

MANAJEMEN JARINGAN



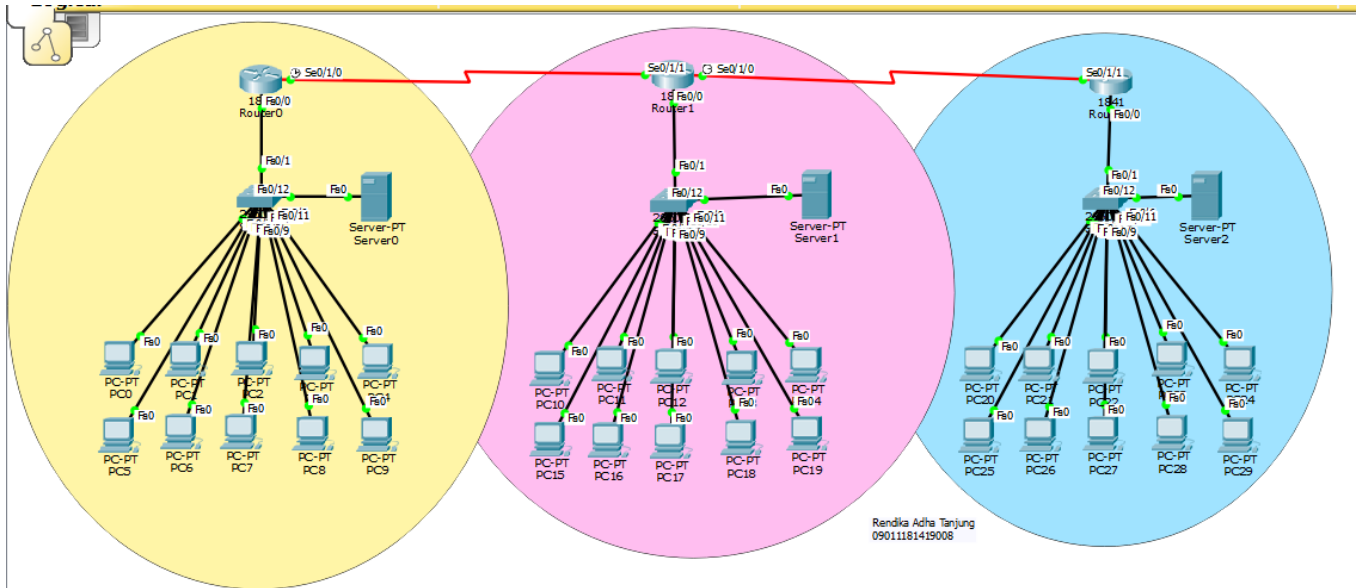
RENDIKA ADHA TANJUNG

(09011181419008)

