



DOKUMENTASI PROYEK AKHIR DESAIN MANAJEMEN JARINGAN KOMPUTER

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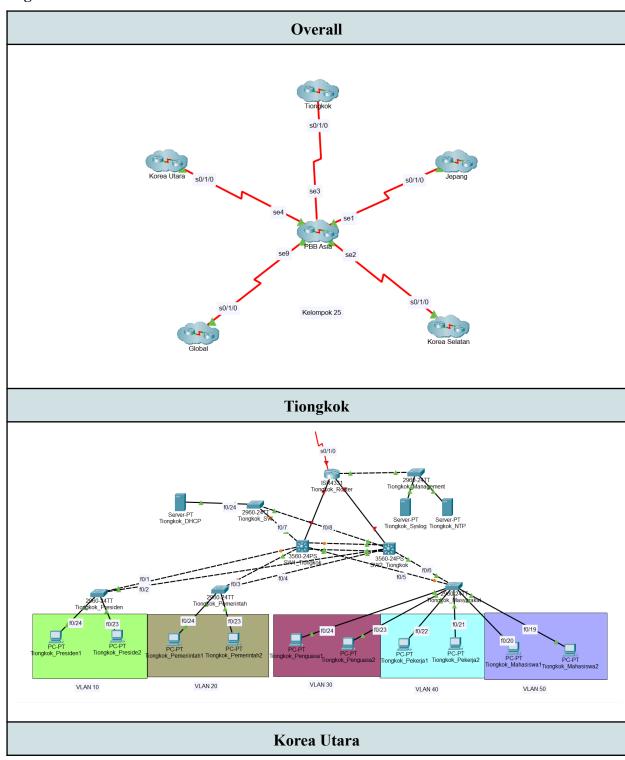


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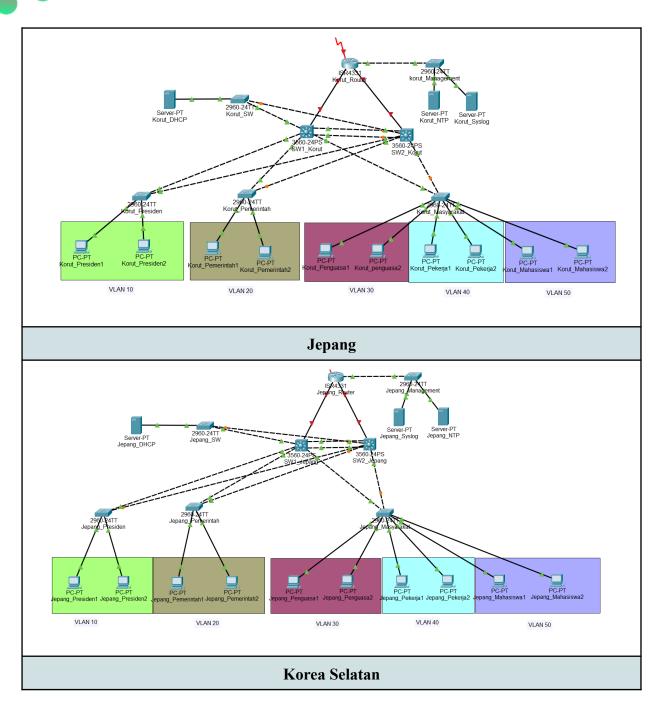


PART I: TOPOLOGI

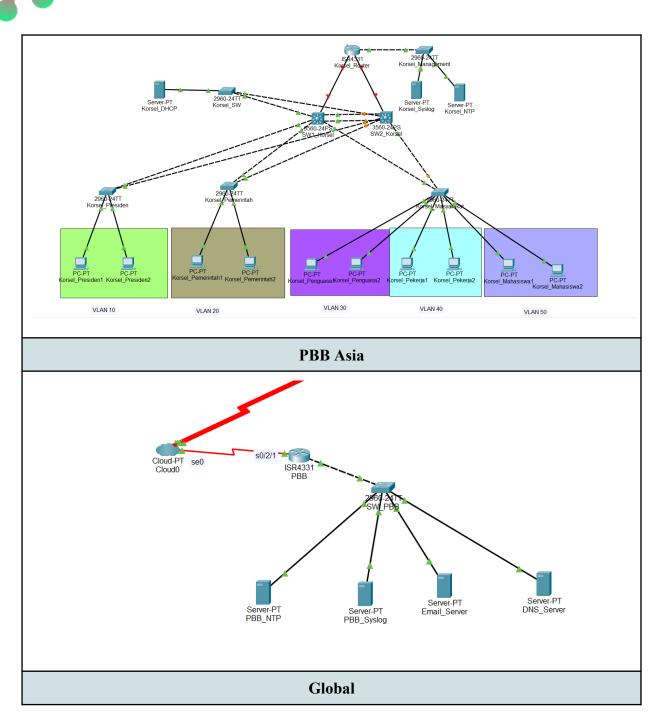
1.1. Logical



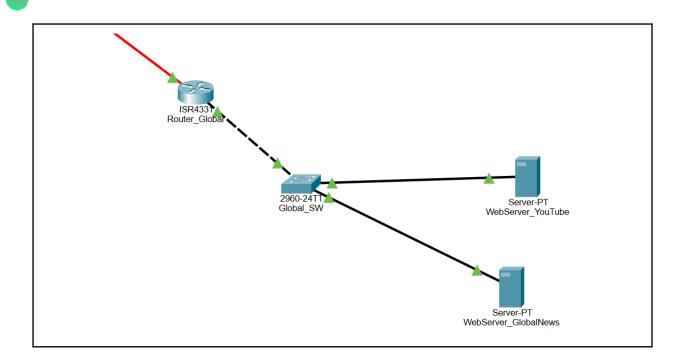




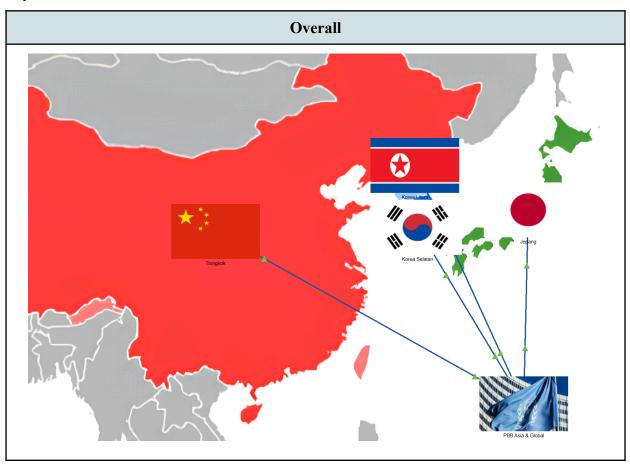








1.2. Physical





PART II: RINCIAN JUMLAH HOST & SUBNETTING

Cluster		Jumlah (Per Negara/Bagian)	Subnet yang dibutuhkan
	Presiden	2	255.255.255.248/29
T: 1.1	Pemerintah	49	255.255.255.192/26
Tiongkok, Korut, Korsel,	Pengusaha	26	255.255.255.192/26
Jepang	Pekerja	156	255.255.255.0/24
	Mahasiswa	78	255.255.255.128/25
PBB		10	255.255.255.224 /27
Global		1	255.255.255.224 /27

2.1 Tiongkok

Presiden

 \rightarrow Total Host Dibutuhkan: 2 + 1 (gateway) = 3 Hosts

➤ Network Address: 192.0.12.0

> Subnet Mask: 255.255.255.248 (/29)

➤ Usable Hosts: 6

➤ Usable IP Range: 192.0.12.1 – 192.0.12.6

➤ Broadcast Address: 192.0.12.7

Pemerintah

ightharpoonup Total Host Dibutuhkan: 49 + 1 (gateway) + 3 (servers) = 53 Hosts

➤ Network Address: 192.0.11.192

> Subnet Mask: 255.255.255.192 (/26)

➤ Usable Hosts: 62

➤ Usable IP Range: 192.0.11.193 – 192.0.11.254

➤ Broadcast Address: 192.0.11.255

Pengusaha

 \rightarrow Total Host Dibutuhkan: 26 + 1 (gateway) = 27 Hosts



➤ Network Address: 192.0.11.128

➤ Subnet Mask: 255.255.255.192 (/26)

➤ Usable Hosts: 62

➤ Usable IP Range: 192.0.11.129 – 192.0.11.190

➤ Broadcast Address: 192.0.11.191

Pekerja

➤ Total Host Dibutuhkan: 156 + 1 (gateway) = 157 Hosts

Network Address: 192.0.10.0

➤ Subnet Mask: 255.255.255.0 (/24)

