

18/12/2024

Experiment 8

Observation Book:

18/12/2024 exp-8

Question: Configure Web server, DNS within a LAN

Aim: To configure DNS server to demonstrate the mapping of IP address and domain name.

Topology:

```
graph TD
    Switch0[Switch0] ---|Fa0/1| PC0[PC0  
10.0.0.1]
    Switch0 ---|Fa0/2| Server0[Server0  
10.0.0.2]
```

* Procedure:

- Connect a PC and a server to a switch, assign IP address as 10.0.0.1 and 10.0.0.2 respectively
- Configure the PC, switch, server with their IP address
- Open Cisco Packet Tracer and arrange as given in topology and configure the devices as given.
- Connect PC0 and server0 via switch PT
- PC0 connects to switch on interface Fa0/1 and switch on Fa0/1
- Similarly for server0
- Server 0

Go to server → services → DNS

Enable ON

In the test fields add:

name: new

address: 10.0.0.3

click add

go to HTTP

click edit for under HTML (change if needed)

click save

1. Go to PC0 → Desktop → web browser

2. Search 'new' in url bar (or)

Search 10.0.0.3 in url bar

output: for both 'new' and 10.0.0.3

cisco packet Tracer

Welcome to cisco packet tracer, opening doors to new opportunities. Mind wide open.

Quick Links:

A small page

Copyrights

Image

* Observations:

DNS translates domain names to ip addresses.

It simplifies accessing websites by using human-readable names.

In this experiment, a web server & DNS were configured within a LAN to map domain names to ip addresses.

The PC0 successfully accessed the web by server 0 by both

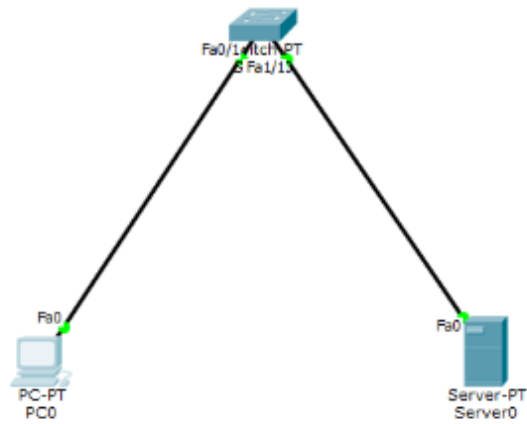
its IP address and the configured domain name

'new'. The configuration was successful allowing

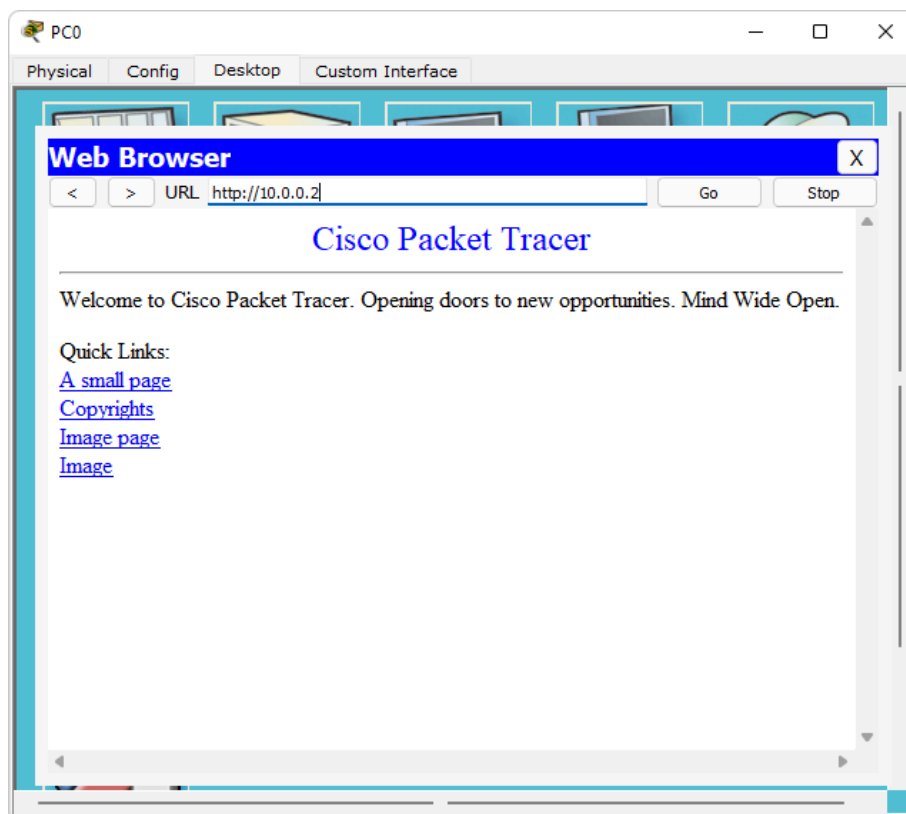
the web page to be accessed in both methods.

[Signature]
31/12/20

Topology:



Output:



Server0

PhysicalConfigServicesDesktopCustom Interface

SERVICES

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

DNS

DNS Service ☒ On ☐ Off

Resource Records

Name

Type A Record

Address

AddSaveRemove

No.	Name	Type	Detail
0	new	A Record	10.0.0.3

DNS Cache

Server0

PhysicalConfigServicesDesktopCustom Interface

SERVICES

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

File Name: index.html

<html>
<center>Cisco Packet
Tracer</center>
<hr>Welcome to BMS.
Opening doors to new opportunities. Mind Wide Open.
<p>Quick Links:

A small page

Copyrights

Image page

Image
</html>

File ManagerSave