FAKULTAS ILMU KOMPUTER

JURUSAN SISTEM KOMPUTER

TAHUN AJARAN 2017/2018

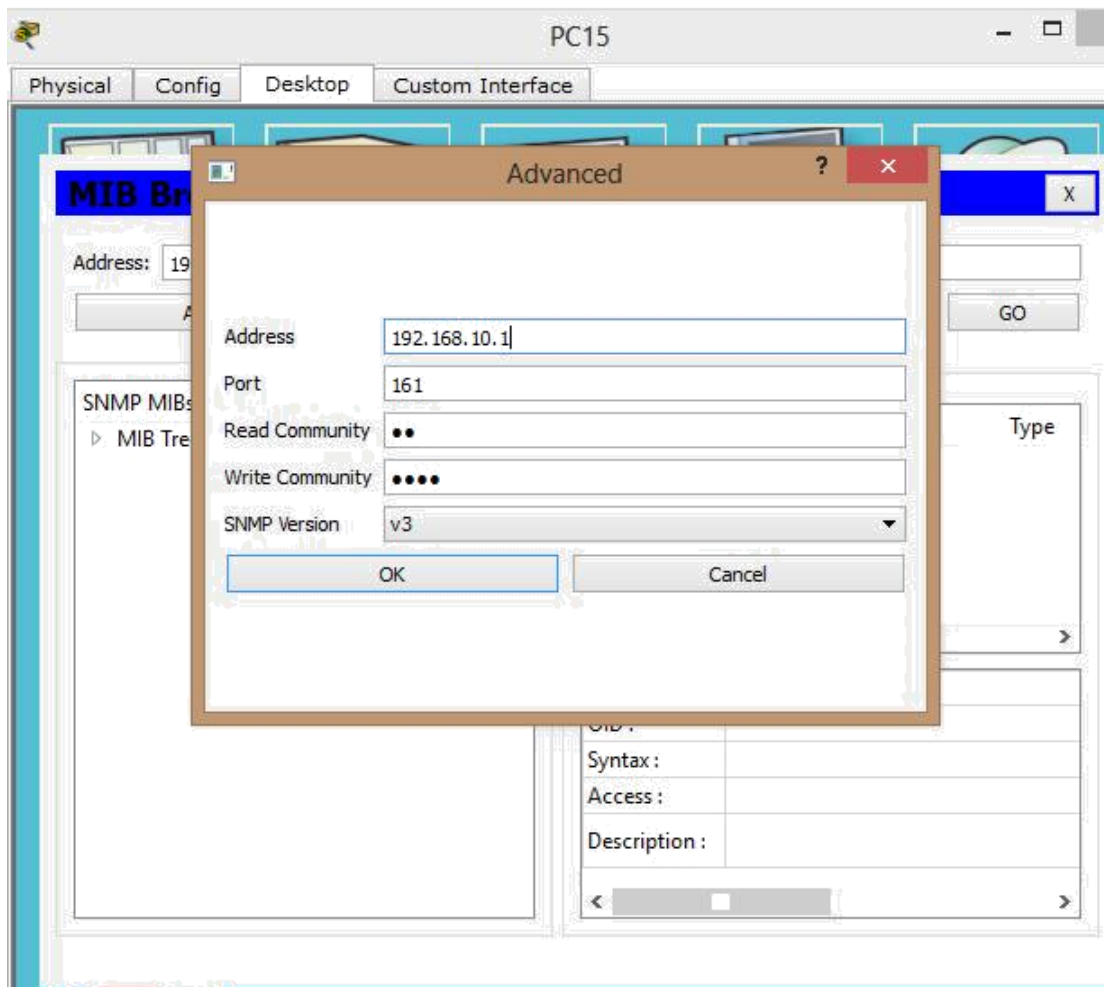


Gambar Topologi antar 3 router dengan menghubungkan pc host pada masing masing router menggunakan switch.

Dengan menggunakan 4 router, 4 switch, 30 client dan 8 server. Pada Router 0

```
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#sn
Router(config)#snmp-server com
Router(config)#snmp-server community R0 ro
%SNMP-5-WARMSTART: SNMP agent on host Router is undergoing a warm start
Router(config)#snmp-server community R0rw rw
```

Dengan menggunakan pc15 yang ada pada jaringan Router 0



Address ialah alamat IP router Port 161

Read Community diisi dengan R1 Write Community diisi dengan R1rw

Dan memilih snmp versi 3, maka tampilah data dari router0 seperti berikut : Pada bagian systemdescription tampil data

Address: 192.168.10.1 OID: .1.3.6.1.2.1.1.0

Advanced... Operations: Get

SNMP MIBs

- MIB Tree
 - router_std MIBs
 - .iso
 - .org
 - .dod
 - .internet
 - .mgmt
 - .mib-2
 - .system
 - .sysDescr
 - .sysObjectID

Result Table

| Name/OID | Value | Type |
|---------------------|--------------------|-------------|
| .1.3.6.1.2.1.1.0... | Cisco IOS Softw... | OctetString |

Pada bagian interface description

Address: 192.168.10.1 OID: .1.3.6.1.2.1.2.2.1.2

Advanced... Operations: Get GO

SNMP MIBs

- MIB Tree
 - router_std MIBs
 - .iso
 - .org
 - .dod
 - .internet
 - .mgmt
 - .mib-2
 - .system
 - .sysDescr
 - .sysObjectID
 - .sysUpTime
 - .sysContact
 - .sysName
 - .sysLocation
 - .interfaces
 - .ifNumber
 - .ifTable
 - .ifEntry
 - .ifIndex
 - .ifDescr

Result Table

| Name/OID | Value | Type |
|-----------------------|-----------------|-------------|
| .1.3.6.1.2.1.2.2.1... | Vlan1 | OctetString |
| .1.3.6.1.2.1.2.2.1... | FastEthernet0/0 | OctetString |
| .1.3.6.1.2.1.2.2.1... | FastEthernet0/1 | OctetString |
| .1.3.6.1.2.1.2.2.1... | Serial0/0/0 | OctetString |
| .1.3.6.1.2.1.2.2.1... | Serial0/0/1 | OctetString |

| | |
|---------------|---|
| Name : | .ifDescr |
| OID : | .1.3.6.1.2.1.2.2.1.2 |
| Syntax : | DisplayString |
| Access : | read-only |
| Description : | A textual string containing information about the interface. This string should include the |

Pada router 1

```
Router(config)#snmp-server community R1 ro
Router(config)#snmp-server community R1rw rw
Router(config)#
```

Tes dengan PC yang ada pada jaringan router1

Address: 192.168.20.1

Port: 161

Read Community: ●●

Write Community: ●●●●

SNMP Version: v3

OK Cancel

Address: 192.168.20.1 OID: .1.3.6.1.2.1.1.0

Advanced... Operations: Get

SNMP MIBs

- MIB Tree
 - router_std MIBs
 - .iso
 - .org
 - .dod
 - .internet
 - .mgmt
 - .mib-2
 - .system
 - .sysDescr
 - .sysObj...
 - .sysUp...

Result Table

| Name/OID | Value | Type |
|---------------------|--------------------|-------------|
| .1.3.6.1.2.1.1.0... | Cisco IOS Softw... | OctetString |

Address: 192.168.20.1 OID: .1.3.6.1.2.1.2.2.1.2

Advanced... Operations: Get

SNMP MIBs

- .sysDescr
- .sysObjectID
- .sysUpTime
- .sysContact
- .sysName
- .sysLocation
- .interfaces
 - .ifNumber
 - .ifTable
 - .ifEntry
 - .ifIndex
 - .ifDescr
 - .ifType

Result Table

| Name/OID | Value | Type |
|-----------------------|-----------------|-------------|
| .1.3.6.1.2.1.2.2.1... | Vlan1 | OctetString |
| .1.3.6.1.2.1.2.2.1... | FastEthernet0/0 | OctetString |
| .1.3.6.1.2.1.2.2.1... | FastEthernet0/1 | OctetString |
| .1.3.6.1.2.1.2.2.1... | Serial0/0/0 | OctetString |
| .1.3.6.1.2.1.2.2.1... | Serial0/0/1 | OctetString |

Untuk pada router lain itu sama, yang beda hanya ketika memasukkan perintah `snmp-server community '*ro`

`Snmp-server community '*rw'rw`

Kita bisa mengganti dengan nama router pada bintang tersebut (tanda kutip dihilangkan).