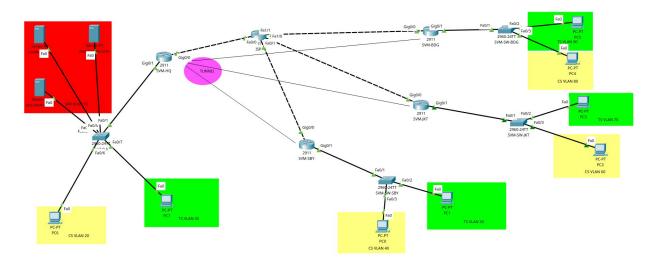
Laporang Pengerjaan Soal Nomor 1

ID Peserta: 01

Nama: Achmad Alif Nasrulloh

Topologi:



DEVICE	INTERFACE	KETERANGAN	IP ADDRESS
ISP	fa0/0		103.111.248.1/30
	fa0/1		103.111.248.5/30
	fa1/0		103.111.248.9/30
	fa0/1	3	103.111.248.13/30
SVM-HQ	gig0/0	NAT	103.111.248.2/30
	gig0/1.10	VLAN10 (SRV)	103.111.249.1/24
	gig0/1.20	VLAN20 (CS)	192.168.20.1/24
	gig0/1.30	VLAN30 (TS)	192.168.30.1/24
	tun0	TO-SVM-SBY	10.10.10.1/30
	tun1	TO-SVM-JKT	10.10.10.5/30
	tun2	TO-SVM-BDG	10.10.10.9/30
SVM-SBY	gig0/0	NAT	103.111.248.6/30
	gig0/1	VLAN 40 (CS)	192.168.40.1/24
		VLAN 50 (TS)	192.168.50.1/24
	tun0	TO-SVM-HQ	10.10.10.2/30
SVM-JKT	gig0/0	NAT	103.111.248.10/30
	gig0/1	VLAN 60 (CS)	192.168.60.1/24
		VLAN 70 (TS)	192.168.70.1/24
	tun0	TO-SVM-HQ	10.10.10.6/30
SVM-BDG	gig0/0	NAT	103.111.248.14/30
	gig0/1	VLAN 80 (CS)	192.168.80.1/24
		VLAN 90 (TS)	192.168.90.1/24
	tun0	TO-SVM-HQ	10.10.10.10/30
DNS.SEVIMA.COM		4	103.111.249.2/24
SEVIMA.COM			103.111.249.3/24
MAIL.SEVIMA.COM			103.111.249.4/24
PC0			DHCP
PC1		3	DHCP
PC2			DHCP
PC3			DHCP
PC4			DHCP
PC5		5	DHCP
PC6			DHCP
PC7			DHCP
			30 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -

Konfigurasi:

KONFIGURASI ISP (BGP)

ISP(config)#do sh run
Building configuration...

