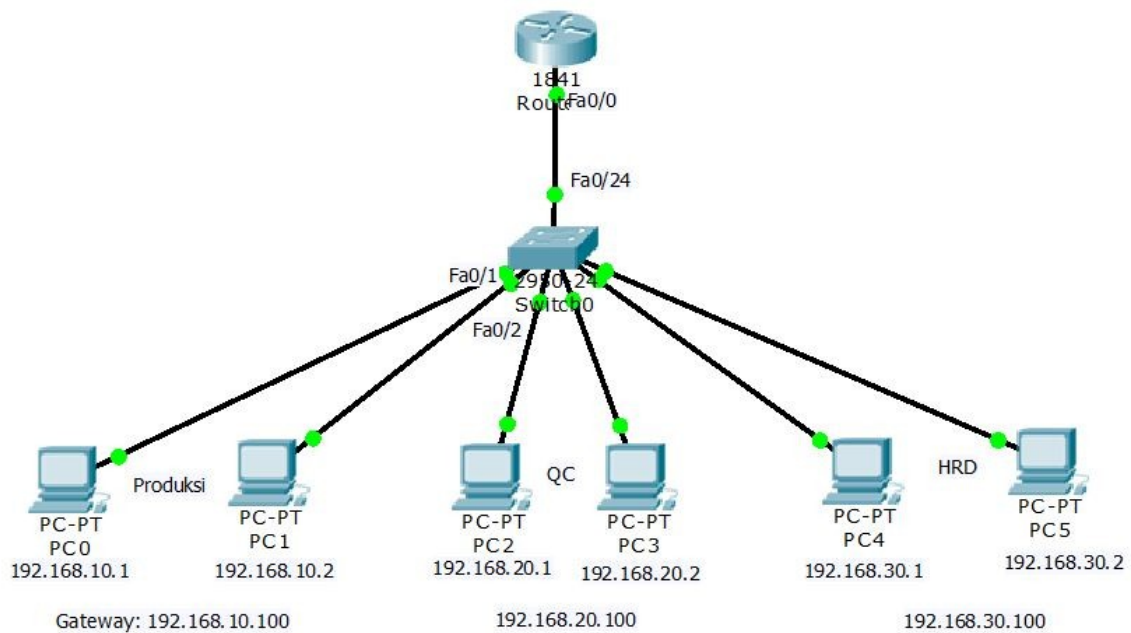Cara Menggabungkan Beberapa VLAN dengan Router

Membuat VLAN

Switch>

Switch>en

Switch#conf t

Switch(config)#

Switch(config)#**vlan 2**

Switch(config-vlan)#**name Produksi**

Switch(config-vlan)#**vlan 3**

Switch(config-vlan)#**name QC**

Switch(config-vlan)#**vlan 4**

Switch(config-vlan)#**name HRD**

Switch(config-vlan)#

Switch(config-vlan)#**end**

Melihat Hasil VLAN

Switch#

Switch#sh vlan brief

VLAN Name Status Ports

—- ——————————— ———— ———————————-

1 default active Fa0/1, Fa0/2, Fa0/3, Fa0/4

Fa0/5, Fa0/6, Fa0/7, Fa0/8

Fa0/9, Fa0/10, Fa0/11, Fa0/12

Fa0/13, Fa0/14, Fa0/15, Fa0/16

Fa0/17, Fa0/18, Fa0/19, Fa0/20

Fa0/21, Fa0/22, Fa0/23, Fa0/24

2 Produksi active

3 QC active

4 HRD active

1002 fddi-default active

1003 token-ring-default active

1004 fddinet-default active

1005 trnet-default active

Menambahkan Anggota VLAN

Switch#conf t

Switch(config)#

Switch(config)#vlan 2

Switch(config-vlan)#int f0/1

Switch(config-if)#switchport mode access

Switch(config-if)#switchport access vlan 2

Switch(config-if)#int f0/2

Switch(config-if)#switchport mode access

Switch(config-if)#switchport access vlan 2

Switch(config-if)#int f0/3

Switch(config-if)#switchport mode access

Switch(config-if)#switchport access vlan 3

Switch(config-if)#int f0/4

Switch(config-if)#switchport mode access

Switch(config-if)#switchport access vlan 3

Switch(config-if)#int f0/5
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 4

