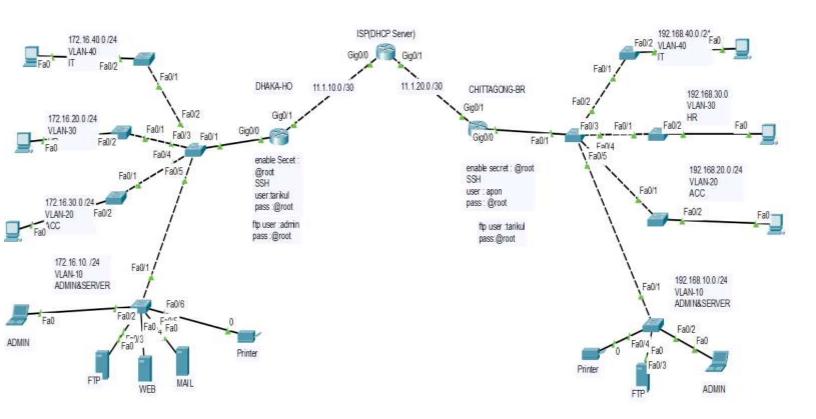
NAME: Tarikul Islam Apon

ID NO: 1288503

BATCH: 65/NSA/IBCS-Primax

PROJECT: HEAD-OFFICE And BRANCH-

**OFFICE Network Lab Configuration** 



## **ISP(As a DHCP Server):**

ip dhcp excluded-address 172.16.10.1 172.16.10.10
ip dhcp excluded-address 192.168.10.1 192.168.10.5
ip unop energed address 1/2/100/10/1
ip dhcp pool VLAN-40-1
network 172.16.40.0 255.255.255.0
default-router 172.16.40.1
dns-server 8.8.8.8
ip dhcp pool VLAN-30-1
network 172.16.30.0 255.255.255.0
default-router 172.16.30.1
dns-server 8.8.8.8
ip dhcp pool VLAN-20-1
network 172.16.20.0 255.255.255.0
default-router 172.16.20.1
dns-server 8.8.8.8
ip dhcp pool VLAN-10-1
network 172.16.10.0 255.255.255.0
default-router 172.16.10.1
dns-server 8.8.8.8
ip dhcp pool VLAN-40-2
network 192.168.40.0 255.255.255.0
default-router 192.168.40.1
dns-server 8.8.8.8
ip dhcp pool VLAN-30-2
network 192.168.30.0 255.255.255.0
default-router 192.168.30.1
dns-server 8.8.8.8
ip dhcp pool VLAN-20-2

network 192.168.20.0 255.255.255.0

default-router 192.168.20.1

dns-server 8.8.8.8

ip dhcp pool VLAN-10-2

network 192.168.10.0 255.255.255.0

default-router 192.168.10.1

dns-server 8.8.8.8

interface GigabitEthernet0/0

ip address 11.1.10.2 255.255.255.252

ip ospf 1 area 0

interface GigabitEthernet0/1

ip address 11.1.20.1 255.255.255.252

ip ospf 1 area 0

## **DHAKA HO:**

## **CORE-1 Switch:**

0x6E 0x8C 0xCC 0x22 0x1F 0xC7

0x63 0x95

I		GigU/2
10	ADMIN&SERVER	active
20	ACC	active
30	HR	active
40	IT	active
1002	fddi-default	active
1003	token-ring-default	active
1004	fddinet-default	active
1005	trnet-default	active
T 7 T 7 3 T	m GTTD MMIT	n in' at n'1 at di n 1 at 1

## **VLAN-40 Switch:**

VTP	Version	capable	;	: :	1	to	2
VTP	version	running	;	: :	1		
		_					-

VTP Domain Name : hyperloop
VTP Pruning Mode : Disabled
VTP Traps Generation : Disabled
Device ID : 0005.5E4D.6700

Configuration last modified by 0.0.0.0 at 3-1-93 00:45:53

#### Feature VLAN:

\_\_\_\_\_

VTP Operating Mode : Client Maximum VLANs supported locally : 255

----, ---, Gig0/1, Gig0/2 10 ADMINESERVER activo

Fa0/2

10	ADMINASERVER	active
20	ACC	active
30	HR	active
40	IT	active
1002	fddi-default	active
1003	token-ring-default	active
1004	fddinet-default	active
1005	trnet-default	active

## **VLAN-30 Switch:**

VTP Version capable : 1 to 2 VTP version running : 1

VTP Domain Name : hyperloop
VTP Pruning Mode : Disabled
VTP Traps Generation : Disabled
Device ID : 0005.5E4D.6700

