

2/11/2020

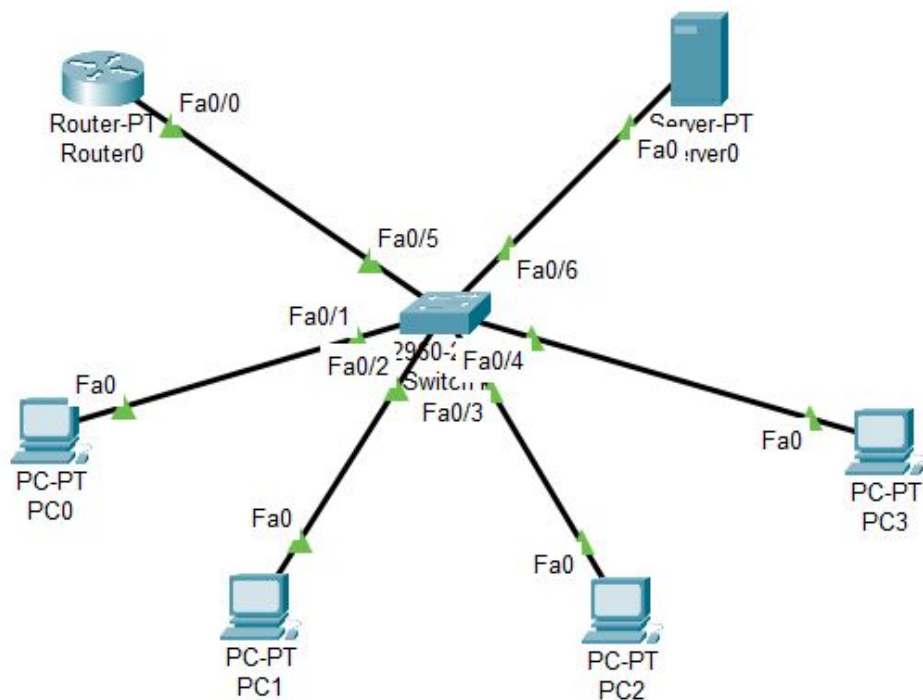
CN Lab 5

Learnings and Observations:

A topology was created using a Router, PCs, Switch and Server. The Dynamic Host Configuration Protocol was implemented to dynamically assign IP addresses and other configuration parameters to the connected devices. This was verified by a ping test.

Screenshots:

Connection/topology



Config

PC0

Physical Config Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Bluetooth

Global Settings

Display Name PC0

Interfaces FastEthernet0

Gateway/DNS IPv4

☒ DHCP

☐ Static

Default Gateway 10.0.0.1

DNS Server 10.0.0.2

Gateway/DNS IPv6

☐ Automatic

☒ Static

Default Gateway

DNS Server

☐ Top

Server0

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 10.0.0.1

DNS Server 10.0.0.2

Start IP Address : 10 0 0 0

Subnet Mask: 255 0 0 0

Maximum Number of Users : 512

TFTP Server: 10.0.0.2

WLC Address: 0.0.0.0

Add

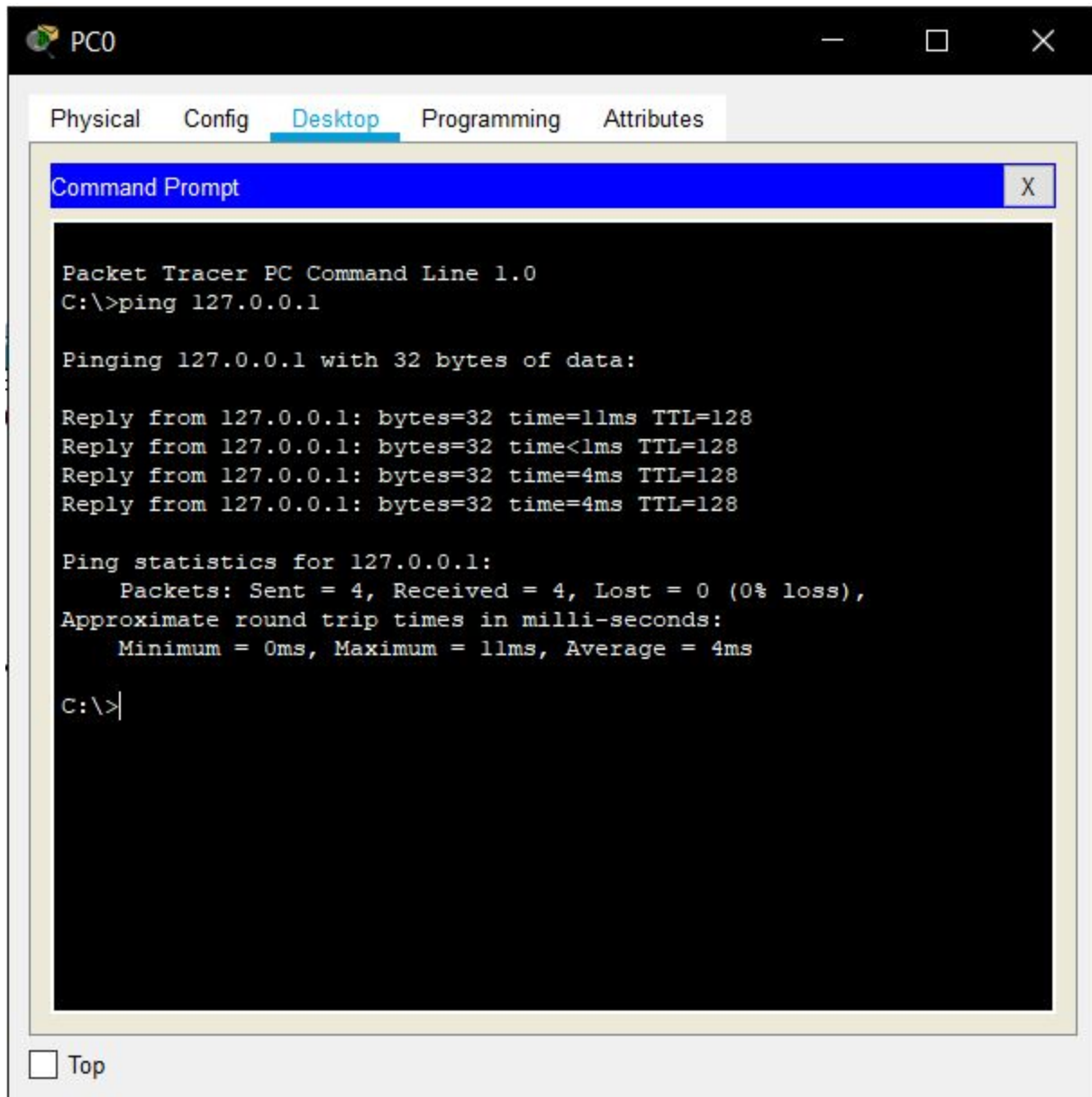
Save

Remove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	10.0.0.1	10.0.0.2	10.0.0.0	255.0.0.0	512	10.0.0.2	0.0.0.0

☐ Top

Terminal/Ping



The screenshot shows a Packet Tracer interface for PC0. The 'Desktop' tab is selected, displaying a 'Command Prompt' window. The command prompt shows the execution of the 'ping 127.0.0.1' command, which is successful. The output includes details about the data being pinged (32 bytes), the response times (11ms, <1ms, 4ms, 4ms), and the TTL (128). Ping statistics are also shown, indicating 4 packets sent, 4 received, and 0% loss. The command prompt is titled 'Command Prompt' and has a close button (X) in the top right corner. The Packet Tracer window has tabs for 'Physical', 'Config', 'Desktop', 'Programming', and 'Attributes'. The 'Desktop' tab is currently active. At the bottom left of the Packet Tracer window, there is a checkbox labeled 'Top'.

```
Packet Tracer PC Command Line 1.0
C:\>ping 127.0.0.1

Pinging 127.0.0.1 with 32 bytes of data:

Reply from 127.0.0.1: bytes=32 time=11ms TTL=128
Reply from 127.0.0.1: bytes=32 time<1ms TTL=128
Reply from 127.0.0.1: bytes=32 time=4ms TTL=128
Reply from 127.0.0.1: bytes=32 time=4ms TTL=128

Ping statistics for 127.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 11ms, Average = 4ms

C:\>
```

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