➤ Usable Hosts: 254

➤ Usable IP Range: 192.0.10.1 – 192.0.10.254

➤ Broadcast Address: 192.0.10.255

Mahasiswa

ightharpoonup Total Host Dibutuhkan: 78 + 1 (gateway) = 79 Hosts

➤ Network Address: 192.0.11.0

> Subnet Mask: 255.255.255.128 (/25)

➤ Usable Hosts: 126

➤ Usable IP Range: 192.0.11.1 – 192.0.11.126

➤ Broadcast Address: 192.0.11.127

2.2 Korea Utara

Presiden

> Total Host Dibutuhkan: 3

➤ Network Address: 192.1.12.0

➤ Subnet Mask: 255.255.255.248 (/29)

➤ Usable Hosts: 6

➤ Usable IP Range: 192.1.12.1 – 192.1.12.6

➤ Broadcast Address: 192.1.12.7

Pemerintah

> Total Host Dibutuhkan: 53

➤ Network Address: 192.1.11.192

➤ Subnet Mask: 255.255.255.192 (/26)



➤ Usable Hosts: 62

➤ Usable IP Range: 192.1.11.193 – 192.1.11.254

➤ Broadcast Address: 192.1.11.255

Pengusaha

> Total Host Dibutuhkan: 27

> Network Address: 192.1.11.128

➤ Subnet Mask: 255.255.255.192 (/26)

➤ Usable Hosts: 62

➤ Usable IP Range: 192.1.11.129 – 192.1.11.190

➤ Broadcast Address: 192.1.11.191

• Pekerja

> Total Host Dibutuhkan: 157

➤ Network Address: 192.1.10.0

➤ Subnet Mask: 255.255.255.0 (/24)

➤ Usable Hosts: 254

➤ Usable IP Range: 192.1.10.1 – 192.1.10.254

➤ Broadcast Address: 192.1.10.255

Mahasiswa

> Total Host Dibutuhkan: 79

➤ Network Address: 192.1.11.0

> Subnet Mask: 255.255.255.128 (/25)

➤ Usable Hosts: 126

➤ Usable IP Range: 192.1.11.1 – 192.1.11.126

➤ Broadcast Address: 192.1.11.127

2.3 Jepang

Presiden

> Total Host Dibutuhkan: 3

➤ Network Address: 192.2.12.0

> Subnet Mask: 255.255.255.248 (/29)

➤ Usable Hosts: 6

➤ Usable IP Range: 192.2.12.1 – 192.2.12.6



➤ Broadcast Address: 192.2.12.7

Pemerintah

> Total Host Dibutuhkan: 53

> Network Address: 192.2.11.192

➤ Subnet Mask: 255.255.255.192 (/26)

➤ Usable Hosts: 62

➤ Usable IP Range: 192.2.11.193 – 192.2.11.254

➤ Broadcast Address: 192.2.11.255

Pengusaha

> Total Host Dibutuhkan: 27

➤ Network Address: 192.2.11.128

➤ Subnet Mask: 255.255.255.192 (/26)

➤ Usable Hosts: 62

➤ Usable IP Range: 192.2.11.129 – 192.2.11.190

➤ Broadcast Address: 192.2.11.191

Pekerja

> Total Host Dibutuhkan: 157

➤ Network Address: 192.2.10.0

Subnet Mask: 255.255.255.0 (/24)

➤ Usable Hosts: 254

➤ Usable IP Range: 192.2.10.1 – 192.2.10.254

➤ Broadcast Address: 192.2.10.255

Mahasiswa

> Total Host Dibutuhkan: 79

➤ Network Address: 192.2.11.0

> Subnet Mask: 255.255.255.128 (/25)

➤ Usable Hosts: 126

➤ Usable IP Range: 192.2.11.1 – 192.2.11.126

➤ Broadcast Address: 192.2.11.127

2.4 Korea Selatan

Presiden



> Total Host Dibutuhkan: 3

➤ Network Address: 192.3.12.0

> Subnet Mask: 255.255.255.248 (/29)

➤ Usable Hosts: 6

➤ Usable IP Range: 192.3.12.1 – 192.3.12.6

➤ Broadcast Address: 192.3.12.7

Pemerintah

➤ Total Host Dibutuhkan: 53

> Network Address: 192.3.11.192

> Subnet Mask: 255.255.255.192 (/26)

➤ Usable Hosts: 62

➤ Usable IP Range: 192.3.11.193 – 192.3.11.254

➤ Broadcast Address: 192.3.11.255

• Pengusaha

> Total Host Dibutuhkan: 27

> Network Address: 192.3.11.128

> Subnet Mask: 255.255.255.192 (/26)

➤ Usable Hosts: 62

➤ Usable IP Range: 192.3.11.129 – 192.3.11.190

➤ Broadcast Address: 192.3.11.191

Pekerja

> Total Host Dibutuhkan: 157

➤ Network Address: 192.3.10.0

> Subnet Mask: 255.255.255.0 (/24)

➤ Usable Hosts: 254

➤ Usable IP Range: 192.3.10.1 – 192.3.10.254

➤ Broadcast Address: 192.3.10.255

Mahasiswa

> Total Host Dibutuhkan: 79

➤ Network Address: 192.3.11.0

Subnet Mask: 255.255.255.128 (/25)

➤ Usable Hosts: 126



➤ Usable IP Range: 192.3.11.1 – 192.3.11.126

➤ Broadcast Address: 192.3.11.127

2.5 PBB

➤ Total Host Dibutuhkan: 10 Administrator + 1 Default Gateway + 4 Server = 15 Hosts

➤ Network Address: 40.0.0.0

> Subnet Mask: 255.255.255.224 (/27)

➤ Usable Hosts: 30

➤ Usable IP Range: 40.0.0.1 – 40.0.0.30

➤ Broadcast Address: 40.0.0.31

2.6 Global

> Total Host Dibutuhkan: 1 administrator + 1 default gateway + 2 server = 4 Hosts

> Network Address: 50.0.0.0

➤ Subnet Mask: 255.255.255.224 (/27)

➤ Usable Hosts: 6

➤ Usable IP Range: 50.0.0.1 – 50.0.0.6

➤ Broadcast Address: 50.0.0.7



PART III: TABEL IP ADDRESS

3.1 Network Address

Cluster	VLAN	Network Address	Subnet	Gateway
	10	192.0.12.0	/29 (255.255.255.248)	192.0.12.1
	20	192.0.11.192	/26 (255.255.255.192)	192.0.11.193
Tiongkok	30	192.0.11.128	/26 (255.255.255.192)	192.0.11.129
	40	192.0.10.0	/24 (255.255.255.0)	192.0.10.1
	50	192.0.11.0	/25 (255.255.255.128)	192.0.11.1
	10	192.1.12.0	/29 (255.255.255.248)	192.1.12.1
	20	192.1.11.192	/26 (255.255.255.192)	192.1.11.193
Korea Utara	30	192.1.11.128	/26 (255.255.255.192)	192.1.11.129
	40	192.1.10.0	/24 (255.255.255.0)	192.1.10.1
	50	192.1.11.0	/25 (255.255.255.128)	192.1.11.1
	10	192.2.12.0	/29 (255.255.255.248)	192.2.12.1
	20	192.2.11.192	/26 (255.255.255.192)	192.2.11.193
Jepang	30	192.2.11.128	/26 (255.255.255.192)	192.2.11.129
	40	192.2.10.0	/24 (255.255.255.0)	192.2.10.1
	50	192.2.11.0	/25 (255.255.255.128)	192.2.11.1
	10	192.3.12.0	/29 (255.255.255.248)	192.3.12.1
	20	192.3.11.192	/26 (255.255.255.192)	192.3.11.193
Korea Selatan	30	192.3.11.128	/26 (255.255.255.192)	192.3.11.129
	40	192.3.10.0	/24 (255.255.255.0)	192.3.10.1
	50	192.3.11.0	/25 (255.255.255.128)	192.3.11.1
PBB	1	40.0.0.0	/27(255.255.255.224)	40.0.0.1
Global	1	50.0.0.0	/29(255.255.255.248)	50.0.0.1



