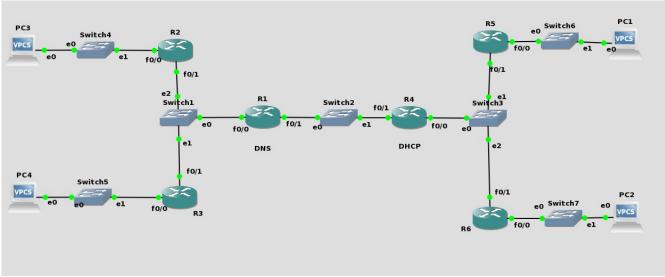
SEC: A CN LAB: 06 BATCH: A3

REG: 190905513 CSE 3113 NAME: MOHAMMAD DANISH EQBAL

//Topology



//Connectivity Setup

```
**In 1 00:00:07.17: WINEPROTO-5-UPDONE: Line protocol on Interface IPV6-mpls, changed state
**In 1 00:00:07.27: WINEPROTO-5-UPDONE: Line protocol on Interface IPV6-mpls, changed state
**In 1 00:00:07.37: WOYS-5-COMENGE: Coefigured from memory by console
**In 1 00:00:07.37: WOYS-5-COMENGE: Coefigured from memory by console
**In 1 00:00:07.37: WOYS-5-COMENGE: Coefigured from memory by console
**In 1 00:00:07.37: WOYS-5-COMENGE: Coefigured from memory by console
**In 1 00:00:07.47: WONES-COMENGE: Coefigured from memory by console
**In 1 00:00:07.47: WONES-COMENGE: Coefigured from memory by console
**In 1 00:00:07.47: WONES-COMENGE: Interface FastEthernetOf, changed state to down
**In 1 00:00:07.47: WONES-COMENGE: Interface FastEthernetOf, changed state to down
**In 1 00:00:07.47: WONES-COMENGE: Interface FastEthernetOf, changed state to down
**In 1 00:00:07.47: WONES-COMENGE: Interface FastEthernetOf, changed state to down
**In 1 00:00:00:08.77: WONES-COMENGE: Interface FastEthernetOf, changed state to down
**In 1 00:00:00:08.77: WONES-COMENGE: Interface FastEthernetOf, changed state to down
**In 1 00:00:00:08.77: WONES-COMENGE: Interface FastEthernetOf, changed state to down
**In 1 00:00:08.47: WONES-COMENGE: Interface FastEthernetOf, changed state to down
**In 1 00:00:08.47: WONES-COMENGE: Interface FastEthernetOf, changed state to down
**In 1 00:00:08.47: WONES-COMENGE: Interface FastEthernetOf, changed state to down
**In 1 00:00:08.47: WONES-COMENGE: Interface FastEthernetOf, changed state to down
**In 1 00:00:08.47: WONES-COMENGE: Interface FastEthernetOf, changed state to down
**In 1 00:00:08.47: WONES-COMENGE: Interface FastEthernetOf, changed state to down
**In 1 00:00:08.47: WONES-COMENGE: Interface FastEthernetOf, changed state to up
**In 1 00:00:08.47: WONES-COMENGE: Interface FastEthernetOf, changed state to up
**In 1 00:00:08.47: WONES-COMENGE: Interface FastEthernetOf, changed state to up
**In 1 00:00:08.47: WONES-COMENGE: Interface FastEthernetOf, changed state to up
**In 1 00:00:08.47: WONES-COMENG
```

