

## #Basic Router Configuration (Rafee)

### #Basic Configuration

For SDS

en

erase startup-config

reload

no

en

config t

hostname SDS

banner motd &

\*\*\*\*\*

    Hello from School of Data And Sciences

\*\*\*\*\*

&

interface gigabitEthernet 0/0

ip address 192.168.0.1 255.255.240.0

no shut

interface gigabitEthernet 0/0

ip address 192.168.0.1 255.255.240.0

no shut

interface s0/3/0

ip address 192.168.31.129 255.255.255.252

clock rate 64000

no shut

interface s0/3/1

ip address 192.168.31.133 255.255.255.252

clock rate 64000

no shut

exit

exit

copy running-config startup-config

For SE

en

erase startup-config

reload

no

en

config t

hostname SE

```
banner motd &
```

```
*****
```

```
    Hello from School of Engineering
```

```
*****
```

```
&
```

```
interface g0/0
```

```
ip address 192.168.30.1 255.255.255.0
```

```
no shut
```

```
interface s0/3/0
```

```
ip address 192.168.31.130 255.255.255.252
```

```
no shut
```

```
exit
```

```
exit
```

```
copy running-config startup-config
```

```
For BIL
```

```
en
```

```
erase startup-config
```

```
reload
```

```
no
```

```
en
```

```
config t
```

```
hostname BIL
```

```
banner motd &
```

```
*****
```

```
    Hello from Brac Institute of Languages
```

```
*****
```

```
&
```

```
interface g0/0
```

```
ip address 192.168.24.1 255.255.252.0
```

```
no shut
```

```
interface s0/3/0
```

```
ip address 192.168.31.134 255.255.255.252
```

```
no shut
```

```
interface s0/3/1
```

```
ip address 192.168.31.137 255.255.255.252
```

```
clock rate 64000
```

```
no shut
```

```
interface s0/2/0
```

```
ip address 192.168.31.141 255.255.255.252
```

```
clock rate 64000
```

```
no shut
```

```
exit
```

```
exit
```

```
copy running-config startup-config
```

```
For BBS
```

```
en
```

```
erase startup-config
```

```
reload
```

```
no
```

```
en
```

```
config t
```

```
hostname BBS
```

```
banner motd &
```

```
*****
```

```
    Hello From Brac Business School
```

```
*****
```

```
&
```

```
interface g0/0
```

```
ip address 192.168.16.1 255.255.248.0
```

```
no shut
```

```
BBS(config-if)#interface s0/3/0
```

```
ip address 192.168.31.138 255.255.255.252
```

```
no shut
```

```
interface s0/3/1
```

```
ip address 192.168.31.145 255.255.255.252
```

```
clock rate 64000
```

```
no shut
```

```
exit
```

```
exit
```

```
copy running-config startup-config
```

```
For SHSS
```

```
en
```

```
erase startup-config
```

```
reload
```

```
no
```

```
en
```

```
config t
```

```
hostname SHSS
```

```
banner motd &
```

```
*****
```

```
    Hello from School of Humanities and Social Sciences
```

```
*****
```

```
&
```

```
interface g0/0
```

```
ip address 192.168.31.1 255.255.255.128
```

```
no shut
interface s0/3/0
ip address 192.168.31.142 255.255.255.252
no shut
interface s0/3/1
ip address 192.168.31.146 255.255.255.252
clock rate 64000
no shut
exit
exit
copy running-config startup-config
```

#Basic Configuration

```
#Routing
For SDS
en
config t
router rip
version 2
no auto-summary
network 192.168.0.0
network 192.168.28.0
network 192.168.31.128
network 192.168.31.132
exit
exit
copy running-config startup-config
```

```
For SE
en
config t
router rip
version 2
no auto-summary
network 192.168.30.0
network 192.168.31.128
exit
exit
copy running-config startup-config
```

```
For BIL
en
config t
```

```
ip route 192.168.16.0 255.255.248.0 192.168.16.1
ip route 192.168.31.0 255.255.255.128 192.168.31.146
ip route 0.0.0.0 0.0.0.0 Serial0/3/0
router rip
version 2
network 192.168.31.134
network 192.168.24.0
redistribute static
exit
exit
copy running-config startup-config
```

#Routing

#Adding helper address till BBS

For SDS

```
en
config t
int g0/1
ip helper-address 192.168.0.3
no shut
exit
```

For SE

```
en
config t
int g0/0
ip helper-ad
ip helper-address 192.168.0.3
no shut
exit
exit
```

For BIL

```
en
config t
int g0/0
ip helper-address 192.168.0.3
no shut
exit
exit
```

#Done

//Todo: Add here your part brother. If you want to add things separately!

//Static routing, Floating static routing, DHCP relay and Debugging: (Samanta)

BBS>en

BBS#config t

BBS(config)#ip route 192.168.31.0 255.255.255.128 192.168.31.146

BBS(config)#ip route 192.168.24.0 255.255.252.0 192.168.31.137

BBS(config)#exit

BBS#show ip route

BBS#exit

SHSS>en

SHSS#config t

SHSS(config)#ip route 192.168.16.0 255.255.248.0 192.168.31.145

SHSS(config)#ip route 192.168.24.0 255.255.252.0 192.168.31.141

SHSS(config)#exit

SHSS#show ip route

SHSS#exit

BBS>en

BBS#config t

BBS(config)#ip route 192.168.31.0 255.255.255.128 s0/3/0 5

BBS(config)#exit

BBS#show ip route

BBS#exit

SHSS>en

SHSS#config t

SHSS(config)#ip route 192.168.16.0 255.255.248.0 s0/3/0 5

SHSS(config)#exit

SHSS#show ip route

SHSS#exit

BBS>en

BBS#config t

BBS(config)#int g0/0

BBS(config-if)#ip helper-address 192.168.0.3

BBS(config-if)#no shut

BBS(config-if)#exit

BBS(config)#exit

BBS#exit

SHSS>en

```
SHSS#config t
SHSS(config)#int g0/0
SHSS(config-if)#ip helper-address 192.168.0.3
SHSS(config-if)#no shut
SHSS(config-if)#exit
SHSS(config)#exit
SHSS#exit
```

```
BBS>en
BBS#show ip route
BBS#copy run start
BBS#exit
```

```
SHSS>en
SHSS#show ip route
SHSS#copy run start
SHSS#exit
```

```
BIL>en
BIL#clear ip route *
BIL#show ip route
BIL#config t
BIL(config)#ip route 192.168.16.0 255.255.248.0 192.168.31.138
BIL(config)#ip route 192.168.31.0 255.255.255.128 192.168.31.142
BIL(config)#router rip
BIL(config-router)#version 2
BIL(config-router)#network 192.168.31.132
BIL(config-router)#passive-interface g0/0
BIL(config-router)#redistribute static
BIL(config-router)#exit
BIL(config)#exit
BIL#copy run start
BIL#exit
```

#Rafee

```
For BBS
en
config t
ip route 0.0.0.0 0.0.0.0 Serial0/3/0
```

```
For SHSS
SHSS>en
SHSS#config t
```

```
SHSS(config)#ip route 0.0.0.0 0.0.0.0 Serial0/3/0
```