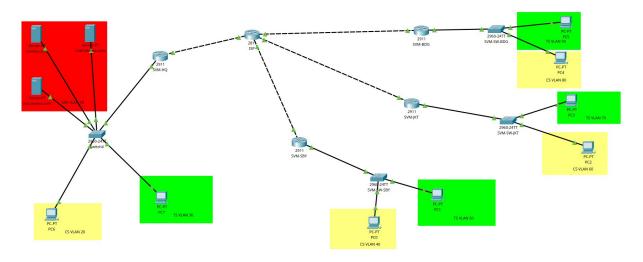
Laporang Pengerjaan Soal Nomor 1

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		103.111.248.13/30
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
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
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
DNS.SEVIMA.COM			103.111.249.2/24
SEVIMA.COM			103.111.249.3/24
MAIL.SEVIMA.COM			103.111.249.4/24
PC0			DHCP
PC1			DHCP
PC2			DHCP
PC3			DHCP
PC4			DHCP
PC5			DHCP
PC6	The state of the s		DHCP
PC7			DHCP

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, NAT, VLAN, DHCP SERVER)
SVM-HQ(config)#do sh run
Building configuration...
Current configuration: 1636 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 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 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
!
!
!
end
```

```
SVM-SBY (BGP, NAT, VLAN, DHCP SERVER)
SVM-SBY(config)#do sh run
Building configuration...
Current configuration: 1539 bytes
```

```
version 15.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
hostname SVM-SBY
!
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
!
ip cef
no ipv6 cef
!
license udi pid CISCO2911/K9 sn FTX1524P1T5-
!
!
!
!
spanning-tree mode pvst
```

```
!
!
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 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
```

```
SVM-JKT (BGP, NAT, VLAN, DHCP SERVER)
SVM-JKT(config)#do sh run
Building configuration...
Current configuration: 1571 bytes
version 15.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
hostname SVM-JKT
Ţ
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
```

```
Ţ
ip cef
no ipv6 cef
ļ
ļ
license udi pid CISCO2911/K9 sn FTX1524210R-
ļ
ļ
Ţ
spanning-tree mode pvst
Ţ
ļ
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 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
ip nat inside source list NAT interface GigabitEthernet0/0 overload
ip classless
ip route 0.0.0.0 0.0.0.0 103.111.248.9
ip flow-export version 9
ip access-list standard NAT
permit 192.168.60.0 0.0.0.255
permit 192.168.70.0 0.0.0.255
ļ
ļ
line con 0
line aux 0
line vty 0 4
login
ļ
ļ
end
```

```
SVM-BDG (BGP, NAT, VLAN, DHCP SERVER)

SVM-BDG(config)#do sh run

Building configuration...

Current configuration : 1351 bytes
!

version 15.1

no service timestamps log datetime msec

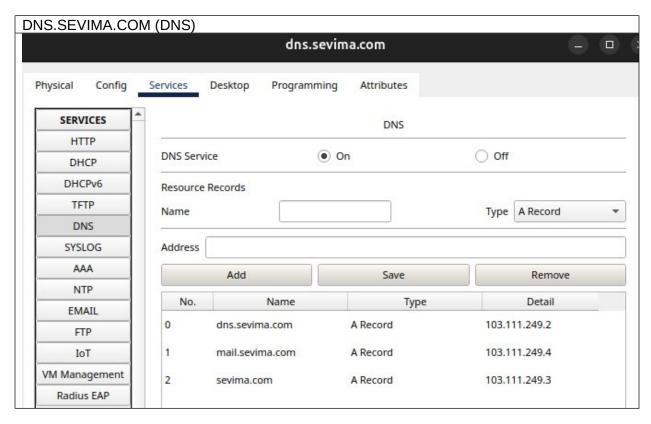
no service timestamps debug datetime msec
```

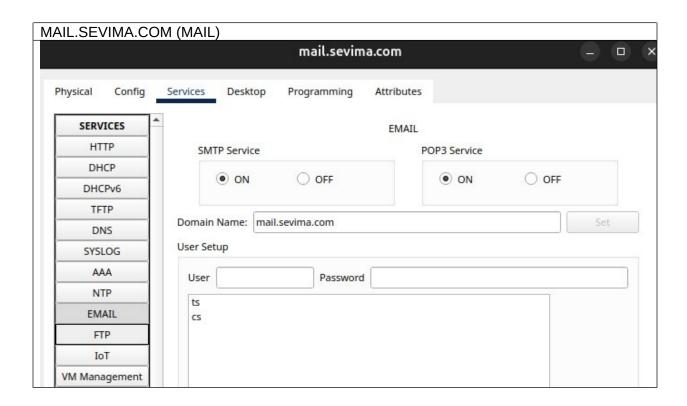
```
no service password-encryption
hostname SVM-BDG
!
!
ip dhcp pool CS
network 192.168.80.0 255.255.255.0
default-router 192.168.80.1
dns-server 103.111.249.2
ip dhcp pool TS
network 192.168.90.0 255.255.255.0
default-router 192.168.90.1
dns-server 103.111.249.2
!
!
ip cef
no ipv6 cef
!
!
license udi pid CISCO2911/K9 sn FTX152429R3-
!
!
spanning-tree mode pvst
!
!
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
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
!
!
line con 0
```

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







Uji Coba:

