Networking Lab - 6

OBJECTIVE:

```
1. Setup DNS on a server.
2. Update DNS settings on systems.
3. Setup HTTP web-server on server.
4. Test website.
```

PRE-REQUISITES:

Cisco packet tracer software installed.

Q1:-Start the packet tracer file included (Lab-6 Start), and have a look at the configuration.

Q2:- Firstly, change the DNS server to the name of the server in the IP Configuration of the server.

DNS Server 192.168.100.3   — ☐ ✕

Physical	Config	Services	Desktop	Programming	Attributes

SERVICES

HTTP	
DHCP	
DHCPv6	
TFTP	
DNS	
SYSLOG	
AAA	
NTP	
EMAIL	
FTP	
IoT	
VM Management	
Radius EAP	

DNS

DNS Service   ◉ On   ○ Off

Resource Records

Name   google.com   Type A Record ⌄

Address 192.168.100.4|

Add	Save	Remove

No.	Name	Type	Detail
0	google.com	A Record	192.168.100.4

Q3:- Go to DHCP in services, update the DNS to the same, and Starting IP address.

DHCP SEVER 192.168.100.2 — □ ✕

Physical   Config   Services   Desktop   Programming   Attributes

SERVICES
HTTP
DHCP
DHCPv6
TFTP
DNS
SYSLOG
AAA
NTP
EMAIL
FTP
IoT
VM Management
Radius EAP

DHCP

Interface   FastEthernet0   ⌄   Service ◉ On   ○ Off

Pool Name   serverPool

Default Gateway   0.0.0.0

DNS Server   0.0.0.0

Start IP Address :   192   168   100   0

Subnet Mask: 255   255   255   0

Maximum Number of Users :   512

TFTP Server: 0.0.0.0
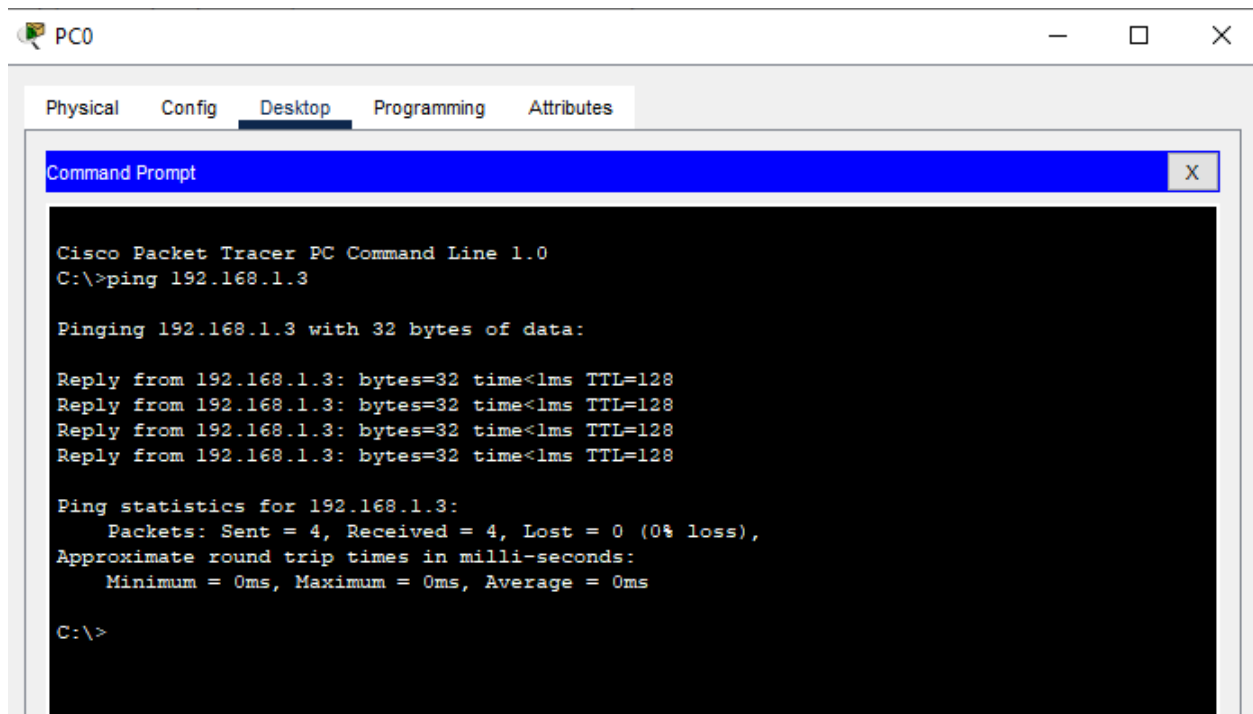
WLC Address: 0.0.0.0

