Daffodil International University

LAB REPORT

Course Code:CSE314

Course Title : Computer Network

Submitted To:

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Section: PC-(A)

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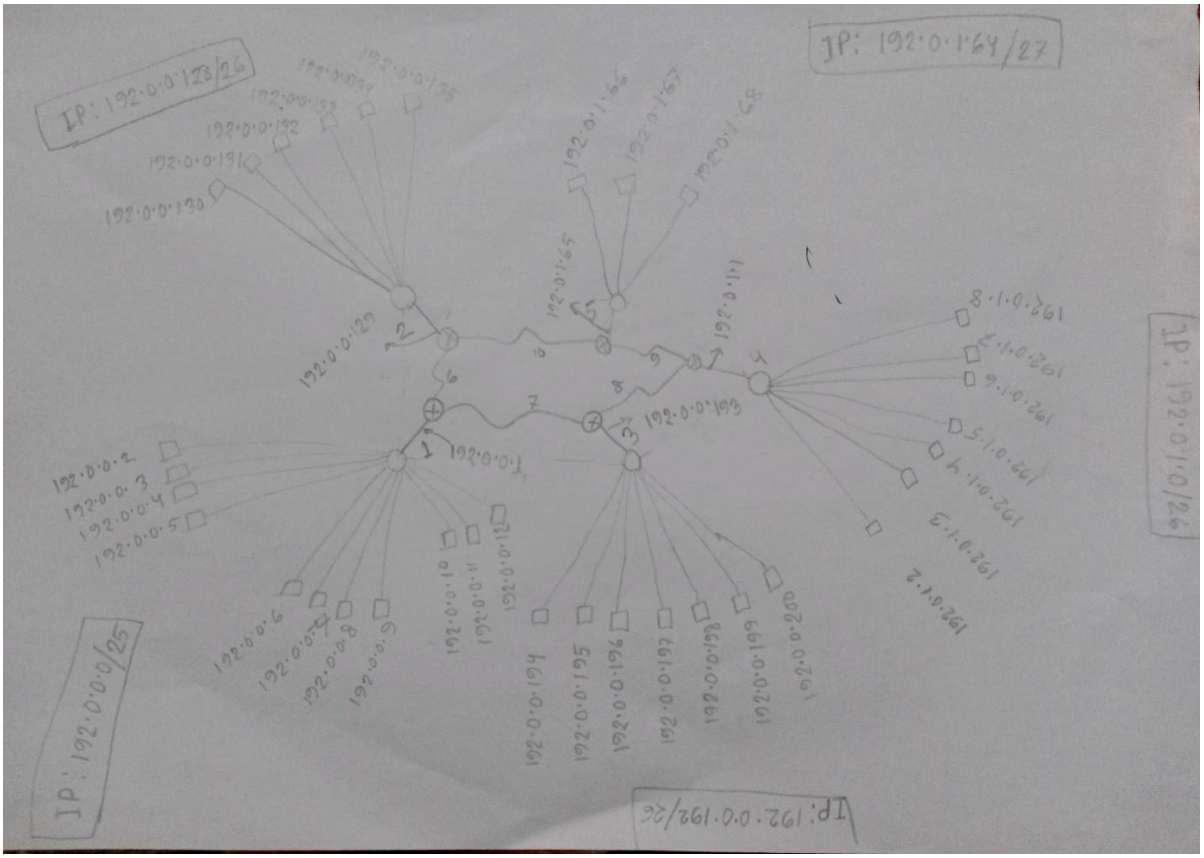
Bank Networking System

Here I am trying to build a bank network system and I hope it will be friendly user interface and easy to update .In this networking system are used by all banking user can use by shared their data very easily.

So that every user to take about network structure & security of banking system instantly anywhere .

