

## LAB FINAL

Only For Course Teacher						
		Needs Improvement	Developing	Sufficient	Above Average	Total Mark
Allocate Mark & Percentage		25%	50%	75%	100%	5
Content Quality	2					
Clarity	1					
Spelling & Grammar	1					
Organization and Formatting	1					
Total Obtained Mark						
Comments						

**Semester: Spring 2023**

Course Name: Data Communication and Computer Networking Lab

Course Code: SE 226

Student Name: SARAT SAHA

Student ID: 201-35-3075

Section: A

Batch: 31<sup>th</sup>

Course Teacher Name: Mr. Md. Suhag Ali

Designation: Lecturer

Department Of Software Engineering

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Lab Final

## 2.connect any two communicating devices using p2p configuration

The screenshot displays a network simulation environment. At the top, a toolbar includes icons for file operations and a menu bar with options like [Root], New Cluster, Move Object, and Set Tiled Background. The main workspace shows two PC icons labeled PC0 and PC1 connected by a dashed line. Below this, a status bar indicates '0:08:37' and 'Power Cycle Devices Fast Forward Time'. A toolbar at the bottom left contains various device icons (Generic, iPhone, etc.) and a 'Fire' button. A table with columns 'Last Status', 'Source', 'Destination', 'Type', 'Color', and 'Time(se)' is visible. A configuration window for PC0 is open, showing the 'IP Configuration' tab. The window has tabs for Physical, Config, Desktop, and Custom Interface. The IP Configuration section includes options for DHCP and Static IP. The Static IP is set to 10.10.10.1 with a Subnet Mask of 255.0.0.0. The IPv6 Configuration section also shows Static IP set, with a Link Local Address of FE80::290:2BFF:FE57:7934. The bottom status bar shows 'Fast Forward Time' and a toolbar with various simulation controls.

ical [Root] New Cluster Move Object Set Tiled Background

PC-PT PC0 PC-PT PC1

0:08:37 Power Cycle Devices Fast Forward Time

Scenario 0 Fire Last Status Source Destination Type Color Time(se)

New Delete

PC0

Physical Config Desktop Custom Interface

**IP Configuration**

IP Configuration

☐ DHCP ☒ Static

IP Address 10.10.10.1

Subnet Mask 255.0.0.0

Default Gateway

DNS Server

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address

Link Local Address FE80::290:2BFF:FE57:7934

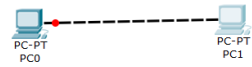
IPv6 Gateway

IPv6 DNS Server

Fast Forward Time

Scenario 0 Fire Last Status Source Destination Type Color Time(se) Periodic Num Edit Delete

New Delete



PC1

Physical Config Desktop Custom Interface

### IP Configuration

IP Configuration  
☐ DHCP ☒ Static

IP Address 10.10.10.2  
Subnet Mask 255.0.0.0  
Default Gateway  
DNS Server

IPv6 Configuration  
☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address  
Link Local Address FE80::2D0:97FF:FEBA:6AE  
IPv6 Gateway  
IPv6 DNS Server

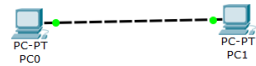
Forward Time

Scenario 0

New Delete

Toggle PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time(se)	Periodic	Num	Edit	Delete
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Fast Forward Time

Scenario 0

New Delete

Fire	Last Status	Source	Destination	Type	Color	Time(se)	Periodic	Num	Edit	Delete
------	-------------	--------	-------------	------	-------	----------	----------	-----	------	--------

The screenshot displays a network simulation environment. In the center, two PCs, labeled 'PC-PT PC0' and 'PC-PT PC1', are connected by a dashed line representing a network link. To the right, the 'Simulation Panel' is visible, containing an 'Event List' table, 'Play Controls', and 'Event List Filters'.

**Event List Table:**

Vis.	Time(sec)	Last Dev	At Dev	Type	Info
	0.000	--	PC0	ICMP	
	0.000	--	PC0	ARP	
	0.001	PC0	PC1	ARP	
	0.002	PC1	PC0	ARP	
	0.002	--	PC0	ICMP	
<input checked="" type="checkbox"/>	0.003	PC0	PC1	ICMP	

**Play Controls:** Back, Auto Capture / Play, Capture / Forward

**Event List Filters - Visible Events:** ACL Filter, ARP, BGP, CDP, DHCP, DHCPv6, DNS, DTP, EIGRP, EIGRPv6, FTP, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, LACP, NDP, NE, NTP, OSPF, OSPFv6, PAgP, POP3, RADIUS, RIP, RIPng, RTP, SCCP, SMTP, SI, SSH, STP, SYSLOG, TACACS, Tcp, TFTP, Telnet, UDP, VTP

**Bottom Status Bar:**

Scenario 0

Fire Last Status Source Destination Type Color Time(se) Periodic Num Edit Delete

<input checked="" type="checkbox"/>	In Progress	PC0	PC1	ICMP		0.000	N	0	(edit)	(del)
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Toggle PDU List Window

4.configure a router which can serve three different networks .

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

GigabitEthernet0/0

GigabitEthernet0/1

GigabitEthernet0/2

GigabitEthernet0/0

Port Status

Bandwidth

☒ 1000 Mbps ☐ 100 Mbps ☐ 10 Mb

Duplex

☐ Half Duplex ☒ Full Dupl

MAC Address

0001.97B7.0601

IP Configuration

IPv4 Address

10.0.0.3

Subnet Mask

255.0.0.0

Tx Ring Limit

10

Equivalent IOS Commands

```
Router(config-if)#ip address 172.16.0.3 255.255.0.0
Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/1
Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0
Router(config-if)#
```



Physical Config CLI Attributes

**GLOBAL**

Settings

Algorithm Settings

**ROUTING**

Static

RIP

**SWITCHING**

VLAN Database

**INTERFACE**

GigabitEthernet0/0

GigabitEthernet0/1

**GigabitEthernet0/2**

GigabitEthernet0/2

Port Status ☒ On

Bandwidth ☒ 1000 Mbps ☐ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0001.97B7.0603

IP Configuration

IPv4 Address 172.16.0.3

Subnet Mask 255.255.0.0

Tx Ring Limit 10

Equivalent IOS Commands

```

Router(config-if)#exit
Router(config)#interface GigabitEthernet0/1
Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/1
Router(config-if)#
Router(config-if)#exit

```

Physical Config CLI Attributes

**GLOBAL**

Settings

Algorithm Settings

**ROUTING**

Static

RIP

**SWITCHING**

VLAN Database

**INTERFACE**

GigabitEthernet0/0

GigabitEthernet0/1

GigabitEthernet0/2

GigabitEthernet0/1

Port Status ☒ On

Bandwidth ☒ 1000 Mbps ☐ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0001.97B7.0602

IP Configuration

IPv4 Address 192.168.0.3

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```

Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/1
Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/1
Router(config-if)#
Router(config-if)#

```

## IP Configuration

Interface **FastEthernet0**

### IP Configuration

☐ DHCP ☒ Static

IPv4 Address

Subnet Mask

Default Gateway

DNS Server

### IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address

Link Local Address

Default Gateway

DNS Server

### 802.1X

☐ Use 802.1X Security

Authentication **MD5**

Username

Password