Current configuration: 1222 bytes

!

```
version 15.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
hostname ISP
!
no ip cef
no ipv6 cef
!
!
license udi pid CISCO2811/K9 sn FTX101789JP-
!
!
spanning-tree mode pvst
interface FastEthernet0/0
ip address 103.111.248.1 255.255.255.252
duplex auto
speed auto
interface FastEthernet0/1
ip address 103.111.248.5 255.255.255.252
```

```
duplex auto
speed auto
interface FastEthernet1/0
ip address 103.111.248.9 255.255.255.252
duplex auto
speed auto
interface FastEthernet1/1
ip address 103.111.248.13 255.255.255.252
duplex auto
speed auto
interface Vlan1
no ip address
shutdown
router bgp 100
bgp log-neighbor-changes
no synchronization
neighbor 103.111.248.2 remote-as 101
neighbor 103.111.248.6 remote-as 102
neighbor 103.111.248.10 remote-as 103
neighbor 103.111.248.114 remote-as 104
network 103.111.248.0 mask 255.255.255.252
network 103.111.248.4 mask 255.255.255.252
network 103.111.248.8 mask 255.255.255.252
network 103.111.248.12 mask 255.255.255.252
ip classless
ip flow-export version 9
!
line con 0
line aux 0
line vty 0 4
login
```

```
!
!
end
```

```
SVM-HQ (BGP, OSPF, TUNNEL, NAT, VLAN, DHCP SERVER)
SVM-HQ#sh run
Building configuration...
Current configuration: 2279 bytes
version 15.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
hostname SVM-HQ
!
ip dhcp pool CS
network 192.168.20.0 255.255.255.0
default-router 192.168.20.1
dns-server 103.111.249.2
ip dhcp pool TS
network 192.168.30.0 255.255.255.0
default-router 192.168.30.1
dns-server 103.111.249.2
no ip cef
no ipv6 cef
!
!
license udi pid CISCO2911/K9 sn FTX1524N1XZ-
!
!
!
!
!
```

```
!
!
spanning-tree mode pvst
!
interface Tunnel0
ip address 10.10.10.1 255.255.255.252
mtu 1476
tunnel source GigabitEthernet0/0
tunnel destination 103.111.248.6
interface Tunnel1
ip address 10.10.10.5 255.255.255.252
mtu 1476
tunnel source GigabitEthernet0/0
tunnel destination 103.111.248.10
interface Tunnel2
ip address 10.10.10.9 255.255.255.252
mtu 1476
tunnel source GigabitEthernet0/0
tunnel destination 103.111.248.14
interface GigabitEthernet0/0
ip address 103.111.248.2 255.255.255.252
ip nat outside
duplex auto
speed auto
interface GigabitEthernet0/1
no ip address
duplex auto
speed auto
interface GigabitEthernet0/1.10
encapsulation dot1Q 10
ip address 103.111.249.1 255.255.255.0
```

```
interface GigabitEthernet0/1.20
encapsulation dot1Q 20
ip address 192.168.20.1 255.255.255.0
ip nat inside
interface GigabitEthernet0/1.30
encapsulation dot1Q 30
ip address 192.168.30.1 255.255.255.0
ip nat inside
interface GigabitEthernet0/2
no ip address
duplex auto
speed auto
shutdown
interface Vlan1
no ip address
shutdown
router ospf 101
log-adjacency-changes
network 10.10.10.0 0.0.0.3 area 0
network 192.168.20.0 0.0.0.255 area 0
network 192.168.30.0 0.0.0.255 area 0
network 10.10.10.4 0.0.0.3 area 0
network 10.10.10.8 0.0.0.3 area 0
router bgp 101
bgp log-neighbor-changes
no synchronization
neighbor 103.111.248.1 remote-as 100
network 103.111.248.0 mask 255.255.255.252
network 103.111.249.0 mask 255.255.255.0
ip nat inside source list NAT interface GigabitEthernet0/0 overload
ip classless
ip route 0.0.0.0 0.0.0.0 103.111.248.1
ip flow-export version 9
ip access-list standard NAT
permit 192.168.20.0 0.0.0.255
permit 192.168.30.0 0.0.0.255
```

```
!
!
!
!
!
line con 0
!
line aux 0
!
line vty 0 4
login
!
!
!
```

```
SVM-SBY (BGP, OSPF, TUNNEL, NAT, VLAN, DHCP SERVER)
SVM-SBY#sh run
Building configuration...
Current configuration: 1832 bytes
version 15.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
hostname SVM-SBY
!
Ţ
ip dhcp excluded-address 192.168.40.1
ip dhcp excluded-address 192.168.50.1
ip dhcp pool CS
network 192.168.40.0 255.255.255.0
default-router 192.168.40.1
dns-server 103.111.249.2
ip dhcp pool TS
network 192.168.50.0 255.255.255.0
default-router 192.168.50.1
dns-server 103.111.249.2
Ţ
ip cef
```

```
no ipv6 cef
Ţ
Ţ
license udi pid CISCO2911/K9 sn FTX1524P1T5-
ļ
Ţ
Ţ
spanning-tree mode pvst
Ţ
ļ
interface Tunnel0
ip address 10.10.10.2 255.255.255.252
mtu 1476
tunnel source GigabitEthernet0/0
tunnel destination 103.111.248.2
interface GigabitEthernet0/0
ip address 103.111.248.6 255.255.255.252
ip nat outside
duplex auto
speed auto
interface GigabitEthernet0/1
no ip address
duplex auto
speed auto
interface GigabitEthernet0/1.40
encapsulation dot1Q 40
ip address 192.168.40.1 255.255.255.0
ip nat inside
interface GigabitEthernet0/1.50
encapsulation dot1Q 50
ip address 192.168.50.1 255.255.255.0
ip nat inside
```

```
interface GigabitEthernet0/2
no ip address
duplex auto
speed auto
shutdown
interface Vlan1
no ip address
shutdown
router ospf 101
log-adjacency-changes
network 192.168.40.0 0.0.0.255 area 0
network 10.10.10.0 0.0.0.3 area 0
network 192.168.50.0 0.0.0.255 area 0
router bgp 102
bgp log-neighbor-changes
no synchronization
neighbor 103.111.248.5 remote-as 100
network 103.111.248.4 mask 255.255.255.252
ip nat inside source list NAT interface GigabitEthernet0/0 overload
ip classless
ip route 0.0.0.0 0.0.0.0 103.111.248.5
ip flow-export version 9
ip access-list standard NAT
permit 192.168.40.0 0.0.0.255
!
line con 0
line aux 0
line vty 0 4
login
Ţ
end
```

