

TVA Headquareter:

```
Router>en
```

```
Router#config t
```

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

```
Router(config)#int f0/0
```

```
Router(config-if)#ipaddress 192.168.0.100 255.255.192.0
```

```
^
```

% Invalid input detected at '^' marker.

```
Router(config-if)#ip address 192.168.0.100 255.255.192.0
```

```
Router(config-if)#no shut
```

```
Router(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

```
exit
```

```
Router(config)#int s0/0
```

```
Router(config-if)#ip address 192.168.64.2 255.255.192.0
```

```
Router(config-if)#no shut
```

%LINK-5-CHANGED: Interface Serial0/0, changed state to down

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

```
Router(config)#exit
```

```
Router(config)#int s0/1
```

```
Router(config-if)#ip address 192.168.160.23 255.255.240.0
```

```
Router(config-if)#no shut
```

```
Router(config)#int f0/1
```

```
Router(config-if)#ip address 192.168.176.5 255.255.248.0
```

```
Router(config-if)#no shut
```

Asgard:

```
Router(config)#int f0/0
```

```
Router(config-if)#ip address 192.168.64.100 255.255.192.0
```

```
Router(config-if)#no shut
```

```
Router(config)#int s0/1
```

```
Router(config-if)#ip address 192.168.0.14 255.255.192.0
```

```
Router(config-if)#no shut
```

```
Router(config)#int s0/0
```

```
Router(config-if)#ip address 192.168.184.1 255.255.252.0
```

```
Router(config-if)#no shut
```

The VOID:

```
Router(config)#int f0/1
```

```
Router(config-if)#ip address 192.168.160.1 255.255.240.0
```

```
Router(config-if)#no shut
```

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

```
Router(config)#int s0/0/0
Router(config-if)#ip address 192.168.0.112 255.255.192.0
Router(config-if)#no shut
Router(config)#int s0/0/1
Router(config-if)#ip address 192.168.128.50 255.255.224.0
Router(config-if)#no shut
Router(config)#int f0/0
Router(config-if)#ip address 192.168.160.27 255.255.240.0
Router(config-if)#no shut
```

Gulf coast:

```
Router(config)#int f0/0
Router(config-if)#ip address 192.168.184.12 255.255.252.0
Router(config-if)#no shut
Router(config)#int s0/1
Router(config-if)#ip address 192.168.64.15 255.255.252.0
Router(config-if)#no shut
Router(config)#int s0/0
Router(config-if)#ip address 192.168.176.1 255.255.248.0
Router(config-if)#no shut
```

Herb's House:

```
Router(config)#int f0/0
Router(config-if)#ip address 192.168.176.21 255.255.248.0
Router(config-if)#no shut
Router(config)#int s0/0
Router(config-if)#ip address 192.168.184.22 255.255.252.0
Router(config-if)#no shut
Router(config-if)#exit
Router(config)#int s0/1
Router(config-if)#ip address 192.168.128.55 255.255.224.0
Router(config-if)#no shut
Router(config)#int f0/1
Router(config-if)#ip address 192.168.0.5 255.255.192.0
Router(config-if)#no shut
Router(config-if)#exit
```

Lamentia:

```
Router(config)#int s0/0
Router(config-if)#ip address 192.168.176.15 255.255.248.0
Router(config-if)#no shut
Router(config)#int f0/0
Router(config-if)#ip address 192.168.128.31 255.255.224.0
Router(config-if)#no shut
Router(config)#int s0/1
Router(config-if)#ip address 192.168.160.25 255.255.240.0
Router(config-if)#no shut
```

The HQ:

```
Router(config)#int s0/0
Router(config-if)#ip address 172.17.1.2 255.255.255.0
Router(config-if)#no shut
```

Asgard:

```
Router(config)#int s0/1
Router(config-if)#ip address 172.17.1.3 255.255.255.0
Router(config-if)#no shut
Router(config-if)#
ASGARD(config)#int s0/0
ASGARD(config-if)#ip address 172.18.1.1 255.255.255.0
ASGARD(config-if)#no shut
```

The VOID

:

```
Router(config)#int s0/0/0
Router(config-if)#ip address 172.16.0.2 255.255.255.0
Router(config-if)#no shut
TheVoid(config)#int s0/0/1
TheVoid(config-if)#ip address 172.21.0.2 255.255.255.0
TheVoid(config-if)#no shut
TheVoid(config)#int f0/0
TheVoid(config-if)#ip address 1.0.0.1 255.255.255.0
TheVoid(config-if)#no shut
```

Gulf Coast:

```
Router(config)#int s0/1
Router(config-if)#ip address 172.18.1.2 255.255.255.0
Router(config-if)#no shut
GulfCoast(config)#int s0/0
GulfCoast(config-if)#ip address 172.19.1.1 255.255.255.0
GulfCoast(config-if)#no shut
```

```
Herb'sHouse(config)#int s0/0
Herb'sHouse(config-if)#ip address 172.19.1.2 255.255.255.0
Herb'sHouse(config-if)#no shut
Herb'sHouse(config)#int s0/1
Herb'sHouse(config-if)#ip address 172.19.2.1 255.255.255.0
Herb'sHouse(config-if)#no shut
Herb'sHouse(config-if)#exit
```

```
Lamentis(config)#int s0/0
Lamentis(config-if)#ip address 172.19.2.2 255.255.255.0
```

```
Lamentis(config-if)#no shut
Lamentis(config)#int s0/1
Lamentis(config-if)#ip address 172.21.0.1 255.255.255.0
Lamentis(config-if)#no shut
```

```
TVA(config)#router rip
TVA(config-router)#version 2
TVA(config-router)#no auto
TVA(config-router)#no auto-summary
TVA(config-router)#net
TVA(config-router)#network 172.17.1.0
TVA(config-router)#network 192.168.0.0
TVA(config-router)#exit
```

```
ASGARD(config)#router rip
ASGARD(config-router)#version 2
ASGARD(config-router)#no auto-summary
ASGARD(config-router)#network 172.17.1.0
ASGARD(config-router)#network 192.168.64.0
ASGARD(config-router)#exit
ASGARD(config)#int f0/0
ASGARD(config-if)#ip helper-address 172.17.1.2
ASGARD(config-if)#
ASGARD(config-if)#exit
ASGARD(config)#router rip
ASGARD(config-router)#version2
^
```

```
% Invalid input detected at '^' marker.
ASGARD(config-router)#version 2
ASGARD(config-router)#no auto-summary
ASGARD(config-router)#network 172.17.1.0
ASGARD(config-router)#network 192.168.64.0
ASGARD(config-router)#exit
```

```
TVA(config)#ip dhcp pool Net1
TVA(dhcp-config)#network 192.168.0.0 255.255.192.0
TVA(dhcp-config)#def
TVA(dhcp-config)#default-router 192.168.0.1
TVA(dhcp-config)#
TVA(dhcp-config)#exit
```

```
TVA(config)#ip dhcp pool Net1
TVA(dhcp-config)#dns-server 192.168.0.2
```

```
TVA(dhcp-config)#exit
TVA(config)#%DHCPD-4-PING_CONFLICT: DHCP address conflict: server pinged
192.168.0.2.
```

```
TVA(config)#ip dhcp pool Net2
TVA(dhcp-config)#network 192.168.64.0 255.255.192.0
TVA(dhcp-config)#def
TVA(dhcp-config)#default-router 192.162.64.1
TVA(dhcp-config)#dns-server 192.168.0.2
```

```
TVA(config)#ip dhcp pool Net3
TVA(dhcp-config)#net
TVA(dhcp-config)#network 192.168.160.0 255.255.240.0
TVA(dhcp-config)#def
TVA(dhcp-config)#default-router 192.168.160.1
TVA(dhcp-config)#dns
TVA(dhcp-config)#dns-server 192.168.0.2
TVA(dhcp-config)#
```

```
TheVoid(config)#int f0/1
TheVoid(config-if)#ip helper-address 172.16.0.1
TheVoid(config-if)#exit
```

IP configuration:

```
Lamentis(config)#ip route 0.0.0.0 0.0.0.0 s0/1
Herb'sHouse(config)#ip route 0.0.0.0 0.0.0.0 s0/1
GulfCoast(config)#ip route 0.0.0.0 0.0.0.0 s0/1
```

Router:

```
Router(config-if)#ip address 172.17.2.2 255.255.255.0
Router(config-if)#no shut
```

Routing:

```
GulfCoast(config)#ip route 192.168.0.0 255.255.192.0 s0/1
GulfCoast(config)#ip route 192.168.64.0 255.255.192.0 s0/1
```

NAT:

Router>en

Router#conf t

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

Router(config)#int f0/0

Router(config-if)#ip nat out

Router(config-if)#int f0/1

Router(config-if)#ip nat inside

Router(config-if)#ip nat inside source static 10.0.0.240 209.165.100.29

Router(config)#exit