



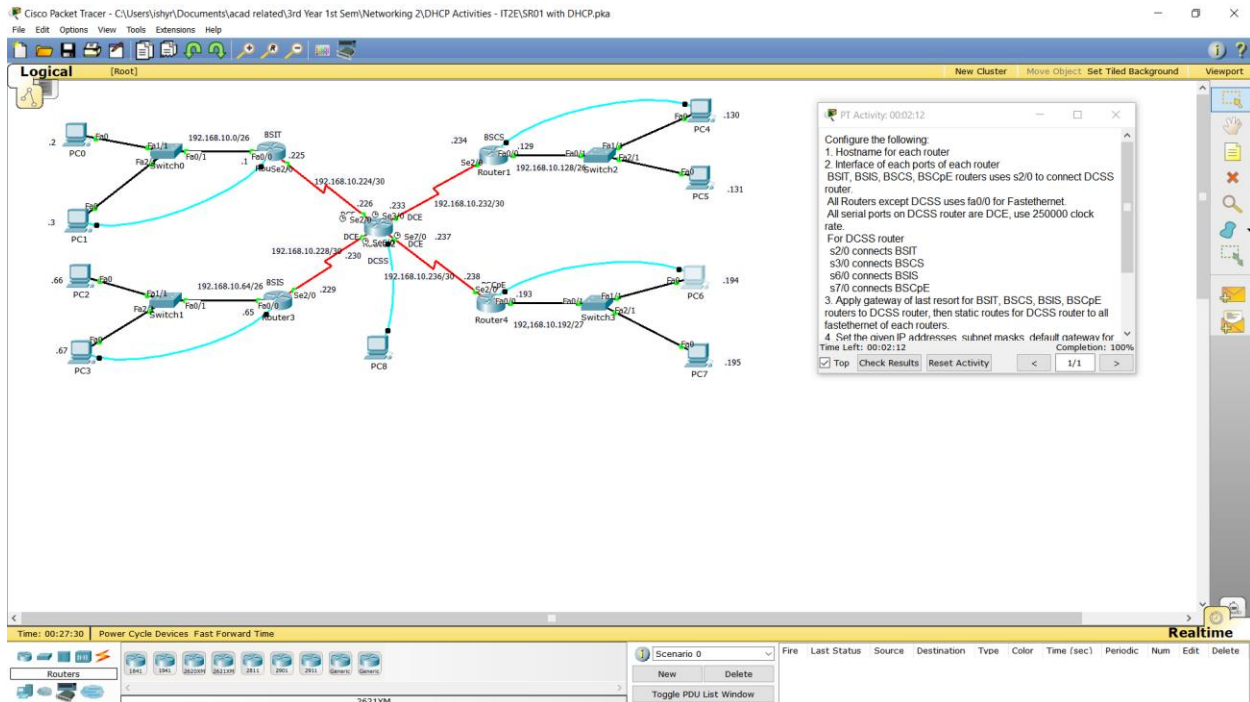
UNIVERSITY OF THE EAST
CALOOCAN CITY
College of Engineering
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DHCP Activities`
Packet Tracer Activities

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Subject and Section: CIT3101 – IT1E

Activity No.	Score
SR01	100%
SR02	100%

SR01:



PT Activity: 00:01:40

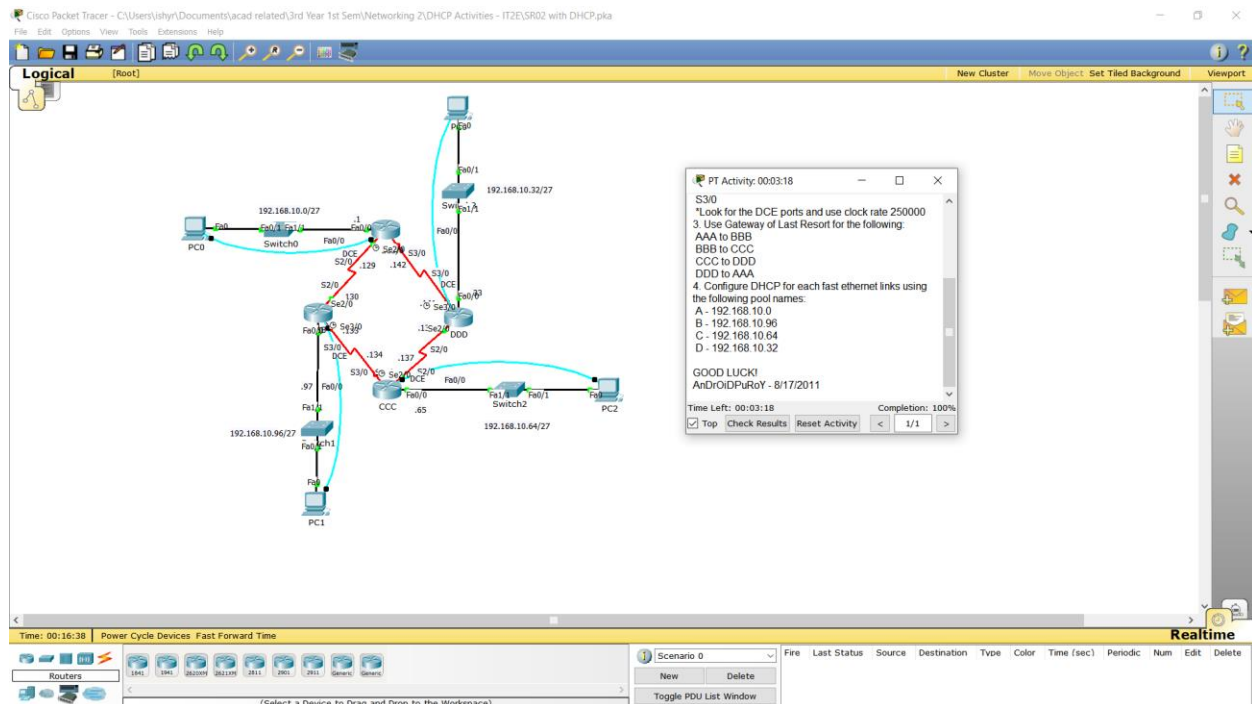
Configure the following:

1. Hostname for each router
2. Interface of each ports of each router
BSIT, BSIS, BSCS, BSCpE routers uses s2/0 to connect DCSS router.
All Routers except DCSS uses fa0/0 for Fastethernet.
All serial ports on DCSS router are DCE, use 250000 clock rate.
3. Apply gateway of last resort for BSIT, BSCS, BSIS, BSCpE routers to DCSS router, then static routes for DCSS router to all fastethernet of each routers.
4. Set the given IP addresses, subnet masks, default gateway for

Time Left: 00:01:40 Completion: 100%

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SR02



PT Activity: 00:03:01

S3/0

- *Look for the DCE ports and use clock rate 250000
- 3. Use Gateway of Last Resort for the following:
 - AAA to BBB
 - BBB to CCC
 - CCC to DDD
 - DDD to AAA
- 4. Configure DHCP for each fast ethernet links using the following pool names:
 - A - 192.168.10.0
 - B - 192.168.10.96
 - C - 192.168.10.64
 - D - 192.168.10.32

GOOD LUCK!
AnDrOiDPuRoY - 8/17/2011

Time Left: 00:03:01 Completion: 100%

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SR01

DCSS

Router>ena

Router#conf t

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

Router(config)#h DCSS

DCSS(config)#int s6/0

DCSS(config-if)#cl r 250000

DCSS(config-if)#exit

DCSS(config)#int s7/0

DCSS(config-if)#cl r 250000

DCSS(config-if)#exit

DCSS(config)#int s2/0

DCSS(config-if)#cl r 250000

DCSS(config-if)#exit

DCSS(config)#int s3/0

DCSS(config-if)#cl r 250000

DCSS(config-if)#

DCSS con0 is now available

Press RETURN to get started.

DCSS>ENA

DCSS#conf t

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

DCSS(config)#int s6/0

DCSS(config-if)#ip add 192.168.10.230
255.255.255.252

DCSS(config-if)#

DCSS(config-if)#exit

DCSS(config)#int s7/0

DCSS(config-if)#ip add 192.168.10.237
255.255.255.252

DCSS(config-if)#no sh

DCSS(config-if)#

%LINK-5-CHANGED: Interface Serial7/0, changed
state to up

DCSS(config-if)#exit

DCSS(config)#int s

%LINEPROTO-5-UPDOWN: Line protocol on
Interface Serial7/0, changed state to up

% Incomplete command.

