Nama: SARTIKA RIZKY M

NIM : L200170118

Kelas : C

1. ID Network 202.155.19.0/24 dengan subnet mask default 255.255.255.0 mempunyai 5 divisi/subnet yang berisi 25pc per divisi (kelas C)

Perhitungan:

SUBNET1

NA 202.155.19.0

Host/range 202.155.19.1 - 202.155.19.30

BC 202.155.19.31

SUBNET2

NA 202.155.19.32

Host/range 202.155.19.33 - 202.155.19.62

BC 202.155.19.63

SUBNET3

NA 202.155.19.64

Host/range 202.155.19.65 - 202.15519.94

BC 202.155.19.95

SUBNET4

NA 202.155.19.96

Host/range 202.155.19.97 - 202.155.19.126

BC 202.155.19.127

SUBNET5

NA 202.155.19.128

Host/range 202.155.19.129 - 202.155.19.158

BC 202.155.19.159

2. ID Network 192.168.0.0 dengan subnet mask default 255.255.255.0

Perhitungan:

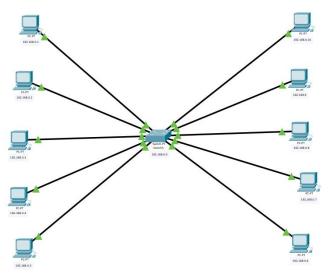
Mencari host 2₹- 2 =62

SUBNET1

NA 192.168.0.0

Host 192.168.0.1 - 192.168.0.62

BC 192.168.0.63



Dalam rangkaian pc harus dihubungkan ke switch dengan kabel copper-straight throught pilih port 0/1 - 9/1

```
Switchbemable
Switch Switchbemable
Switch Configure terminal
Enter configuration commands, one per line. End with CNTL/E.
Enter configuration commands, one per line. End with CNTL/E.

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

Switch Config-filen Park Thermet/J
Switch Config-filen Park Thermet/J
Switch Config-filen Park Thermet/Switch Config-Valn Park Thermet/Switch Configured From console Switch Config-Valn Park Thermet/Switch Configured From console Switch Configured Fr
```

Setting switch dengan CLI, buat vlan 5 dan vlan 10 dengan nama kiri dan kanan

```
Switch conf t
Enter configuration commands, one per line. End with CNTL/E.
Switch (config) #interface fa0/1
Switch (config) #interface fa1/1
Switch (config) #interface fa2/1
Switch (config) #interface fa3/1
Switch (config) #interface fa3/1
Switch (config) #interface fa2/1
Switch (config) #interfa
```

Sambungkan port sisi kiri ke vlan 5 dan sebaliknya

```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.0.6
Pinging 192.168.0.6 with 32 bytes of data:
Reply from 192.168.0.6: bytes=32 time=20ms TTL=128
Reply from 192.168.0.6: bytes=32 time<1ms TTL=128
Reply from 192.168.0.6: bytes=32 time<1ms TTL=128
Reply from 192.168.0.6: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.0.6:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in mill1-seconds:
Minimum = 0ms, Maximum = 20ms, Average = 5ms
C:\>ping 192.168.0.1
Pinging 192.168.0.1 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 192.168.0.1:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>
```

Hasil ping pc dengan ip address 192.168.0.9 ke pc 192.168.0.6 valid, karena sama-sama terletak pada vlan yang sama yaitu vlan 10 kanan Hasil ping pc dengan ip address 192.168.0.9 ke pc 192.168.0.1 tidak valid, karena berbeda letak pada vlan. Ip address 192.168.0.9 terletak pada vlan 10 kanan, sedangkan ip address 192.168.0.1 terletak pada vlan 5 kiri

```
Packet Tracer PC Command Line 1.0
C:\pring 192.168.0.3
Pinging 192.168.0.3 with 32 bytes of data:

Reply from 192.168.0.3: bytes=32 time=1ms TTL=128
Reply from 192.168.0.3: bytes=32 time=3ms TTL=128
Reply from 192.168.0.3: bytes=32 time<1ms TTL=128
Reply from 192.168.0.3: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.0.3:
    Fackets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 3ms, Average = 1ms
C:\pring 192.168.0.6
Pinging 192.168.0.6 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 192.168.0.6:
    Fackets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>
```

Hasil ping pc dengan ip address 192.168.0.1 ke pc 192.168.0.3 valid, karena sama-sama terletak pada vlan yang sama yaitu vlan 5 kiri
Hasil ping pc dengan ip address 192.168.0.1 ke pc 192.168.0.6 tidak valid, karena berbeda letak pada vlan. Ip address 192.168.0.6 terletak pada vlan 10 kanan, sedangkan ip address 192.168.0.1 terletak pada vlan 5 kiri

