PC0

Physical | Config | Desktop | Custom Interface

Web Browser X

< > URL http://10.0.0.3 | Go | Stop

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E Mail | PPPoE Dialer | Text Editor

Fa0/1 Switch-PT Fa1/1
Switch0

Fa0

Server-PT
Server0

IP: 10.0.0.3

Fa0

PC-PT
PC0

IP: 10.0.0.2

Server0

Physical | Config | Desktop | Custom Interface

GLOBAL
Settings
Algorithm Settings
SERVICES
HTTP
DHCP
TFTP
DNS
SYSLOG
AAA
NTP
EMAIL
FTP
FIREWALL
IPv6 FIREWALL
INTERFACE
FastEthernet0

DNS

DNS Service ● On   ○ Off

Resource Records

Name abc   Type A Record ▼

Address 10.0.0.3

Add | Save | Remove

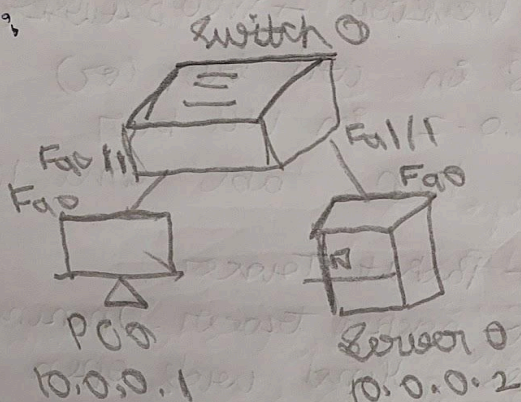| Name	Type	Details
1 abc	A Record	10.0.0.3

DNS Cache

EXPERIMENT-12

AIM: To configure DNS server to demonstrate the mapping of IP addresses and domain names.

TOPOLOGY:

Connect a PC and a server to switch, assign ip address as 10.0.0.1 and 10.0.0.2 resp.

Configuration:

Open cisco packet tracer and arrange as given in topology and configure the devices as given below

PC0:
 IP address: 10.0.0.2

Server 0:
 IP address: 10.0.0.3

connect PC0 and server 0 via a switch P.
PC0 connects to switch on interface Fa0 and switch on Fa0/1

Server connects to switch on interface Fa0 and switch on Fa0/1

Server 0:
 Go to server → services → DNS
 enable on

✓ In the text fields add:
 name: abc
 address: 10.0.0.3
 click cross

go to HTTP
click edit for index. HTML [change if needed]
click save.

Procedure:
1) go to PC0 → Desktop → Web browser
2) Search 'abc' in url bar (or)
3) Search 10.0.0-2 in url bar

Output: for both 'abc' and 10.0.0.3

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Observation:

DNS translates domain names to ip addresses. It simplifies accessing websites by using human-readable names.

In this experiment a web server and DNS were configured within a LAN to map domain names to ip addresses. The PC0 successfully accessed the server by both its ip address and the configured domain name 'abc'. The configuration was successful allowing the web page to be accessed via both methods.

N
20/12/24