Switch-PT
Switch0

PC-PT
PC0

v4: 10.0.0.3
NS: 255.0.0.0

Laptop-PT
Laptop0

IPv4: 10.0.0.2
DNS: 255.0.0.0

Server-PT
Server0

IPv4: 10.0.0.1
DNS: 255.0.0.0

Server0 — □ ×

Physical   Config   <u>Services</u>   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   website1   Type A Record ⌄

Address 10.0.0.1

Add	Save	Remove

No.	Name	Type	Detail
0	website1	A Record	10.0.0.1

DNS Cache

☐ Top

Laptop0   —   □   ✕

Physical   Config   Desktop   Programming   Attributes

Web Browser   X

<   >   URL   http://website1   Go   Stop

Cisco Packet Tracer

Welcome to Computer Networks Laboratory
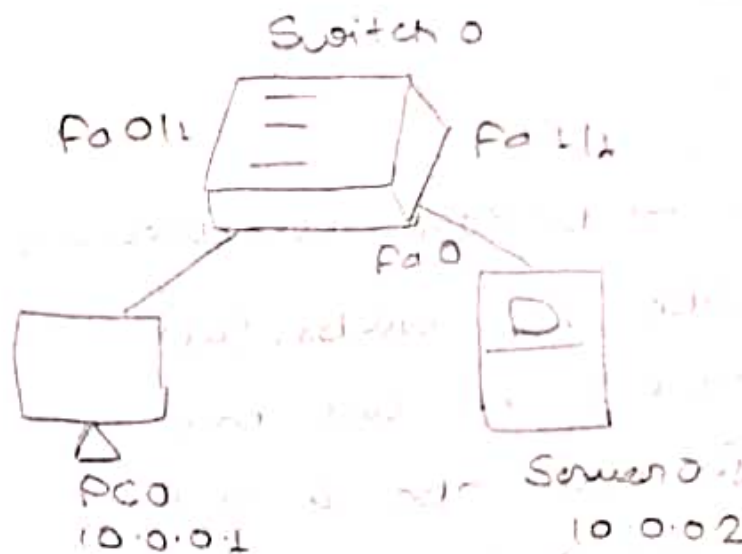
Quick Links:
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Ques :-
AIM :- Do configure DNS server to demonstrate the mapping of IP addresses & domain name.

Topology :-

Switch 0

Fo 01   Fo 1/1

Fa 0

PCO   Server 0
10.0.0.1   10.0.0.2

Connect a PC & a server to a switch, assign IP addresses as 10.0.0.1 & 10.0.0.2 & res

Configuration

1. After arranging the topology. configure the devices as given below:

   PCO :

   IP address : 10.0.0.2

   Server 0 :

   IP address : 10.0.0.3

   Connect PCO, and server 0 via a switch PT PCO connects to switch on interface Fa0 & switch on Fa 1/1.

   Server 0 :-

   Go to server → services → DNS
   enable Dm
   In the test field add:-

name : abc
address : 10.0.0.3

Click add

go to HTTP

Click edit for index. HTML { changes if needed}

Click save

Procedure :

① Go to PCO → Desktop → Webbrowsers

② Search 'abc' in url bar (or)
search 10.0.0.2 in url bar
Output : for both 'abc' & 10.0.0.3

Cisco packet Tracer

Welcome to Cisco packet Tracer. opening doors to new opportunities. 'mind wide open'

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Observation

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

In this experiment, a web server & DNS were configured within a LAN to maps domain names to ip address. The PCO successfully accessed the server 0 by both its ip address & the configured domain name 'abc'.