

! =====

! 1. CISCO IOU SWITCH CONFIGURATION

! =====

enable

configure terminal

! Set Hostname

hostname Switch

! Configure Interface GE1/0 (Uplink to MikroTik)

interface GigabitEthernet1/0

description Connection to MikroTik ether2

switchport mode access

switchport access vlan 1

no shutdown

exit

! Configure Interface GE1/1 (PC1 - Authorized Port with Sticky MAC)

interface GigabitEthernet1/1

description Connection to PC1

switchport mode access

switchport access vlan 1

switchport port-security

switchport port-security maximum 1

switchport port-security mac-address sticky

switchport port-security violation shutdown

no shutdown

exit

! Configure Interface GE1/2 (PC2 - Blocked Port)

interface GigabitEthernet1/2

description Connection to PC2

switchport mode access

switchport access vlan 1

shutdown

exit

end

write memory

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2. MIKROTIK ROUTER CONFIGURATION

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Set Hostname

/system identity set name="MikroTikCHR7.22.1-1"

Configure IP Addresses

/ip address add address=192.168.200.1/24 interface=ether2 network=192.168.200.0

Configure DHCP Pool

/ip pool add name=dhcp_pool_ether2 ranges=192.168.200.10-192.168.200.254

Configure DHCP Server

/ip dhcp-server add address-pool=dhcp_pool_ether2 interface=ether2 lease-time=1d
name=dhcp_ether2 disabled=no

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# Configure DHCP Server Network Parameters
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/ip dhcp-server network add address=192.168.200.0/24 dns-server=8.8.8.8,1.1.1.1  
gateway=192.168.200.1
```

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# =====
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# 3. END-HOST (PC1) CONFIGURATION
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# =====
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# Obtain IP via DHCP automatically
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```
ip dhcp
```

```
# Save PC configuration (VPCS)
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```
save
```