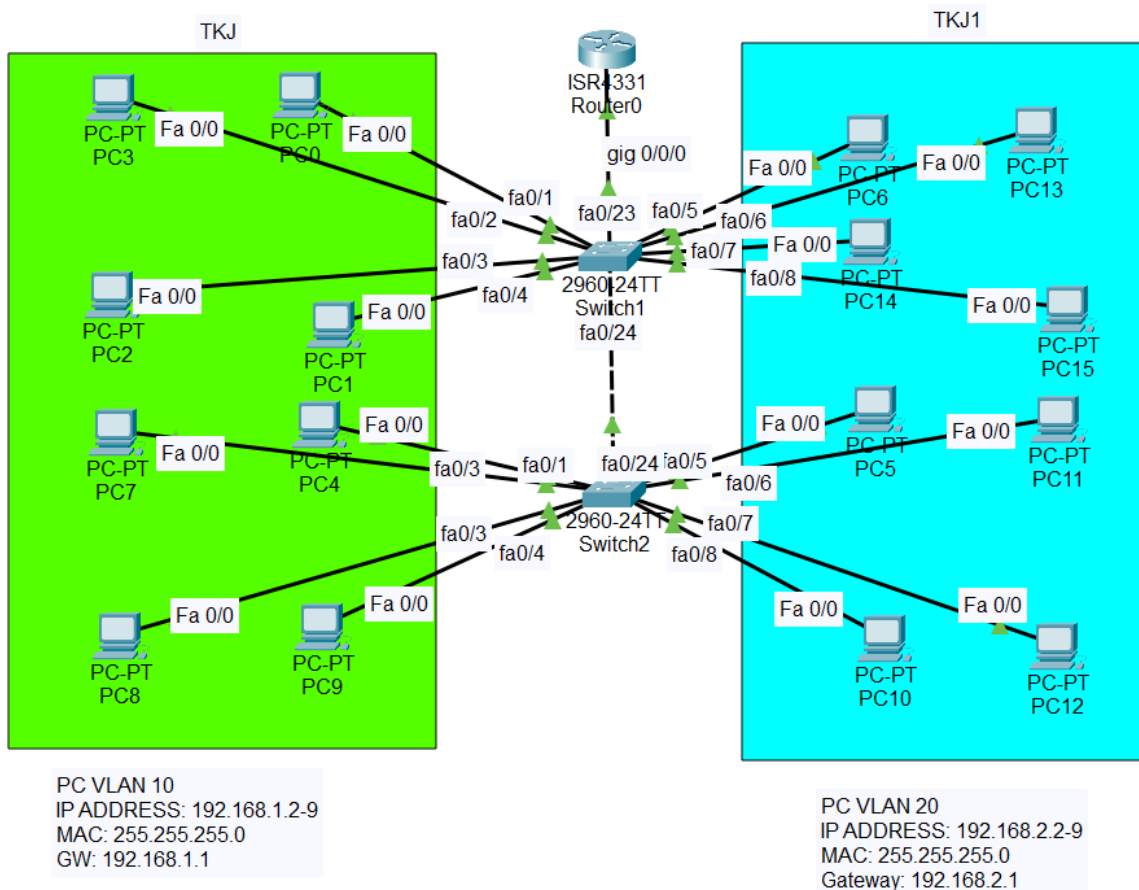




Laporan Konfigurasi VLAN

Struktur Topologi Jaringan



Konfigurasi Switch 1

```
Switch(config)#vlan 10
Switch(config-vlan)#
%LINK-5-CHANGED: Interface Vlan10, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan10, changed state to up

Switch(config-vlan)#name tkj
Switch(config-vlan)#exit
Switch(config)#vlan 20
Switch(config-vlan)#name tkj1
Switch(config-vlan)#exit
Switch(config)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

Switch(config)#interface vlan 10
Switch(config-if)#
Switch(config-if)#int range fa
%LINK-3-UPDOWN: Interface FastEthernet0/3, changed state to down
```



```
Switch(config-if)#int range fa0/1-fa0/4
Switch(config-if-range)#switchport mode access
Switch(config-if-range)#switchport access vlan 10
Switch(config-if-range)#exit
Switch(config)#interface vlan 20
Switch(config-if)#
%LINK-5-CHANGED: Interface Vlan20, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan20, changed state to up

Switch(config-if)#int range fa0/5-fa0/8
Switch(config-if-range)#switchport mode access
Switch(config-if-range)#switchport access vlan 20
Switch(config-if-range)#exit
Switch(config)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
```

