ADDRESSING TABLE

Tugas Akhir Berbasis Project - TI-403

Network Consultant Solution

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1. KANTOR PUSAT (KP)

1.1 Router Configuration

Device Name	Interface	IP Address	Subnet Mask	Network
KP_R1	S0/0	10.10.1.1	/30	P2P Link to KP_R3
KP_R1	G2/0	10.10.10.1	/24	User Network 1
KP_R1	G3/0	10.10.11.1	/24	User Network 2
KP_R1	G4/0	10.10.12.1	/24	User Network 3
KP_R2	S0/0	10.10.1.5	/30	P2P Link to KP_R3
KP_R2	G2/0	10.10.20.1	/24	User Network 4
KP_R2	G3/0	10.10.21.1	/24	User Network 5
KP_R2	G4/0	10.10.22.1	/24	User Network 6
KP_R3	G0/0	10.10.100.1	/24	Server Network
KP_R3	S1/0	202.10.20.2	/29	Internet Connection
KP_R3	S2/0	10.10.1.2	/30	P2P Link to KP_R1
KP_R3	S3/0	10.10.1.6	/30	P2P Link to KP_R2

1.2 Server Configuration

Device Name	Interface	IP Address	Subnet Mask	Network
KP_Server	G0/0	10.10.100.10	/24	Internal Server Network

1.3 End User Devices

Device Name	Interface	IP Address	Subnet Mask	VLAN	Network Description
PC0	F0	10.10.10.10	/24	10	KP_VLAN_10
PC1	F0	10.10.11.10	/24	11	KP_VLAN_11
PC2	F0	10.10.12.10	/24	12	KP_VLAN_12
PC3	F0	10.10.20.10	/24	20	KP_VLAN_20
PC4	F0	10.10.21.10	/24	21	KP_VLAN_21
PC5	F0	10.10.22.10	/24	22	KP_VLAN_22

1.4 VLAN Configuration

Switch Device	VLAN No	VLAN Name	Description
KP_S0	10	KP_VLAN_10	User Network 1
KP_S1	11	KP_VLAN_11	User Network 2
KP_S2	12	KP_VLAN_12	User Network 3
KP_S3	20	KP_VLAN_20	User Network 4
KP_S4	21	KP_VLAN_21	User Network 5
KP_S5	22	KP_VLAN_22	User Network 6

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2. KANTOR CABANG 1 (KC1)

2.1 Router Configuration

Device Name	Interface	IP Address	Subnet Mask	Network
KC1_R1	S0/0	203.100.200.1	/29	Internet Connection
KC1_R1	S1/0	10.20.1.2	/30	P2P Link to KC1_R2
KC1_R1	G2/0	10.20.100.1	/24	Server Network
KC1_R2	S0/0	10.20.1.1	/30	P2P Link to KC1_R1
KC1_R2	G1/0	10.20.30.1	/24	User Network 1
KC1_R2	G2/0	10.20.31.1	/24	User Network 2

2.2 End User Devices

Device Name	Interface	IP Address	Subnet Mask	VLAN	Network Description
KC1_PC1	F0	10.20.30.10	/24	30	KC1_A
KC1_PC2	F0	10.20.31.10	/24	31	KC1_B

2.3 VLAN Configuration

Switch Device	VLAN No	VLAN Name	Description
KC1_S1	30	KC1_A	User Network 1
KC1_S2	31	KC1_B	User Network 2

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3. KANTOR CABANG 2 (KC2)

3.1 Router Configuration

Device Name	Interface	IP Address	Subnet Mask	Network
KC2_R1	S0/0	210.50.70.2	/29	Internet Connection
KC2_R1	S1/0	10.30.1.2	/30	P2P Link to KC2_R2
KC2_R1	G2/0	10.30.100.1	/24	Server Network
KC2_R2	S0/0	10.30.1.1	/30	P2P Link to KC2_R1
KC2_R2	G1/0	10.30.40.1	/24	User Network 1
KC2_R2	G2/0	10.30.41.1	/24	User Network 2

3.2 End User Devices

Device Name	Interface	IP Address	Subnet Mask	VLAN	Network Description
KC2_PC1	F0	10.30.40.10	/24	40	KC2_A
KC2_PC2	F0	10.30.41.10	/24	41	KC2_B

3.3 VLAN Configuration

Switch Device	VLAN No	VLAN Name	Description
KC2_S1	40	KC2_A	User Network 1
KC2_S2	41	KC2_B	User Network 2

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4. NETWORK SUMMARY

4.1 Public IP Addresses

- **Kantor Pusat**: 202.10.20.2/29
- **Kantor Cabang 1**: 203.100.200.1/29
- **Kantor Cabang 2**: 210.50.70.2/29

4.2 Private IP Network Ranges

- **Kantor Pusat**: 10.10.x.x
- **Kantor Cabang 1**: 10.20.x.x
- **Kantor Cabang 2**: 10.30.x.x

4.3 Point-to-Point Links

- **KP_R3** ↔ **KP_R1**: 10.10.1.0/30
- **KP_R3** ↔ **KP_R2**: 10.10.1.4/30
- **KC1_R1** ↔ **KC1_R2**: 10.20.1.0/30
- **KC2_R1** ↔ **KC2_R2**: 10.30.1.0/30

Catatan:

- Semua jaringan pengguna menggunakan VLAN sesuai requirement
- Koneksi internet menggunakan NAT/PAT untuk user networks
- Server networks menggunakan static NAT
- Internal routing menggunakan dynamic routing protocol (RIP/EIGRP/OSPF)