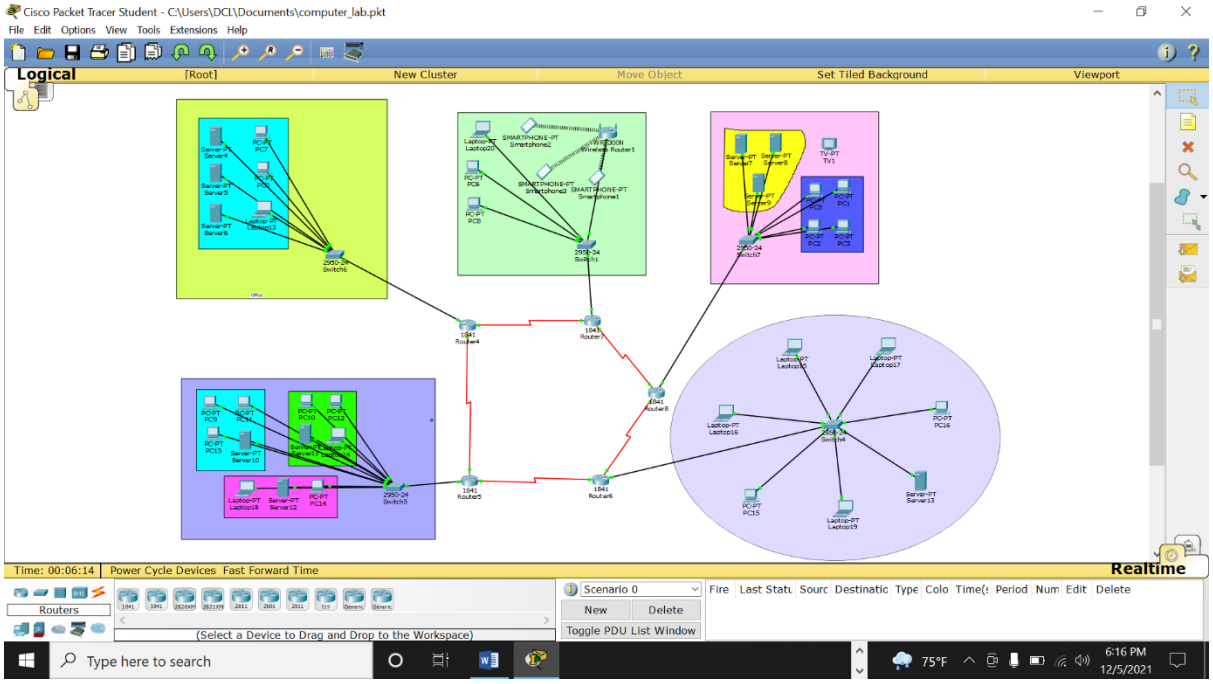
Contents:

Diagram (Hand drawing)



IP: 192.0.1.112/30
192.0.1.96/30
192.0.1.100/30
S0/0/0
192.0.1.114
192.0.1.113
192.0.1.110
192.0.1.109
192.0.1.106
192.0.1.105
192.0.1.102
192.0.1.101
192.0.1.98
192.0.1.97
6
7
8
9

Design (Cisco Packet Tracer Student)



Calculation & Simulation

IP: 192.0.0.0

1st Net (101):

h. bit = 7

n. bit = 25

IP: 192.0.0.0/25

Mask: 255.255.255.128

Net : 192 . 0 . 0 . 0

1st IP : 192 . 0 . 0 . 1

Last IP : 192 . 0 . 0 . 126

Broad cast : 192 . 0 . 0 . 127

Here,
m = 256 − 128
= 128
h = 0
b = 127

2nd Net (51):

h. bit = 6

n. bit = 26

IP: 192.0.0.128/26

Mask : 255.255.255.192

Net : 192 . 0 . 0 . 128

1st IP : 192 . 0 . 0 . 129

Last IP : 192 . 0 . 0 . 190

Broad cast : 192 . 0 . 0 . 191

Here,
m = 256 − 192
= 64
h = 128
b = 191

3rd net (36): h.bit = 6
n.bit = 26

IP: 192.0.0.192/26
Mask: 255.255.255.192
Net : 192.0.0.192
1st IP : 192.0.0.193
Last IP : 192.0.0.254
Broad cast : 192.0.0.255

Here,
m = 256 − 192
= 64
h = 192
b = 255

4th net (31): h.bit = 6
n.bit = 26

IP : 192.010/26
Mask : 255.255.255.192
Net : 192.0.●1.0
1st IP : 192.0.1.1
Last IP : 192.0.1.62
Broad cast : 192.0.1.63