Configuration last modified by 0.0.0.0 at 3-1-93 00:45:53

#### Feature VLAN:

-----

Maximum VLANs supported locally : 255

10 20 30 40 1002 1003	/1, Gig0/2 ADMIN&SERVER ACC HR IT fddi-default token-ring-default fddinet-default	active active active active active active active	Fa0/2
1004			

## **VLAN-20 Switch:**

VTP Version capable : 1 to 2

VTP version running : 1

VTP Version Tunnelly
VTP Domain Name : nyperroop
VTP Pruning Mode : Disabled
VTP Traps Generation : Disabled : 0005.5E4I : hyperloop

: 0005.5E4D.6700

Configuration last modified by 0.0.0.0 at 3-1-93 00:45:53

#### Feature VLAN:

VTP Operating Mode : Client
Maximum VLANs supported locally : 255

---, --, -Gig0/1, Gig0/2 10 ADMIN&SERVER active 20 ACC active Fa0/2 30 HR active 40 IT active 1002 fddi-default active 1003 token-ring-default active 1004 fddinet-default active 1005 trnet-default active

## **VLAN-10 Switch:**

VTP Version capable : 1 to 2 : 1

VTP version running VTP Domain Name VTP Pruning Mode : hyperloop
: Disabled VTP Fruning Mode VTP Traps Generation : Disabled

Device ID : 0005.5E4D.6700

Configuration last modified by 0.0.0.0 at 3-1-93 00:45:53

## Feature VLAN:

VTP Operating Mode : Client Maximum VLANs supported locally : 255

	ADMIN&SERVER	active	Fa0/2,	Fa0/3,
Fa0/	1, Fa0/5		Fa0/6	
20	ACC	active		
30	HR	active		
40	IT	active		
1002	fddi-default	active		
1003	token-ring-default	active		
1004	fdd:ma+ dafaml+	a at i ma		

# **SwitchPort security:**

VLAN-10(config)#int f0/2
VLAN-10(config-if)#switchport mode access
VLAN-10(config-if)#switchport port-security mac-address sticky
VLAN-10(config-if)#switchport port-security maximum 1
VLAN-10(config-if)#switchport port-security violation shutdown
VLAN-10(config-if)#exit

# **Router:**

hostname DHAKA-HO
enable secret 5 \$1\$mERr\$JrSDT5XRx0PeygNeH/OON.
username tarikul password 0 @root
ip ssh version 2
ip domain-name hyperloop.org
interface GigabitEthernet0/0
no ip address
ip ospf 1 area 0
duplex auto
speed auto

interface GigabitEthernet0/0.10
encapsulation dot1Q 10
ip address 172.16.10.1 255.255.255.0
ip helper-address 11.1.10.2
ip ospf 1 area 0
interface GigabitEthernet0/0.20
encapsulation dot1Q 20
ip address 172.16.20.1 255.255.255.0
ip helper-address 11.1.10.2
ip ospf 1 area 0
interface GigabitEthernet0/0.30
encapsulation dot1Q 30
ip address 172.16.30.1 255.255.255.0
ip helper-address 11.1.10.2
ip ospf 1 area 0
interface GigabitEthernet0/0.40
encapsulation dot1Q 40
ip address 172.16.40.1 255.255.255.0
ip helper-address 11.1.10.2
ip ospf 1 area 0
interface GigabitEthernet0/1
ip address 11.1.10.1 255.255.252
ip ospf 1 area 0
line vty 0 1

## **CHITTAGONG-BR:**

## **CORE-2 Switch:**

```
: 1 to 2
VTP Version capable
VTP version running
                                : 1
                              hyperloopDisabled
VTP Domain Name

VTP Pruning Mode : Disabled

VTP Traps Generation : Disabled
: 000A.F3D3
VTP Domain Name
                                : 000A.F3D3.0200
Configuration last modified by 0.0.0.0 at 3-1-93 00:45:53
Local updater ID is 0.0.0.0 (no valid interface found)
Feature VLAN:
_____
                           : Server
VTP Operating Mode
Maximum VLANs supported locally : 255
Number of existing VLANs : 9
Configuration Revision : 8
                                  : 0x69 0x1A 0xC2 0x36 0x93 0x75
MD5 digest
0xB8 0x09
                                  0x6E 0x8C 0xCC 0x22 0x1F 0xC7
0x63 0x95
```

1		GigU/2
10	ADMIN&SERVER	active
20	ACC	active
30	HR	active
40	IT	active
1002	fddi-default	active
1003	token-ring-default	active
1004	fddinet-default	active
1005	trnet-default	active
1004	fddinet-default	

