# IEG3821 N1:Introduction of Router Emulator and Fundamentals of IOS Laboratory Report

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## Task 1: Construct the Network file of Dynagen

According to the network sructure diagram, the modified labl.net is shown following.

```
# IEG3821 - Lab1
# GUAN Hao, hguan5@ie.cuhk.edu.hk
autostart = false
ghostios = true
ghostsize = 128
mmap = true
sparsemem = true
[127.0.0.1]
workingdir = c:\temp\mydir\ieg3821\lab1
[[ETHSW SW]]
1 = access 177
2 = access 77
3 = access 77
4 = access 77
5 = access 77
7 = access 77
8 = access 177
17 = access 177
[[FRSW FR]]
2:216 = 16:612
3:316 = 16:613
4:406 = 6:604
5:516 = 16:615
[[3660]]
idlepc = 0x60529294
image = c:\temp\MyDir\IEG3821\images\c3660-jk9o3s-mz.124-12.image
```

ram = 128

#### R1 #### [[ROUTER R1]] console = 2001 model = 3660 F0/0 = SW 1

#### R2 ####
[[ROUTER R2]]
console = 2002
model = 3660
F0/0 = SW 2
S1/0 = FR 2

#### R3 ####
[[ROUTER R3]]
console = 2003
model = 3660
F0/0 = SW 3
S1/0 = FR 3

#### R4 #### [[ROUTER R4]] console = 2004 model = 3660 F0/0 = SW 4

S1/0 = FR 4

#### R5 ####
[[ROUTER R5]]
console = 2005
model = 3660
F0/0 = SW 5
S1/0 = FR 5

#### R6 ####
[[ROUTER R6]]
console = 2006
model = 3660
S1/0 = FR 6
S1/1 = FR 16

#### R7 ####
[[ROUTER R7]]
console = 2007
model = 3660
F0/0 = SW 7
F1/0 = SW 17

```
#### R8 ####
[[ROUTER R8]]
console = 2008
model = 3660
F0/0 = SW 8
```

# **Task 2: Basic Network Configurations**

## a) hostname and domain name

## • R1

```
hostname R1 ip domain name ie.cuhk.edu.hk
```

#### • **R2**

```
hostname R2 ip domain name ie.cuhk.edu.hk
```

## • R3

```
hostname R3 ip domain name ie.cuhk.edu.hk
```

## • R4

```
hostname R4 ip domain name ie.cuhk.edu.hk
```

## • R5

```
hostname R5 ip domain name ie.cuhk.edu.hk
```

## • R6

```
hostname R6 ip domain name ie.cuhk.edu.hk
```

## • **R**7

```
hostname R7 ip domain name ie.cuhk.edu.hk
```

## • R8

```
hostname R8 ip domain name ie.cuhk.edu.hk
```

## b) Username / Password for remote login

• R1..R8

```
username hello password world line vty 0 4 login local
```

## c) IP Address on LAN interface R1, R7 and R8

• R1

```
int f0/0
  ip addr 177.51.7.1 255.255.255.240
  no shut
!
```

## • R7

```
int f0/0
  ip addr 77.51.7.7 255.255.255.0
  no shut
!
int f1/0
  ip addr 177.51.7.7 255.255.255.240
  no shut
!
```

#### • R8

```
int f0/0
  ip addr 177.51.7.8 255.255.255.240
  no shut
'
```

## • Capture

```
R1#sh ip route
Gateway of last resort is not set

177.51.0.0/28 is subnetted, 1 subnets
C 177.51.7.0 is directly connected, FastEthernet0/0

R7#sh ip route
Gateway of last resort is not set

77.0.0.0/24 is subnetted, 1 subnets
C 77.51.7.0 is directly connected, FastEthernet0/0
177.51.0.0/28 is subnetted, 1 subnets
C 177.51.7.0 is directly connected, FastEthernet1/0

R8#sh ip route
```

```
Gateway of last resort is not set

177.51.0.0/28 is subnetted, 1 subnets

C 177.51.7.0 is directly connected, FastEthernet0/0
```

## d) IP Address on loopback interfaces

• R1

```
int lo0
  ip addr 150.51.1.1 255.255.255.0
!
```

• R8

```
int lo0
  ip addr 150.51.8.8 255.255.255.0
```

## • Capture

```
R1#sh ip route
Gateway of last resort is not set

177.51.0.0/28 is subnetted, 1 subnets
C 177.51.7.0 is directly connected, FastEthernet0/0
150.51.0.0/24 is subnetted, 1 subnets
C 150.51.1.0 is directly connected, Loopback0

R8#sh ip route
Gateway of last resort is not set

177.51.0.0/28 is subnetted, 1 subnets
C 177.51.7.0 is directly connected, FastEthernet0/0
150.51.0.0/24 is subnetted, 1 subnets
C 150.51.8.0 is directly connected, Loopback0
```

The default link status of the loopback interface is *up*.

