

# Short technical report

## A.1) IP Addressing Table

Device	Interface	IP Address	Subnet Mask	Default Gateway	Description / Notes
<b>HQ-Router</b>	G0/0/0 (LAN)	10.1.10.1	255.255.255.0	N/A	HQ LAN Gateway
	S0/1/0 (WAN)	192.168.100.1	255.255.255.252	N/A	WAN to Branch A (DCE)
	S0/1/1 (WAN)	192.168.100.5	255.255.255.252	N/A	WAN to Branch B (DCE)
<b>HQ-Switch</b>	VLAN 1	10.1.10.2	255.255.255.0	10.1.10.1	Management IP
<b>HQ-Server</b>	NIC	10.1.10.11	255.255.255.0	10.1.10.1	DNS, Web, DHCP Server
<b>BR-A-Router</b>	G0/0 (LAN)	172.16.1.1	255.255.255.0	N/A	Branch A LAN Gateway
	S0/0/0 (WAN)	192.168.100.2	255.255.255.252	N/A	WAN to HQ
<b>BR-A-Switch</b>	VLAN 1	172.16.1.2	255.255.255.0	172.16.1.1	Management IP
<b>BR-B-Router</b>	G0/0 (LAN)	172.16.2.1	255.255.255.0	N/A	Branch B LAN Gateway
	S0/0/0 (WAN)	192.168.100.6	255.255.255.252	N/A	WAN to HQ
<b>BR-B-Switch</b>	VLAN 1	172.16.2.2	255.255.255.0	172.16.2.1	Management IP

# Short technical report

## A.2) DHCP Configuration Ranges

Pool Name	Network	Start IP Address	End IP Address	Default Gateway	DNS Server
serverPool (HQ)	10.1.10.0/24	<b>10.1.10.21</b>	10.1.10.200	10.1.10.1	10.1.10.11
Branch_A_Pool	172.16.1.0/24	<b>172.16.1.10</b>	172.16.1.254	172.16.1.1	10.1.10.11
Branch_B_Pool	172.16.2.0/24	<b>172.16.2.10</b>	172.16.2.254	172.16.2.1	10.1.10.11

# Short technical report

## B) Connectivity Tests PC-A

The screenshot shows a window titled "BR-A-PC" with a toolbar at the top containing "Physical", "Config", "Desktop" (which is selected), "Programming", and "Attributes". Below the toolbar is a "Command Prompt" window with a blue header bar. The command prompt displays the following output:

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 10.1.10.11

Pinging 10.1.10.11 with 32 bytes of data:

Reply from 10.1.10.11: bytes=32 time=9ms TTL=126
Reply from 10.1.10.11: bytes=32 time=6ms TTL=126
Reply from 10.1.10.11: bytes=32 time=1ms TTL=126
Reply from 10.1.10.11: bytes=32 time=7ms TTL=126

Ping statistics for 10.1.10.11:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 9ms, Average = 5ms

C:\>tracert 10.1.10.11

Tracing route to 10.1.10.11 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms      172.16.1.1
  2  4 ms      0 ms      0 ms      192.168.100.1
  3  0 ms      0 ms      0 ms      10.1.10.11