3.2 IP Addressing per Device

Device	Interface	Address	Subnet
Router Tiongkok	s0/1/0	10.0.0.3	255.255.255.248 (/29)
DHCP Tiongkok	NIC	192.0.12.3	255.255.255.192 (/26)
NTP Tiongkok	NIC	192.0.12.4	255.255.255.192 (/26)
Syslog Tiongkok	NIC	192.0.12.5	255.255.255.192 (/26)
Router Jepang	s0/1/0	10.0.0.4	255.255.255.248 (/29)
DHCP Jepang	NIC	192.2.12.3	255.255.255.192 (/26)
NTP Jepang	NIC	192.2.12.4	255.255.255.192 (/26)
Syslog Jepang	NIC	192.2.12.5	255.255.255.192 (/26)
Router Korea Utara	s0/1/0	10.0.0.5	255.255.255.248 (/29)
DHCP Korea Utara	NIC	192.1.12.3	255.255.255.192 (/26)
NTP Korea Utara	NIC	192.1.12.4	255.255.255.192 (/26)
Syslog Korea Utara	NIC	192.1.12.5	255.255.255.192 (/26)
Router Korea Selatan	s0/1/0	10.0.0.6	255.255.255.248 (/29)
DHCP Korea Selatan	NIC	192.3.12.3	255.255.255.192 (/26)
NTP Korea Selatan	NIC	192.3.12.4	255.255.255.192 (/26)
Syslog Korea Selatan	NIC	192.3.12.5	255.255.255.192 (/26)
Doutes DDD	S0/2/1	40.0.0.2	255.255.255.248 (/29)
Router PBB	g0/0/0	192.168.100.1	255.255.255.0(/24)
DNS Server	NIC	40.0.0.4	255.255.255.224 (/27)
E-mail Server	NIC	40.0.0.5	255.255.255.224 (/27)
Router Global	S0/1/0	50.0.0.2	255.255.255.248 (/29)
Web-Server	NIC	50.0.0.3	255.255.255.248 (/29)



PART IV: TABEL VLAN

Perwakilan	VLAN
Presiden	10
Pemerintah	20
Pengusaha	30
Pekerja	40
Mahasiswa	50
Native	99



PART V: KONFIGURASI

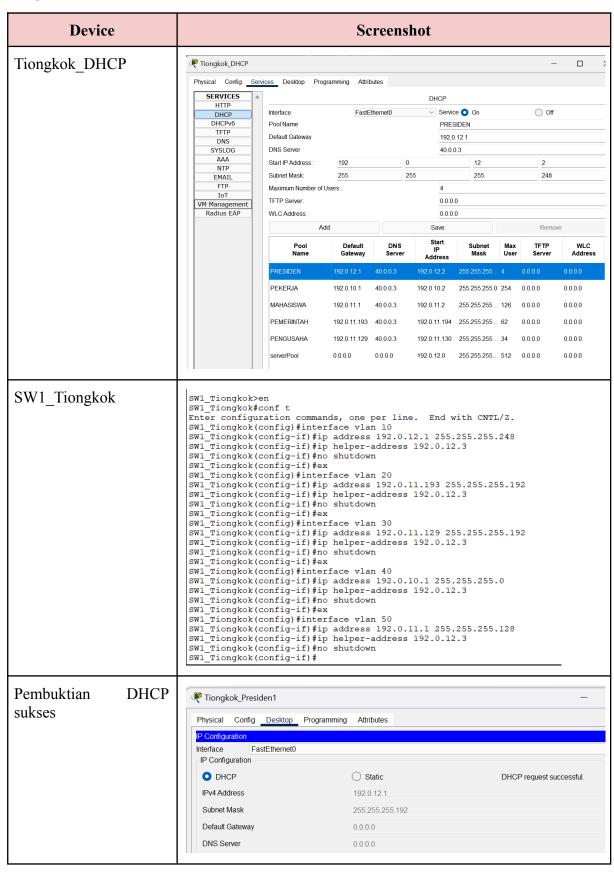
5.1 Tiongkok

a. Hostnames

Device	Screenshot	
Tiongkok_Router	Router>enable Router#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Router(config)#hostname Tiongkok_Router Tiongkok_Router(config)#	
Tiongkok_SW	Switch>enable Switch#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Switch(config)#hostname Tiongkok_SW Tiongkok_SW(config)#	
Tiongkok_Presiden	Switch>enable Switch#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Switch(config)#hostname Tiongkok_Presiden Tiongkok_Presiden(config)#	
Tiongkok_Pemerintah	Switch>enable Switch#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Switch(config) #hostname Tiongkok_Pemerintah Tiongkok_Pemerintah(config) #	
Tiongkok_Masyarakat	Switch>enable Switch#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Switch(config)#hostname Tiongkok_Masyarakat Tiongkok_Masyarakat(config)#	
SW1_Tiongkok	Switch>enable Switch#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Switch(config) #hostname SW1_Tiongkok SW1 Tiongkok(config) #	
SW2_Tiongkok	Switch>enable Switch#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Switch(config)#hostname SW2_Tiongkok SW2_Tiongkok(config)#	
Tiongkok_Management	Switch>enable Switch#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Switch(config)#hostname Tiongkok_Management Tiongkok_Management(config)#	



b. DHCP





c. Etherchannel

Device	Screenshot
SW1_Tiongkok	SW1_Tiongkok> SW1_Tiongkok>en SW1_Tiongkok#conf t Enter configuration commands, one per line. End with CNTL/Z. SW1_Tiongkok(config) #int r fa0/23-24 SW1_Tiongkok(config-if-range) #switchport trunk encapsulation dot1q SW1_Tiongkok(config-if-range) #switchport mode trunk SW1_Tiongkok(config-if-range) #switchport trunk allowed vlan 10,20,30,40,50 SW1_Tiongkok(config-if-range) #channel-group 1 mode desirable SW1_Tiongkok(config-if-range) #no shut SW1_Tiongkok(config-if-range) #int port-channel 1 SW1_Tiongkok(config-if) #switchport trunk encapsulation dot1q SW1_Tiongkok(config-if) #switchport trunk SW1_Tiongkok(config-if) #switchport trunk
	SW1_Tiongkok(config-if)#switchport trunk allowed vlan 10,20,30,40,50 SW1_Tiongkok(config-if)#no shut
SW2_Tiongkok	SW2_Tiongkok>en SW2_Tiongkok#conf t Enter configuration commands, one per line. End with CNTL/Z. SW2_Tiongkok(config)#int r fa0/23-24 SW2_Tiongkok(config-if-range)#switchport trunk encapsulation dot1q SW2_Tiongkok(config-if-range)#switchport mode trunk SW2_Tiongkok(config-if-range)#switchport trunk allowed vlan 10,20,30,40,50 SW2_Tiongkok(config-if-range)#channel-group 1 mode auto SW2_Tiongkok(config-if-range)#no shut
	SW2_Tiongkok(config-if-range)#int port-channel 1 SW2_Tiongkok(config-if)#switchport trunk encapsulation dot1q SW2_Tiongkok(config-if)#switchport mode trunk SW2_Tiongkok(config-if)#switchport trunk allowed vlan 10,20,30,40,50 SW2_Tiongkok(config-if)#no shut

d. VLAN

Device	Screenshot
Tiongkok_SW	Tiongkok_SW>enable Tiongkok_SW#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Tiongkok_SW(config) #vlan 10 Tiongkok_SW(config-vlan) # name PRESIDEN Tiongkok_SW(config-vlan) #vlan 20 Tiongkok_SW(config-vlan) # name PEMERINTAH Tiongkok_SW(config-vlan) #vlan 30 Tiongkok_SW(config-vlan) #vlan 30 Tiongkok_SW(config-vlan) #vlan 40 Tiongkok_SW(config-vlan) #vlan 40 Tiongkok_SW(config-vlan) # name PEKERJA Tiongkok_SW(config-vlan) #vlan 50 Tiongkok_SW(config-vlan) # name MAHASISWA Tiongkok_SW(config-vlan) # name MAHASISWA Tiongkok_SW(config-vlan) #