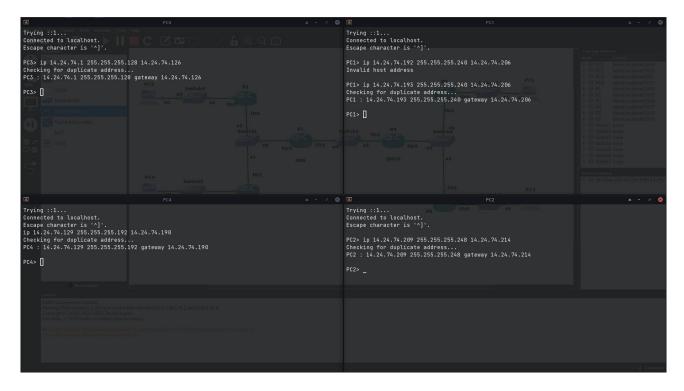
```
/ bytes transfered = 0
```

```
1 00:00:06.635: %LINEPROTO-5-UPDOWN: Line protocol on Interface IPv6-mpls, changed state *Mar 1 00:00:07.111: %LINEPROTO-5-UPDOWN: Line protocol on Interface IPv6-mpls, changed state
  Mar
vndr 1 90:00:06.867: %SYS-5-CONFIG_I: Configured from memory by console
∗Mar 1 00:00:07.227: %SYS-5-RESTART: System restarted -
Cisco IOS Software, 3700 Software (C3745-ADVIPSERVICESK9-H), Version 12.4(25d), RELEASE SUFTWA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        to up

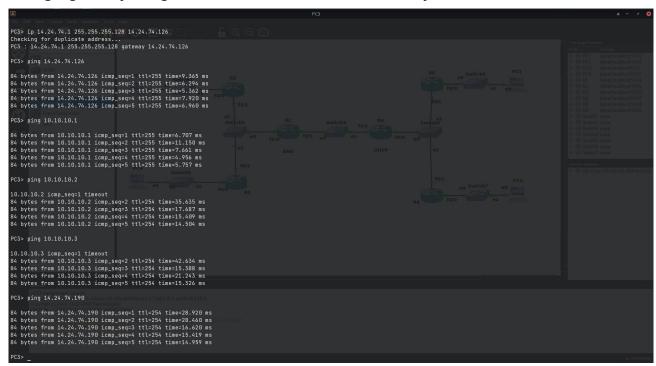
*Mar 1 00:00:07.41: %SYS-5-CONFIG_1: Configured from memory by console

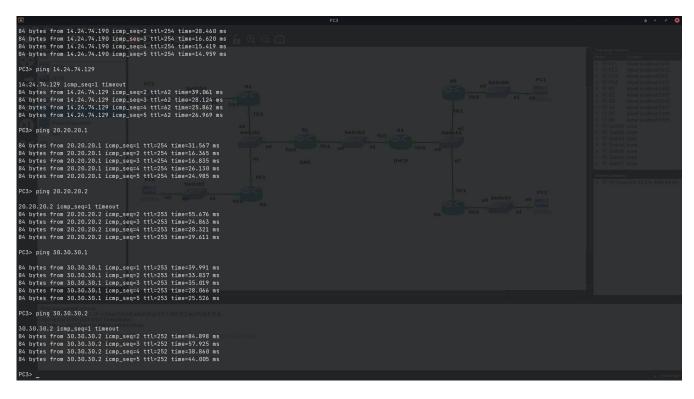
*Mar 1 00:00:07.467: %SYS-5-RESTART: System restarted --

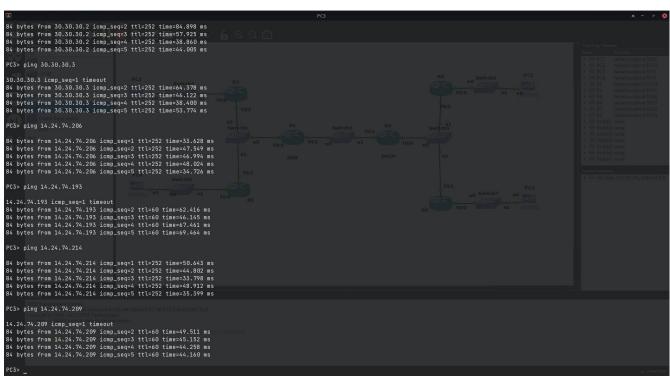
Cisco IOS Software, 3700 Software (C3745-ADVIPSERVICESK9-M), Version 12.4(25d), RELEASE SOFTMA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     *Mar 1 00:00:08.467: A67: XSVS-5-RESTART: System restarted --
Cisco 10S Software, 370S Software, 370S Software (270S Software), Version 12.4(25d), RELEASE SOFTWA
RE (fcl)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2010 by Cisco Systems, Inc.
Compiled Wed 18-Aug-10 89:18 by prod rel_team
*Mar 1 08:00:07.475: XSNMP-5-COLDSTART: SNMP agent on host R4 is undergoing a cold start
*Mar 1 00:00:07.593: %LINK-5-CHANGED: Interface FastEthernet0/0, changed state to administrat
ively down
*Mar 1 00:00:08.593: %LINK-5-CHANGED: Interface FastEthernet0/1, changed state to administrat
ively down
*Mar 1 00:00:08.593: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed
state to down
*Mar 1 00:00:08.595: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed
state to down
*R4dconft
Enter configuration commands, one per line. End with CNTL/Z.
R4(config)#int f0/0
R4(config-if)#aig addr 30.30.30.1 255.255.255.0
R4(config-if)#aig addr 30.30.30.30.1 255.255.255.0
R4(config-if)#aig addr 30.30.30.30.1 255.255.255.0
R4(config-if)#aig addr 30.30.30.30.30.30.30.30.30.30
*Mar 1 00:11:57.103: %LINK-3-UPDOWN: Interface FastEthernet0/0, changed state to up
*Mar 1 00:11:58.103: %LINK-3-UPDOWN: Line protocol on Interface FastEthernet0/0, changed
state to up
*Mar 1 00:11:58.103: %LINK-3-UPDOWN: Line protocol on Interface FastEthernet0/0, changed
state to up
Cisco IOS Software, 3700 Software (C3745-ADVIPSERVICESK9-N), Version 12.4(23d), RELEASE SUFTWA RE (Fc1)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2010 by Cisco Systems, Inc.
Compiled Wed 18.4ug-10 08:18 by prod_Pel_team
*Nar 1 00:00:07.239: %SNMP-5-COLDSTART: SNMP agent on host RI is undergoing a cold start
*Nar 1 00:00:07.263: %LINK-5-CHANGED: Interface FastEthernet0/0, changed state to administrat
ively down
*Nar 1 00:00:07.323: %LINK-5-CHANGED: Interface FastEthernet0/1, changed state to administrat
ively down
*Nar 1 00:00:07.323: %LINK-5-CHANGED: Interface FastEthernet0/1, changed state to administrat
    vely down
Mar 1 00:00:08.263: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed
state to down
Mar 1 00:00:08.323: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed
state to down
Marchant Commends one papiline Fad with CNTL/7
 kl#con't t
Enter configuration commands, one per line. End with CNTL/2.
Rl(config)#int f0/0
Rl(config-if)#in addn 10.10.10.3 255.255.255.0
Rl(config-if)#no shutdown
 Rl(config)#
*Mar | 109:10:07.851: %LINK-3-UPDOWN: Interface FastEthernet0/0, changed state to up
*Mar | 109:10:08.851: %LINEPROID-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       #Mar 1 00:11:38.103: %LineProto-3-orbann. Elle protocol and the protocol a
 state to up
R1(config)#int f0/1
R1(config-if)#ip addr 20.20.20.1 255.255.255.0
R1(config-if)#no shutdown
R1(config-if)#exit
Rt(Unnisg 1)/webs.
#Id(config)#
*Mar 1 00:10:25.879: %LINK-3-UPDOWN: Interface FastEthernet0/1, changed state to up
*Mar 1 00:10:26.879: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       #Mar 1 00:12:16.695: %LINEPROTO-5-UPDOWN: Line protocol on state to up R4(config)#ip route 14.24.74.0 255.255.255.128 20.20.20.1 R4(config)#ip route 14.24.74.128 255.255.255.129 20.20.20.1 R4(config)#ip route 10.10.10.0 255.255.255.20.20.20.1 R4(config)#ip route 10.10.10.0 255.255.255.20.20.20.1 R4(config)#ip route 14.24.74.192 255.255.255.240 30.30.30.3 R4(config)#ip route 14.24.74.208 255.255.255.248 30.30.30.3 R4(config)#id wr Building configuration... [0K] R4(config)#i]
sullaing cont
[OK]
R1(config)#_
```