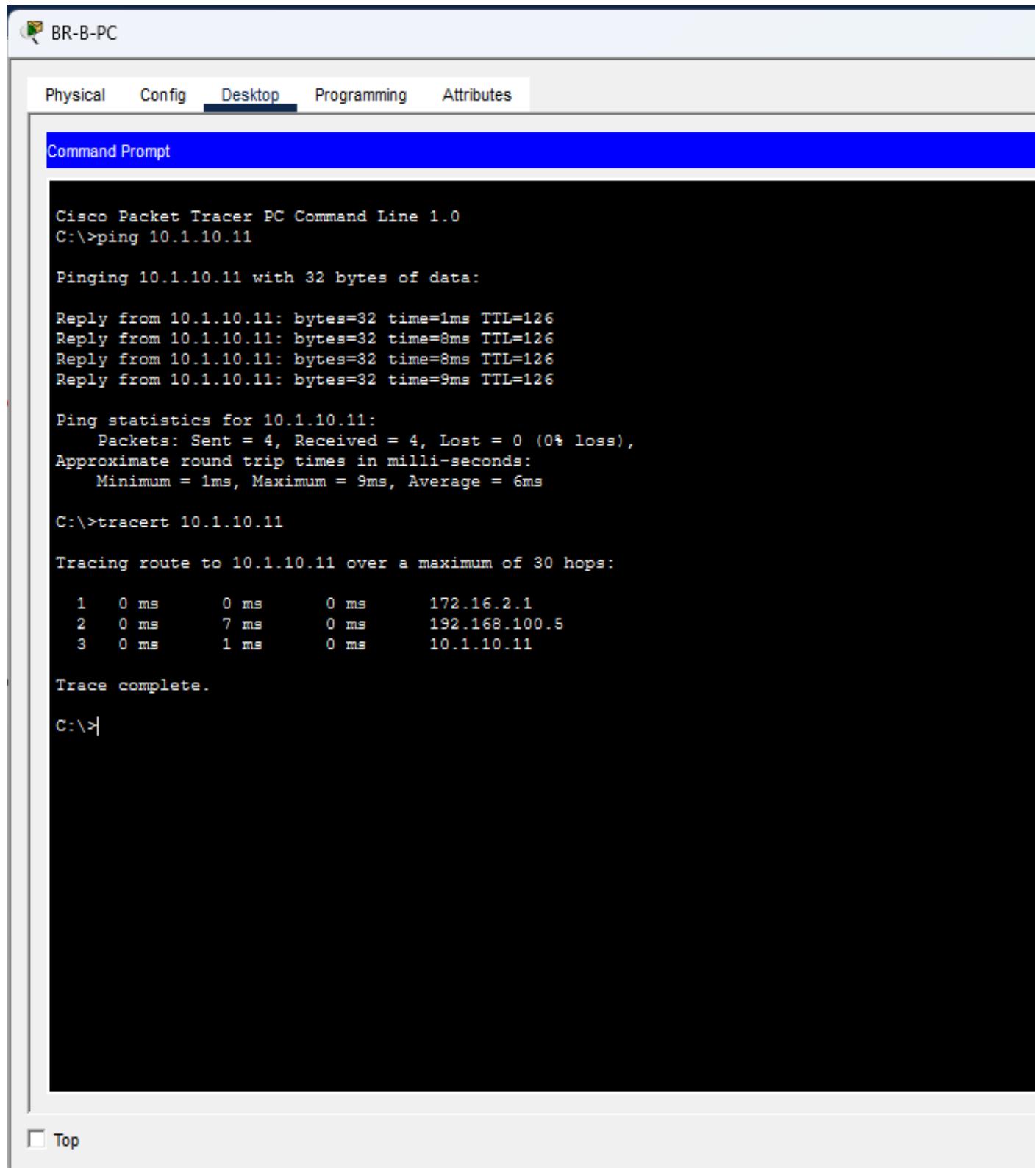
Trace complete.