SW1_Tiongkok	SW1_Tiongkok>enable SW1_Tiongkok#configure terminal Enter configuration commands, one per line. End with CNTL/Z. SW1_Tiongkok(config) #ip routing SW1_Tiongkok(config) #interface vlan 10 SW1_Tiongkok(config-if) #ip address 192.0.12.1 255.255.255.248 SW1_Tiongkok(config-if) #in shutdown SW1_Tiongkok(config-if) #interface vlan 20 SW1_Tiongkok(config-if) #in address 192.0.11.193 255.255.255.192 SW1_Tiongkok(config-if) #in shutdown SW1_Tiongkok(config-if) #in shutdown SW1_Tiongkok(config-if) #in shutdown SW1_Tiongkok(config-if) #in address 192.0.11.129 255.255.255.192 SW1_Tiongkok(config-if) #in shutdown SW1_Tiongkok(config-if) #in shutdown SW1_Tiongkok(config-if) #in terface vlan 40 SW1_Tiongkok(config-if) #in shutdown SW1_Tiongkok(config-if) #i
SW2_Tiongkok	SW2_Tiongkok>enable SW2_Tiongkok#configure terminal Enter configuration commands, one per line. End with CNTL/Z. SW2_Tiongkok(config) #ip routing SW2_Tiongkok(config) #interface vlan 10 SW2_Tiongkok(config-if) #ip address 192.0.12.1 255.255.255.248 SW2_Tiongkok(config-if) #in shutdown SW2_Tiongkok(config-if) #interface vlan 20 SW2_Tiongkok(config-if) #ip address 192.0.11.193 255.255.255.192 SW2_Tiongkok(config-if) #in shutdown SW2_Tiongkok(config-if) #interface vlan 30 SW2_Tiongkok(config-if) #ip address 192.0.11.129 255.255.255.192 SW2_Tiongkok(config-if) #in shutdown SW2_Tiongkok(config-if) #in shutdown SW2_Tiongkok(config-if) #interface vlan 40 SW2_Tiongkok(config-if) #in ddress 192.0.10.1 255.255.255.0 SW2_Tiongkok(config-if) #in shutdown SW2_Tiongkok(config-if) #in shutdow
Tiongkok_Presiden	Tiongkok_Presiden>enable Tiongkok_Presiden#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Tiongkok_Presiden(config) #vlan 10 Tiongkok_Presiden(config-vlan) #name PRESIDEN Tiongkok_Presiden(config-vlan) #interface range fa0/23 - 24 Tiongkok_Presiden(config-if-range) #switchport mode access Tiongkok_Presiden(config-if-range) #switchport access vlan 10 Tiongkok_Presiden(config-if-range) #interface range fa0/1-2 Tiongkok_Presiden(config-if-range) #switchport mode trunk Tiongkok_Presiden(config-if-range) #switchport mode trunk Tiongkok_Presiden(config-if-range) #
Tiongkok_Pemerintah	Tiongkok_Pemerintah>enable Tiongkok_Pemerintah#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Tiongkok_Pemerintah(config)#vlan 20 Tiongkok_Pemerintah(config-vlan)#name PEMERINTAH Tiongkok_Pemerintah(config-vlan)#interface range fa0/23 - 24 Tiongkok_Pemerintah(config-if-range)#switchport mode access Tiongkok_Pemerintah(config-if-range)#switchport access vlan 20 Tiongkok_Pemerintah(config-if-range)#interface range fa0/3-4 Tiongkok_Pemerintah(config-if-range)#switchport mode trunk Tiongkok_Pemerintah(config-if-range)#

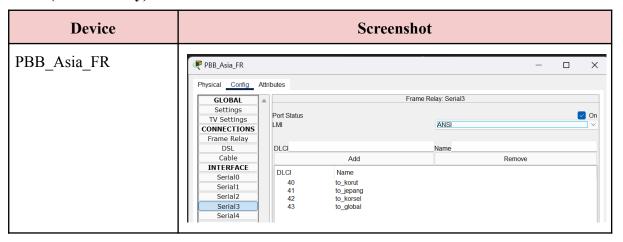


```
Tiongkok_Masyarakat
                                   Tiongkok_Masyarakat>enable
                                   Tiongkok_Masyarakat#configure terminal
                                   Enter configuration commands, one per line. End with {\tt CNTL/Z.}
                                   Tiongkok_Masyarakat(config)#vlan 30
Tiongkok_Masyarakat(config-vlan)#name PENGUSAHA
                                   Tiongkok Masyarakat (config-vlan) #vlan 40
                                   Tiongkok_Masyarakat(config-vlan) #name PEKERJA
                                   Tiongkok_Masyarakat(config-vlan)#vlan 50
                                   Tiongkok_Masyarakat(config-vlan)#name MAHASISWA
                                   Tiongkok_Masyarakat(config-vlan)#interface range fa0/23 - 24
Tiongkok_Masyarakat(config-if-range)#switchport mode access
                                   Tiongkok_Masyarakat(config-if-range) #switchport access vlan 30
                                   Tiongkok_Masyarakat(config-if-range)#interface range fa0/21 - 22
                                   Tiongkok_Masyarakat(config-if-range) #switchport mode access
                                   Tiongkok_Masyarakat(config-if-range) #switchport access vlan 40
                                   Tiongkok_Masyarakat(config-if-range)#interface range fa0/19 - 20
Tiongkok_Masyarakat(config-if-range)#switchport mode access
                                   Tiongkok_Masyarakat(config-if-range) #switchport access vlan 50
                                   Tiongkok_Masyarakat(config-if-range)#interface range fa0/5-6
                                   Tiongkok_Masyarakat(config-if-range)#switchport mode trunk
                                   Tiongkok_Masyarakat(config-if-range)#
```

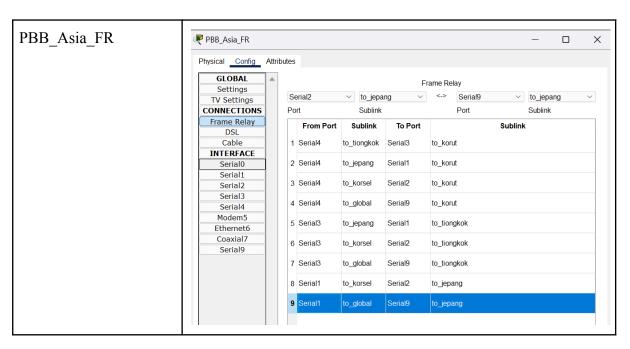
e. EIGRP

Device	Screenshot
Tiongkok_Router	Tiongkok_Router>enable Tiongkok_Router#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Tiongkok_Router(config) #interface s0/1/0 Tiongkok_Router(config-if) #ip address 10.0.0.3 255.255.255.248 Tiongkok_Router(config-if) #encapsulation frame-relay Tiongkok_Router(config-if) #forme-relay map ip 10.0.0.5 40 broadcast Tiongkok_Router(config-if) #frame-relay map ip 10.0.0.4 41 broadcast Tiongkok_Router(config-if) #frame-relay map ip 10.0.0.6 42 broadcast Tiongkok_Router(config-if) #frame-relay map ip 10.0.0.6 42 broadcast Tiongkok_Router(config-if) #frame-relay map ip 10.0.0.2 43 broadcast Tiongkok_Router(config-if) #frame-relay map ip 10.0.0.2 43 broadcast Tiongkok_Router(config-if) #router eigrp 25 Tiongkok_Router(config-router) #network 192.0.10.0 0.0.0.255 Tiongkok_Router(config-router) #network 192.0.11.0 0.0.0.127 Tiongkok_Router(config-router) #network 192.0.11.128 0.0.0.63 Tiongkok_Router(config-router) #network 192.0.11.120 0.0.0.7 Tiongkok_Router(config-router) #network 192.0.12.0 0.0.0.7 Tiongkok_Router(config-router) #network 10.0.0.0 0.0.0.7

f. WAN (Frame Relay)







