

LAB 4-1: IP Routing - Static and Default Route

Source Code

Ranet-HQ router

```
ena
conf t
int s0/0/0
ip add 52.7.9.221 255.255.255.252
no shut
int s0/1/0
ip add 77.7.7.254 255.255.255.252
no shut
int fa0/0
ip add 52.7.9.206 255.255.255.240
no shut
exit
ip route 0.0.0.0 0.0.0.0 s0/1/0
ip route 52.7.9.208 255.255.255.248 s0/0/0
do cop r st
```

Ranet-BR router

```
ena
conf t
int s0/0/0
encapsulation hdlc
clock rate 64000
ip add 52.7.9.222 255.255.255.252
no shut
int fa0/0
ip add 52.7.9.214 255.255.255.248
no shut
exit
ip route 0.0.0.0 0.0.0.0 s0/0/0
ip route 52.7.9.192 255.255.255.240 s0/0/0
do cop r st
```

Output Screenshot

Cisco Packet Tracer - C:\Users\LeantDR\Desktop\College files\3-1 College files\Data and Digital Communications\NA-4-1-Static-Default-Route.pka

File Edit Options View Tools Extensions Window Help

Activity Results Time Left: 00:15:28

Congratulations Guest! You completed the activity.

Overall Feedback **Assessment Items** Connectivity Tests

Expand/Collapse All Show Incorrect Items

Assessment Items	Status	Points	Component(s)	Feedback
Network				
Ranet-BR				
Ports				
FastEthernet0/0				
IP Address	Correct	1	Ip	
Port Status	Correct	1	Physical	
Subnet Mask	Correct	1	Ip	

Score : 22/22

Item Count : 22/22

Component	Items/Total	Score
Ip	10/10	10/10
Other	3/3	3/3
Physical	5/5	5/5
Routing	4/4	4/4

LAB 4-2: IP Routing - RIP

Source Code

Ranet-HQ router

```
ena
conf t
int s0/0/0
ip add 98.83.165.74 255.255.255.252
no shut
int s0/1/0
ip add 52.9.236.22 255.255.255.252
no shut
int fa0/0
ip add 98.83.165.65 255.255.255.248
no shut
exit
router rip
version 2
no auto-summary
network 98.0.0.0
exit
ip route 0.0.0.0 0.0.0.0 s0/1/0
do cop r st
```

Ranet-BR router

```
ena
conf t
int fa0/0
ip add 98.83.165.81 255.255.255.240
no shut
int s0/0/0
encapsulation hdlc
clock rate 64000
ip add 98.83.165.73 255.255.255.252
no shut
exit
router rip
version 2
no auto-summary
network 98.0.0.0
exit
ip route 0.0.0.0 0.0.0.0 s0/0/0
do cop r st
```

Output Screenshot

Cisco Packet Tracer - C:\Users\LeantDR\Desktop\College files\3-1 College files\Data and Digital Communications\NA-4-2-RIP.pka

File Edit Options View Tools Extensions Window Help

Activity Results Time Left: 00:17:11

Congratulations Guest! You completed the activity.

Overall Feedback Assessment Items Connectivity Tests

Expand/Collapse All Show Incorrect Items

Assessment Items	Status	Points	Component(s)	Feedback
Network				
Ranet-BR				
Ports				
FastEthernet0/0				
IP Address	Correct	1	Ip	
Port Status	Correct	1	Physical	
Subnet Mask	Correct	1	Ip	
Serial0/0/0				
Encapsulation	Correct	1	Other	
IP Address	Correct	1	Ip	
Port Status	Correct	1	Physical	

Score : 26/26

Item Count : 26/26

Component	Items/Total	Score
Ip	10/10	10/10
Other	3/3	3/3
Physical	5/5	5/5
Routing	8/8	8/8

LAB 4-3: IP Routing – OSPF

Source Code

Ranet-HQ router

```
ena
conf t
int fa0/0
no shut
ip add 128.0.6.142 255.255.255.240
int s0/0/0
ip add 128.0.6.157 255.255.255.252
no shut
int s0/1/0
no shut
ip add 128.0.6.94 255.255.255.252
exit
int loopback 0
ip add 1.1.0.1 255.255.255.0
exit
router ospf 1
network 128.0.6.128 0.0.0.15 area 0
network 128.0.6.156 0.0.0.3 area 0
exit
ip route 0.0.0.0 0.0.0.0 s0/1/0
do cop r st
```

Ranet-BR router

```
ena
conf t
int fa0/0
ip add 128.0.6.150 255.255.255.248
no shut
int s0/0/0
ip add 128.0.6.158 255.255.255.252
no shut
clock rate 64000
exit
int loopback 0
ip add 1.1.1.1 255.255.255.0
exit
router ospf 100
network 128.0.6.144 0.0.0.7 area 0
network 128.0.6.156 0.0.0.3 area 0
exit
ip route 0.0.0.0 0.0.0.0 s0/0/0
do cop r st
```

Output Screenshot

Cisco Packet Tracer - C:\Users\LeantDR\Desktop\College files\3-1 College files\Data and Digital Communications\NA-4-3-OSPF.pka

File Edit Options View Tools Extensions Window Help

Activity Results Time Left: 00:12:48

Congratulations Dela Rosa, Leant! You completed the activity.

Overall Feedback **Assessment Items** Connectivity Tests

Expand/Collapse All Show Incorrect Items

Assessment Items	Status	Points	Component(s)	Feedback
Network				
Ranet-BR				
OSPF				
Process ID 100				
Area		0	Routing	
Area 0		1	Routing	
Area Status	Correct	1	Routing	
Networks				
Route0	Correct	1	Routing	

Score : 28/28

Item Count : 28/28

Component	Items/Total	Score
Ip	12/12	12/12
Other	3/3	3/3
Physical	5/5	5/5
Routing	8/8	8/8

LAB 4-4: IP Routing – EIGRP

Source Code

Ranet-HQ router

```
ena
conf t
int fa0/0
ip add 5.88.192.54 255.255.255.248
no shut
int s0/0/0
ip add 5.88.192.57 255.255.255.248
no shut
int s0/1/0
ip add 5.88.192.226 255.255.255.252
no shut
exit
router eigrp 10110
network 5.88.192.48 0.0.0.7
network 5.88.192.56 0.0.0.7
no auto-summary
exit
ip route 0.0.0.0 0.0.0.0 s0/1/0
do cop r st
```

Ranet-BR router

```
ena
conf t
int fa0/0
ip add 5.88.192.46 255.255.255.240
no shut
int s0/0/0
ip add 5.88.192.62 255.255.255.248
no shut
clock rate 64000
exit
router eigrp 10110
network 5.88.192.32 0.0.0.15
network 5.88.192.56 0.0.0.7
no auto-summary
exit
ip route 0.0.0.0 0.0.0.0 se0/0/0
do cop r st
```

Output Screenshot

Cisco Packet Tracer - C:\Users\LeantDR\Desktop\College files\3-1 College files\Data and Digital Communications\NA-4-4-EIGRP.pka

File Edit Options View Tools Extensions Window Help

Activity Results Time Left: 00:17:19

Congratulations Dela Rosa, Leant! You completed the activity.

Overall Feedback Assessment Items Connectivity Tests

Expand/Collapse All Show Incorrect Items

Assessment Items	Status	Points	Component(s)	Feedback
[-] Network				
[-] Ranet-BR				
[-] EIGRP				
[-] Autonomous System 10110				
[-] Auto Summary	Correct	1	Routing	
[-] Networks				
[-] Route0	Correct	1	Routing	
[-] Route1	Correct	1	Routing	

Score : 26/26

Item Count : 26/26

Component	Items/Total	Score
Ip	10/10	10/10
Other	3/3	3/3
Physical	5/5	5/5
Routing	8/8	8/8