable

configure terminal

! Exclude the default gateway from the DHCP pool

ip dhcp excluded-address 190.60.14.17

! Create the DHCP pool for GUEST

ip dhcp pool GUEST\_POOL

network 190.60.14.16 255.255.255.240

default-router 190.60.14.17

dns-server 8.8.8.8

exit  
  
  
enable

configure terminal

! Assign IP addresses to subinterfaces for router-on-a-stick

interface fa0/0.10

encapsulation dot1Q 10

ip address 190.60.14.57 255.255.255.248

exit

interface fa0/0.20

encapsulation dot1Q 20

ip address 190.60.14.49 255.255.255.248

exit

interface fa0/0.30

encapsulation dot1Q 30

ip address 190.60.14.33 255.255.255.240

exit

! Turn on the physical interface

interface fa0/0

no shutdown

exit  
  
  
  
enable

configure terminal

! Create VLANs

vlan 10

name Warehouse

exit

vlan 20

name HR

exit

vlan 30

name Admin

exit

! Assign access ports

! Warehouse PCs: fa0/2 - fa0/4

interface range fa0/2 - fa0/4

switchport mode access

switchport access vlan 10

exit

! HR PCs: fa0/5 - fa0/9

interface range fa0/5 - fa0/9

switchport mode access

switchport access vlan 20

exit

! Admin PCs: fa0/10 - fa0/19

interface range fa0/10 - fa0/19

switchport mode access

switchport access vlan 30

exit

! Trunk port to Router

interface fa0/1

switchport mode trunk

exit

enable

configure terminal

router ospf 1

router-id 1.1.1.1

network 190.60.14.0 0.0.0.15 area 0

network 190.60.14.16 0.0.0.15 area 0

network 190.60.14.68 0.0.0.3 area 0

exit

enable

configure terminal

router ospf 1

router-id 2.2.2.2

network 190.60.14.68 0.0.0.3 area 0

network 190.60.14.32 0.0.0.15 area 0

network 190.60.14.48 0.0.0.7 area 0

network 190.60.14.72 0.0.0.3 area 0

exit

enable

configure terminal

router ospf 1

router-id 3.3.3.3

network 190.60.14.72 0.0.0.3 area 0

network 190.60.14.56 0.0.0.7 area 0

network 190.60.14.64 0.0.0.3 area 0

exit