Konfigurasi Switch 2

```
Switch>enable
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#int fa0/24
Switch(config-if)#switchport mode trunk
Switch(config-if)#exit
Switch(config)#vlan 10
Switch(config-vlan)#name tkj
Switch(config-vlan)#exit
Switch(config)#vlan 20
Switch(config-vlan)#name tkj1
Switch(config-vlan)#exit
Switch(config)#

Switch(config)#interface vlan 10
Switch(config-if)#
Switch(config-if)#int range fa0/1-fa0/4
Switch(config-if-range)#switchport mode access
Switch(config-if-range)#switchport access vlan 10
Switch(config-if-range)#exit
Switch(config)#interface vlan 20
Switch(config-if)#

Switch(config-if)#int range fa0/5-fa0/8
Switch(config-if-range)#switchport mode access
Switch(config-if-range)#switchport access vlan 20
Switch(config-if-range)#exit
Switch(config)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
```

Konfigurasi Router 0



```
Router>enable
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#interface fa0/0
%Invalid interface type and number
Router(config)#interface fa0/0/0
%Invalid interface type and number
Router(config)#interface ga0/0/0

Router(config)#interface gig0/0/0
Router(config-if)#no shutdown

Router(config-if)#exit
Router(config)#interface gig0/0/0.10
Router(config-subif)#
Router(config-subif)#encapsulation dot1Q 10
Router(config-subif)#ip address 192.168.1.1 255.255.255.0
Router(config-subif)#exit
Router(config)#interface gig0/0/0.20
Router(config-subif)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0/0.20, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/0.20, changed state to up

Router(config-subif)#encapsulation dot1Q 20
Router(config-subif)#ip address 192.168.2.1 255.255.255.0
Router(config-subif)#exit
Router(config)#
```

Hasil Setting VLAN

Router 0

Device Name: Router0
Device Model: ISR4331
Hostname: Router

Port	Link	VLAN	IP Address	IPv6 Address	MAC Address
GigabitEthernet0/0/0	Up	--	<not set>	<not set>	0001.C772.5E01
GigabitEthernet0/0/0.10	Up	--	192.168.1.1/24	<not set>	0001.C772.5E01
GigabitEthernet0/0/0.20	Up	--	192.168.2.1/24	<not set>	0001.C772.5E01
GigabitEthernet0/0/1	Down	--	<not set>	<not set>	0001.C772.5E02
GigabitEthernet0/0/2	Down	--	<not set>	<not set>	0001.C772.5E03
GigabitEthernet0/1/0	Up	1	--	<not set>	0005.5EAD.0801
GigabitEthernet0/1/1	Up	1	--	<not set>	0005.5EAD.0802
GigabitEthernet0/1/2	Up	1	--	<not set>	0005.5EAD.0803
GigabitEthernet0/1/3	Up	1	--	<not set>	0005.5EAD.0804
GigabitEthernet0/2/0	Up	1	--	<not set>	0001.9622.9901
GigabitEthernet0/2/1	Up	1	--	<not set>	0001.9622.9902
GigabitEthernet0/2/2	Up	1	--	<not set>	0001.9622.9903
GigabitEthernet0/2/3	Up	1	--	<not set>	0001.9622.9904
Vlan1	Down	1	<not set>	<not set>	000C.CF9B.D78A

Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > Router0

**Switch 1**

```
Device Name: Switch1
Custom Device Model: 2960 IOS15
Hostname: Switch

Port          Link    VLAN  IP Address    MAC Address
FastEthernet0/1    Up      10    --            0060.2F13.1501
FastEthernet0/2    Up      10    --            0060.2F13.1502
FastEthernet0/3    Up      10    --            0060.2F13.1503
FastEthernet0/4    Up      10    --            0060.2F13.1504
FastEthernet0/5    Up      20    --            0060.2F13.1505
FastEthernet0/6    Up      20    --            0060.2F13.1506
FastEthernet0/7    Up      20    --            0060.2F13.1507
FastEthernet0/8    Up      20    --            0060.2F13.1508
FastEthernet0/9    Down    1     --            0060.2F13.1509
FastEthernet0/10   Down    1     --            0060.2F13.150A
FastEthernet0/11   Down    1     --            0060.2F13.150B
FastEthernet0/12   Down    1     --            0060.2F13.150C
FastEthernet0/13   Down    1     --            0060.2F13.150D
FastEthernet0/14   Down    1     --            0060.2F13.150E
FastEthernet0/15   Down    1     --            0060.2F13.150F
FastEthernet0/16   Down    1     --            0060.2F13.1510
FastEthernet0/17   Down    1     --            0060.2F13.1511
FastEthernet0/18   Down    1     --            0060.2F13.1512
FastEthernet0/19   Down    1     --            0060.2F13.1513
FastEthernet0/20   Down    1     --            0060.2F13.1514
FastEthernet0/21   Down    1     --            0060.2F13.1515
FastEthernet0/22   Down    1     --            0060.2F13.1516
FastEthernet0/23   Up      --    --            0060.2F13.1517
FastEthernet0/24   Up      --    --            0060.2F13.1518
GigabitEthernet0/1 Down    1     --            0060.2F13.1519
GigabitEthernet0/2 Down    1     --            0060.2F13.151A
Vlan1            Down    1     <not set>     00D0.D379.065E
Vlan10           Up      10    <not set>     00D0.D379.0601
Vlan20           Up      20    <not set>     00D0.D379.0602

Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > Switch1
```

Switch 2







```
Device Name: Switch2
Custom Device Model: 2960 IOS15
Hostname: Switch

Port          Link    VLAN  IP Address    MAC Address
FastEthernet0/1    Up      10    --            000A.F308.A801
FastEthernet0/2    Up      10    --            000A.F308.A802
FastEthernet0/3    Up      10    --            000A.F308.A803
FastEthernet0/4    Up      10    --            000A.F308.A804
FastEthernet0/5    Up      20    --            000A.F308.A805
FastEthernet0/6    Up      20    --            000A.F308.A806
FastEthernet0/7    Up      20    --            000A.F308.A807
FastEthernet0/8    Up      20    --            000A.F308.A808
FastEthernet0/9    Down    1     --            000A.F308.A809
FastEthernet0/10   Down    1     --            000A.F308.A80A
FastEthernet0/11   Down    1     --            000A.F308.A80B
FastEthernet0/12   Down    1     --            000A.F308.A80C
FastEthernet0/13   Down    1     --            000A.F308.A80D
FastEthernet0/14   Down    1     --            000A.F308.A80E
FastEthernet0/15   Down    1     --            000A.F308.A80F
FastEthernet0/16   Down    1     --            000A.F308.A810
FastEthernet0/17   Down    1     --            000A.F308.A811
FastEthernet0/18   Down    1     --            000A.F308.A812
FastEthernet0/19   Down    1     --            000A.F308.A813
FastEthernet0/20   Down    1     --            000A.F308.A814
FastEthernet0/21   Down    1     --            000A.F308.A815
FastEthernet0/22   Down    1     --            000A.F308.A816
FastEthernet0/23   Down    1     --            000A.F308.A817
FastEthernet0/24   Up      --    --            000A.F308.A818
GigabitEthernet0/1 Down    1     --            000A.F308.A819
GigabitEthernet0/2 Down    1     --            000A.F308.A81A
Vlan1            Down    1     <not set>     000D.BD7D.08BB
Vlan10           Up      10    <not set>     000D.BD7D.0801
Vlan20           Up      20    <not set>     000D.BD7D.0802

Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > Switch2
```



Result:

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC3	PC13	ICMP		0.000	N	0	(edit)	(delete)
	Successful	PC7	PC14	ICMP		0.000	N	1	(edit)	(delete)
	Successful	PC4	PC12	ICMP		0.000	N	2	(edit)	(delete)