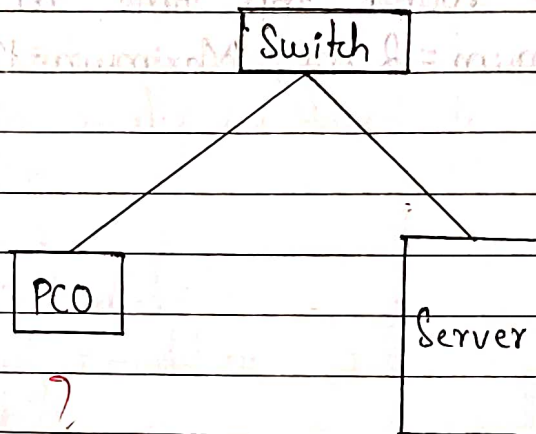


20/7/23

Aim - To understand the working of Domain Name System (DNS) and make changes of the DNS protocol.

Topology -



Procedure -

- 1) The topology consists of a PC, server and switch.
- 2) Connect them using copper-straight through wires.
- 3) Set ip address of PC as 10.0.0.1 and that of server as 10.0.0.2.
- 4) Click on PC
Desktop < Web browser < 10.0.0.2
It displays the index.html page of the server.
- 5) Click on server
Services < index.html < edit <
change the subject to BMS college of engineering CSE < save

6) Click on PC
Desktop < Web browser < 10.0.0.2
It changes the content of index.html page as
set by us i.e., BMS College of Engineering CSE.

7) Click on server
Services < DNS < ON <
give domain name as bmsceecse <
set address as 10.0.0.2
< add

8) Click on PC
Desktop < Web browser < bmsceecse
It displays the same index.html of page
of the server (with ip address 10.0.0.2)

Result-

| | | | | |
|-------------|---|-----|------------------|---------|
| Web Browser | | | X | |
| < | > | URL | http://bmsceecse | Go Stop |

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new opportunities. Mind wide open.

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Image page

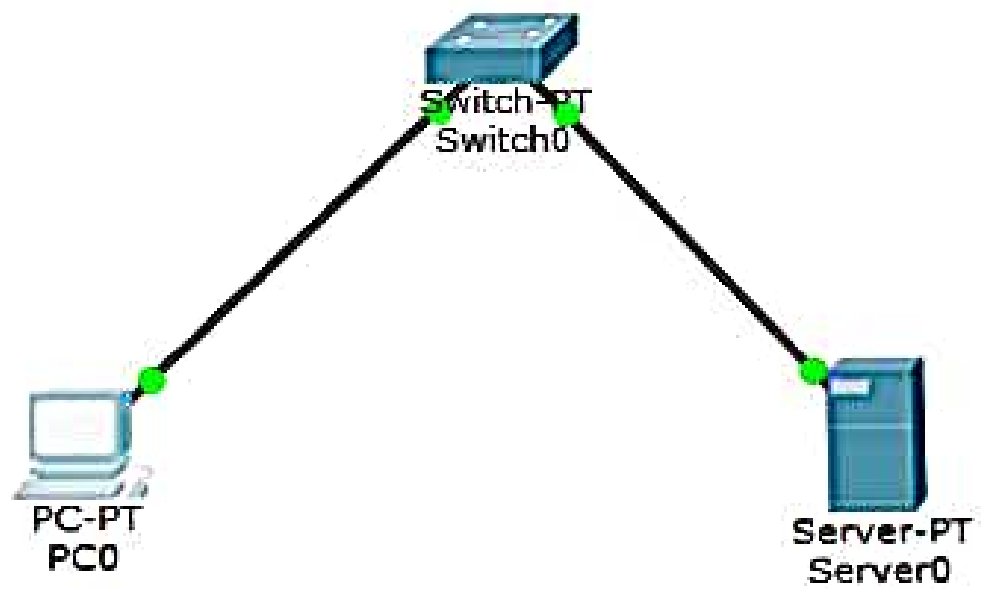
Image

10/10

25/7/23

Observation-

The Domain Name System can be used to address a webpage and in cisco packet tracer, it can be controlled and updated in the server controller. The contents and the name of webpage can also be changed as and when required. And when this domain name is browsed in the PC, the contents of the webpage are displayed.



