## Herbs house => switch

Router>en

Router#config t

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

Router(config)#interface fastethernet0/0

Router(config-if)#ip address 10.10.176.1 255.255.248.0

Router(config-if)#no shutdown

## Gulf coast

Router>en

Router#config t

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

Router(config)#interface fastethernet0/0

Router(config-if)#ip address 10.10.184.1 255.255.248.0

Router(config-if)#no shutdown

# Asgard

Router>en

Router#config t

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

Router(config)#interface fastethernet0/0

Router(config-if)#ip address 10.10.64.1 255.255.192.0

Router(config-if)#no shutdown

### Lamentis

Router>en

Router#config t

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

Router(config)#interface fastethernet0/0

Router(config-if)#ip address 10.10.128.1 255.255.224.0

Router(config-if)#no shutdown

#### Void

Router>en

Router#config t

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

Router(config)#interface fastethernet0/0

Router(config-if)#ip address 10.10.160.1 255.255.240.0

Router(config-if)#no shutdown

# Tva headquarter

Router>en

Router#config t

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

Router(config)#interface fastethernet0/0

Router(config-if)#ip address 10.10.0.1 255.255.192.0

Router(config-if)#no shutdown

Herb house => gulf coast

Router>en

Router#config t

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

Router(config)#interface serial0/0/0

Router(config-if)#ip address 10.10.192.49 255.255.255.252

Router(config-if)#no shutdown

Gulf coast => herb house

Router>en

Router#config t

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

Router(config)#interface serial0/0/0

Router(config-if)#ip address 10.10.192.50 255.255.255.252

Router(config-if)#no shutdown

Gulf coast => Asgard

Router>en

Router#config t

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

Router(config)#interface serial0/0/1

Router(config-if)#ip address 10.10.192.53 255.255.255.252

Router(config-if)#no shutdown

Asgard => Gulf coast

Router>en

Router#config t

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

Router(config)#interface serial0/0/0

Router(config-if)#ip address 10.10.192.54 255.255.255.252 Router(config-if)#no shutdown

Asgard => TVA headquarter

Router>en

Router#config t

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

Router(config)#interface serial0/0/1

Router(config-if)#ip address 10.10.192.57 255.255.255.252

Router(config-if)#no shutdown

TVA headquarter => Asgard

Router>en

Router#config t

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

Router(config)#interface serial0/0/0

Router(config-if)#ip address 10.10.192.58 255.255.255.252

Router(config-if)#no shutdown

TVA headquarter => Lamentis

Router>en

Router#config t

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

Router(config)#interface serial0/1/0

Router(config-if)#ip address 10.10.192.61 255.255.255.252

Router(config-if)#no shutdown

Lamentis => TVA headquarter

Router>en

Router#config t

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

Router(config)#interface serial0/0/0

Router(config-if)#ip address 10.10.192.62 255.255.255.252

Router(config-if)#no shutdown

TVA headquarter => The void

Router>en

Router#config t

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

Router(config)#interface serial0/0/1 Router(config-if)#ip address 10.10.192.65 255.255.255.252 Router(config-if)#no shutdown

The void => TVA headquarter

Router>en

Router#config t

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

Router(config)#interface serial0/0/0

Router(config-if)#ip address 10.10.192.66 255.255.255.252

Router(config-if)#no shutdown

The void => isp

Router>en

Router#config t

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

Router(config)#interface se0/1/0

Router(config-if)#ip address 182.168.0.2 255.255.255.0

Router(config-if)#no shutdown

Isp => the void

Router>en

Router#config t

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

Router(config)#interface se0/0/0

Router(config-if)#ip address 182.168.0.1 255.255.255.0

Router(config-if)#no shutdown

Backup route =>

Herbs house => asgard

Router>en

Router#config t

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

Router(config)#interface serial0/0/1

Router(config-if)#ip address 10.10.192.69 255.255.255.252

Router(config-if)#no shutdown

Router(config)#ip route 10.10.192.68 255.255.255.252 se0/0/1 5

Asgard => herbs house

Router>en

Router#config t

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

Router(config)#interface serial0/1/0

Router(config-if)#ip address 10.10.192.70 255.255.255.252

Router(config-if)#no shutdown

\_\_\_\_\_\_

Herb house => gulf coast static route

### Static route

Router(config)#ip route 10.10.184.0 255.255.248.0 serial0/0/0 Router(config)#ip route 10.10.192.52 255.255.255.252 serial0/0/0