Switch(config-if)#int f0/6
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 4
Switch(config-if)#end

Melihat Hasil VLAN setelah ditambahkan anggotanya

Switch#sh vlan brief

VLAN Name Status Ports

—- ——————————— ———— ———————————-

1 default active Fa0/7, Fa0/8, Fa0/9, Fa0/10

Fa0/11, Fa0/12, Fa0/13, Fa0/14

Fa0/15, Fa0/16, Fa0/17, Fa0/18

Fa0/19, Fa0/20, Fa0/21, Fa0/22

Fa0/23, Fa0/24

2 Produksi active Fa0/1, Fa0/2

3 QC active Fa0/3, Fa0/4

4 HRD active Fa0/5, Fa0/6

1002 fddi-default active

1003 token-ring-default active

1004 fddinet-default active

1005 trnet-default active

Switch#

Switch#**sh vlan id 2**

VLAN Name Status Ports

—- ——————————— ———— ———————————-

2 Produksi active Fa0/1, Fa0/2

VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrdgMode Trans1 Trans2

—- —- ———- —- —— —— ———- —- ———- —— ——

2 enet 100002 1500 – – – – – 0 0

Switch#**sh vlan name QC**

VLAN Name Status Ports

—- ——————————- ——— ———————————-

3 QC active Fa0/3, Fa0/4

VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrdgMode Trans1 Trans2

—- —- ————- —- —— —— ———- —- ———- —— ——

3 enet 100003 1500 – – – – – 0 0

Tambah Lagi Anggota VLAN

Switch#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#vlan 2

Switch(config-vlan)#**int f0/7**

Switch(config-if)#sw mo ac

Switch(config-if)#sw ac vlan 2

Switch(config-if)#

Switch(config-if)#vlan 3

Switch(config-vlan)#**int f0/8**

Switch(config-if)#sw mo ac

Switch(config-if)#sw ac vlan 3

Switch(config-if)#

Switch(config-if)#vlan 4

Switch(config-vlan)#**int f0/9**

Switch(config-if)#sw mo ac

Switch(config-if)#sw ac vlan 4

Switch(config-if)#

Switch(config-if)#end

Hasil VLAN Produksi

Switch#

Switch#sh vlan name Produksi

VLAN Name Status Ports

—- ——————————- ——— ———————————-

2 Produksi active **Fa0/1, Fa0/2, Fa0/7**

VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrdgMode Trans1 Trans2

—- —- ——–- —- —- —- ——- —- ——- —- ——

2 enet 100002 1500 – – – – – 0 0

Switch#**show vlan brief**

VLAN Name Status Ports

—- ——————— ——- ———————-

1 default active Fa0/10, Fa0/11, Fa0/12, Fa0/13

Fa0/14, Fa0/15, Fa0/16, Fa0/17

Fa0/18, Fa0/19, Fa0/20, Fa0/21

Fa0/22, Fa0/23, Fa0/24

2 Produksi active Fa0/1, Fa0/2, **Fa0/7**

3 QC active Fa0/3, Fa0/4, **Fa0/8**

4 HRD active Fa0/5, Fa0/6, **Fa0/9**

1002 fddi-default active

1003 token-ring-default active

1004 fddinet-default active

1005 trnet-default active

Switch#

Switch#

Cara Menghapus Anggota VLAN

