



DEPARTMENT OF

COMPUTER SCIENCE & ENGINEERING

Discover. Learn. Empower.

WORKSHEET – 3.2

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Semester: 4th

Date of Performance: 24-04-2023

Subject Name: Computer Networks

Subject Code: 21CSH-256

Aim:

Configure DHCP server using Packet Tracer.

Objective: Understand how DHCP works

S/W Requirement: Packet Tracer

H/W Requirement:

- Processor – Any suitable Processor e.g. Celeron
- Main Memory - 128 MB RAM
- Hard Disk – minimum 20 GB IDE Hard Disk
- Removable Drives–1.44 MB Floppy Disk Drive –52X IDE CD-ROM Drive
- PS/2 HCL Keyboard and Mouse

Method:

- **Step 1:** First of all build the network topology using server, switch and PCs.
- **Step 2:** On the DHCP Server, configure interface assign the IP address and default gateway.
- **Step 3:** after assigned DHCP, enable DHCP on PC0 like – **PC->Desktop->IP configuration.** Then enable DHCP.

PC0

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration

☒ DHCP ☐ Static

IP Address: 192.168.1.3

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::2E0:F9FF:FE4D:25E9

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

☐ Top

DHCP Server

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: 0.0.0.0

DNS Server: 0.0.0.0

Start IP Address: 192 168 1 0

Subnet Mask: 255 255 255 0

Maximum Number of Users: 255

TFTP Server: 0.0.0.0

WLC Address: 0.0.0.0

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
My DHCP Pool	192.16...	192.16...	192.16...	255.25...	256	0.0.0.0	0.0.0.0
serverPool	0.0.0.0	0.0.0.0	192.16...	255.25...	255	0.0.0.0	0.0.0.0

☐ Top

PC1

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration

☒ DHCP ☐ Static

IP Address: 192.168.1.1

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::260:2FFF:FEB6:443B

IPv6 Gateway:

IPv6 DNS Server:

802.1X

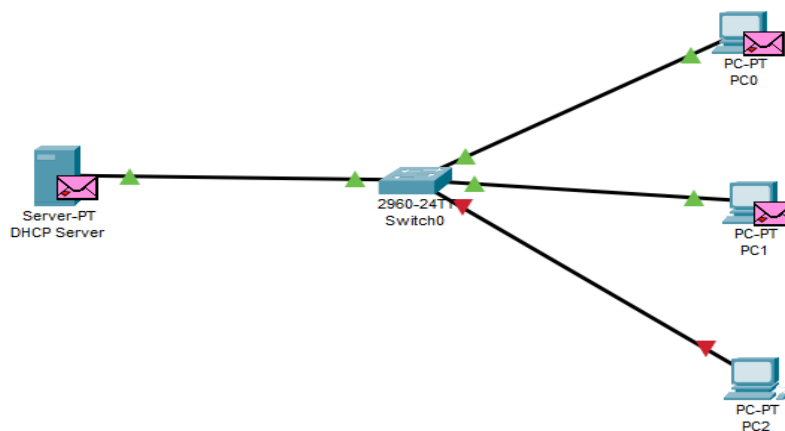
☐ Use 802.1X Security

Authentication: MDS

Username:

☐ Top

Result:



Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type
	0.412	--	Switch0	STP
	0.413	Switch0	DHCP Server	STP
	0.413	Switch0	PC0	STP
	0.413	Switch0	PC1	STP
	2.418	--	Switch0	STP