PC0

Physical Config Desktop Custom Interface

Web Browser

X

< > URL

Go

Stop

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- SERVICES
- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP

DNS

DNS Service

☒ On

☐ off

Resource Records

Name

Type

A Record

Address

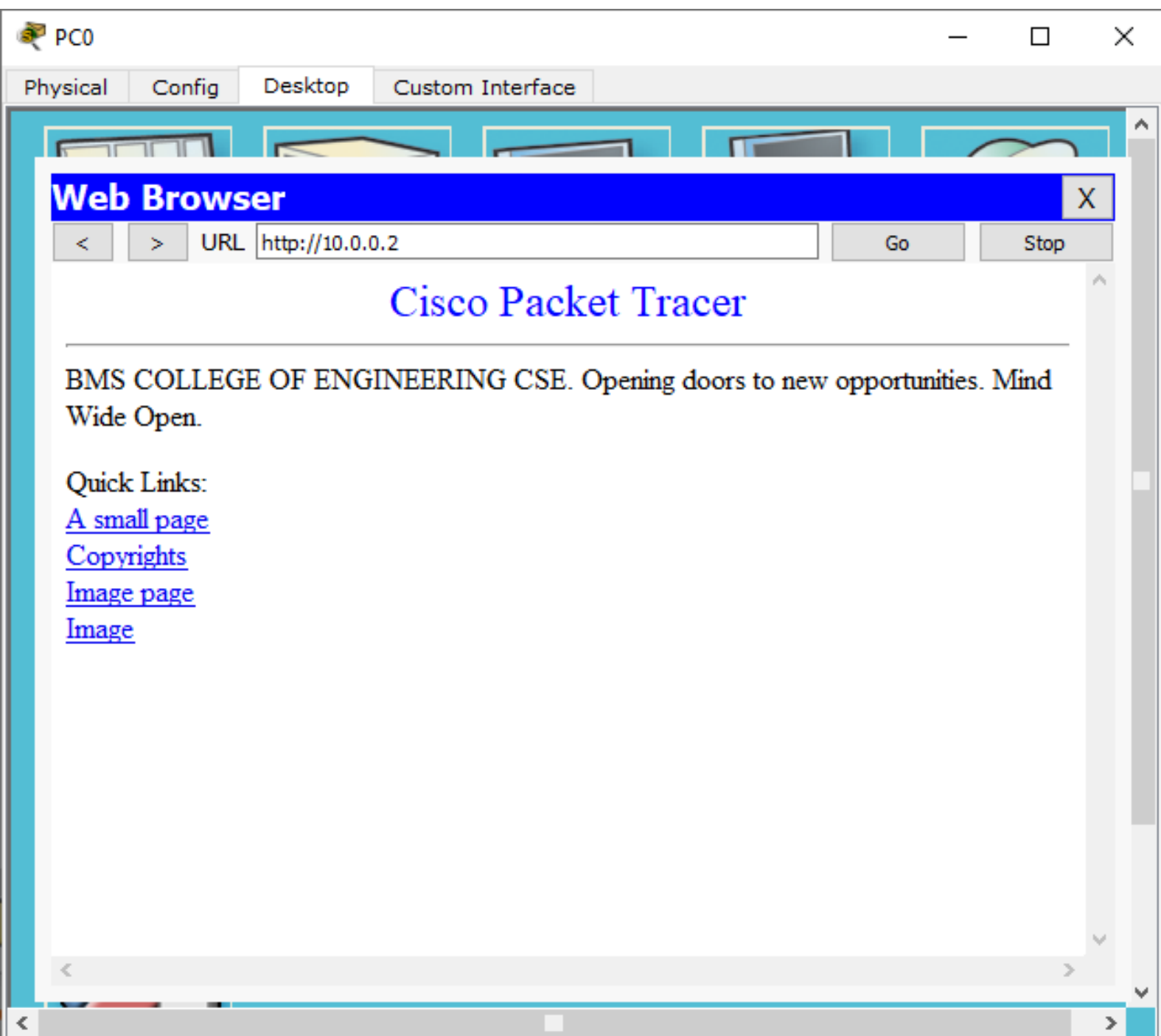
Add

Save

Remove

| No. | Name | Type | Detail |
|-----|----------|----------|----------|
| 0 | bmscecse | A Record | 10.0.0.2 |

DNS Cache



SERVICES

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

File Name:

```
<html>
<center><font size='+2' color='blue'>Cisco Packet
Tracer</font></center>
<hr>BMS COLLEGE OF ENGINEERING CSE. Opening doors to new
opportunities. Mind Wide Open.
<p>Quick Links:
<br><a href='helloworld.html'>A small page</a>
<br><a href='copyrights.html'>Copyrights</a>
<br><a href='image.html'>Image page</a>
<br><a href='cscoptlogo177x111.jpg'>Image</a>
</html>
```




PC0



Physical

Config

Desktop

Custom Interface

Web BrowserURL

Go

Stop

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