Switch#config t

Switch(config)#int f0/7

Switch(config-if)#**no** switchport mode access

Switch(config-if)#**no** switchport access vlan Produksi

Switch(config-if)#end

Switch#

Switch#**show vlan brief**

VLAN Name Status Ports

—- ——————— ——- ———————-

1 default active Fa0/7, Fa0/10, Fa0/11, Fa0/12

Fa0/13, Fa0/14, Fa0/15, Fa0/16

Fa0/17, Fa0/18, Fa0/19, Fa0/20

Fa0/21, Fa0/22, Fa0/23, Fa0/24

2 **Produksi active Fa0/1, Fa0/2**

3 QC active Fa0/3, Fa0/4, Fa0/8

4 HRD active Fa0/5, Fa0/6, Fa0/9

1002 fddi-default active

1003 token-ring-default active

1004 fddinet-default active

1005 trnet-default active

Switch#

Cara Simpan Hasil Konfigurasi

Switch#

Switch#**copy run start**

Destination filename [startup-config]?

Building configuration…

[OK]

Switch#

Switch#

Switch#**show startup-config**

Using 1371 bytes

!

version 12.1

no service timestamps log datetime msec

no service timestamps debug datetime msec

no service password-encryption

!

hostname Switch

!

!

spanning-tree mode pvst

!

interface FastEthernet0/1

switchport access vlan 2

switchport mode access

!
interface FastEthernet0/2
switchport access vlan 2
switchport mode access
!
interface FastEthernet0/3
switchport access vlan 3
switchport mode access
==more==

Cara Menghapus VLAN

Switch#
Switch#
Switch#**show vlan brief**

VLAN Name Status Ports
—- ———————— ——— ————————-
1 default active Fa0/7, Fa0/10, Fa0/11, Fa0/12
Fa0/13, Fa0/14, Fa0/15, Fa0/16
Fa0/17, Fa0/18, Fa0/19, Fa0/20
Fa0/21, Fa0/22, Fa0/23, Fa0/24
2 Produksi active Fa0/1, Fa0/2
3 QC active Fa0/3, Fa0/4, Fa0/8
4 HRD active Fa0/5, Fa0/6, Fa0/9
1002 fddi-default active
1003 token-ring-default active
1004 fddinet-default active
1005 trnet-default active
Switch#
Switch#config t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#
Switch(config)#**no** vlan 2
Switch(config)#**no** vlan 3
Switch(config)#**no** vlan 4

Switch(config)#

Switch(config)#end

Switch#**show vlan brief**

VLAN Name Status Ports

—- ———————— ——— ————————-

1 default active Fa0/7, Fa0/10, Fa0/11, Fa0/12

Fa0/13, Fa0/14, Fa0/15, Fa0/16

Fa0/17, Fa0/18, Fa0/19, Fa0/20

Fa0/21, Fa0/22, Fa0/23, Fa0/24

1002 fddi-default active

1003 token-ring-default active

1004 fddinet-default active

1005 trnet-default active

Cara Mengembalikan Setting NVRAM ke Running Config

Switch#

Switch#

Switch#**copy start run**

Destination filename [running-config]?

1371 bytes copied in 0.416 secs (3295 bytes/sec)