DCSS(config)#int s6/0

DCSS(config-if)#no sh

DCSS(config-if)#

%LINK-5-CHANGED: Interface Serial6/0, changed
state to up

DCSS(config-if)#

%LINEPROTO-5-UPDOWN: Line protocol on
Interface Serial6/0, changed state to up

DCSS(config-if)#exit

DCSS(config)#int s2/0

DCSS(config-if)#ip add 192.168.10.226
255.255.255.252

DCSS(config-if)#no sh

DCSS(config-if)#

%LINK-5-CHANGED: Interface Serial2/0, changed
state to up

%LINEPROTO-5-UPDOWN: Line protocol on
Interface Serial2/0, changed state to up

DCSS(config-if)#exit

DCSS(config)#int s3/0

DCSS(config-if)#ip add 192.168.10.233
255.255.255.252

DCSS(config-if)#no sh

DCSS(config-if)#

%LINK-5-CHANGED: Interface Serial3/0, changed
state to up

%LINEPROTO-5-UPDOWN: Line protocol on
Interface Serial3/0, changed state to up

```
DCSS(config)#ip route 192.168.10.0 255.255.255.192
192.168.10.225
DCSS(config)#ip route 192.168.10.64
255.255.255.192 192.168.10.229
DCSS(config)#ip route 192.168.10.128
255.255.255.192 192.168.10.234
DCSS(config)#ip route 192.168.10.192
255.255.255.224 192.168.10.238
```

BSIT

```
Router>ena
Router#conf t
Enter configuration commands, one per line. End with
CNTL/Z.
Router(config)#hostname BSIT
BSIT(config)#int f0/0
BSIT(config-if)#ip add 192.168.10.1 255.255.255.192
BSIT(config-if)#no sh
```

```
BSIT(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0,
changed state to up
```

```
%LINEPROTO-5-UPDOWN: Line protocol on
Interface FastEthernet0/0, changed state to up
```

```
BSIT(config-if)#exit
BSIT(config)#int s2/0
BSIT(config-if)#ip add 192.168.10.225
255.255.255.252
BSIT(config-if)#no sh
```

```
%LINK-5-CHANGED: Interface Serial2/0, changed
state to down
BSIT(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed
state to up
```

```
%LINEPROTO-5-UPDOWN: Line protocol on
Interface Serial2/0, changed state to up
```

```
BSIT(config-if)#exit
BSIT(config)#ip route 0.0.0.0 0.0.0.0 192.168.10.226
```

BSIS

```
Router>ena
Router#conf t
Enter configuration commands, one per line. End with
CNTL/Z.
Router(config)#h BSIS
BSIS(config)#int f0/0
BSIS(config-if)#ip add 192.168.10.65 255.255.255.192
BSIS(config-if)#no sh
```

```
BSIS(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0,
changed state to up
```

```
%LINEPROTO-5-UPDOWN: Line protocol on
Interface FastEthernet0/0, changed state to up
```

```
BSIS(config-if)#exit
BSIS(config)#int s2/0
BSIS(config-if)#ip add 192.168.10.229
255.255.255.252
BSIS(config-if)#no sh
```

```
%LINK-5-CHANGED: Interface Serial2/0, changed
state to down
BSIS(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed
state to up
```

```
%LINEPROTO-5-UPDOWN: Line protocol on
Interface Serial2/0, changed state to up
```

```
BSIS>ena
BSIS#conf t
Enter configuration commands, one per line. End with
CNTL/Z.
BSIS(config)#ip route 0.0.0.0 0.0.0.0 192.168.10.230
```

BSCS

```
Router>ena
Router#conf t
Enter configuration commands, one per line. End with
CNTL/Z.
Router(config)#hostname BSCS
BSCS(config)#ip add 192.168.10.129
255.255.255.192
^
```

```
% Invalid input detected at '^' marker.
```

```
BSCS(config)#no sh
^
```

```
% Invalid input detected at '^' marker.
```

```
BSCS(config)#int f0/0
BSCS(config-if)#ip add 192.168.10.129
255.255.255.192
BSCS(config-if)#no sh
```

```
BSCS(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0,
changed state to up
```

```
%LINEPROTO-5-UPDOWN: Line protocol on
Interface FastEthernet0/0, changed state to up
```

```
BSCS(config-if)#exit
BSCS(config)#int s2/0
BSCS(config-if)#ip add 192.168.10.234
255.255.255.252
BSCS(config-if)#no sh
```