C:\>
```

At the bottom left of the window, there is a checkbox labeled "Top".

# Short technical report

## B) Connectivity Tests PC-B



The screenshot shows a window titled "BR-B-PC" with a toolbar at the top containing "Physical", "Config", "Desktop" (which is selected), "Programming", and "Attributes". Below the toolbar is a blue header bar labeled "Command Prompt". The main area displays the output of a command-line interface:

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 10.1.10.11

Pinging 10.1.10.11 with 32 bytes of data:

Reply from 10.1.10.11: bytes=32 time=1ms TTL=126
Reply from 10.1.10.11: bytes=32 time=8ms TTL=126
Reply from 10.1.10.11: bytes=32 time=8ms TTL=126
Reply from 10.1.10.11: bytes=32 time=9ms TTL=126

Ping statistics for 10.1.10.11:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 9ms, Average = 6ms

C:\>tracert 10.1.10.11

Tracing route to 10.1.10.11 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms      172.16.2.1
  2  0 ms      7 ms      0 ms      192.168.100.5
  3  0 ms      1 ms      0 ms      10.1.10.11

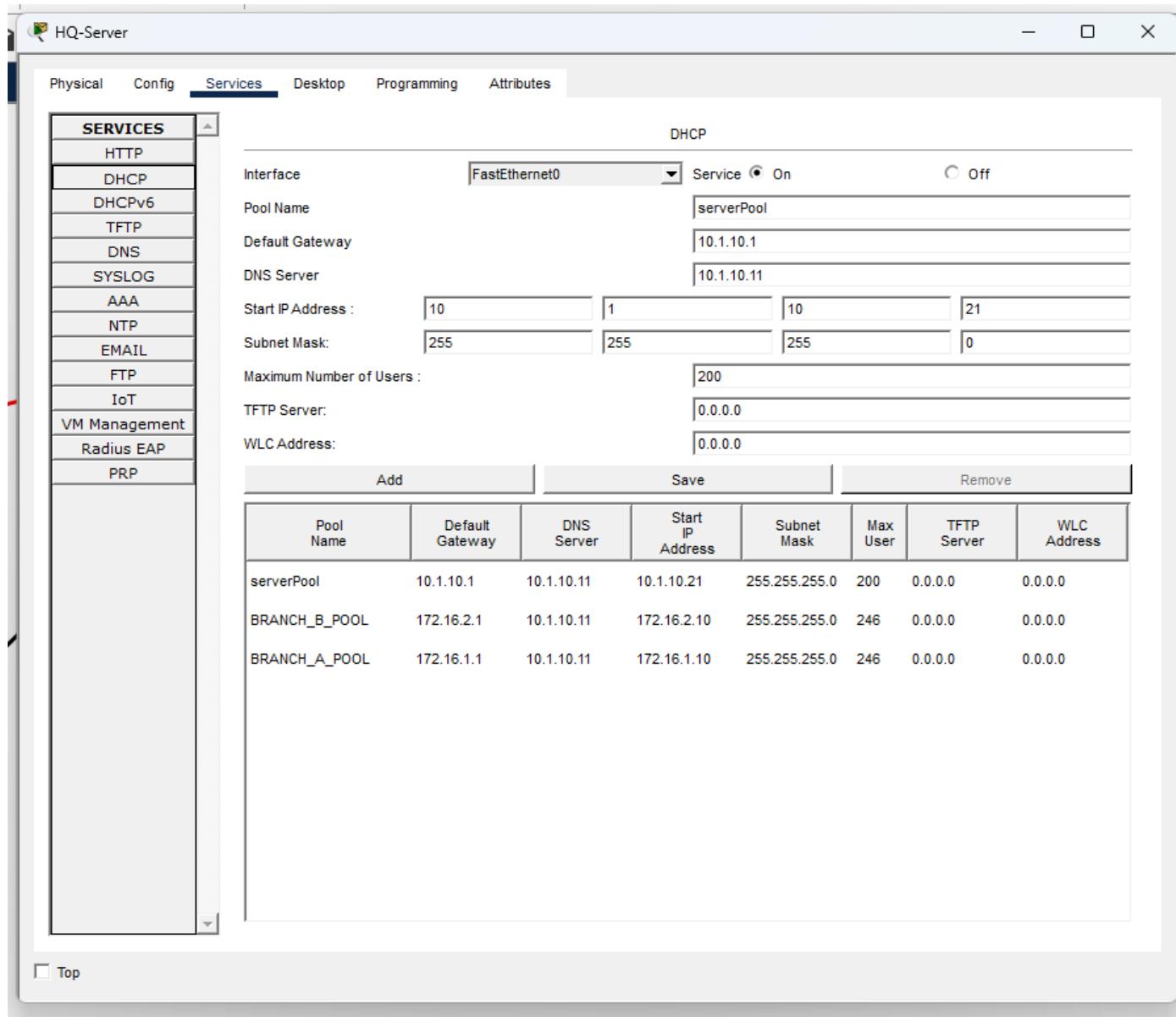
Trace complete.

C:\>
```

At the bottom left of the window, there is a "Top" button.