SVM-JKT (BGP, OSPF, TUNNEL, NAT, VLAN, DHCP SERVER) SVM-JKT#sh run

```
Building configuration...
Current configuration: 1864 bytes
version 15.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
hostname SVM-JKT
ļ
ļ
ip dhcp excluded-address 192.168.60.1
ip dhcp excluded-address 192.168.70.1
ip dhcp pool CS
network 192.168.60.0 255.255.255.0
default-router 192.168.60.1
dns-server 103.111.249.2
ip dhcp pool TS
network 192.168.70.0 255.255.255.0
default-router 192.168.70.1
dns-server 103.111.249.2
ļ
ip cef
no ipv6 cef
ļ
Ţ
license udi pid CISCO2911/K9 sn FTX1524210R-
ļ
Ţ
ļ
Ţ
ļ
spanning-tree mode pvst
ļ
ļ
```

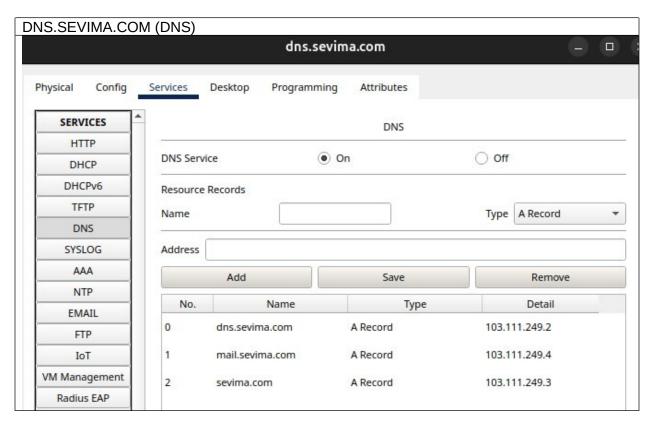
```
interface Tunnel0
ip address 10.10.10.6 255.255.255.252
mtu 1476
tunnel source GigabitEthernet0/0
tunnel destination 103.111.248.2
interface GigabitEthernet0/0
ip address 103.111.248.10 255.255.255.252
ip nat outside
duplex auto
speed auto
interface GigabitEthernet0/1
no ip address
duplex auto
speed auto
interface GigabitEthernet0/1.60
encapsulation dot1Q 60
ip address 192.168.60.1 255.255.255.0
ip nat inside
interface GigabitEthernet0/1.70
encapsulation dot1Q 70
ip address 192.168.70.1 255.255.255.0
ip nat inside
interface GigabitEthernet0/2
no ip address
duplex auto
speed auto
shutdown
interface Vlan1
no ip address
shutdown
router ospf 101
log-adjacency-changes
network 10.10.10.4 0.0.0.3 area 0
network 192.168.60.0 0.0.0.255 area 0
network 192.168.70.0 0.0.0.255 area 0
router bgp 103
bgp log-neighbor-changes
no synchronization
neighbor 103.111.248.9 remote-as 100
network 103.111.248.8 mask 255.255.255.252
```

```
SVM-BDG (BGP, OSPF, TUNNEL, NAT, VLAN, DHCP SERVER)
SVM-BDG#sh run
Building configuration...
Current configuration: 1645 bytes
version 15.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
hostname SVM-BDG
!
ļ
ip dhcp pool CS
network 192.168.80.0 255.255.255.0
default-router 192.168.80.1
dns-server 103.111.249.2
ip dhcp pool TS
network 192.168.90.0 255.255.255.0
```