%LINK-5-CHANGED: Interface Serial2/0, changed state to down

```
BSCS(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
```

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up

```
BSCS>ena
BSCS#conf t
Enter configuration commands, one per line. End with
CNTL/Z.
BSCS(config)#ip route 0.0.0.0 0.0.0.0 192.168.10.233
```

BSCpE

```
Router>ena
Router#conf t
Enter configuration commands, one per line. End with
CNTL/Z.
Router(config)#hostname BSCpE
BSCpE(config)#int f0/0
BSCpE(config-if)#ip add 192.168.10.193
255.255.255.224
BSCpE(config-if)#no sh
```

```
BSCpE(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0,
changed state to up
```

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

```
BSCpE(config-if)#exit
BSCpE(config)#int s2/0
BSCpE(config-if)#ip add 192.168.10.238
255.255.255.252
BSCpE(config-if)#no sh
```

%LINK-5-CHANGED: Interface Serial2/0, changed state to down

```
BSCpE(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
```

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up

```
BSCpE>ena
BSCpE#conf t
Enter configuration commands, one per line. End with
CNTL/Z.
```

BSCpE(config)

SR02

AAA

```
Router>ena
Router#conf t
Enter configuration commands, one per line. End with
CNTL/Z.
```

```
Router(config)#hostname AAA
AAA(config)#int f0/0
AAA(config-if)#exit
AAA(config)#int s2/0
AAA(config-if)#cl r 250000
AAA(config-if)#ip add 192.168.10.129
255.255.255.252
AAA(config-if)#no sh
```

%LINK-5-CHANGED: Interface Serial2/0, changed state to down

```
AAA(config-if)#exit
AAA(config)#int f0/0
AAA(config-if)#ip add 192.168.10.1 255.255.255.224
AAA(config-if)#no sh
```

```
AAA(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0,
changed state to up
```

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

```
AAA(config-if)#exit
AAA(config)#int s3/0
AAA(config-if)#ip add 192.168.10.142
255.255.255.252
AAA(config-if)#no sh
```

%LINK-5-CHANGED: Interface Serial3/0, changed state to down

```
AAA(config-if)#ex
AAA(config)#ip route 0.0.0.0 0.0.0.0 192.168.10.130
AAA(config)#ip dhcp pool A
AAA(dhcp-config)#exit
AAA(config)#do show ip ro
Codes: C - connected, S - static, I - IGRP, R - RIP, M -
mobile, B - BGP
```

D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
* - candidate default, U - per-user static route, o - ODR
P - periodic downloaded static route

Gateway of last resort is not set

192.168.10.0/27 is subnetted, 1 subnets
C 192.168.10.0 is directly connected,
FastEthernet0/0
AAA(config)#

BBB

Router>ena
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#hostname BBB
BBB(config)#int f0/0
BBB(config-if)#ip add 192.168.10.97 255.255.255.224
BBB(config-if)#no sh

BBB(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

BBB(config-if)#exit
BBB(config)#int s3/0
BBB(config-if)#cl r 250000
BBB(config-if)#ip add 192.168.10.133 255.255.255.252
BBB(config-if)#no sh

%LINK-5-CHANGED: Interface Serial3/0, changed state to down

BBB(config-if)#exit
BBB(config)#int s2/0
BBB(config-if)#ip add 192.168.10.130 255.255.255.252
BBB(config-if)#no sh

BBB(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up
exit
BBB(config)#ip dhcp pool B
BBB(dhcp-config)#def 192.168.10.97
BBB(dhcp-config)#net 192.168.10.96 255.255.255.224
BBB(dhcp-config)#exit
BBB(config)#ip route 0.0.0.0 0.0.0.0 92.168.10.134
BBB(config)#ip route 0.0.0.0 0.0.0.0 192.168.10.134
BBB(config)#do show ip ro
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP

D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
* - candidate default, U - per-user static route, o - ODR
P - periodic downloaded static route

Gateway of last resort is not set

192.168.10.0/24 is variably subnetted, 2 subnets, 2 masks
C 192.168.10.96/27 is directly connected,
FastEthernet0/0
C 192.168.10.128/30 is directly connected,
Serial2/0
BBB(config)#

CCC

Router>ena
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#hostname CCC
CCC(config)#ip add
^

% Invalid input detected at '^' marker.