Here,
m = ~~256~~ - ●192
= ~~256~~ 64
h = ●0
b = ~~255~~ 63

5th net (21): h.bit = 5
n.bit = 27

IP : 192.0.1.64/27
Mask : 255.255.255.224
Net : 192.0.1.64
1st IP : 192.0.1.65
2nd IP : 192.0.1.94
Broad cast : 192.0.1.95

m = 256 - 224
= 32
h = 64
b = 95

6th net (2): h.bit = 2
n.bit = 30

IP : 192.0.1.96/30
Mask : 255.255.255.252
1st IP : 192.0.1.97
Last IP : 192.0.1.98
Broad Cast : 192.0.1.99
Net : 192.0.1.96

m = 256-252
= 4
h = 96
b = 99

7th net (2): h.bit = 2
n.bit = 30

IP : 192.0.1.100/30
Mask : 255.255.255.252
Net : 192.0.1.100
1st IP : 192.0.1.101
Last IP : 192.0.1.102
Broad cast : 192.0.1.103

m = 256-252
= 4
h = 100
b = 103

8th Net (2): h.bit = 2
n.bit = 30

IP: 192.0.1.104/30
Mask: 255.255.255.252
Net: 192.0.1.104
1st IP: 192.0.1.105
Last IP: 192.0.1.106
Broadcast: 192.0.1.107

m = 4
h = 104
b = 107

9th net (2): h.bit = 2
n.bit = 30

IP: 192.0.1.108
Mask: 255.255.255.252
Net: 192.0.1.108
1st IP: 192.0.1.109
Last IP: 192.0.1.110
Broadcast: 192.0.1.111

m = 4
h = 108
b = 111

10th net (2): h.bit = 2
n.bit = 30

IP: 192.0.1.112
Mask: 255.255.255.252
Net: 192.0.1.112
1st IP: 192.0.1.113
Last IP: 192.0.1.114
Broadcast: 192.0.1.115

m = 4
h = 112
b = 115

Code

R0,R1,R2,R3,R4

```
Router>

Router>en

Router#conf t

Enter configuration commands, one per line.  End with CNTL/Z.

Router(config)#int f0/0

Router(config-if)#ip address 192.0.1.65 255.255.255.224

Router(config-if)#no sh

Router>

Router>

Router>en

Router#conf t

Enter configuration commands, one per line.  End with CNTL/Z.

Router(config)#int s0/0/0

Router(config-if)#ip address 192.0.1.105 255.255.255.252

Router(config-if)#no sh

Router>

Router>en

Router#conf t

Enter configuration commands, one per line.  End with CNTL/Z.

Router(config)#int f0/0

Router(config-if)#ip address 192.0.0.129 255.255.255.192

Router(config-if)#no sh


Router(config-if)#

%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
```

Router(config-if)#int s0/0/1

Router(config-if)#ip address 192.0.1.110 255.255.255.252

Router(config-if)#int s0/0/0

Router(config-if)#ip address 192.0.1.113 255.255.255.252

Router(config-if)#no sh

Router(config)#int s0/0/1

Router(config-if)# ip address 192.0.1.110 255.255.255.252

Router(config-if)#no sh

Protocol

Router>

Router>en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#

Router(config)#

Router(config)#

Router(config)#

Router(config)#

Router(config)#ip route 192.0.1.0 255.255.255.192 192.0.1.102

Router(config)#do wr

Building configuration...

[OK]

Router(config)#

Router#

%SYS-5-CONFIG_I: Configured from console by console

Router#

Router(config)#

Router(config)#

Router(config)#

Router(config)#ip route 192.0.0.192 255.255.255.192 192.0.1.101

Router(config)#do wr

Building configuration...

[OK]

Router#

Router#

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#ip route 192.0.0.0 255.255.255.128 192.0.1.97

Router(config)#do wr

Building configuration...

[OK]

Router(config)#

Router>

Router>en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#ip route 192.0.1.0 255.255.255.192 192.0.1.102

Router(config)#do wr

Building configuration...