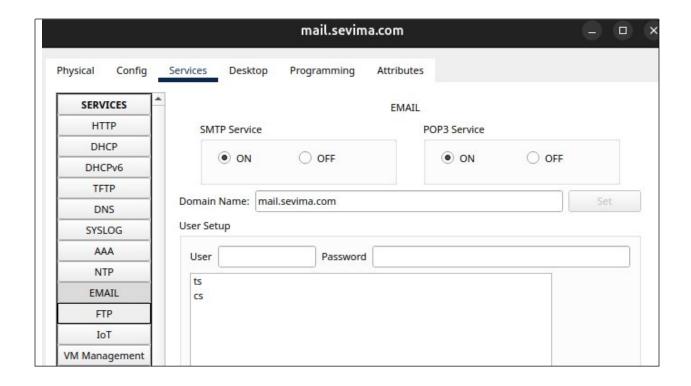
```
default-router 192.168.90.1
dns-server 103.111.249.2
Ţ
ip cef
no ipv6 cef
ļ
Ţ
license udi pid CISCO2911/K9 sn FTX152429R3-
ļ
İ
Ţ
spanning-tree mode pvst
ļ
ļ
interface Tunnel0
ip address 10.10.10.10 255.255.255.252
mtu 1476
tunnel source GigabitEthernet0/0
tunnel destination 103.111.248.2
interface GigabitEthernet0/0
ip address 103.111.248.14 255.255.255.252
ip nat outside
duplex auto
speed auto
interface GigabitEthernet0/1
no ip address
duplex auto
speed auto
interface GigabitEthernet0/1.80
encapsulation dot1Q 80
ip address 192.168.80.1 255.255.255.0
```

```
ip nat inside
interface GigabitEthernet0/1.90
encapsulation dot1Q 90
ip address 192.168.90.1 255.255.255.0
ip nat inside
interface GigabitEthernet0/2
no ip address
duplex auto
speed auto
shutdown
interface Vlan1
no ip address
shutdown
router ospf 101
log-adjacency-changes
network 10.10.10.8 0.0.0.3 area 0
network 192.168.80.0 0.0.0.255 area 0
network 192.168.90.0 0.0.0.255 area 0
ip nat inside source list NAT interface GigabitEthernet0/0 overload
ip classless
ip route 0.0.0.0 0.0.0.0 103.111.248.13
ip flow-export version 9
ip access-list standard NAT
permit 192.168.80.0 0.0.0.255
permit 192.168.90.0 0.0.0.255
ļ
line con 0
line aux 0
line vty 0 4
login
ļ
ļ
end
```

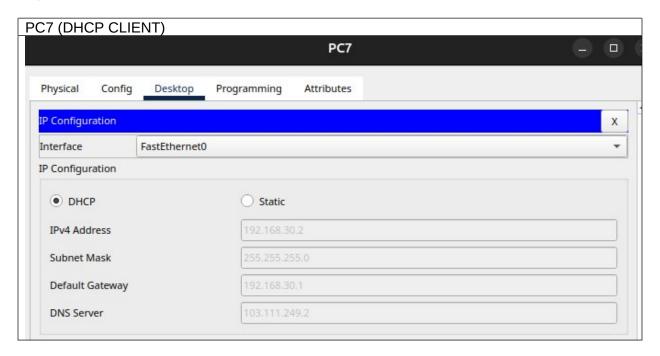




MAIL.SEVIMA.COM (MAIL)



Uji Coba:



PC7 (DNS & WEB)

