**LOMBA KOMPETENSI SISWA**

SEKOLAH MENENGAH KEJURUAN

TINGKAT KABUPATEN CILACAP TH 2022



**IT NETWORK SYSADMIN**

**Soal Modul II Hari II**

**SOAL MODUL II**

* Tujuan Konfigurasi

Ping reply dari client VLAN dan WLAN ke Server-Inet, Server-Web dan Server DNS.

* Ketentuan-ketentuan
* IP Address

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Device** | **Interface** | **Alamat IP** | | | |
| **Host** | **Network** | **Gateway** | **DNS** |
| Router-ISP | Gig0/0 | I | 103.10.3.0/30 |  |  |
|  | Se0/0/0 | I | 10.102.2.0/30 |  |  |
|  | Se0/0/1 | I | 10.101.1.0/30 |  |  |
|  | Se0/1/0 | I | 10.103.3.0/30 |  |  |
| Router-2 | Se0/0/0 | II | 10.102.2.0/30 |  |  |
|  | Se0/0/1 | I | 10.104.4.0/30 |  |  |
|  | Se0/1/0 | I | 10.105.5.0/30 |  |  |
|  | Se0/1/1 | I | 10.107.7.0/30 |  |  |
| Router-3 | Gig0/1 | IP Terakhir | 172.31.0.0/25 |  |  |
|  | Se0/0/0 | II | 10.104.4.0/30 |  |  |
|  | Se0/0/1 | II | 10.106.6.0/30 |  |  |
|  | Se0/1/0 | II | 10.101.1.0/30 |  |  |
| Router-4 | Gig0/1 | IP Terakhir | 172.16.0.0/25 |  |  |
|  | Se0/0/0 | II | 10.105.5.0/30 |  |  |
|  | Se0/0/1 | II | 10.108.8.0/30 |  |  |
|  | Se0/1/0 | II | 10.103.3.0/30 |  |  |
| Router-5 | Gig0/1 | II | 10.109.9.0/30 |  |  |
|  | Se0/0/0 | II | 10.107.7.0/30 |  |  |
|  | Se0/0/1 | I | 10.108.8.0/30 |  |  |
|  | Se0/1/0 | I | 10.106.6.0/30 |  |  |
| MLS1 | Gig0/1 | I | 10.109.9.0/30 |  |  |
|  | Vlan 15 | IP Terakhir | 192.168.15.0/24 |  |  |
|  | Vlan 25 | IP Terakhir | 192.168.25.0/24 |  |  |
|  | Vlan 35 | IP Terakhir | 192.168.35.0/24 |  |  |
| Server-Inet | Fa0 | II | 103.10.3.0/25 | I |  |
| PC1 – PC9 | Fa0 | DHCP |  | IP Terakhir | IP Server-DNS |
| Server-DNS | Fa0 | I | 172.16.0.0/25 | IP Terakhir |  |
| Server-Web | Fa0 | II | 172.16.0.0/25 | IP Terakhir |  |
| Laptop1 – Laptop2 | Wlan | DHCP |  | IP Terakhir | IP Server-DNS |

Ket, I = IP host pertama sesuai dengan subnetnya

II = IP host kedua sesuai dengan subnetnya

IP Terakhir = IP host terakhir sesuai dengan subnetnya

* Routing

|  |  |  |
| --- | --- | --- |
| **Protocol** | **Network** | **Keterangan** |
| OSPF | Seluruh network yang ada | ASN = 100, area = 0 |

* DHCP Server

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Device** | **Nama Pool** | **IP Pertama** | **Jumlah IP** | **DHCP Client** |
| MLS-1 | POOL-VLAN-15 | .1 | Semua | PC VLAN 15 |
| MLS-1 | POOL-VLAN-25 | .1 | Semua | PC VLAN 25 |
| MLS-1 | POOL-VLAN-35 | .1 | Semua | PC VLAN 35 |
| Router-3 | POOL-WLAN | .1 | Semua | Laptop |

Keterangan excluded = IP Gateway

* VLAN

Ketentuan mengenai VLAN sudah tertera pada topologi

* WLAN

Device = Access Point 0

SSID = LKS-2022

WPA2-PSK Key = smk-cilacap

* Ketentuan lain yang dianggap kurang jelas dapat ditanyakan kepada Dewan Juri.

SELAMAT MENGERJAKAN SEMOGA SUKSES