## e) Default route and Static route

• R1

```
ip route 77.51.7.0 255.255.255.0 177.51.7.7
```

• R7

```
ip route 0.0.0.0 0.0.0.0 177.51.7.0
```

· R8

```
ip route 77.51.7.0 255.255.255.0 177.51.7.7
```

## Capture

```
R1#sh ip route
 Gateway of last resort is not set
 77.0.0.0/24 is subnetted, 1 subnets
         77.51.7.0 [1/0] via 177.51.7.7
 177.51.0.0/28 is subnetted, 1 subnets
         177.51.7.0 is directly connected, FastEthernet0/0
 150.51.0.0/24 is subnetted, 1 subnets
         150.51.1.0 is directly connected, Loopback0
 R7#sh ip route
 Gateway of last resort is 177.51.7.0 to network 0.0.0.0
 77.0.0.0/24 is subnetted, 1 subnets
         77.51.7.0 is directly connected, FastEthernet0/0
 177.51.0.0/28 is subnetted, 1 subnets
         177.51.7.0 is directly connected, FastEthernet1/0
    0.0.0.0/0 [1/0] via 177.51.7.0
 R8#sh ip route
 Gateway of last resort is not set
 77.0.0.0/24 is subnetted, 1 subnets
         77.51.7.0 [1/0] via 177.51.7.7
 177.51.0.0/28 is subnetted, 1 subnets
         177.51.7.0 is directly connected, FastEthernet0/0
 150.51.0.0/24 is subnetted, 1 subnets
         150.51.8.0 is directly connected, Loopback0
· Verify and capture
 R7#ping 150.51.1.1 source f0/0
 Type escape sequence to abort.
 Sending 5, 100-byte ICMP Echos to 150.51.1.1, timeout is 2 seconds:
 Packet sent with a source address of 77.51.7.7
 !!!!!
 Success rate is 100 percent (5/5), round-trip min/avg/max = 12/71/148
 R7#ping 150.51.8.8 source f0/0
 Type escape sequence to abort.
 Sending 5, 100-byte ICMP Echos to 150.51.8.8, timeout is 2 seconds:
 Packet sent with a source address of 77.51.7.7
 Success rate is 100 percent (5/5), round-trip min/avg/max = 32/80/144
```

## f) Configure Timezone, Date and Time, NTP Server address

## • R8

```
clock timezone HK 8
ntp master
```

#### Capture

```
R8#show clock
00:07:07.907 HK Sun Feb 10 2008
```

## · R1 and R7

```
clock timezone HK 8
ntp server 177.51.7.8
```

## · Verify and capture

```
R7#show clock
00:07:14.528 HK Sun Feb 10 2008
R1#show clock
00:07:29.473 HK Sun Feb 10 2008
```

## Task 3: Configuration of DNS Server at R8

## • R8

```
ip dns server
no ip domain lookup
ip domain name ie.cuhk.edu.hk
ip host R1.ie.cuhk.edu.hk 177.51.7.1
ip host R2.ie.cuhk.edu.hk 77.51.7.2
ip host R3.ie.cuhk.edu.hk 77.51.7.3
ip host R4.ie.cuhk.edu.hk 77.51.7.4
ip host R6-4.ie.cuhk.edu.hk 66.51.46.6
ip host R6-5.ie.cuhk.edu.hk 66.51.56.6
ip host R77.ie.cuhk.edu.hk 77.51.7.7
ip host R177.ie.cuhk.edu.hk 177.51.7.7
ip host R8.ie.cuhk.edu.hk 177.51.7.8
```

#### R1 and R7

```
ip name-server 177.51.7.8
```

## Verify and capture

```
R1#ping 77.51.7.7 source lo0

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 77.51.7.7, timeout is 2 seconds:
```

```
Packet sent with a source address of 150.51.1.1
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 16/74/136
ms
R1#ping R77 source lo0

Translating "R77"...domain server (177.51.7.8) [OK]

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 77.51.7.7, timeout is 2 seconds:
Packet sent with a source address of 150.51.1.1
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 16/100/144
ms
```

The difference between these two commands is that ping R77 need DNS server(R8) to resolve the domain name before ping packet is sent.

