

Mikrotik configuration

For create Vlan:

```
/interface/vlan> add name=IT vlan-id=2 interface=ether1  
/interface/vlan> add name=HR vlan-id=3 interface=ether1
```

For DHCP:

Creating pool:

```
ip pool/ add name=IT ranges=192.168.10.3-192.168.10.25  
ip pool/ add name=HR ranges=192.168.10.38-192.168.10.50
```

Creating DHCP-Server:

```
/ip/dhcp-server> add name=DHCP_IT interface=IT address-pool=IT lease-time=10m  
/ip/dhcp-server> add name=DHCP_HR interface=HR address-pool=HR lease-time=10m
```

Creating DHCP-Server network:

```
/ip/dhcp-server/network> add address=192.168.10.0/27 gateway=192.168.10.1  
/ip/dhcp-server/network> add address=192.168.10.32/27 gateway=192.168.10.35
```

Cisco Configuration

For creating vlan and assigned port:

```
Switch(config)#vlan 2  
Switch(config-vlan)#name IT  
Switch(config-vlan)#int vlan 2  
Switch(config-vlan)#no shut  
Switch(config-vlan)#int range g0/1-2  
Switch(config-if-range)#switchport mode access  
Switch(config-if-range)#switchport access vlan 2
```

```
Switch(config)#vlan 3
Switch(config-vlan)#name HR
Switch(config-vlan)#int vlan 3
Switch(config-vlan)#no shut
Switch(config-vlan)#int range g1/0-1
Switch(config-if-range)#switchport mode access
Switch(config-if-range)#switchport access vlan 3
```

```
Switch(config)#int g0/0
Switch(config-if)#switchport trunk encapsulation dot1q
Switch(config-if)#switchport mode trunk
Switch(config-if)#switchport trunk allowed vlan all
```

```
Switch(config)#do wr [Save this configuration in switch]
```

Checking IP from VPCs

Provide the command that DHCP is works or not:

ip dhcp

If dhcp works properly then display ip address.

#show ip [This command is just for show all information about this ip configuration]