Add	Save	Remove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool1	192.168....	192.168....	192.168....	255.255....	50	0.0.0.0	0.0.0.0
serverPool2	192.168....	192.168....	192.168....	255.255....	50	0.0.0.0	0.0.0.0
serverPool	0.0.0.0	0.0.0.0	192.168....	255.255....	512	0.0.0.0	0.0.0.0

Q4:- ow go to each device in their command prompt, and run "ipconfig/renew".

Q5:- Make an entry for DNS in the server, and turn ON the HTTP server.

DNS Server 192.168.100.3

Physical   Config   Services   Desktop   Programming   Attributes

SERVICES
HTTP
DHCP
DHCPv6
TFTP
DNS
SYSLOG
AAA
NTP
EMAIL
FTP
IoT
VM Management
Radius EAP

DNS

DNS Service   ● On   ○ Off

Resource Records

Name   google.com   Type   A Record

Address   192.168.100.4

| Add | Save | Remove |

No.	Name	Type	Detail
0	google.com	A Record	192.168.100.4
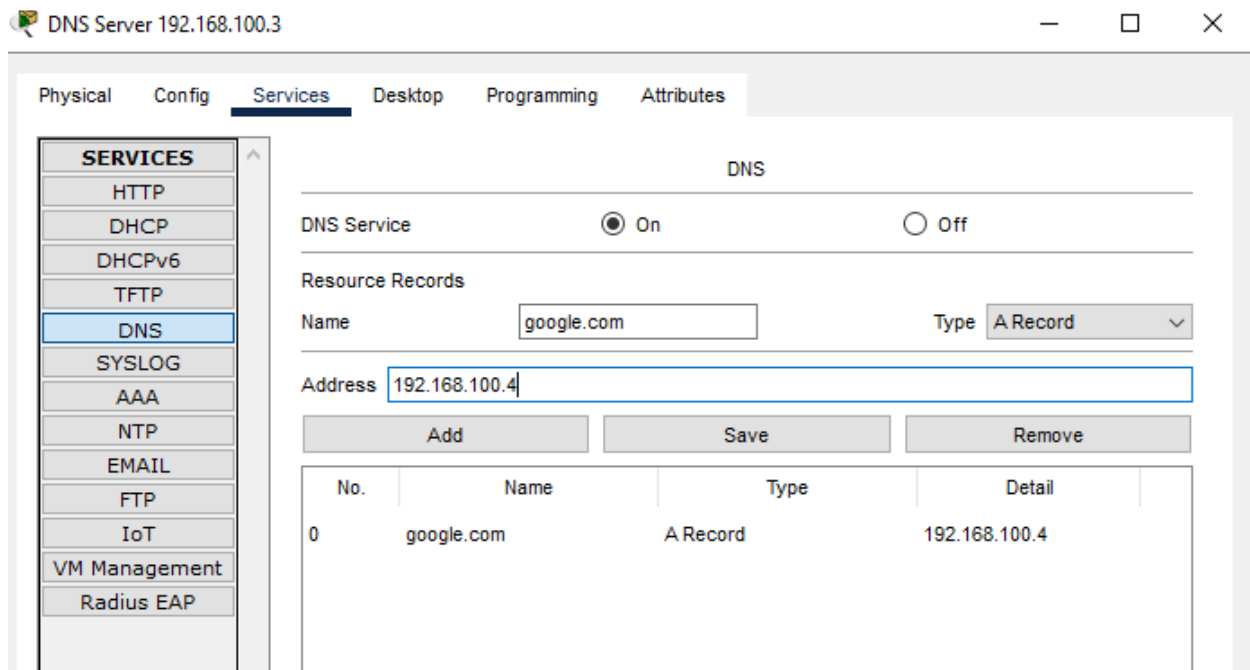
Q6:- Verify by going to web-browser in PC#1 and hit the domain name for the DNS server.