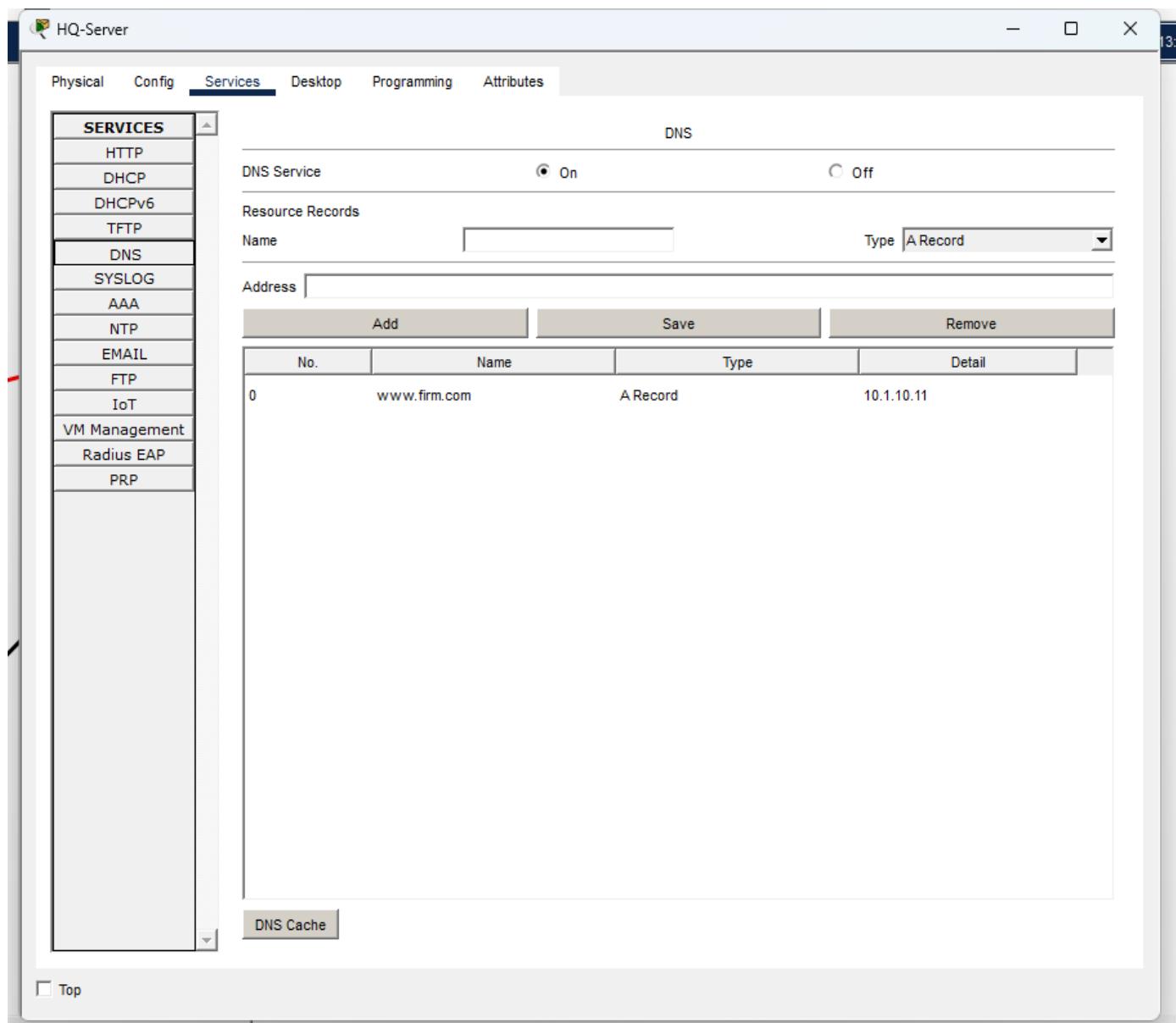
# Short technical report

## C) Dhcpc server configuration screenshot



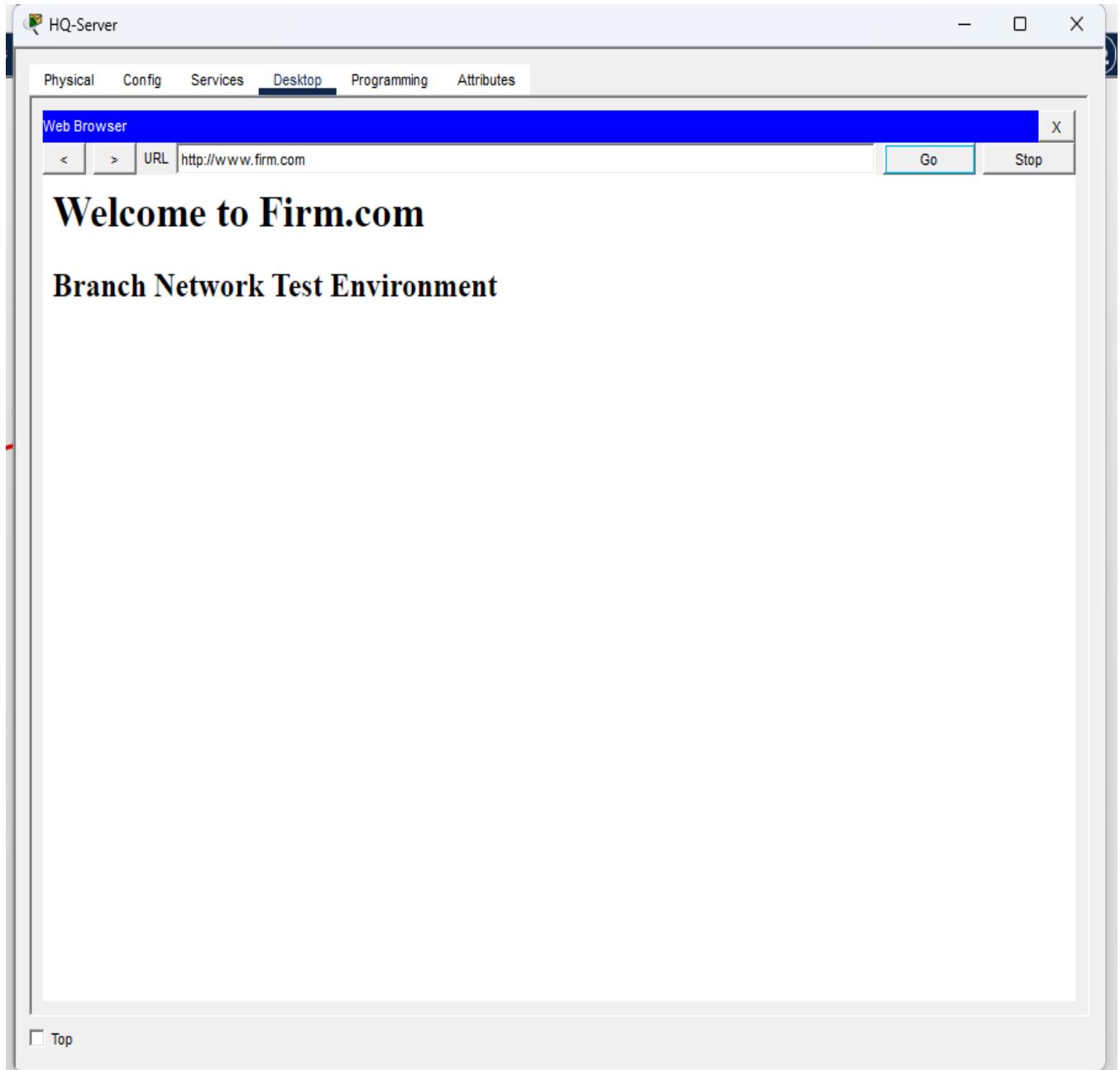