g. ACL

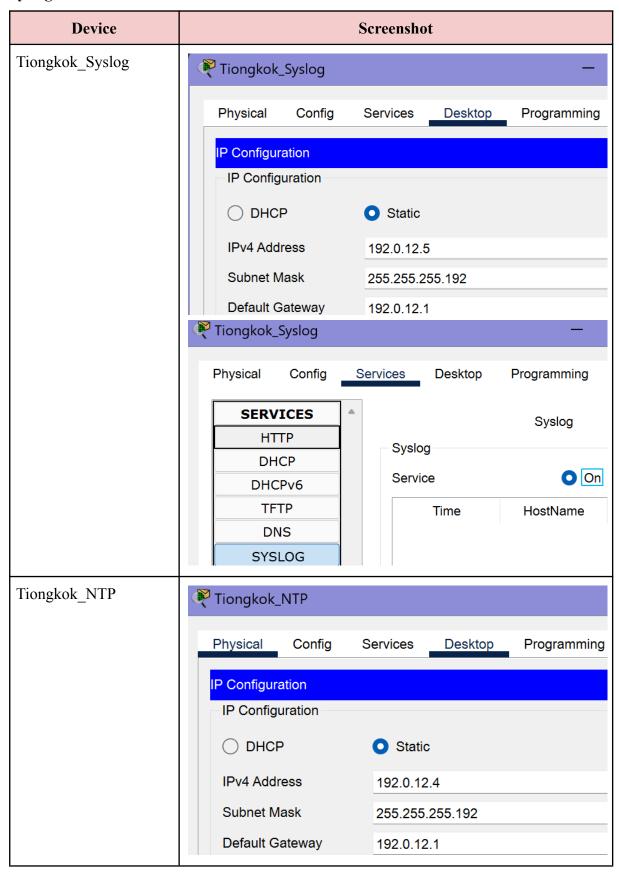
Device	Screenshot	
Tiongkok_Router	Tiongkok_Router>en Tiongkok_Router#conf t Enter configuration commands, one per line. End with CNTL/Z. Tiongkok_Router(config) #access-list 100 permit ip 192.0.12.0 0.0.0.7 192.1.12.0 0.0.0.7 Tiongkok_Router(config) #access-list 100 permit ip 192.0.12.0 0.0.0.7 40.0.0.0 0.0.0.31 Tiongkok_Router(config) #access-list 100 permit ip 192.0.11.192 0.0.0.63 192.1.11.192 0.0.0.63 Tiongkok_Router(config) #access-list 100 permit ip 192.0.11.192 0.0.0.63 192.1.11.192 0.0.0.63 Tiongkok_Router(config) #access-list 100 deny ip 192.0.11.102 0.0.0.63 40.0.0.0 0.0.0.31 Tiongkok_Router(config) #access-list 100 deny ip 192.0.10.0.0.0.0.34 Tiongkok_Router(config) #access-list 100 deny ip 192.0.10.0.0.0.0.127 any Tiongkok_Router(config) #access-list 100 deny ip any 50.0.0.0 0.0.127 any Tiongkok_Router(config) #access-list 100 permit ip any any Tiongkok_Router(config) #access-list 100 permit ip any any Tiongkok_Router(config) #interface serial0/1/0 Tiongkok_Router(config) #interface serial0/1/0 Tiongkok_Router(config-if) # ip access-group 100 out Tiongkok_Router(config-if) #access-list 101 permit gre host 10.0.0.3 host 10.0.0.5 Tiongkok_Router(config) #access-list 101 permit ip any any Tiongkok_Router(config) #interface tunnel0 Tiongkok_Router(config) #interface tunnel0 Tiongkok_Router(config-if) # ip access-group 101 in %LINK-S-CHANGED: Interface Tunnel0, changed state to up	

h. NAT

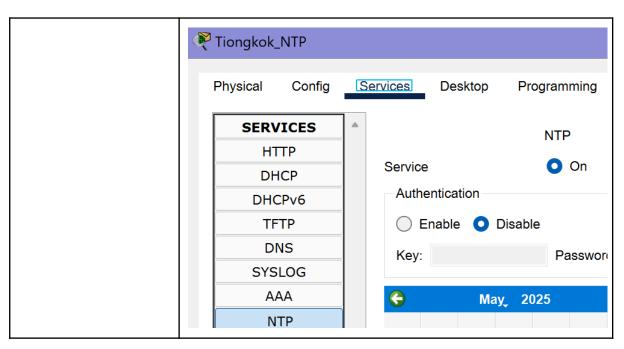
Device	Screenshot	
Tiongkok_Router	Tiongkok_Router>en Tiongkok_Router\$conf t Enter configuration commands, one per line. End with CNTL/Z. Tiongkok_Router(config)\$access-list 10 permit 192.0.12.0 0.0.0.7 Tiongkok_Router(config)\$access-list 10 permit 192.0.11.192 0.0.0.63 Tiongkok_Router(config)\$Tiongkok_Router(config)\$permit 192.0.11.192 0.0.0.63 Tiongkok_Router(config)\$permit 10 interface serial0/1/0 overload Tiongkok_Router(config)\$permit 10 interface serial0/1/0 overload Tiongkok_Router(config)\$permit 10 interface serial0/1/0 overload Tiongkok_Router(config)\$permit 10 interface serial0/1/0 Tiongkok_Router(config-if)\$permit 10 interface Tiongkok_Router(config-if	



i. Syslog & NTP









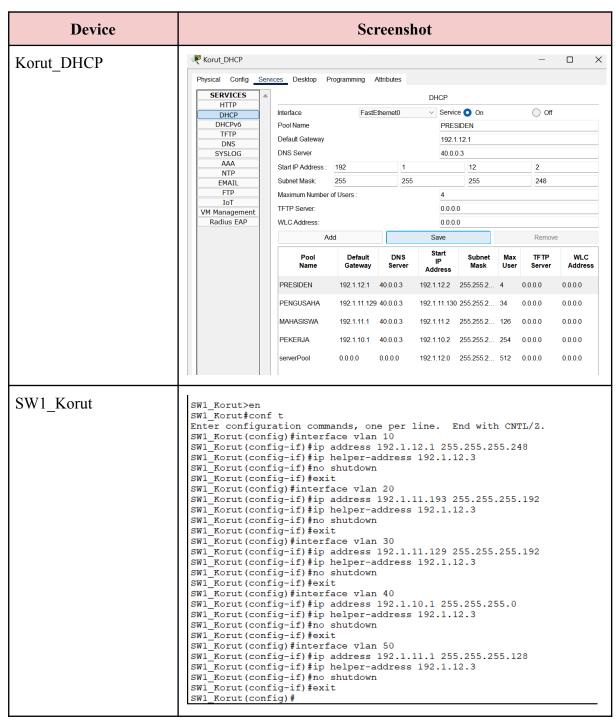
5.2 Korea Utara

a. Hostnames

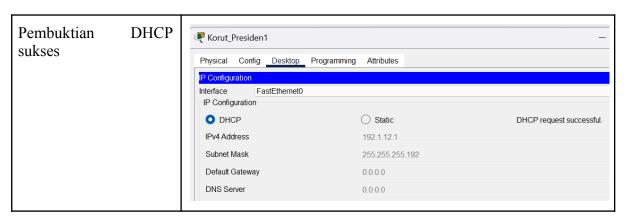
Device	Screenshot	
Korut_Router	Router>enable Router#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Router(config)#hostname Korut_Router Korut_Router(config)# Korut_Router(config)#	
Korut_SW	Switch>enable Switch#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Switch(config)#hostname Korut_SW Korut_SW(config)#	
Korut_Presiden	Switch>enable Switch#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Switch(config)#hostname Korut_Presiden Korut_Presiden(config)#	
Korut_Pemerintah	Switch>enable Switch#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Switch(config)#hostname Korut_Pemerintah Korut_Pemerintah(config)#	
Korut_Masyarakat	Switch>enable Switch#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Switch(config)#hostname Korut_Masyarakat Korut_Masyarakat(config)#	
SW1_Korut	Switch>enable Switch#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Switch(config)#hostname SW1_Korut SW1_Korut(config)#	
SW2_Korut	Switch>enable Switch#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Switch(config) #hostname SW2_Korut SW2_Korut(config) #	
korut_Management	<pre>Switch>enable Switch#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Switch(config)#hostname korut_Management corut_Management(config)#</pre>	



b. DHCP







c. Etherchannel

Device	Screenshot	
SW1_Korut	<pre>SWl_Korut>en SWl_Korut#conf t Enter configuration commands, one per line. End with CNTL/Z. SWl_Korut(config)#int r fa0/23-24 SWl_Korut(config-if-range)#switchport trunk encapsulation dot1q SWl_Korut(config-if-range)#switchport mode trunk SWl_Korut(config-if-range)#switchport trunk allowed vlan 10,20,30,40,50 SWl_Korut(config-if-range)#channel-group 1 mode desirable SWl_Korut(config-if-range)#no shut SWl_Korut(config-if-range)#int port-channel 1 SWl_Korut(config-if)#switchport trunk encapsulation dot1q SWl_Korut(config-if)#switchport mode trunk SWl_Korut(config-if)#switchport trunk allowed vlan 10,20,30,40,50 SWl_Korut(config-if)#switchport trunk allowed vlan 10,20,30,40,50 SWl_Korut(config-if)#no shut</pre>	
SW2_Korut	SW2_Korut>en SW2_Korut#conf t Enter configuration commands, one per line. End with CNTL/Z. SW2_Korut(config)#int r fa0/23-24 SW2_Korut(config-if-range)#switchport trunk encapsulation dot1q SW2_Korut(config-if-range)#switchport mode trunk SW2_Korut(config-if-range)#switchport trunk allowed vlan 10,20,30,40,50 SW2_Korut(config-if-range)#channel-group 1 mode auto SW2_Korut(config-if-range)#no shut	
	SW2_Korut(config-if-range) #int port-channel 1 SW2_Korut(config-if) #switchport trunk encapsulation dot1q SW2_Korut(config-if) #switchport mode trunk SW2_Korut(config-if) #switchport trunk allowed vlan 10,20,30,40,50 SW2_Korut(config-if) #no shut	