Router(config)#ip route 10.10.64.0 255.255.192.0 serial0/0/0

Router(config)#ip route 10.10.192.56 255.255.255.252 serial0/0/0

Router(config)#ip route 10.10.192.56 255.255.255.252 serial0/0/1 5

Router(config)#ip route 10.10.0.0 255.255.192.0 serial0/0/0

Router(config)#ip route 10.10.192.64 255.255.255.252 serial0/0/0

Router(config)#ip route 10.10.192.60 255.255.255.252 serial0/0/0

Router(config)#ip route 10.10.128.0 255.255.224.0 serial0/0/0

Router(config)#ip route 10.10.160.0 255.255.240.0 serial0/0/0

### Gulf coast

ip route 10.10.176.0 255.255.248.0 serial0/0/0

ip route 10.10.192.52 255.255.255.252 serial0/0/1

Ip route 10.10.64.0 255.255.192.0 serial0/0/1

ip route 10.10.192.56 255.255.255.252 serial0/0/1

Ip route 10.10.0.0 255.255.192.0 serial0/0/1

ip route 10.10.192.64 255.255.255.252 serial0/0/1

ip route 10.10.192.60 255.255.255.252 serial0/0/1

ip route 10.10.128.0 255.255.224.0 serial0/0/1

ip route 10.10.160.0 255.255.240.0 serial0/0/1

ip route 10.10.192.68 255.255.255.252 serial0/0/1

## asgard

Ip route 10.10.192.48 255.255.255.252 serial0/0/0

```
ip route 10.10.176.0 255.255.248.0 serial0/0/0
```

- ip route 10.10.184.0 255.255.248.0 serial0/0/0
- Ip route 10.10.0.0 255.255.192.0 serial0/0/1
- ip route 10.10.192.64 255.255.255.252 serial0/0/1
- ip route 10.10.192.60 255.255.255.252 serial0/0/1
- ip route 10.10.128.0 255.255.224.0 serial0/0/1
- ip route 10.10.160.0 255.255.240.0 serial0/0/1

## **lamentis**

```
Ip route 10.10.192.48 255.255.255.252 serial0/0/0
```

- ip route 10.10.176.0 255.255.248.0 serial0/0/0
- ip route 10.10.184.0 255.255.248.0 serial0/0/0
- ip route 10.10.192.52 255.255.255.252 serial0/0/0
- ip route 10.10.192.56 255.255.255.252 serial0/0/0
- Ip route 10.10.0.0 255.255.192.0 serial0/0/0
- Ip route 10.10.64.0 255.255.192.0 serial0/0/0
- ip route 10.10.192.64 255.255.255.252 serial0/0/0
- ip route 10.10.160.0 255.255.240.0 serial0/0/0
- ip route 10.10.192.68 255.255.255.252 serial0/0/0

#### the void

```
Ip route 10.10.192.48 255.255.255.252 serial0/0/0
```

- ip route 10.10.176.0 255.255.248.0 serial0/0/0
- ip route 10.10.184.0 255.255.248.0 serial0/0/0
- ip route 10.10.192.52 255.255.255.252 serial0/0/0
- ip route 10.10.192.56 255.255.255.252 serial0/0/0
- ip route 10.10.128.0 255.255.224.0 serial0/0/0
- Ip route 10.10.0.0 255.255.192.0 serial0/0/0
- Ip route 10.10.64.0 255.255.192.0 serial0/0/0
- ip route 10.10.192.60 255.255.255.252 serial0/0/0
- ip route 10.10.192.68 255.255.255.252 serial0/0/0

## tva headquarter

- Ip route 10.10.192.48 255.255.255.252 serial0/0/0
- ip route 10.10.176.0 255.255.248.0 serial0/0/0
- ip route 10.10.184.0 255.255.248.0 serial0/0/0

ip route 10.10.192.52 255.255.255.252 serial0/0/0

ip route 10.10.128.0 255.255.224.0 serial0/1/0

Ip route 10.10.64.0 255.255.192.0 serial0/0/0

Ip route 10.10.160.0 255.255.240.0 serial0/0/1

ip route 10.10.192.68 255.255.255.252 serial0/0/0

DHCP excluding first 10 ips from The headquarter=> herbs house, gulf coast, asgard

Router>en

Router#config t

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

Router(config)#ip DHCP excluded-address 10.10.176.1 10.10.176.10

Router(config)#ip DHCP excluded-address 10.10.184.1 10.10.184.10

Router(config)#ip DHCP excluded-address 10.10.64.1 10.10.64.10

# Configuring the headquarter as DHCPV4 server

Router(config)#ip dhcp pool herbs-house-pool

Router(dhcp-config)#network 10.10.176.0 255.255.248.0

Router(dhcp-config)#default-router 10.10.176.1

Router(dhcp-config)#dns-server 10.10.0.5

Router(dhcp-config)#exit

Router(config)#

Router(config)#ip dhcp pool gulf-coast-pool

Router(dhcp-config)#network 10.10.184.0 255.255.248.0

Router(dhcp-config)#default-router 10.10.184.1

Router(dhcp-config)#dns-server 10.10.0.5

Router(dhcp-config)#exit

Router(config)#ip dhcp pool asgard-pool

Router(dhcp-config)#network 10.10.64.0 255.255.192.0

Router(dhcp-config)#default-router 10.10.64.1

Router(dhcp-config)#dns-server 10.10.0.5

Router(dhcp-config)#exit

Configuring herbs house as relay =>

Router>en

Router#conf t

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

Router(config)#interface fa0/0

Router(config-if)#ip helper-address 10.10.192.58

Router(config-if)#exit

Router(config)#interface fa0/0

Router(config-if)#no shutdown

Router(config-if)#exit

# Configuring gulf coast as relay =>

Router>en

Router#conf t

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

Router(config)#interface fa0/0

Router(config-if)#ip helper-address 10.10.192.58

Router(config-if)#no shutdown

Router(config-if)#exit

# Configuring asgard as relay =>

Router>en

Router#conf t

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

Router(config)#interface fa0/0

Router(config-if)#ip helper-address 10.10.192.58

Router(config-if)#no shutdown

Router(config-if)#exit

Device	Interface	IPv4 Address	Subnet Mask	Default Gateway
	Fa0/0	10.10.176.1/21	255.255.248.0	N/A
	Se0/0/0	10.10.192.49/30	255.255.255.252	N/A
Herb's House	Se0/0/1	10.10.192.69	255.255.255.252	N/A
	Fa0/0	10.10.64.1/18	255.255.192.0	N/A
	Se0/0/0	10.10.192.54/30	255.255.255.252	N/A
	Se0/0/1	10.10.192.57/30	255.255.255.252	N/A
Asgard	Se0/1/0	10.10.192.70	255.255.255.252	N/A
	Fa0/0	10.10.184.1/21	255.255.248.0	N/A
	Se0/0/0	10.10.192.50/30	255.255.255.252	N/A
Gulf Coast	Se0/0/1	10.10.192.53/30	255.255.255.252	N/A
Lamentis 1	Fa0/0	10.10.128.1/19	255.255.224.0	N/A
	Se0/0/0	10.10.192.62/30	255.255.255.252	N/A
The Void	Fa0/0	10.10.160.1/20	255.255.240.0	N/A
	Se0/0/0	10.10.192.66/30	255.255.255.252	N/A
	Se0/1/0	182.168.0.2/24	255.255.255.0	N/A
TVA	Fa0/0	10.10.0.1/18	255.255.192.0	N/A
Headquarters	Se0/0/0	10.10.192.58/30	255.255.255.252	N/A
	Se0/0/1	10.10.192.65/30	255.255.255.252	N/A
	Se0/1/0	10.10.192.61/30	255.255.255.252	N/A
ISP	Fa0/0	185.168.0.1/24	255.255.255.0	N/A
	Se0/0/0	182.168.0.1/24	255.255.255.0	N/A
PC0	NIC	10.10.176.3/21	255.255.248.0	10.10.176.1
PC1	NIC	10.10.0.2/18	255.255.192.0	10.10.0.1
PC2	NIC	10.10.160.2/20	255.255.240.0	10.10.160.1

PC3	NIC	10.10.128.3/19	255.255.224.0	10.10.128.1
PC4	NIC	10.10.64.2/18	255.255.192.0	10.10.64.1
PC5	NIC	10.10.184.3/21	255.255.248.0	10.10.184.1
PC6	NIC	10.10.184.2/21	255.255.248.0	10.10.184.1
PC7	NIC	10.10.64.3/18	255.255.192.0	10.10.64.1
PC8	NIC	10.10.176.2/21	255.255.248.0	10.10.176.1
PC9	NIC	10.10.128.2/19	255.255.224.0	10.10.128.1
PC10	NIC	10.10.160.3/20	255.255.240.0	10.10.160.1
PC11	NIC	10.10.0.3/18	255.255.192.0	10.10.0.1
PC12	NIC	185.168.0.2/24	255.255.255.0	185.168.0.1
PC13	NIC	DHCP Assigned	DHCP Assigned	DHCP Assigned
PC14	NIC	DHCP Assigned	DHCP Assigned	DHCP Assigned
PC15	NIC	DHCP Assigned	DHCP Assigned	DHCP Assigned
DNS Server	NIC	10.10.0.5/18	255.255.192.0	10.10.0.1
Web Server	NIC	10.10.0.4/18	255.255.192.0	10.10.0.1
Server0	NIC	185.168.0.3/24	255.255.255.0	N/A