Hasil CLI pada Switch

%SYS-5-CONFIG_I: Configured from console by console show vlan

VLAN Name Status Ports

1 default active Fa0/1, Fa1/1, Fa2/1, Fa3/1

Fa4/1, Fa5/1, Fa6/1, Fa7/1

Fa8/1, Fa9/1

5 kiri active

10 kanan active

1002 fddi-default active

1003 token-ring-default active

1004 fddinet-default active

1005 trnet-default active

VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrdgMode Trans1 Trans2

---- ----- ------ ----- -----

1 enet 100001 1500 - - - - 0 0

5 enet 100005 1500 - - - - 0 0

10 enet 100010 1500 - - - - 0 0

1002 fddi 101002 1500 - - - - 0 0

1003 tr 101003 1500 - - - - 0 0

1004 fdnet 101004 1500 - - - ieee - 0 0

1005 trnet 101005 1500 - - - ibm - 0 0

VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrdgMode Trans1 Trans2

---- -----

Remote SPAN VLANs

Primary Secondary Type Ports

Switch#conf t

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

Switch(config)#interface fa0/1

Switch(config-if)#switchport mode access

Switch(config-if)#switchport access vlan 5

Switch(config-if)#ex

Switch(config)#interface fa1/1

Switch(config-if)#switchport mode access

Switch(config-if)#switchport access vlan 5

Switch(config-if)#ex

Switch(config)#interface fa2/1

Switch(config-if)#switchport mode access

Switch(config-if)#switchport access vlan 5

Switch(config-if)#ex

Switch(config)#interface fa3/1

```
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 5
Switch(config-if)#ex
Switch(config)#interface fa4/1
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 5
Switch(config-if)#ex
Switch(config)#ex
Switch#
%SYS-5-CONFIG I: Configured from console by console
show vlan
VLAN Name Status Ports
1 default active Fa5/1, Fa6/1, Fa7/1, Fa8/1
Fa9/1
5 kiri active Fa0/1, Fa1/1, Fa2/1, Fa3/1
Fa4/1
10 kanan active
1002 fddi-default active
1003 token-ring-default active
1004 fddinet-default active
1005 trnet-default active
VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrdgMode Trans1 Trans2
_____
1 enet 100001 1500 - - - - 0 0
5 enet 100005 1500 - - - - 0 0
10 enet 100010 1500 - - - - 0 0
1002 fddi 101002 1500 - - - - 0 0
1003 tr 101003 1500 - - - - 0 0
1004 fdnet 101004 1500 - - - ieee - 0 0
1005 trnet 101005 1500 - - - ibm - 0 0
VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrdgMode Trans1 Trans2
_____
Remote SPAN VLANs
Primary Secondary Type Ports
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface fa5/1
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#ex
Switch(config)#interface fa6/1
```

Switch(config-if)#switchport mode access

```
Switch(config-if)#switchport access vlan 10
Switch(config-if)#ex
Switch(config)#interface fa7/1
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#ex
Switch(config)#interface fa8/1
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#interface fa9/1
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#ex
Switch(config)#ex
Switch#
%SYS-5-CONFIG I: Configured from console by console
Switch#
Switch#show vlan
VLAN Name Status Ports
______
1 default active
5 kiri active Fa0/1, Fa1/1, Fa2/1, Fa3/1
Fa4/1
10 kanan active Fa5/1, Fa6/1, Fa7/1, Fa8/1
Fa9/1
1002 fddi-default active
1003 token-ring-default active
1004 fddinet-default active
1005 trnet-default active
VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrdgMode Trans1 Trans2
_____
1 enet 100001 1500 - - - - 0 0
5 enet 100005 1500 - - - - 0 0
10 enet 100010 1500 - - - - 0 0
1002 fddi 101002 1500 - - - - 0 0
1003 tr 101003 1500 - - - - 0 0
1004 fdnet 101004 1500 - - - ieee - 0 0
1005 trnet 101005 1500 - - - ibm - 0 0
VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrdgMode Trans1 Trans2
---- -----
Remote SPAN VLANs
_____
Primary Secondary Type Ports
```

| Switch# |
|------------------------------|
| |
| |
| |
| |
| |
| |
| C:4-10 ::1-1-1- |
| Switch con0 is now available |
| |
| |
| |
| |
| Press RETURN to get started. |
| 5 6 800 20000000 |
| |