CCC(config)#int f0/0
CCC(config-if)#ip add 192.168.10.65 255.255.255.224
CCC(config-if)#no sh

CCC(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

```
CCC(config-if)#exit
CCC(config)#int s2/0
CCC(config-if)#ip add 192.168.10.137
255.255.255.252
CCC(config-if)#no sh
```

%LINK-5-CHANGED: Interface Serial2/0, changed state to down

```
CCC(config-if)#exit
CCC(config)#int s3/0
CCC(config-if)#cl r 250000
```

This command applies only to DCE interfaces

```
CCC(config-if)#exit
CCC(config)#int s2/0
CCC(config-if)#cl r 250000
CCC(config-if)#exit
CCC(config)#int s3/0
CCC(config-if)#ip add 192.168.10.134
255.255.255.252
CCC(config-if)#no sh
```

```
CCC(config-if)#
%LINK-5-CHANGED: Interface Serial3/0, changed state to up
```

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up

```
CCC(config-if)#exit
CCC(config)#ip route 0.0.0.0 0.0.0.0 192.168.10.138
CCC(config)#ip dhcp pool C
CCC(dhcp-config)#def 192.168.10.65
CCC(dhcp-config)#net 192.168.10.64
% Incomplete command.
CCC(dhcp-config)#net 192.168.10.64
255.255.255.224
CCC(dhcp-config)#exit
CCC(config)#do show ip ro
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route
```

Gateway of last resort is not set

192.168.10.0/24 is variably subnetted, 2 subnets, 2 masks

C 192.168.10.64/27 is directly connected, FastEthernet0/0

C 192.168.10.132/30 is directly connected, Serial3/0

```
CCC(config)#
```

DDD

```
Router>ena
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname DDD
DDD(config)#int f0/0
DDD(config-if)#ip add 192.168.10.33 255.255.255.224
DDD(config-if)#no sh
```

```
DDD(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
```

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

```
DDD(config-if)#exit
DDD(config)#int s3/0
DDD(config-if)#cl r 250000
DDD(config-if)#ip add 192.168.10.141
255.255.255.252
DDD(config-if)#no sh
```

```
DDD(config-if)#
%LINK-5-CHANGED: Interface Serial3/0, changed state to up
exit
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up
```

```
DDD(config)#int s2/0
DDD(config-if)#ip add 192.168.10.138
255.255.255.252
DDD(config-if)#no sh
```

```
DDD(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
```

```
DDD(config-if)#exit
DDD(config)#ip route 0.0.0
DDD(config)#ip route 0.0.0.0 0.0.0.0 192.168.10.142
DDD(config)#ip dhcp pool D
```



```
DDD(dhcp-config)#def 192.168.10.33
DDD(dhcp-config)#net 192.168.10.32
255.255.255.224
DDD(dhcp-config)#ex
DDD(config)#do show ip ro
Codes: C - connected, S - static, I - IGRP, R - RIP, M -
mobile, B - BGP
      D - EIGRP, EX - EIGRP external, O - OSPF, IA -
OSPF inter area
      N1 - OSPF NSSA external type 1, N2 - OSPF
NSSA external type 2
      E1 - OSPF external type 1, E2 - OSPF external
type 2, E - EGP
      i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia -
IS-IS inter area
      * - candidate default, U - per-user static route, o -
ODR
      P - periodic downloaded static route
```

Gateway of last resort is 192.168.10.142 to network
0.0.0.0

192.168.10.0/24 is variably subnetted, 3 subnets, 2
masks

```
C    192.168.10.32/27 is directly connected,
FastEthernet0/0
C    192.168.10.136/30 is directly connected,
Serial2/0
C    192.168.10.140/30 is directly connected,
Serial3/0
S*   0.0.0.0/0 [1/0] via 192.168.10.142
DDD(config)#
```