## Task 4: Configuration of DHCP Server and Client

## a) Manual IP mapping to DHCP client

• R7

```
service dhcp
ip dhcp pool R2
host 77.51.7.2 255.255.255.0
client-identifier 0100.0022.2222.22
 domain-name ie.cuhk.edu.hk
dns-server 177.51.7.8
default-router 77.51.7.7
lease infinite
ip dhcp pool R3
host 77.51.7.3 255.255.255.0
client-identifier 0100.0033.3333.33
domain-name ie.cuhk.edu.hk
dns-server 177.51.7.8
default-router 77.51.7.7
lease infinite
ip dhcp pool R4
host 77.51.7.4 255.255.255.0
client-identifier 0100.0044.4444.44
 domain-name ie.cuhk.edu.hk
dns-server 177.51.7.8
default-router 77.51.7.7
lease infinite
ip dhcp excluded-address 77.51.7.2 77.51.7.4
```

## • R2, R3 and R4

```
int f0/0
  ip addr dhcp client-id f0/0
  no shut
```

## b) Dynamic IP mapping to DHCP client

• R7

```
ip dhcp pool R5
network 77.51.7.0 255.255.255.0
default-router 77.51.7.7
dns-server 177.51.7.8
lease infinite
!
```

#### • R5

```
int f0/0
  ip address dhcp
  no shut
!
```

## c) DHCP binding at DHCP Server

The table of DHCP binding at the DHCP server(R7).

```
R7#show ip dhcp binding
Bindings from all pools not associated with VRF:
IP address
                   Client-ID/ Lease expiration
                                                                    Type
                   Hardware address/
                   User name
77.51.7.1
                   0063.6973.636f.2d30.
                                           Infinite
                                                                    Automatic
                   3030.302e.3535.3535.
                   2e35.3535.352d.4661.
                   302f.30
                   0100.0022.2222.22 Infinite 0100.0033.3333.33 Infinite
77.51.7.2
                                                                    Manual
77.51.7.3
                                                                    Manual
77.51.7.4
                   0100.0044.4444.44
                                           Infinite
                                                                    Manual
```

At R5, the IP address obtained by DHCP is 77.51.7.1. At the DHCP server(R7), the Client-ID of the IP address released to R5 is 0063.6973.636f.2d30.3030.302e.3535.3535.2e35.3535.352d.4661.302f.30. Decoding the Client-ID from ASCII code into TEXT, it is cisco-0000.5555.5555-Fa0/0.

# Task 5: Configuration of Frame Relay on Serial Interface

## a) Configuration of Frame Relay on main serial interface

• R4

```
int s1/0
  ip addr 66.51.46.4 255.255.255.248
  encapsulation frame-relay
  frame-relay map ip 66.51.46.6 406
  no frame-relay inverse-arp
  no shut
 1
· R6
 int s1/0
  ip addr 66.51.46.6 255.255.255.248
  encapsulation frame-relay
  frame-relay map ip 66.51.46.4 604
  no frame-relay inverse-arp
  no shut
• Capture
 R6#show ip route
 Gateway of last resort is not set
 66.0.0.0/29 is subnetted, 1 subnets
         66.51.46.0 is directly connected, Serial1/0
 R6#show frame-relay map
 Serial1/0 (up): ip 66.51.46.4 dlci 604(0x25C,0x94C0), static,
                 CISCO, status defined, active
 R4#show ip route
 Gateway of last resort is 77.51.7.7 to network 0.0.0.0
 66.0.0.0/29 is subnetted, 1 subnets
         66.51.46.0 is directly connected, Serial1/0
 77.0.0.0/24 is subnetted, 1 subnets
         77.51.7.0 is directly connected, FastEthernet0/0
      0.0.0.0/0 [254/0] via 77.51.7.7
```

# b) Configuration of Frame Relay using point-to-point sub-interface of serial interface

Serial1/0 (up): ip 66.51.46.6 dlci 406(0x196,0x6460), static, CISCO, status defined, active

