Anggota Kelompok:

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Kelas : IF-I

Tabel Subnetting Tema Kampus

1.   Ruang Seminar
     Router : Router Pusat
     Kebutuhan host 125

| Network Address | Subnet Mask | IP Range | Broadcast Address |
|---|---|---|---|
| 192.168.8.0 | /25 (255.255.255.128) | 192.168.8.1 - 192.168.8.126 | 192.168.8.127 |

2.   Lab Robotic
     Router : Router Kanan
     Kebutuhan host 30

| Network Address | Subnet Mask | IP Range | Broadcast Address |
|---|---|---|---|
| 192.168.7.0 | /27 (255.255.255.224) | 192.168.7.1 - 192.168.7.30 | 192.168.7.31 |

3.   Lab Komputasi
     Router : Router Kanan
     VLAN 60, Kebutuhan host 30

| Network Address | Subnet Mask | IP Range | Broadcast Address |
|---|---|---|---|
| 192.168.9.0 | /27 (255.255.255.224) | 192.168.9.1 - 192.168.9.30 | 192.168.9.31 |

     VLAN 70, kebutuhan host 30

| Network Address | Subnet Mask | IP Range | Broadcast Address |
|---|---|---|---|
| 192.168.9.32 | /27 (255.255.255.224) | 192.168.9.33 - 192.168.9.62 | 192.168.9.63 |

4.   Lab Jaringan
     Router : Router Kiri
     VLAN 40, kebutuhan host 30

| Network Address | Subnet Mask | IP Range | Broadcast Address |
|---|---|---|---|
| 192.168.6.0 | /27 (255.255.255.224) | 192.168.6.1 - 192.168.6.30 | 192.168.6.31 |

VLAN 50, kebutuhan host 30

| Network Address | Subnet Mask | IP Range | Broadcast Address |
|---|---|---|---|
| 192.168.6.32 | /27 (255.255.255.224) | 192.168.6.33 - 192.168.6.62 | 192.168.6.63 |

5. Ruang Belajar
   Router : Router Khusus
   VLAN 80, kebutuhan host 25

| Network Address | Subnet Mask | IP Range | Broadcast Address |
|---|---|---|---|
| 192.168.10.0 | /27 (255.255.255.224) | 192.168.10.1 - 192.168.10.30 | 192.168.10.31 |

VLAN 90, kebutuhan host 25

| Network Address | Subnet Mask | IP Range | Broadcast Address |
|---|---|---|---|
| 192.168.10.32 | /27 (255.255.255.224) | 192.168.10.33 - 192.168.10.62 | 192.168.10.63 |

VLAN Default, kebutuhan host 25

| Network Address | Subnet Mask | IP Range | Broadcast Address |
|---|---|---|---|
| 192.168.10.64 | /27 (255.255.255.224) | 192.168.10.65 - 192.168.10.94 | 192.168.10.95 |

6. Ruang TU
   Router : Router Kiri
   Kebutuhan host 12

| Network Address | Subnet Mask | IP Range | Broadcast Address |
|---|---|---|---|
| 192.168.5.0 | /28 (255.255.255.240) | 192.168.5.1 - 192.168.5.14 | 192.168.5.15 |

7. Ruang Keamanan dan Server
   Router : Router Atas
   VLAN 10, kebutuhan host 10

| Network Address | Subnet Mask | IP Range | Broadcast Address |
|---|---|---|---|
| 192.168.2.0 | /28 (255.255.255.240) | 192.168.2.1 - 192.168.2.14 | 192.168.2.15 |

VLAN 20, kebutuhan host 10

| Network Address | Subnet Mask | IP Range | Broadcast Address |
|---|---|---|---|
| 192.168.3.0 | /28 (255.255.255.240) | 192.168.3.1 - 192.168.3.14 | 192.168.3.15 |

VLAN 30, kebutuhan host 10

| Network Address | Subnet Mask | IP Range | Broadcast Address |
|---|---|---|---|
| 192.168.4.0 | /28 (255.255.255.240) | 192.168.4.1 - 192.168.4.14 | 192.168.4.15 |

Tanpa VLAN (Server), kebutuhan host 3

| Network Address | Subnet Mask | IP Range | Broadcast Address |
|---|---|---|---|
| 192.168.1.0 | /29 (255.255.255.248) | 192.168.1.1 - 192.168.1.6 | 192.168.1.7 |

| 8 | 9 | 10 |
|---|---|---|
| Router Pusat dan Router Atas | Router Pusat dan Router Kiri | Router Pusat dan Router Kanan |
| 203.10.1.0/30 | 203.10.11.0/30 | 203.10.111.0/30 |
| NA   : 203.10.1.0 | NA   : 203.10.11.0 | NA   : 203.10.111.0 |
| F-IP : 203.10.1.1 | F-IP : 203.10.11.1 | F-IP : 203.10.111.1 |
| L-IP : 203.10.1.2 | L-IP : 203.10.11.2 | L-IP : 203.10.111.2 |
| BA   : 203.10.1.3 | BA   : 203.10.11.3 | BA   : 203.10.111.3 |

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|---|
| Router Pusat dan Router Khusus |
| 203.11.11.0/30 |
| NA   : 203.11.11.0 |
| F-IP : 203.11.11.1 |
| L-IP : 203.11.11.2 |
| BA   : 203.11.11.3 |