[OK]

```
Router(config)#

 Router(config)#

Router(config)#ip route 192.0.1.100 255.255.255.252 192.0.1.98

Router(config)#do wr

Building configuration...

[OK]

Router(config)#

Router>

Router>en

Router#conf t

Enter configuration commands, one per line.  End with CNTL/Z.

Router(config)#ip route 192.0.1.96 255.255.255.252 192.0.1.101

Router(config)#

Router(config)#do wr

Building configuration...

[OK]

Router(config)#


Router>

Router>

Router>

Router>en

Router#conf t

Enter configuration commands, one per line.  End with CNTL/Z.

Router(config)#ip route 192.0.1.64 255.255.255.224 192.0.1.106

Router(config)#ip route 192.0.0.128 255.255.255.192 192.0.1.113

Router(config)#ip route 192.0.1.104 192.0.1.102
```

% Incomplete command.

Router(config)#ip route 192.0.2.104 255.255.255.252 192.0.1.102

Router(config)#do wr

Building configuration...

[OK]

Router>

Router>

Router>en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#ip route 192.0.1.0 255.255.255.192 192.0.1.105

Router(config)#ip route 192.0.0.192 255.255.255.192 192.0.1.101

Router(config)#ip route 192.0.0.0 255.255.255.128 192.0.1.97

Router(config)#ip route 192.0.1.100 255.255.255.252 192.0.1.105

Router(config)#ip route 192.0.1.96 255.255.255.252 192.0.1.101

Router(config)#do wr

Building configuration...

[OK]

Router(config)#

Router>

Router>

Router>en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#ip route 192.0.1.64 255.255.255.224 192.0.1.106

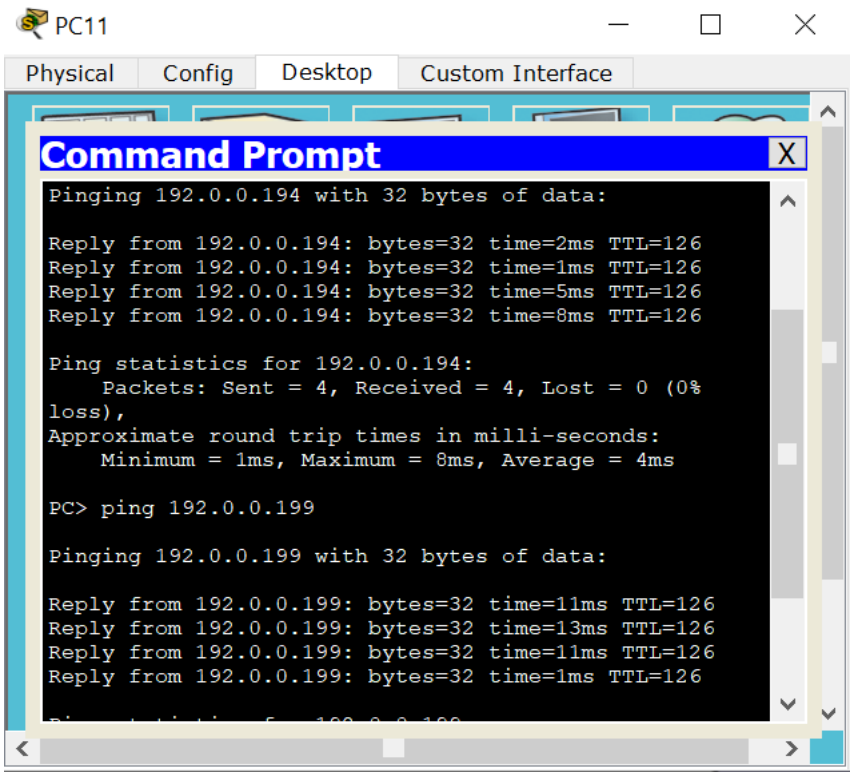
Router(config)#ip route 192.0.1.104 255.255.255.252 192.0.1.102