#### • R5

```
int s1/0
  encapsulation frame-relay
  no frame-relay inverse-arp
  no shut
```

R4#show frame-relay map

```
int s1/0.51 point-to-point
  ip address 66.51.56.5 255.255.255.252
  frame-relay interface-dlci 516
• R6
 int s1/1
  encapsulation frame-relay
  no frame-relay inverse-arp
  no shut
 int s1/1.51 point-to-point
  ip address 66.51.56.6 255.255.255.252
  frame-relay interface-dlci 615

    Capture

 R6#show ip route
 Gateway of last resort is not set
      66.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
         66.51.56.4/30 is directly connected, Serial1/1.51
         66.51.46.0/29 is directly connected, Serial1/0
 R6#show frame-relay map
 Serial1/0 (up): ip 66.51.46.4 dlci 604(0x25C,0x94C0), static,
               CISCO, status defined, active
 Serial1/1.51 (up): point-to-point dlci, dlci 615(0x267,0x9870), broadcast
           status defined, active
 R5#show ip route
 Gateway of last resort is 77.51.7.7 to network 0.0.0.0
      66.0.0.0/30 is subnetted, 1 subnets
         66.51.56.4 is directly connected, Serial1/0.51
 С
      77.0.0.0/24 is subnetted, 1 subnets
         77.51.7.0 is directly connected, FastEthernet0/0
      0.0.0.0/0 [254/0] via 77.51.7.7
 R5#show frame-relay map
 Serial1/0.51 (up): point-to-point dlci, dlci 516(0x204,0x8040), broadcast
           status defined, active
 R6#ping 66.51.56.5
 Type escape sequence to abort.
 Sending 5, 100-byte ICMP Echos to 66.51.56.5, timeout is 2 seconds:
 !!!!!
 Success rate is 100 percent (5/5), round-trip min/avg/max = 32/68/96 ms
```

# c) Configuration of Frame Relay using point-to-multipoint sub-interface of serial interface

• **R2** 

```
int s1/0
  ip addr 66.52.236.2 255.255.255.248
  encapsulation frame-relay
  frame-relay map ip 66.52.236.6 216
  no frame-relay inverse-arp
  no shut
 1
• R3
 int s1/0
  ip addr 66.52.236.3 255.255.255.248
  encapsulation frame-relay
  frame-relay map ip 66.52.236.6 316
  no frame-relay inverse-arp
  no shut
• R6
 int s1/1.52 multipoint
  ip addr 66.52.236.6 255.255.255.248
  frame-relay map ip 66.52.236.2 612
  frame-relay map ip 66.52.236.3 613

    Capture

 R2#show ip route
 Gateway of last resort is 77.51.7.7 to network 0.0.0.0
      66.0.0.0/29 is subnetted, 1 subnets
 С
         66.52.236.0 is directly connected, Serial1/0
      77.0.0.0/24 is subnetted, 1 subnets
 С
         77.51.7.0 is directly connected, FastEthernet0/0
      0.0.0.0/0 [254/0] via 77.51.7.7
 R2#show frame map
 Serial1/0 (up): ip 66.52.236.6 dlci 216(0xD8,0x3480), static,
               CISCO, status defined, active
 R3#show ip route
 Gateway of last resort is 77.51.7.7 to network 0.0.0.0
      66.0.0.0/29 is subnetted, 1 subnets
         66.52.236.0 is directly connected, Serial1/0
 C
      77.0.0.0/24 is subnetted, 1 subnets
         77.51.7.0 is directly connected, FastEthernet0/0
      0.0.0.0/0 [254/0] via 77.51.7.7
 R3#show frame map
 Serial1/0 (up): ip 66.52.236.6 dlci 316(0x13C,0x4CC0), static,
               CISCO, status defined, active
```