#### **VLAN-40 Switch:**

VTP Version capable : 1 to 2

VTP version running : 1

VTP Domain Name : hyperloop

VTP Pruning Mode : Disabled

VTP Traps Generation : Disabled : 0005.5E4D.6700

Configuration last modified by 0.0.0.0 at 3-1-93 00:45:53

#### Feature VLAN:

-----

VTP Operating Mode : Client
Maximum VLANs supported locally : 255

----, ---, ----,

Gig0/1, Gig0/2

10 ADMIN&SERVER active 20 ACC active 30 HR active

40 IT active Fa0/2

1002 fddi-default active 1003 token-ring-default active 1004 fddinet-default 1005 trnet-default active

## **VLAN-30 Switch:**

VTP Version capable VTP version running : 1 to 2

: 1

VTP Domain Name : hyperloop
VTP Pruning Mode : Disabled
VTP Traps Generation : Disabled
Device ID : 0005.5E4D.6700

Configuration last modified by 0.0.0.0 at 3-1-93 00:45:53

#### Feature VLAN:

VTP Operating Mode : Client
Maximum VLANs supported locally : 255

Gig	0/1, Gig0/2		
10	ADMIN&SERVER	active	
20	ACC	active	
30	HR	active	Fa0/2
40	IT	active	
100	2 fddi-default	active	
100	3 token-ring-default	active	
	4 fddinet-default	active	
100	5 trnet-default	active	

## **VLAN-20 Switch:**

VTP Version capable : 1 to 2

VTP version running : 1

VTP Domain Name : hyperloop
VTP Pruning Mode : Disabled
VTP Traps Generation : Disabled

Device ID : 0005.5E4D.6700

Configuration last modified by 0.0.0.0 at 3-1-93 00:45:53

## Feature VLAN :

VTP Operating Mode : Client
Maximum VLANs supported locally : 255

Maximum VLANs supported locally : 255

_			
Gig0/	<sup>1</sup> , Gig0/2		
10	ADMIN&SERVER	active	
20	ACC	active	Fa0/2
30	HR	active	
40	IT	active	
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

## **VLAN-10 Switch:**

VTP Version capable : 1 to 2

VTP version running : 1

VTP Domain Name : hyperloop
VTP Pruning Mode : Disabled
VTP Traps Generation : Disabled

Device ID : 0005.5E4D.6700

Configuration last modified by 0.0.0.0 at 3-1-93 00:45:53

Feature VLAN :

VTP Operating Mode : Client
Maximum VLANs supported locally : 255

## **Switch-Port Security:**

VLAN-10(config)#int f0/2

VLAN-10(config-if)#switchport mode access

VLAN-10(config-if)#switchport port-security mac-address sticky

VLAN-10(config-if)#switchport port-security maximum 1

VLAN-10(config-if)#switchport port-security violation shutdown

VLAN-10(config-if)#exit

1	ADMIN&SERVER	active	Fa0/2,	Fa0/3,
Fa0/4	4, Fa0/5		Fa0/6	
20	ACC	active		
30	HR	active		
40	IT	active		
1002	fddi-default	active		
1003	token-ring-default	active		
1004	fdd: ma+ dafam1+	a atima		

# **Router:**

hostname CHITTAGONG-BR		
enable secret 5 \$1\$mERr\$JrSDT5XRx0PeygNeH/OON.		
onwere secrete \$1\$mm2tt\$\$155 Territation of \$1.000.		
username apon password 0 @root		
ip ssh version 2		
ip domain-name hyperloop.org		
interface GigabitEthernet0/0		
no ip address		
ip ospf 1 area 0		
interface GigabitEthernet0/0.10		
encapsulation dot1Q 10		
ip address 192.168.10.1 255.255.255.0		
ip helper-address 11.1.20.1		
ip ospf 1 area 0		
interface GigabitEthernet0/0.20		
encapsulation dot1Q 20		
ip address 192.168.20.1 255.255.255.0		
ip helper-address 11.1.20.1		
ip ospf 1 area 0		
interface GigabitEthernet0/0.30		
encapsulation dot1Q 30		
ip address 192.168.30.1 255.255.255.0		
ip helper-address 11.1.20.1		

ip ospf 1 area 0			
interface GigabitEthernet0/0.40			
encapsulation dot1Q 40			
ip address 192.168.40.1 255.255.255.0			
ip helper-address 11.1.20.1			
ip ospf 1 area 0			
interface GigabitEthernet0/1			
ip address 11.1.20.2 255.255.255.252			
o ospf 1 area 0			
!			
interface Vlan1			
no ip address			
shutdown			
line vty 0 2			
login local			