Switch#

Switch#

Switch#**show vlan brief**

VLAN Name Status Ports

—- ———————— ——— ————————-

1 default active Fa0/7, Fa0/10, Fa0/11, Fa0/12

Fa0/13, Fa0/14, Fa0/15, Fa0/16

Fa0/17, Fa0/18, Fa0/19, Fa0/20

Fa0/21, Fa0/22, Fa0/23, Fa0/24

2 VLAN0002 active Fa0/1, Fa0/2

3 VLAN0003 active Fa0/3, Fa0/4, Fa0/8

4 VLAN0004 active Fa0/5, Fa0/6, Fa0/9

1002 fddi-default active

1003 token-ring-default active

1004 fddinet-default active

1005 trnet-default active
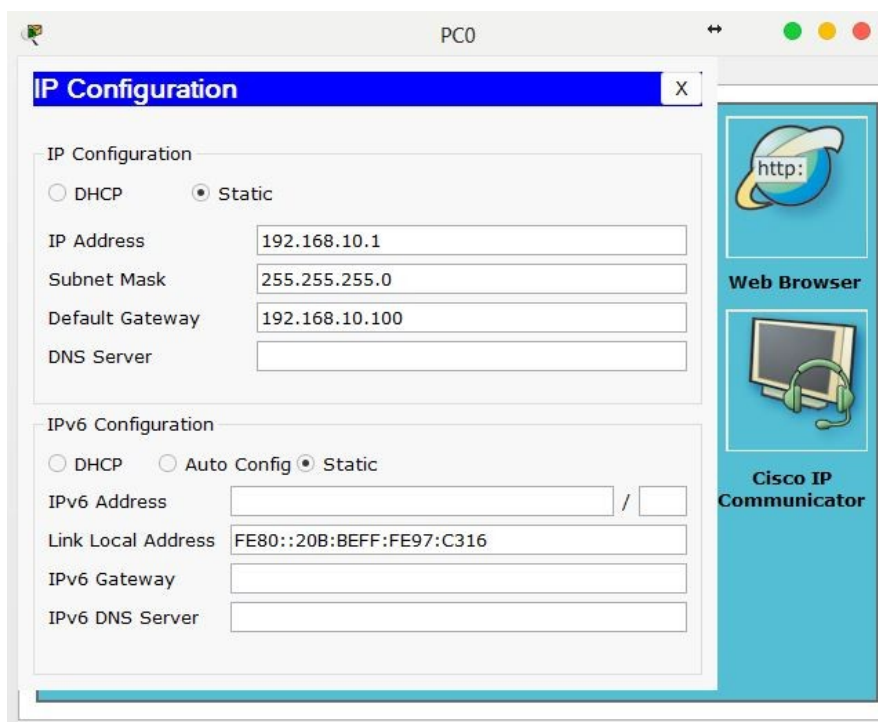
Setting Mode Trunk Switch

Switch#conf t

Switch(config)#

Switch(config)#**int fa0/24**

Switch(config-if)#**switchport mode trunk**

Switch(config-if)#

Switch(config-if)#end

Cara setting Router penghubung VLAN

Continue with configuration dialog? [yes/no]: n
Press RETURN to get started!

Router>
Router>en
Router#
Router#config t
Router(config)#hostname cisco.pintar.id

cisco.pintar.id(config)#**interface fa0/0.2**
cisco.pintar.id(config-subif)#**encapsulation dot1q 2**
cisco.pintar.id(config-subif)#**ip address 192.168.10.100 255.255.255.0**
cisco.pintar.id(config-subif)#
cisco.pintar.id(config-subif)#**interface fa0/0.3**
cisco.pintar.id(config-subif)#**encapsulation dot1q 3**
cisco.pintar.id(config-subif)#**ip address 192.168.20.100 255.255.255.0**
cisco.pintar.id(config-subif)#
cisco.pintar.id(config-subif)#**interface fa0/0.4**
cisco.pintar.id(config-subif)#**encapsulation dot1q 4**
cisco.pintar.id(config-subif)#**ip address 192.168.30.100 255.255.255.0**
cisco.pintar.id(config-subif)#
cisco.pintar.id(config-subif)#
cisco.pintar.id(config-subif)#end

cisco.pintar.id#config t
cisco.pintar.id(config)#int fa0/0
cisco.pintar.id(config-if)#no shut
cisco.pintar.id(config-if)#end
cisco.pintar.id#

cisco.pintar.id#**ping 192.168.20.2**
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.20.2, timeout is 2 seconds:
.!!!!
Success rate is **80 percent** (4/5), round-trip min/avg/max = 0/1/3 ms

cisco.pintar.id#**ping 192.168.20.2**

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 192.168.20.2, timeout is 2 seconds:

!!!!!

Success rate is **100 percent** (5/5), round-trip min/avg/max = 0/0/1 ms