R6#show ip route

```
66.0.0.0/8 is variably subnetted, 3 subnets, 2 masks
        66.51.56.4/30 is directly connected, Serial1/1.51
        66.51.46.0/29 is directly connected, Serial1/0
        66.52.236.0/29 is directly connected, Serial1/1.52
R6#show frame map
Serial1/0 (up): ip 66.51.46.4 dlci 604(0x25C,0x94C0), static,
             CISCO, status defined, active
Serial1/1.52 (up): ip 66.52.236.2 dlci 612(0x264,0x9840), static,
              CISCO, status defined, active
Serial1/1.52 (up): ip 66.52.236.3 dlci 613(0x265,0x9850), static,
              CISCO, status defined, active
Serial1/1.51 (up): point-to-point dlci, dlci 615(0x267,0x9870), broadcast
          status defined, active
R6#ping 66.52.236.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 66.52.236.2, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 28/64/104
ms
R6#ping 66.52.236.3
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 66.52.236.3, timeout is 2 seconds:
Success rate is 100 percent (5/5), round-trip min/avg/max = 8/56/136 ms
```

## Task 6: Configuration of NAT

Gateway of last resort is not set

## a) Verification of source IP address from TELNET

```
R2#telnet R8
Translating "R8"...domain server (177.51.7.8) [OK]
Trying R8.ie.cuhk.edu.hk (177.51.7.8)... Open
```

User Access Verification

Username: hello

Password: R8>show user

Line User Host(s) Idle Location

0 con 0 idle 02:24:09

\*226 vty 0 hello idle 00:00:00 R2.ie.cuhk.edu.hk

Interface User Mode Idle Peer Address

R8>exit

[Connection to R8 closed by foreign host]

The source IP address of R2 when telnet to R8 is 77.51.7.2 (R2.ie.cuhk.edu.hk).

## b) Configuration of PAT

• R7

```
int f0/1
ip nat inside
int f1/0
ip nat outside
access-list 1 permit 77.51.7.0 0.0.0.255
ip nat inside source list 1 interface FastEthernet1/0 overload
```

#### Capture

```
R2#telnet R8
Translating "R8"...domain server (177.51.7.8) [OK]
Trying R8.ie.cuhk.edu.hk (177.51.7.8)... Open
```

User Access Verification

Username: hello Password: R8>show user

Line User Host(s) Idle Location

0 con 0 idle 00:09:11

\*226 vty 0 hello idle 00:00:00 R177.ie.cuhk.edu.hk

Interface User Mode Idle Peer Address

R8>exit

[Connection to R8 closed by foreign host]

```
R7#show ip nat trans
                                                    Outside local
177.51.7.8:53
177.51.7.8:23
                             Inside local
Pro Inside global
                                                                               Outside global
udp 177.51.7.7:49997 77.51.7.2:49997 tcp 177.51.7.7:55229 77.51.7.2:55229
                                                                               177.51.7.8:53
                                                                               177.51.7.8:23
```

## c) Configuration of Static PAT

• R7

```
ip nat inside source static tcp 77.51.7.3 23 177.51.7.7 3003
ip nat inside source static tcp 77.51.7.4 23 177.51.7.7 3004
```

## · Verify and capture

R8#telnet R177 3003

Trying R177.ie.cuhk.edu.hk (177.51.7.7, 3003)... Open

User Access Verification

Username: hello

Password: R3>show user

Line User Host(s) Idle Location

0 con 0 00:24:06 idle

\*226 vty 0 hello 00:00:00 R8.ie.cuhk.edu.hk idle

Interface User Mode Idle Peer Address

R3>exit

[Connection to R177 closed by foreign host]

R8#telnet R177 3004

Trying R177.ie.cuhk.edu.hk (177.51.7.7, 3004)... Open

User Access Verification

Username: hello

Password: R4>show user

Line User Host(s) 0 con 0 idle Idle Location

00:46:03

00:00:00 R8.ie.cuhk.edu.hk \*226 vty 0 hello idle

Interface User Mode Idle Peer Address

R4>exit

[Connection to R177 closed by foreign host]

R7#show ip nat trans

\_\_\_\_\_global Inside local tcp 177.51.7.7:3003 77.51 7 2:00 tcp 177 51 7 7 7 Outside local Outside global 177.51.7.8:34046 177.51.7.8:34046 tcp 177.51.7.7:3003 77.51.7.3:23 ---\_\_\_

tcp 177.51.7.7:3004 77.51.7.4:23 ---\_\_\_

## d) Configuration of Static NAT

• R7

ip nat inside source static 77.51.7.2 177.51.7.2

## · Verify and capture

R2# telnet R8

Translating "R8"...domain server (177.51.7.8) [OK] Trying R8.ie.cuhk.edu.hk (177.51.7.8)... Open