PC0

Physical   Config   Desktop   Programming   Attributes

Web Browser   X

<   >   URL http://google.com   Go   Stop

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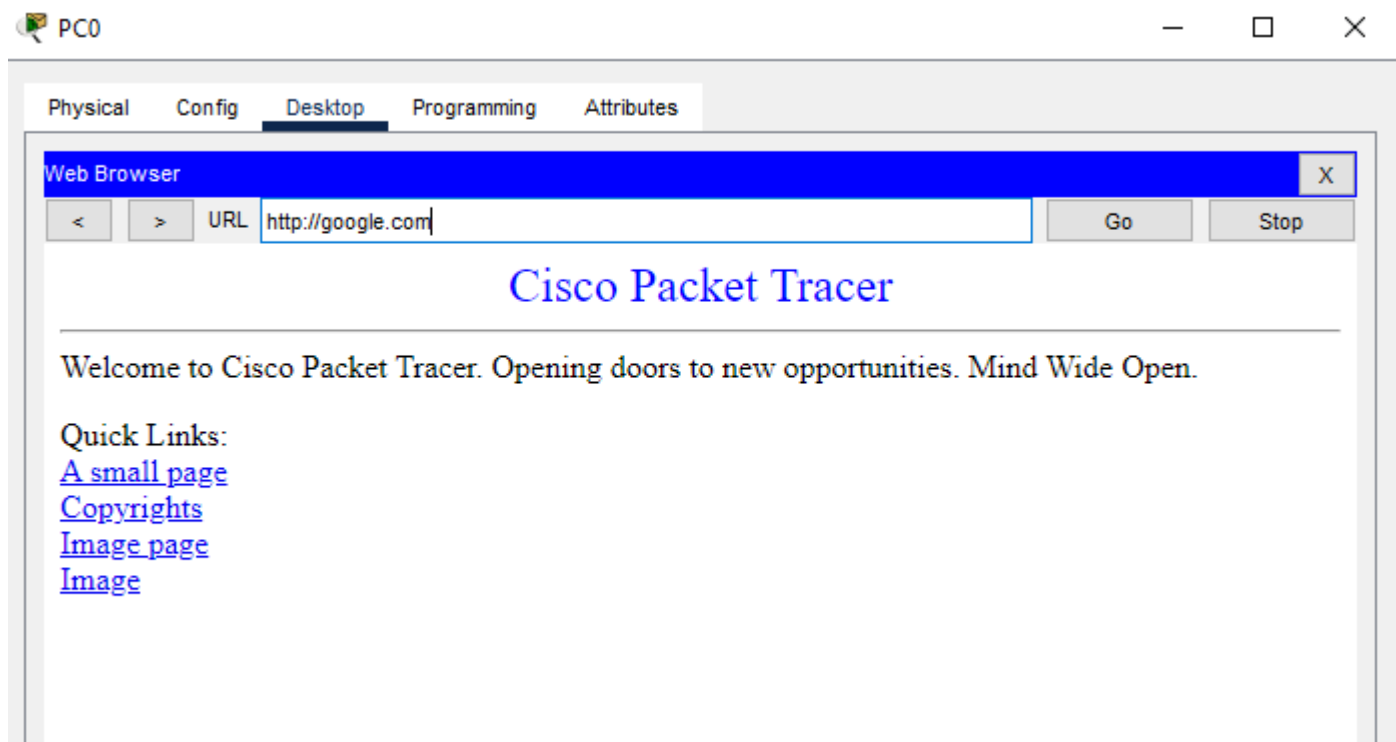
Q7:- Alternate method is to ping the server in command prompt using ip address or the domain name.

```
C:\>ping 192.168.100.4

Pinging 192.168.100.4 with 32 bytes of data:

Reply from 192.168.100.4: bytes=32 time<1ms TTL=128
Reply from 192.168.100.4: bytes=32 time<1ms TTL=128
Reply from 192.168.100.4: bytes=32 time<1ms TTL=128
Reply from 192.168.100.4: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.100.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping google.com

Pinging 192.168.100.4 with 32 bytes of data:

Reply from 192.168.100.4: bytes=32 time<1ms TTL=128
Reply from 192.168.100.4: bytes=32 time<1ms TTL=128
Reply from 192.168.100.4: bytes=32 time<1ms TTL=128
Reply from 192.168.100.4: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.100.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```