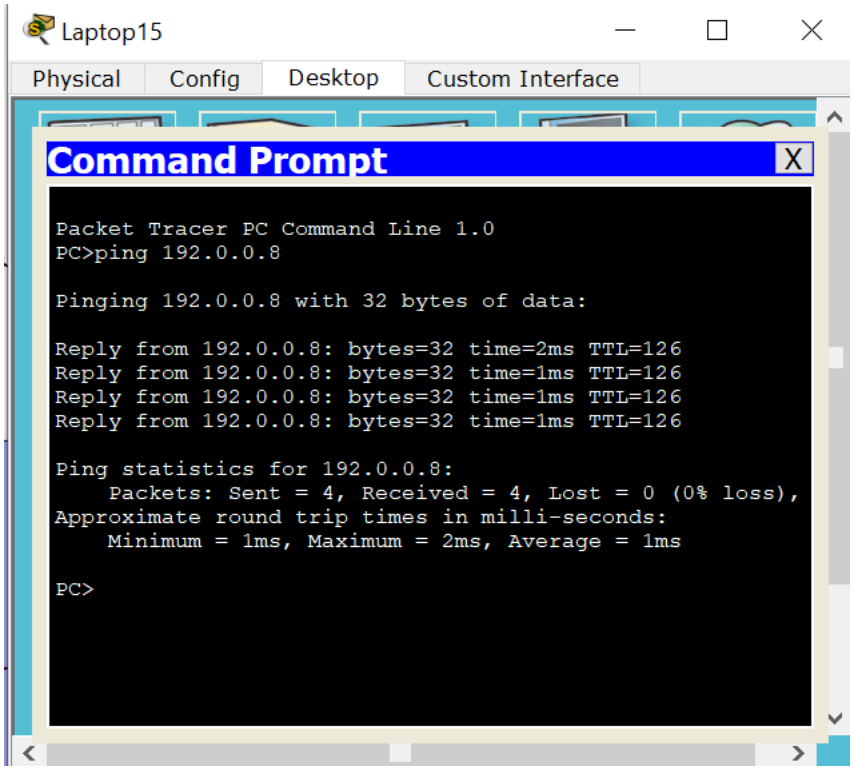
Router(config)#do wr

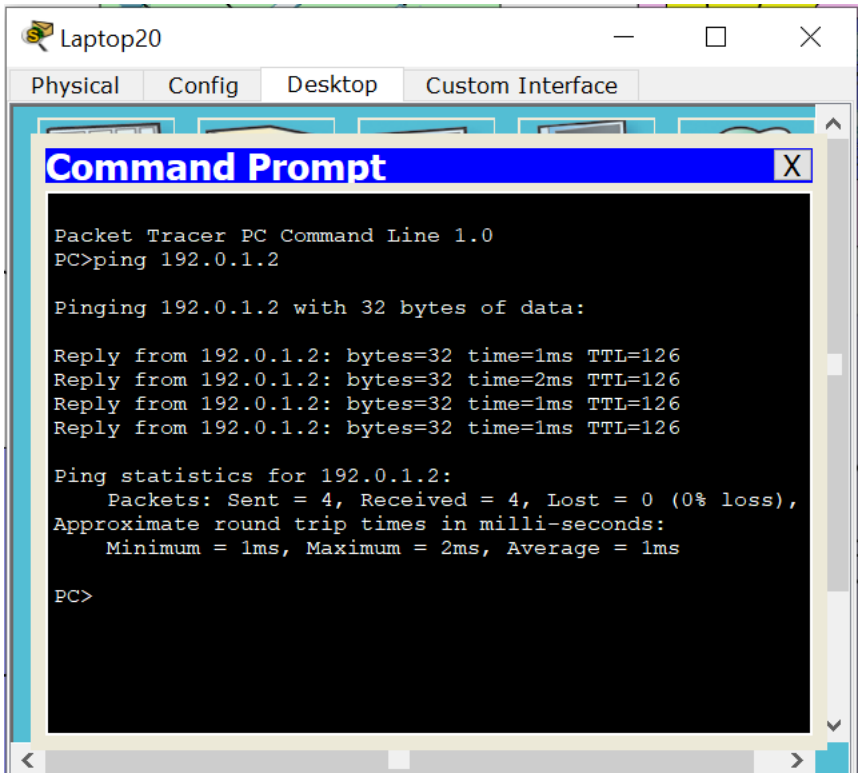
Building configuration...

[OK]

Result







References & Resource :

1.Google classroom of Arif Mahmud Sir

2.Class Record of BLC(12/10/21) ,Arif Mahmud sir