User Access Verification

Username: hello

Password: R8>show user

Line User Host(s)
0 con 0 idle
\*226 vty 0 hello idle Idle Location

00:00:37

00:00:00 177.51.7.2

Interface User Mode Idle Peer Address

R8>exit

[Connection to R8 closed by foreign host]

R8#telnet 177.51.7.2

Trying 177.51.7.2 ... Open

User Access Verification

Username: hello

Password: R2>show user

Line User Host(s) Idle Location 0 con 0 R8 00:00:18

00:00:18 0 con 0 R8

\*226 vty 0 hello idle 00:00:00 R8.ie.cuhk.edu.hk

Mode Idle Peer Address Interface User

R2>exit

[Connection to 177.51.7.2 closed by foreign host]

R7(config)#do show ip nat trans

|     | 177.51.7.2       | 77.51.7.2       |                  |                  |
|-----|------------------|-----------------|------------------|------------------|
| udp | 177.51.7.2:54727 | 77.51.7.2:54727 | 177.51.7.8:53    | 177.51.7.8:53    |
| tcp | 177.51.7.2:45372 | 77.51.7.2:45372 | 177.51.7.8:23    | 177.51.7.8:23    |
| tcp | 177.51.7.2:23    | 77.51.7.2:23    | 177.51.7.8:19347 | 177.51.7.8:19347 |
| tcp | 177.51.7.2:23    | 77.51.7.2:23    | 177.51.7.8:14858 | 177.51.7.8:14858 |
| Pro | Inside global    | Inside local    | Outside local    | Outside global   |

tcp 177.51.7.7:3003 77.51.7.3:23 --tcp 177.51.7.7:3004 77.51.7.4:23 ------

## Task 7: Configuration of Network Security

• R7

```
access-list 2 permit 177.51.7.8
access-list 2 permit 77.51.7.0 0.0.0.255
line vty 0 4
  access-class 2 in
'
```

## · Verify and capture

```
R2#telnet R77
Translating "R77"...domain server (177.51.7.8) [OK]
Trying R77.ie.cuhk.edu.hk (77.51.7.7)... Open
User Access Verification
Username: hello
Password:
R7>exit
[Connection to R77 closed by foreign host]
R8#telnet R177
Trying R177.ie.cuhk.edu.hk (177.51.7.7)... Open
User Access Verification
Username: hello
Password:
R7>exit
[Connection to R177 closed by foreign host]
R1# telnet R177
Translating "R177"...domain server (177.51.7.8) [OK]
Trying R177.ie.cuhk.edu.hk (177.51.7.7)...
% Connection refused by remote host
```

# Task 8: Configuration of System logging

• **R**7

```
logging facility sys9
logging 77.51.7.250
```

· Verify and capture

```
R7#show logging
Syslog logging: enabled (11 messages dropped, 0 messages rate-limited,
                0 flushes, 0 overruns, xml disabled, filtering disabled)
    Console logging: level debugging, 21 messages logged, xml disabled,
                     filtering disabled
   Monitor logging: level debugging, 0 messages logged, xml disabled,
                     filtering disabled
   Buffer logging: disabled, xml disabled,
                    filtering disabled
   Logging Exception size (4096 bytes)
   Count and timestamp logging messages: disabled
No active filter modules.
    Trap logging: level informational, 25 message lines logged
        Logging to 77.51.7.250 (udp port 514, audit disabled, link up),
25 message lines logged, xml disabled,
               filtering disabled
```

## Task 9: Configuration of SNMP support

#### • R7

```
access-list 3 permit 77.51.7.3
access-list 3 permit 77.51.7.2
snmp-server community HELLOWORLD RO 3
```

## · Verify and capture

R7#show snmp community

Community name: ILMI
Community Index: cisco0
Community SecurityName: ILMI
storage-type: read-only active

Community name: HELLOWORLD Community Index: ciscol

Community SecurityName: HELLOWORLD

storage-type: nonvolatile active access-list: 3

## **A** Declaration

I declare that the assignment here submitted is original except for source material explicitly acknowledged, and that the same or related material has not been previously submitted for another course. I also acknowledge that I am aware of University policy and regulations on honesty in academic work, and of the disciplinary guidelines and procedures applicable to breaches of such policy and regulations, as contained in the website http://www.cuhk.edu.hk/policy/academichonesty/