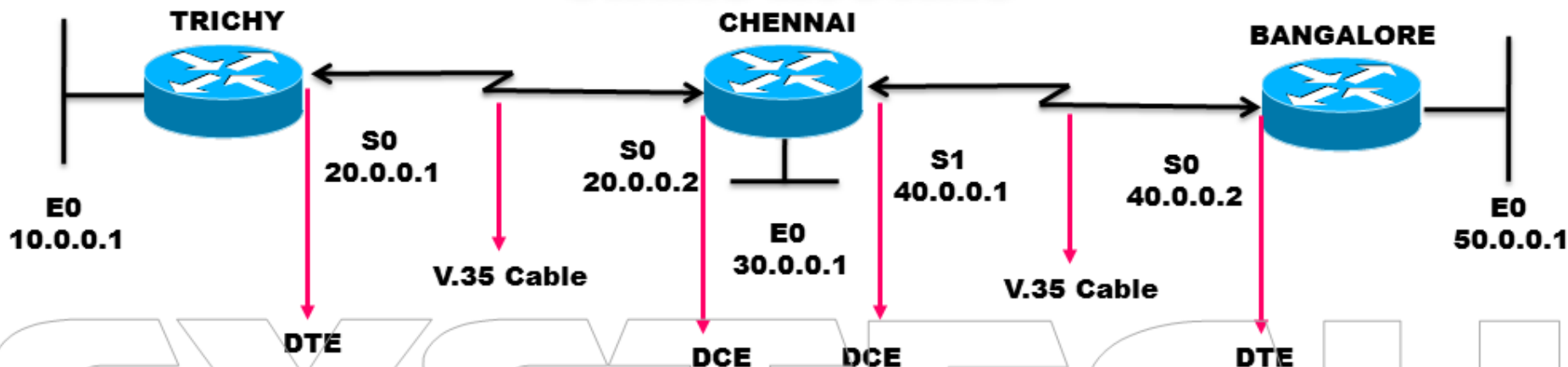


# STATIC ROUTING



e0 : Ethernet

s0 : serial

DTE : Data Terminal Equipment (user end)

DCE : Data Communication Equipment (other end)

(clock rate must be set, connection speed by ISP)

Directly connected code: **C**

Static Code : **S**

Default static Administrative Distance: **1**

## Router A

**C** - 10.0.0.0

**C** - 20.0.0.0

**S** - 30.0.0.0

**S** - 40.0.0.0

**S** - 50.0.0.0

## Router B

**C** - 20.0.0.0

**C** - 30.0.0.0

**C** - 40.0.0.0

**S** - 50.0.0.0

**S** - 10.0.0.0

## Router C

**C** - 40.0.0.0

**C** - 50.0.0.0

**S** - 10.0.0.0

**S** - 20.0.0.0

**S** - 30.0.0.0



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# Router A (Trichy)

## ENABLE INTERFACE

Router >	Enable
Router #	Configure Terminal
Router(config)#	Interface ethernet 0
Router(config-if)#	ip address 10.0.0.1 255.0.0.0
Router(config-if)#	no shutdown
Router(config-if)#	exit
Router(config)#	Interface serial 0
Router(config-if)#	ip address 20.0.0.1 255.0.0.0
Router(config-if)#	no shutdown

Ctrl Z

Router#	show ip interface brief
Router#	show ip route

## STATIC

Router >	Enable
Router #	Configure Terminal
Router(config)#	ip route 30.0.0.0 255.0.0.0 20.0.0.2
Router(config)#	ip route 40.0.0.0 255.0.0.0 20.0.0.2
Router(config)#	ip route 50.0.0.0 255.0.0.0 20.0.0.2



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# Router B (Chennai)

## ENABLE INTERFACE

```
Router >  
Router #  
Router(config)#  
Router(config-if)#  
Router(config-if)#  
Router(config-if)#  
Router(config)#  
Router(config-if)#  
Router(config-if)#  
Router(config-if)#  
Router(config-if)#  
Router(config-if)#  
Router(config-if)#  
Router(config-if)#  
Router(config-if)#
```

```
Router#  
Router#
```

```
Router >  
Router #  
Router(config)#  
Router(config)#
```

```
Enable  
Configure Terminal  
Interface ethernet 0  
ip address 30.0.0.1 255.0.0.0  
no shutdown  
exit  
interface serial 0  
ip address 20.0.0.2 255.0.0.0  
no shutdown  
clock rate 9600  
exit  
interface serial 1  
ip address 40.0.0.1 255.0.0.0  
no shutdown  
clock rate 9600
```

```
show ip interface brief  
show ip route
```

## STATIC

### Enable

### Configure Terminal

```
ip route 50.0.0.0 255.0.0.0 40.0.0.2  
ip route 10.0.0.0 255.0.0.0 20.0.0.1
```

Ctrl Z



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# Router C (Bangalore)

## ENABLE INTERFACE

```
Router >
Router #
Router(config)#
Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config)#
Router(config-if)#
Router(config-if)#
Router(config-if)#
```

```
Enable
Configure Terminal
Interface ethernet 0
ip address 50.0.0.1 255.0.0.0
no shutdown
exit
interface serial 0
ip address 40.0.0.2 255.0.0.0
no shutdown
exit
```

Ctrl Z

```
Router#
Router#
```

```
show ip interface brief
show ip route
```

## STATIC

```
Router >
Router #
Router(config)#
Router(config)#
Router(config)#
```

```
Enable
Configure Terminal
ip route 10.0.0.0 255.0.0.0 40.0.0.1
ip route 20.0.0.0 255.0.0.0 40.0.0.1
ip route 30.0.0.0 255.0.0.0 40.0.0.1
```



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### To Set Host name in Router:

Router >	Enable
Router #	Configure Terminal
Router(config)#	Hostname Trichy
Trichy(config)#	

### Reload the Router:

Router >	Enable
Router #	reload

Router #	show running-configuration
Router #	show interface serial 0
Router #	show controllers serial 0
Router #	debug ip packet
Router #	debug ip routing