d. EIGRP

Device	Screenshot
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```
Korut_Router
                                 Korut_Router>enable
                                 Korut_Router#configure terminal
                                 Enter configuration commands, one per line. End with CNTL/Z. Korut_Router(config) \#interface\ s0/1/0
                                 Korut_Router(config-if)#ip address 10.0.0.5 255.255.258.248
Korut_Router(config-if)#encapsulation frame-relay
                                 Korut Router(config-if) #no shutdown
                                 Korut Router(config-if) #frame-relay map ip 10.0.0.3 50 broadcast
                                 Korut_Router(config-if)#frame-relay map ip 10.0.0.4 51 broadcast
                                 Korut_Router(config-if) #frame-relay map ip 10.0.0.6 52 broadcast
                                 Korut_Router(config-if) #frame-relay map ip 10.0.0.2 53 broadcast
                                 Korut_Router(config-if)#exit
                                 Korut_Router(config) #router eigrp 25
                                 Korut_Router(config-router) #network 192.1.10.0 0.0.0.255
Korut_Router(config-router) #network 192.1.11.0 0.0.0.127
                                 Korut_Router(config-router) #network 192.1.11.128 0.0.0.63
                                 Korut_Router(config-router) #network 192.1.11.192 0.0.0.63
                                 Korut_Router(config-router) #network 192.1.12.0 0.0.0.7
                                 Korut_Router(config-router) #network 10.0.0.0 0.0.0.7
                                 Korut_Router(config-router) #no auto-summary
                                 Korut_Router(config-router)#exit
                                 Korut_Router(config)#
```

e. WAN (Frame Relay)

Device	Screenshot			
PBB_Asia_FR	PBB_Asia_FR Physical Config Attributes GLOBAL Settings TV Settings CONNECTIONS Frame Relay DSL Cable INTERFACE Serial0 Serial1 Serial2 Serial2 Serial3 53	Frame Relay: Serial4 ANSI Name to_global Name to_tiongkok to_jepang to_korsel to_global	■ 0	×

f. ACL

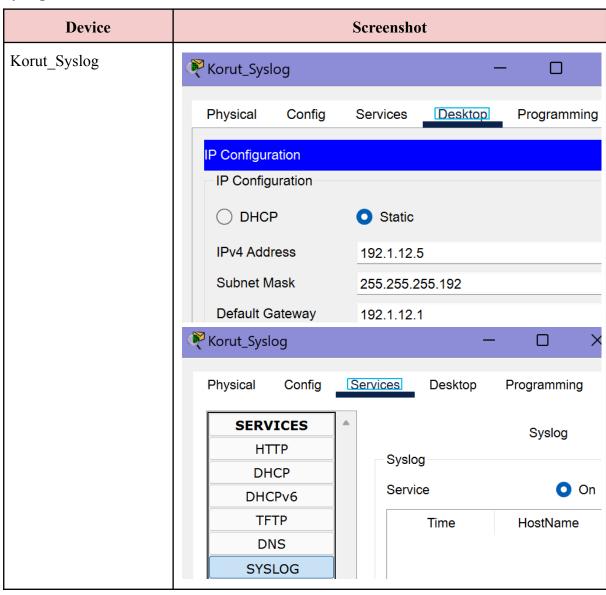
Device	Screenshot
Korut_Router	<pre>Korut_Router>en Korut_Router#conf t Enter configuration commands, one per line. End with CNTL/Z. Korut_Router(config) #access-list 100 permit ip 192.1.12.0 0.0.0.7 192.0.12.0 0.0.0.7 Korut_Router(config) #access-list 100 permit ip 192.1.12.0 0.0.0.7 40.0.0.0 0.0.0.31 Korut_Router(config) #access-list 100 deny ip 192.1.11.192 0.0.0.63 any Korut_Router(config) #access-list 100 deny ip 192.1.11.128 0.0.0.63 any Korut_Router(config) #access-list 100 deny ip 192.1.11.0 0.0.0.255 any Korut_Router(config) #access-list 100 deny ip 192.1.11.0 0.0.0.1257 any Korut_Router(config) #access-list 100 deny ip 192.1.11.0 0.0.0.127 any Korut_Router(config) #access-list 100 permit ip any 50.0.0.0 0.0.031 Korut_Router(config) #access-list 100 permit ip any any Korut_Router(config) #interface serial0/1/0 Korut_Router(config-if) # ip access-group 100 out Korut_Router(config-if) # access-list 101 permit gre host 10.0.0.5 host 10.0.0.3 Korut_Router(config) #access-list 101 permit ip any any Korut_Router(config) #access-list 101 permit ip any any Korut_Router(config) # access-list 101 permit ip any any Korut_Router(config) # access-list</pre>



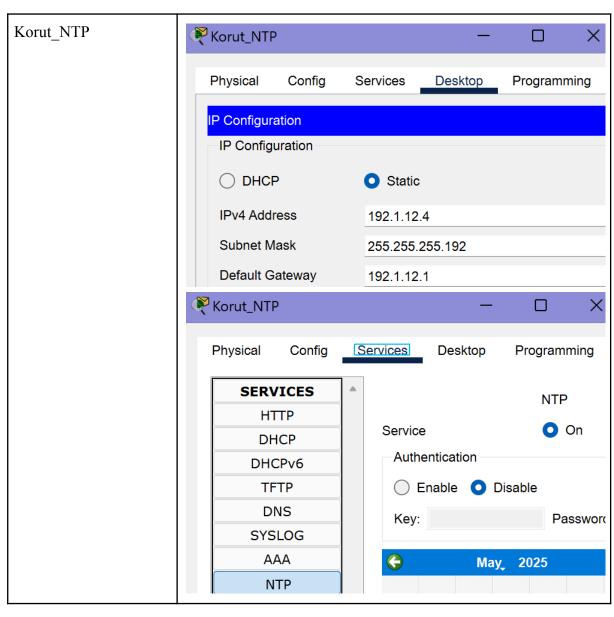
g. NAT

Device	Screenshot	
Korut_Router	<pre>Korut_Router>en Korut_Router#conf t Enter configuration commands, one per line. End with CNTL/2. Korut_Router(config)#access-list 10 permit 192.1.12.0 0.0.0.7 Korut_Router(config)# Korut_Router(config)#ip nat inside source list 10 interface serial0/1/0 overload Korut_Router(config)# Korut_Router(config)#interface g0/0/0 Korut_Router(config-if)# ip nat inside Korut_Router(config-if)# ip nat inside Korut_Router(config-if)# ip nat inside Korut_Router(config-if)#interface g0/0/1 Korut_Router(config-if)#interface serial0/1/0 Korut_Router(config-if)#interface serial0/1/0 Korut_Router(config-if)# ip nat outside</pre>	

h. Syslog & NTP









5.3 Jepang

a. Hostnames

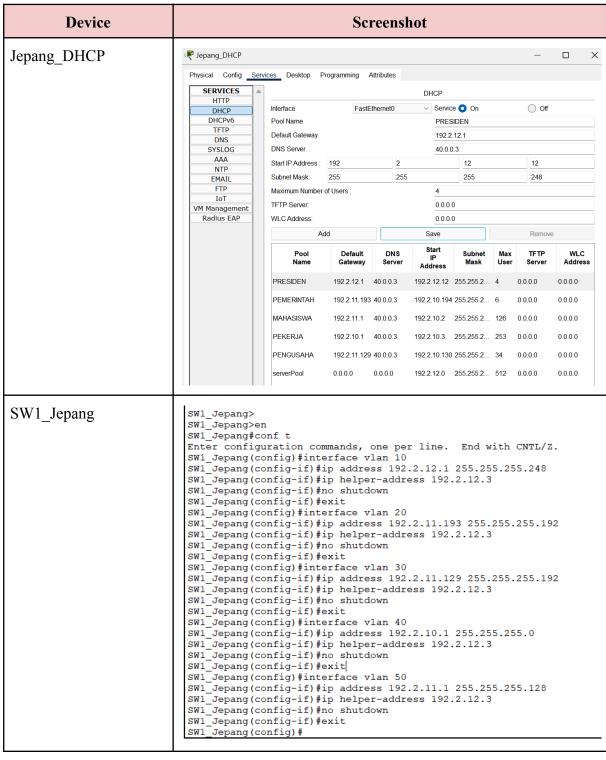
Device	Screenshot	
Jepang_Router	Router>enable Router#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Router(config)#hostname Jepang_Router Jepang_Router(config)#	
Jepang_SW	Switch>enable Switch#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Switch(config) #hostname Jepang_SW Jepang_SW(config) #	
Jepang_Presiden	Switch>enable Switch#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Switch(config)#hostname Jepang_Presiden Jepang_Presiden(config)#	
Jepang_Pemerintah	Switch>enable Switch#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Switch(config)#hostname Jepang_Pemerintah Jepang_Pemerintah(config)#	
Jepang_Masyarakat	Switch>enable Switch#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Switch(config)#hostname Jepang_Masyarakat Jepang_Masyarakat(config)#	
SW1_Jepang	Switch>enable Switch#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Switch(config)#hostname SW1_Jepang SW1_Jepang(config)#	
SW2_Jepang	Switch>enable Switch#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Switch(config) #hostname SW2_Jepang SW2_Jepang(config) #	