//Pinging Everything from PC3 to ensure connectivity



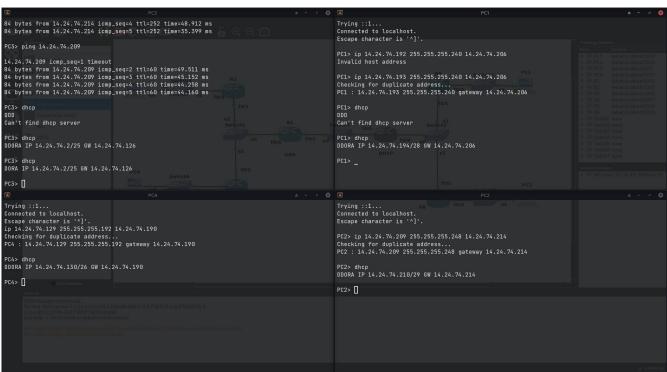




//DHCP Setup

```
R4(config)#ip dhcp pool Oslab
R4(dhcp-config)#network 14.24.74.0 255.255.255.128
R4(dhcp-config)#default-router 14.24.74.126
R4(dhcp-config)#exit
R4(config)#ip dhcp pool Cnlab
R4(dhcp-config)#network 14.24.74.128 255.255.255.192
R4(dhcp-config)#default-router 14.24.74.190
R4(dhcp-config)#exit
R4(config)#ip dhcp pool Cdlab
R4(dhcp-config)#network 14.24.74.192 255.255.2<u>55.240</u>
R4(dhcp-config)#default-router 14.24.74.206
R4(dhcp-config)#exit
R4(config)#ip dhcp pool Dslab
R4(dhcp-config)#network 14.24.74.208 255.255.255.248
R4(dhcp-config)#default-router 14.24.74.214
R4(dhcp-config)#exit
R4(config)#
*Mar 1 00:50:29.247: %DHCPD-4-PING_CONFLICT: DHCP address conflict: server pinged 14.24.74.1
R4(config)#
*Mar 1 00:52:14.991: %DHCPD-4-PING_CONFLICT: DHCP address conflict:
                                                                       server pinged 14.24.74.1
29.
R4(config)#
*Mar 1 00:52:24.851: %DHCPD-4-PING_CONFLICT: DHCP address conflict: server pinged 14.24.74.1
93.
*Mar 1 00:52:34.243: %DHCPD-4-PING_CONFLICT: DHCP address conflict: server pinged 14.24.74.2
09.
R4(config)#
```

//Getting new ips via DHCP



//Setting Up DNS server

```
R1(config)#ip dns server
R1(config)#ip host oslab.com 14.24.74.2
R1(config)#ip host cnlab.com 14.24.74.130
R1(config)#ip host cdlab.com 14.24.74.194
R1(config)#ip host dclab.com 14.24.74.210
R1(config)#_
```

//Pinging using DNS