# Short technical report

## D) DNS server service configuration screenshot



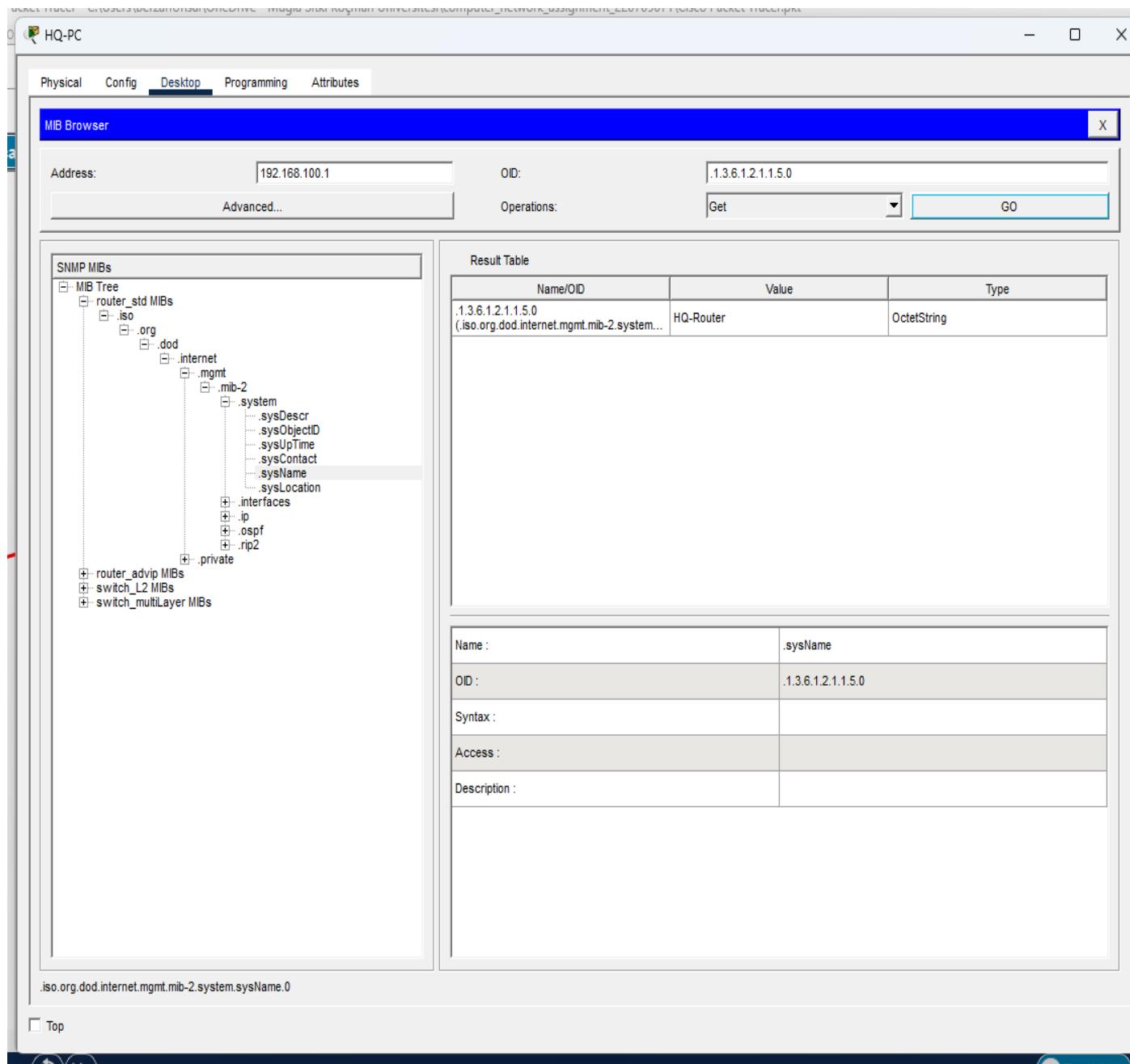
# Short technical report

E) web server service configuration screenshots