```
Jepang_Management

Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config) #hostname Jepang_Management
Jepang_Management(config) #
```

b. DHCP





c. Etherchannel

Device	Screenshot		
SW1_Jepang	SW1_Jepang>en SW1_Jepang#conf t Enter configuration commands, one per line. End with CNTL/Z. SW1_Jepang(config)#int r fa0/23-24 SW1_Jepang(config-if-range)#switchport trunk encapsulation dot1q SW1_Jepang(config-if-range)#switchport mode trunk SW1_Jepang(config-if-range)#switchport trunk allowed vlan 10,20,30,40,50 SW1_Jepang(config-if-range)#channel-group 1 mode desirable SW1_Jepang(config-if-range)#int port-channel 1 SW1_Jepang(config-if)#switchport trunk encapsulation dot1q SW1_Jepang(config-if)#switchport mode trunk SW1_Jepang(config-if)#switchport mode trunk SW1_Jepang(config-if)#switchport trunk allowed vlan 10,20,30,40,50 SW1_Jepang(config-if)#switchport trunk allowed vlan 10,20,30,40,50 SW1_Jepang(config-if)#no shut		
SW2_Jepang	SW2_Jepang>en SW2_Jepang#conf t Enter configuration commands, one per line. End with CNTL/Z. SW2_Jepang(config)#int r fa0/23-24 SW2_Jepang(config-if-range)#switchport trunk encapsulation dot1q SW2_Jepang(config-if-range)#switchport mode trunk SW2_Jepang(config-if-range)#switchport trunk allowed vlan 10,20,30,40,50 SW2_Jepang(config-if-range)#channel-group 1 mode auto SW2_Jepang(config-if-range)#no shut SW2_Jepang(config-if-range)#int port-channel 1 SW2_Jepang(config-if)#switchport trunk encapsulation dot1q SW2_Jepang(config-if)#switchport mode trunk SW2_Jepang(config-if)#switchport trunk allowed vlan 10,20,30,40,50 SW2_Jepang(config-if)#switchport trunk allowed vlan 10,20,30,40,50 SW2_Jepang(config-if)#no shut		
Pembuktian DHCP sukses	Physical Config Desktop Property Processing Desktop	O Static 192.2.12.1 255.255.255.192 0.0.0.0 0.0.0.0	— DHCP request successful.

d. EIGRP

Device	Screenshot
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```
Jepang_Router
                                    Jepang_Router>enable
                                    Jepang_Router#configure terminal
                                    Enter configuration commands, one per line. End with CNTL/Z.
                                    Jepang_Router(config)#interface s0/1/0
                                    Jepang_Router(config-if) #ip address 10.0.0.4 255.255.258.248
Jepang_Router(config-if) #encapsulation frame-relay
Jepang_Router(config-if) #no shutdown
                                    Jepang_Router(config-if) #frame-relay map ip 10.0.0.5 60 broadcast
                                    Jepang_Router(config-if) #frame-relay map ip 10.0.0.3 62 broadcast
Jepang_Router(config-if) #frame-relay map ip 10.0.0.6 64 broadcast
                                    Jepang_Router(config-if) #frame-relay map ip 10.0.0.2 66 broadcast
                                    Jepang_Router(config-if)#exit
                                    Jepang_Router(config) #router eigrp 25
                                    Jepang Router(config-router) #network 192.2.10.0 0.0.0.255
                                    Jepang_Router(config-router) #network 192.2.11.0 0.0.0.127
                                    Jepang_Router(config-router)#network 192.2.11.128 0.0.0.63
                                    Jepang_Router(config-router)#network 192.2.11.192 0.0.0.63
                                    Jepang Router (config-router) #network 192.2.12.0 0.0.0.7
Jepang Router (config-router) #network 10.0.0.0 0.0.0.7
                                    Jepang_Router(config-router)#no auto-summary
                                    Jepang_Router(config-router)#exit
                                    Jepang_Router(config)#
```

e. WAN (Frame Relay)

Device	Screenshot		
PBB_Asia_FR	Physical Config Attributes GLOBAL Settings TV Settings CONNECTIONS Frame Relay DSL Cable INTERFACE Serial0 Serial1 Serial2 Serial3 Serial3 Serial3 Serial4 Serial5 Serial5 Serial6 Serial6 Serial8	Frame Relay: Serial1 ANSI Name Remove	

f. ACL

Device	Screenshot
Jepang_Router	Jepang_Router>en Jepang_Router#conf t Enter configuration commands, one per line. End with CNTL/Z. Jepang_Router(config) #access-list 100 permit ip any any Jepang_Router(config) #access-list 100 permit ip any 50.0.0.0 0.0.31 Jepang_Router(config) # Jepang_Router(config) #interface serial0/1/0 Jepang_Router(config-if) # ip access-group 100 out

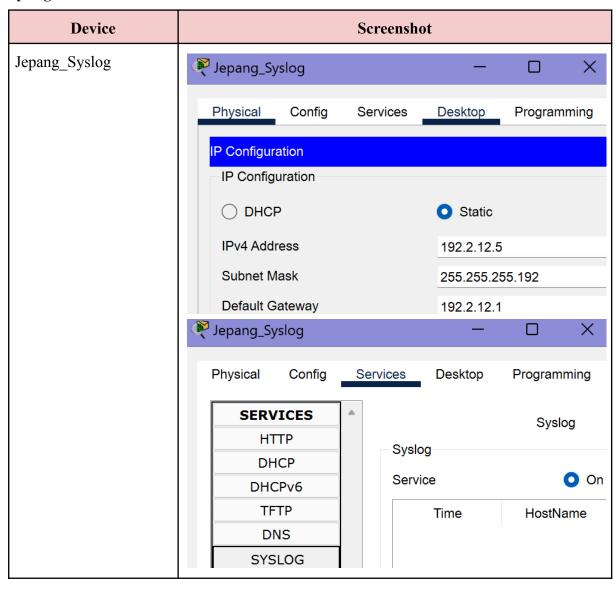
g. NAT

Device	Screenshot
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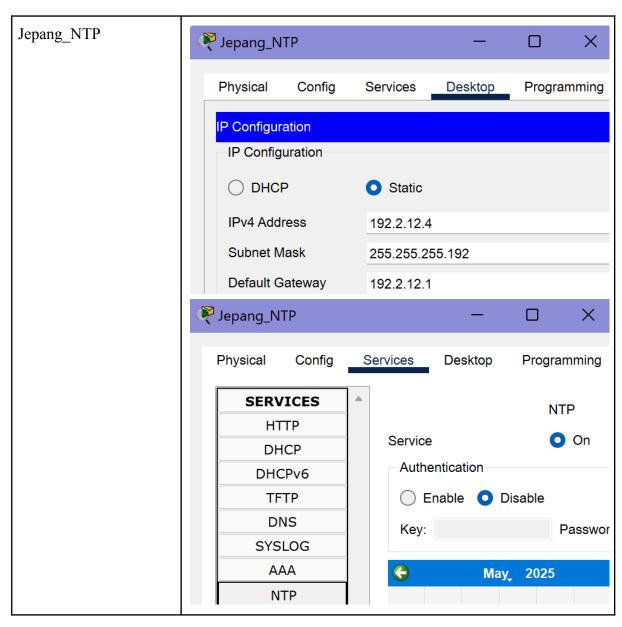


Jepang_Router (config) #interface g0/0/0 Jepang_Router(config-if) # ip nat inside Jepang_Router(config-if) #interface g0/0/1 Jepang_Router(config-if) #interface g0/0/1 Jepang_Router(config-if) # ip nat inside Jepang_Router(config-if) #interface serial0/1/0 Jepang_Router(config-if) # ip nat outside	
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h. Syslog & NTP