TVA Headquarters – 10.10.0.0/18

Asgard - 10.10.64.0/18

Lamentis 1 – 10.10.128.0/19

The Void – 10.10.160.0/20

Herb's House – 10.10.176.0/21

Gulf Coast – 10.10.184.0/21

S - 10.10.192.0/29

S - 10.10.192.8/29

S-10.10.192.16/29

S - 10.10.192.24/29

S - 10.10.192.32/29

S - 10.10.192.40/29

WR - 10.10.192.48/30

WR - 10.10.192.52/30

WR - 10.10.192.56/30

WR - 10.10.192.60/30

WR - 10.10.192.64/30

WR - 10.10.192.68/30

# 西 Di J Kotka:

Here, TVA Headquarters = TVAH

The Void = TV

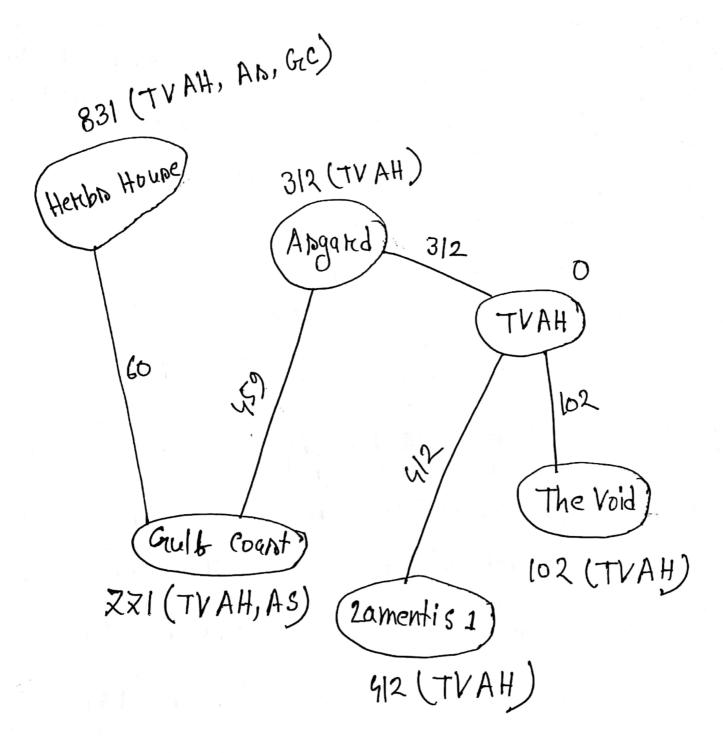
Gult count = GC

Lamentia 1 = La

Herb's House = HH

Abgand = As

					1	0/10/1
step	N'	D(TV), P(TV)	D(AS), P(AS)	D(HH), P(HH)	D (vc), p (vc)	P(La), P(La)
0	TVAH	102 TYAH	1			412 ITVAH
1	TVAH TV		312,TVAH	94X,TVAH	8 x8, TVAH	912,TVAH"
2	TVAH TV AS			924, AS	XXI, AS	412, TVAH
3	TVAH TV AS La			838,20	ZZI AS	
4	TVAH TV AS La GC			831, GC		
5	TVAH TV AS La GC HH					
						18 Y



#	4014	IPS	Given	IPS	H.B	N.B
TVAH	メルス	14228	163	384	19	18
Angand	9250	8514	163	384	19	18
Lamentik	3829	7662	818	)2	13	19
Voi d	1240	2484	4	096	12	20
Herba houre	०२०	2044	2	048	П	21
Gulb	511	1026	2	1048	11	21
coast	5	X		8	3	29
\$1 \$2	3	5		8	3	29
83	3	5		8	3	29
84	3	5		8	3	29
Ss	3	5		8	3	29
Si	3	5		8	3	29
Rı	2	4		4	2	30
	2	4		4	2	30
R2 R3	2	4		4	2	3 D
	2	4		4	2	30
•	2	4		9	2	30
RG .	2	4		4	2	30

# main network = 10.10.0.0/16