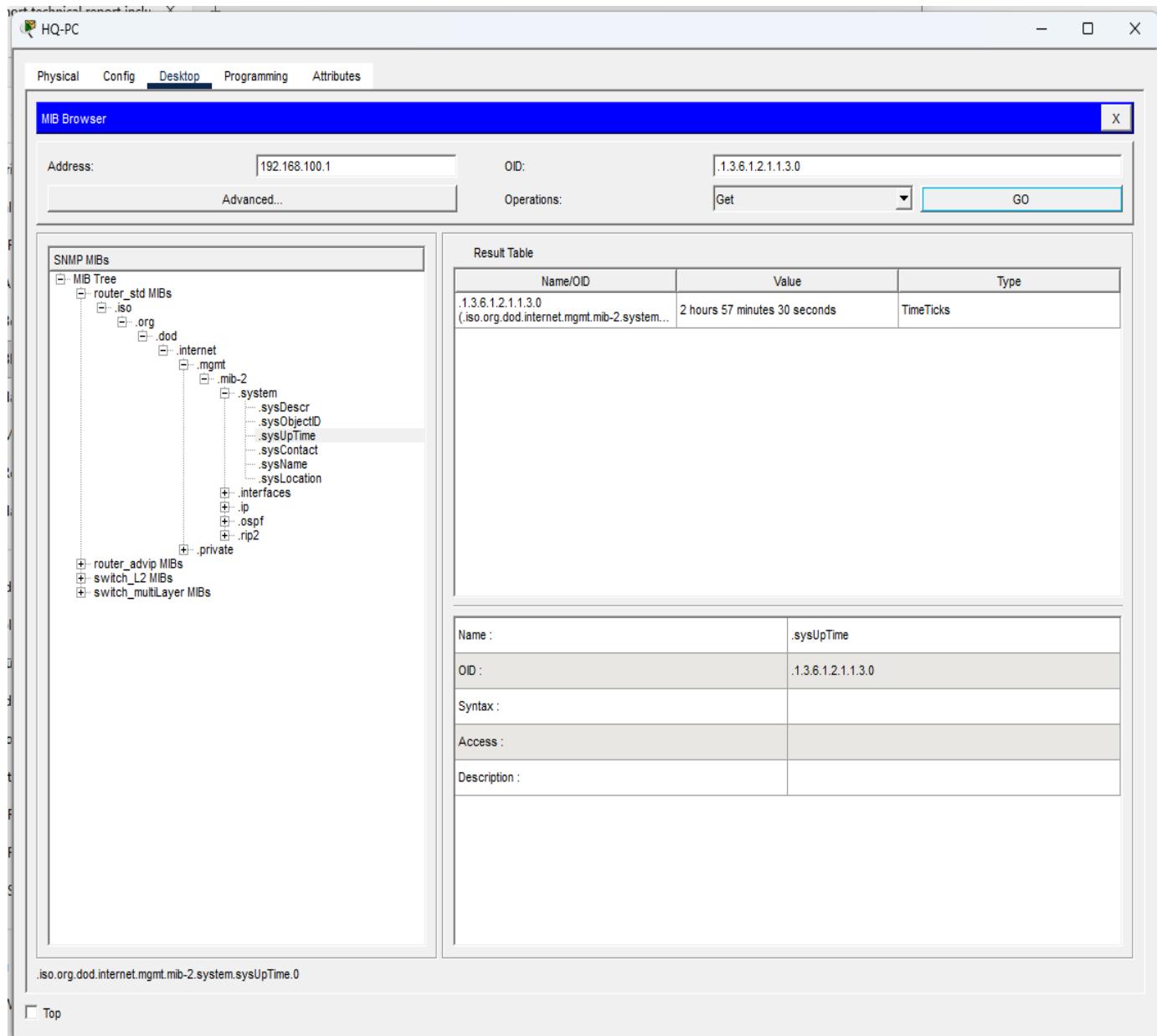
# Short technical report

F) Successful SNMP polling with SNMP mib browser screenshot sysName



# Short technical report

F) Successful SNMP polling with SNMP mib browser screenshot sysUpTime



# Short technical report

F) Successful SNMP polling with SNMP mib browser screenshot ifDescr

