


| | |
|---|---|
| Soal Praktikum <i>Practicum Case</i> |  |
| COMP6372 Computer Networks | |
| Teknik Informatika <i>Computer Science</i> | CS- COMP6372 -Var02 |
| Periode Berlaku Mulai Semester Ganjil 2018/2019 <i>Valid on Odd Semester Year 2018/2019</i> | Revisi 00 <i>Revision 00</i> |

Learning Outcomes

- Describe basic structures of network
- Explain basic concepts of network

Topic

- Session 06 – Inter VLAN Routing

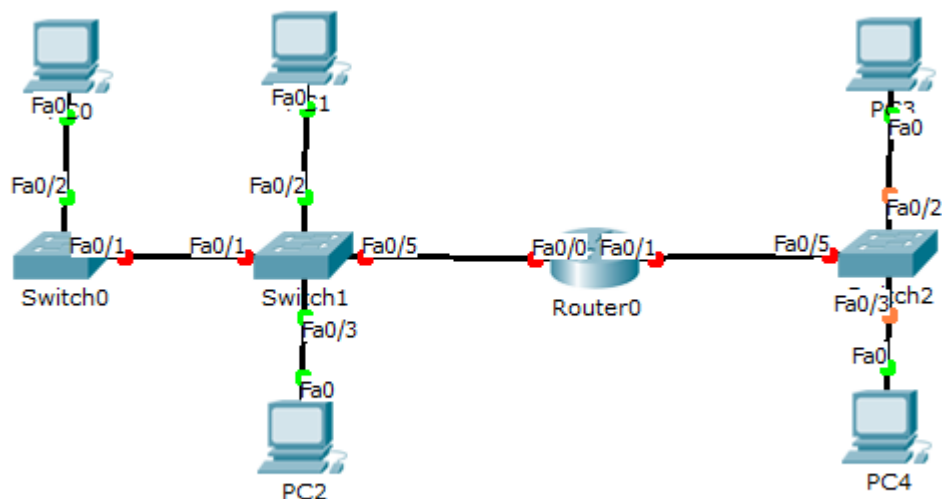
Sub Topics

- Assigning Switch Ports for VLANs
- Configure Trunking Ports on Switch

Soal

Case

Study case



PC and switch configuration

| Device | IP Address | Default Gateway | VLAN | Connection |
|--------|-------------------|-----------------|---------|-----------------------|
| PC0 | 117.121.10.21 /24 | 117.121.10.1 | VLAN 10 | Fa0 --> S0 Fa0/2 |
| PC1 | 117.121.20.22 /24 | 117.121.20.1 | VLAN 20 | Fa0 --> S1 Fa0/2 |
| PC2 | 117.121.40.23 /24 | 117.121.40.1 | VLAN 40 | Fa0 --> S1 Fa0/3 |
| PC3 | 117.121.30.24 /24 | 117.121.30.1 | VLAN 30 | Fa0 --> S3 Fa0/2 |
| PC4 | 117.121.10.25 /24 | 117.121.40.1 | VLAN 10 | Fa0 --> S3 Fa0/3 |
| S0 | | | | S0 Fa0/1 --> S1 Fa0/1 |
| S1 | | | | S1 Fa0/5 --> R1 Fa0/0 |
| S2 | | | | S2 Fa0/5 --> R1 Fa0/1 |

Subinterface configuration on Router

| Router interface | Assignment | IP Address |
|------------------|------------|--------------|
| Fa0/0.10 | VLAN 10 | 117.121.10.1 |
| Fa0/0.20 | VLAN 20 | 117.121.20.1 |
| Fa0/0.40 | VLAN 40 | 117.121.40.1 |
| Fa0/1.30 | VLAN 30 | 117.121.30.1 |
| Fa0/1.40 | VLAN 40 | 117.121.40.1 |

With using CLI, please configure with below spesification :

- Configure all device (PC, Switch, Router) based on table
- Give nick name on each device with 3 digit your name
- Verify VLAN config on switch, and routing table on Router
- Ping intra VLAN and inter VLAN (capture each ping)
- You must submit 3 document:
 - Pkt file
 - Capture ping and topology (in word)
 - CLI command (in word)

If you don't understand, please ask your assistant!