CSE421 Project Topic 3

Group 29
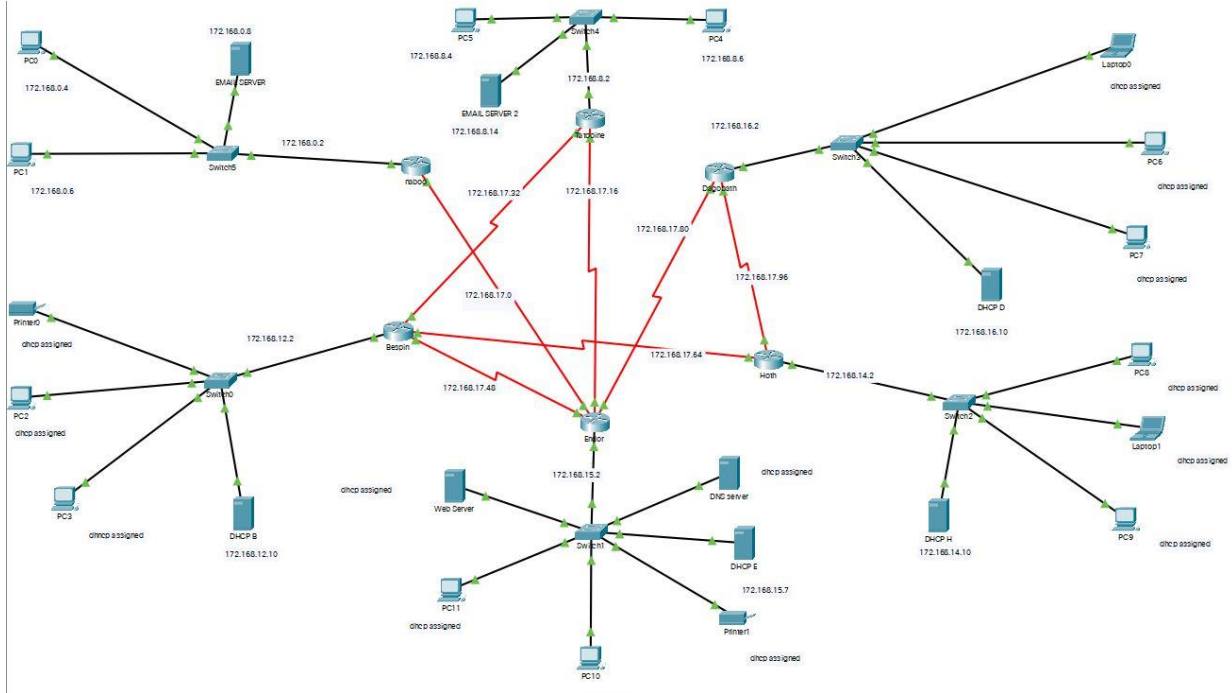
VLSM

Name	Network Address	Slash	Mask
Naboo (1024)	172.168.0.0	/21	255.255.248.0
Tatooine (526)	172.168.8.0	/22	255.255.252.0
Bespin (312)	172.168.12.0	/23	255.255.254.0
Hoth (234)	172.168.14.0	/24	255.255.255.0
Endor (156)	172.168.15.0	/24	255.255.255.0
Dagobath (128)	172.168.16.0	/24	255.255.255.0
Naboo -- Endor	172.168.17.0	/28	255.255.255.240
Endor -- Tatooine	172.168.17.16	/28	255.255.255.240
Tatooine -- Bespin	172.168.17.32	/28	255.255.255.240
Endor -- Bespin	172.168.17.48	/28	255.255.255.240
Bespin -- Hoth	172.168.17.64	/28	255.255.255.240
Dagobath -- Endor	172.168.17.80	/28	255.255.255.240

| Dagobath -- Hoth | 172.168.17.96 | /28 | 255.255.255.240 |

Addressing Table

Device	Interface	IPV4 Address	Subnet Mask	Default Gateway
Naboo	F0/0	172.168.0.2	255.255.248.0	
	S0/0/0	172.168.17.2	255.255.255.240	
Tatooine	F0/0	172.168.8.2	255.255.252.0	
	S0/0/0	172.168.17.36	255.255.255.240	
	S0/0/1	172.168.17.20	255.255.255.240	
Bespin	F0/0	172.168.12.2	255.255.254.0	
	S0/0/0	172.168.17.68	255.255.255.240	
	S0/0/1	172.168.17.34	255.255.255.240	
	S0/1/0	172.168.17.52	255.255.255.240	
Hoth	F0/0	172.168.14.2	255.255.255.0	
	S0/0/0	172.168.17.100	255.255.255.240	
	S0/0/1	172.168.17.66	255.255.255.240	
Endor	F0/0	172.168.15.2	255.255.255.0	
	S0/0/0	172.168.17.4	255.255.255.240	
	S0/0/1	172.168.17.84	255.255.255.240	
	S0/1/0	172.168.17.18	255.255.255.240	
	S0/1/1	172.168.17.50	255.255.255.240	
Dagobath	F0/0	172.168.16.2	255.255.255.0	
	S0/0/0	172.168.17.82	255.255.255.240	
	S0/0/1	172.168.17.98	255.255.255.240	
	S0/1/0	172.168.17.52	255.255.255.248	
PC0	NIC	172.168.0.4	255.255.255.248	172.168.0.2
PC1	NIC	172.168.0.6	255.255.248.0	172.168.0.2
PC2	NIC	DHCP assigned	DHCP assigned	DHCP assigned
PC3	NIC	DHCP assigned	DHCP assigned	DHCP assigned
PC4	NIC	172.168.8.6	255.255.252.0	172.168.8.2
PC5	NIC	172.168.8.4	255.255.252.0	172.168.8.2
PC6	NIC	DHCP assigned	DHCP assigned	DHCP assigned
PC7	NIC	DHCP assigned	DHCP assigned	DHCP assigned
PC8	NIC	DHCP assigned	DHCP assigned	DHCP assigned
PC9	NIC	DHCP assigned	DHCP assigned	DHCP assigned
PC10	NIC	DHCP assigned	DHCP assigned	DHCP assigned
PC11	NIC	DHCP assigned	DHCP assigned	DHCP assigned
Laptop0	NIC	DHCP assigned	DHCP assigned	DHCP assigned
Laptop1	NIC	DHCP assigned	DHCP assigned	DHCP assigned
Printer0	NIC	DHCP assigned	DHCP assigned	DHCP assigned
Printer1	NIC	DHCP assigned	DHCP assigned	DHCP assigned
DHCP D	NIC	172.168.16.10	255.255.255.0	172.168.16.2
DHCP H	NIC	172.168.14.10	255.255.255.0	172.168.14.2
DHCP E	NIC	172.168.15.7	255.255.255.0	172.168.15.2

DHCP B	NIC	172.168.12.10	255.255.254.0	172.168.12.2
WEB SERVER	NIC	DHCP assigned	DHCP assigned	DHCP assigned
DNS SERVER	NIC	DHCP assigned	DHCP assigned	DHCP assigned
EMAIL SERVER	NIC	172.168.0.8	255.255.248.0	172.168.0.2
EMAIL SERVER2	NIC	172.168.8.14	255.255.252.0	172.168.8.2

Commands

Naboo:
en
conf t
RN(config)#ip route 172.168.15.0 255.255.255.0 s0/0/0
RN(config)#ip route 172.168.8.0 255.255.252.0 s0/0/0
RN(config)#ip route 172.168.12.0 255.255.254.0 s0/0/0
RN(config)#ip route 172.168.8.0 255.255.252.0 s0/0/0 130
RN(config)#ip route 172.168.12.0 255.255.254.0 s0/0/0 140
RN(config)#ip route 172.168.16.0 255.255.255.0 s0/0/0
RN(config)#ip route 172.168.14.0 255.255.255.0 s0/0/0
RN(config)#ip route 172.168.12.0 255.255.254.0 s0/0/0

Endor:
en
conf t
Router(config)#ip route 172.168.0.0 255.255.248.0 s0/0/0
Router(config)#ip route 172.168.16.0 255.255.255.0 s0/0/1
Router(config)#ip route 172.168.14.0 255.255.255.0 s0/0/1
Router(config)#ip route 172.168.12.0 255.255.254.0 s0/0/1
Router(config)#ip route 172.168.8.0 255.255.252.0 s0/0/1
Router(config)#ip route 172.168.12.0 255.255.254.0 s0/1/1 150
Router(config)#ip route 172.168.8.0 255.255.252.0 s0/1/0 160

Dagobath:
en
conf t
Router(config)#ip route 172.168.15.0 255.255.255.0 s0/0/0
Router(config)#ip route 172.168.14.0 255.255.255.0 s0/0/1
Router(config)#ip route 172.168.12.0 255.255.254.0 s0/0/1
Router(config)#ip route 172.168.8.0 255.255.252.0 s0/0/1
Router(config)#ip route 172.168.15.0 255.255.255.0 s0/0/1 170
Router(config)#ip route 172.168.0.0 255.255.24.0 s0/0/0
Router(config)#ip route 172.168.0.0 255.255.252.0 s0/0/0
Router(config)#ip route 172.168.8.0 255.255.252.0 s0/0/0 180
Router(config)#ip route 172.168.12.0 255.255.254.0 s0/0/0 190

Hoth:
en
conf t
router rip
version 2
no auto-summary
reditrubute static

redistribute connected
Router(config-router)#network 172.168.14.0
Router(config-router)#network 172.168.17.0
Router(config-router)#network 172.168.17.16
Router(config-router)#network 172.168.17.32
Router(config-router)#network 172.168.17.48
Router(config-router)#network 172.168.17.64
Router(config-router)#network 172.168.17.80
Router(config-router)#network 172.168.17.96

Bespin:
en
conf t
router rip
version 2
no auto-summary
reditrubute static
redistribute connected
Router(config-router)#network 172.168.12.0
Router(config-router)#network 172.168.17.0
Router(config-router)#network 172.168.17.16
Router(config-router)#network 172.168.17.32
Router(config-router)#network 172.168.17.48
Router(config-router)#network 172.168.17.64
Router(config-router)#network 172.168.17.80
Router(config-router)#network 172.168.17.96

Tatooine:

en
conf t
router rip
version 2
no auto-summary
reditrubute static
redistribute connected
Router(config-router)#network 172.168.8.0
Router(config-router)#network 172.168.17.0
Router(config-router)#network 172.168.17.16
Router(config-router)#network 172.168.17.32
Router(config-router)#network 172.168.17.48
Router(config-router)#network 172.168.17.64
Router(config-router)#network 172.168.17.80
Router(config-router)#network 172.168.17.96

Web Lin:
www.bounty.com