**KELOMPOK 6**

VLAN 10: 192.168.6.3/26

VLAN 20: 192.168.6.67/26

VLAN 30: 192.168.6.131/26

VLAN 40: 192.168.6.196/26

1. Departemen Karyawan /26

* SM = 255.255.255.192 = /26
* NA = 192.168.6.0
* HR = 198.168.6.1 – 192.168.6.62
* BR = 192.168.6.63
* IP Laptop Karyawan 1 = 192.168.6.1
* IP Laptop Karyawan 2 = 192.168.6.2
* Gateway = 192.168.6.62

1. Departemen Mahasiswa /26

* SM = 255.255.255.192 = /26
* NA = 192.168.6.64
* HR = 198.168.6.65 – 192.168.6.126
* BR = 192.168.6.127
* IP Laptop Mahasiswa 1 = 192.168. 6.65
* IP Laptop Mahasiswa 2 = 192.168. 6.66
* Gateway = 192.168. 6.126

1. Departemen Lab /26

* SM = 255.255.255.192 = /26
* NA = 192.168.6.128
* HR = 198.168.6.129 – 192.168.6.190
* BR = 192.168.6.191
* IP Laptop Lab 1 = 192.168.6.129
* IP Laptop Lab 2 = 192.168.6.130
* Gateway = 192.168.6.190

1. Departemen Server /26

* SM = 255.255.255.192 = /26
* NA = 192.168.6.192
* HR = 198.168.6.193 – 192.168.6.254
* BR = 192.168.6.255
* IP Lokal DNS Server = 192.168.6.193
* IP Web Server + FTP Server = 192.168.6.194
* IP Monitoring Server = 192.168.6.195
* Gateway = 192.168.6.254

Physical Port-port yang digunakan :

1. Mikrotik Router OS + Firewall

Ethernet2 to Core Switch fast ethernet 1/4

1. Core Switch

Fast Ethernet 1/4 to Mikrotik Router OS + Firewall ethernet2

Fast Ethernet 1/1 to Distribution Switch 1 Fast ethernet 1/2

Fast Ethernet 1/2 to Distribution Switch 2 Fast Ethernet 1/1

Fast Ethernet 1/3 to Server Switch Fast Ethernet 1/1

1. Distribution Switch 1

Fast Ethernet 1/2 to Core Switch Fast Ethernet 1/1

Fast Ethernet 1/1 to Access Switch 1 Fast Ethernet ¼

1. Distribution Switch 2

Fast Ethernet 1/1 to Core Switch Fast Ethernet 1/2

Fast Ethernet 1/2 to Access Switch 2 Fast Ethernet 1/4

1. Server Switch

Ethernet0 to Core Switch ethernet3

Ethernet1 to Lokal DNS Server ethernet0

Ethernet2 to Web Server + FTP Server ethernet0

Ethernet3 to Monitoring Server ethernet0

1. Access Switch 1

Fast Ethernet 1/4 to Distribution Switch 1 Fast Ethernet 1/1

Fast Ethernet 1/2 to Laptop Karyawan 1 ethernet0

Fast Ethernet 1/1 to Laptop Mahasiswa 1 ethernet0

Fast Ethernet 1/3 to Laptop Lab 1 ethernet0

1. Access Switch 2

Fast Ethernet 1/4 to Distribution Switch 2 Fast Ethernet 1/2

Fast Ethernet 1/1 to Laptop Karyawan 2 ethernet0

Fast Ethernet 1/2 to Laptop Mahasiswa 2 ethernet0

Fast Ethernet 1/3 to Laptop Lab 2 ethernet0