5.4 Korea Selatan

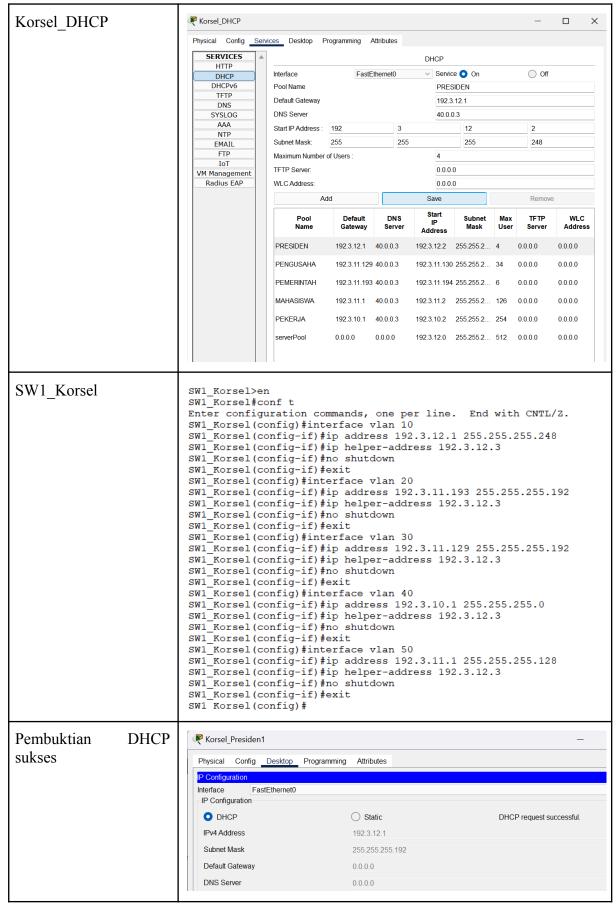
a. Konfigurasi Hostnames

Device	Screenshot
Korsel_Router	Router>enable Router#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Router(config)#hostname Korsel_Router Korsel_Router(config)#
Korsel_SW	Switch>enable Switch#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Switch(config)#hostname Korsel_SW Korsel SW(config)#
Korsel_Presiden	Switch>enable Switch#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Switch(config)#hostname Korsel_Presiden Korsel_Presiden(config)#
Korsel_Pemerintah	Switch>enable Switch#configure terminal Enter configuration commands, one per line. End with CNTL/Z Switch(config)#hostname Korsel_Pemerintah Korsel_Pemerintah(config)#
Korsel_Masyarakat	Switch>enable Switch#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Switch(config)#hostname Korsel_Masyarakat Korsel_Masyarakat(config)#
SW1_Korsel	Switch>enable Switch#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Switch(config)#hostname SW1_Korsel SW1_Korsel(config)#
SW2_Korsel	Switch>enable Switch#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Switch(config) #hostname SW2_Korsel SW2_Korsel(config) #
Korsel_Management	Switch>enable Switch#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Switch(config)#hostname Korsel_Management Korsel_Management(config)#

b. DHCP

Device	Screenshot
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c. Etherchannel

Device	Screenshot
SW1_Korsel	SW1_Korsel>en SW1_Korsel#conf t Enter configuration commands, one per line. End with CNTL/Z. SW1_Korsel(config)#int r fa0/23-24 SW1_Korsel(config-if-range)#switchport trunk encapsulation dot1q SW1_Korsel(config-if-range)#switchport mode trunk SW1_Korsel(config-if-range)#switchport trunk allowed vlan 10,20,30,40,50 SW1_Korsel(config-if-range)#channel-group 1 mode desirable SW1_Korsel(config-if-range)#no shut SW1_Korsel(config-if-range)#int port-channel 1 SW1_Korsel(config-if)#switchport trunk encapsulation dot1q SW1_Korsel(config-if)#switchport mode trunk SW1_Korsel(config-if)#switchport trunk allowed vlan 10,20,30,40,50 SW1_Korsel(config-if)#no shut
SW2_Korsel	SW2_Korsel>en SW2_Korsel#conf t Enter configuration commands, one per line. End with CNTL/Z. SW2_Korsel(config)#int r fa0/23-24 SW2_Korsel(config-if-range)#switchport trunk encapsulation dot1q SW2_Korsel(config-if-range)#switchport mode trunk SW2_Korsel(config-if-range)#switchport trunk allowed vlan 10,20,30,40,50 SW2_Korsel(config-if-range)#channel-group 1 mode auto SW2_Korsel(config-if-range)#no shut SW2_Korsel(config-if)#switchport trunk encapsulation dot1q SW2_Korsel(config-if)#switchport trunk encapsulation dot1q SW2_Korsel(config-if)#switchport mode trunk SW2_Korsel(config-if)#switchport trunk allowed vlan 10,20,30,40,50 SW2_Korsel(config-if)#no shut

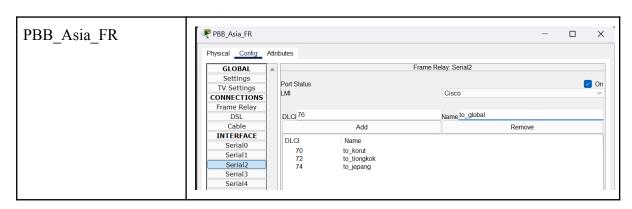
d. EIGRP

Device	Screenshot
Korsel_Router	Korsel_Router\enable Korsel_Router\enable Korsel_Router\enable Enter configuration commands, one per line. End with CNTL/Z. Korsel_Router(config)\pinterface s0/1/0 Korsel_Router(config-if)\pinterface s10.0.0.6 255.255.255.248 Korsel_Router(config-if)\pinterface s10.0.0.6 255.255.255.248 Korsel_Router(config-if)\pinterface s10.0.0.6 255.255.255.248 Korsel_Router(config-if)\pinterface s10.0.0.6 255.255.255.248 Korsel_Router(config-if)\pinterface s10.0.0.5 70 broadcast Korsel_Router(config-if)\pinterface s10.0.0.3 72 broadcast Korsel_Router(config-if)\pinterface s10.0.0.3 72 broadcast Korsel_Router(config-if)\pinterface s10.0.0.4 74 broadcast Korsel_Router(config-if)\pinterface s10.0.0.2 76 broadcast Korsel_Router(config-if)\pinterface s10.0.0.2 76 broadcast Korsel_Router(config-if)\pinterface s10.0.0.0.2 76 broadcast Korsel_Router(config-router)\pinterface s10.0.0.0.0.2 76 Korsel_Router(config-router)\pinterface s10.0.0.0.0.0.0.127 Korsel_Router(config-router)\pinterface s10.0.0.0.0.0.0.0.63 Korsel_Router(config-router)\pinterface s10.0.0.0.0.0.0.0.0.0.0 Korsel_Router(config-router)\pinterface s10.0.0.0.0.0.0.0.0.0 Korsel_Router(config-router)\pinterface s10.0.0.0.0.0.0.0.0.0 Korsel_Router(config-router)\pinterface s10.0.0.0.0.0.0.0.0 Korsel_Router(config-router)\pinterface s10.0.0.0.0.0.0.0 Korsel_Router(config-router)\pinterface s10.0.0.0.0.0.0 Korsel_Router(config-router)\pinterface s10.0.0.0.0 Korsel_Router(config-router)\pinterface s10.0.0.0.0.0.0 Korsel_Router(config-router)\pinterface s10.0.0.0.0.0 Korsel_Router(config-router)\pinterface s10.0.0.0.0 Korsel_Router(config-router)\pinterface s10.0.0.0.0 Korsel_Router(config-router)\pinterface s10.0.0.0.0 Korsel_Router(config-router)\pinterface s10.0.0.0.0 Korsel_Router(config-router)\pinterface s10.0.0.0 Korsel_Router(config-router)\pinterface s10.0.0.0 Korsel_Router(config-router)\pinterface s10.0.0.0 Korsel_Router(config-router)\pinterface s10.0.0.0 Korsel_Router(config-router)\pinterface s10.0.0.0 Korsel_Router(config-router)\pinterface s10.0.0.0 Korsel_Ro

e. WAN (Frame Relay)

Device	Screenshot
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f. ACL

Device	Screenshot
Korsel_Router	<pre>Korsel_Router>en Korsel_Router#conf t Enter configuration commands, one per line. End with CNTL/Z. Korsel_Router(config)#access-list 100 permit ip any any Korsel_Router(config)#access-list 100 permit ip any 50.0.0.0 0.0.31 Korsel_Router(config)# Korsel_Router(config)#interface serial0/1/0 Korsel_Router(config-if)# ip access-group 100 out</pre>

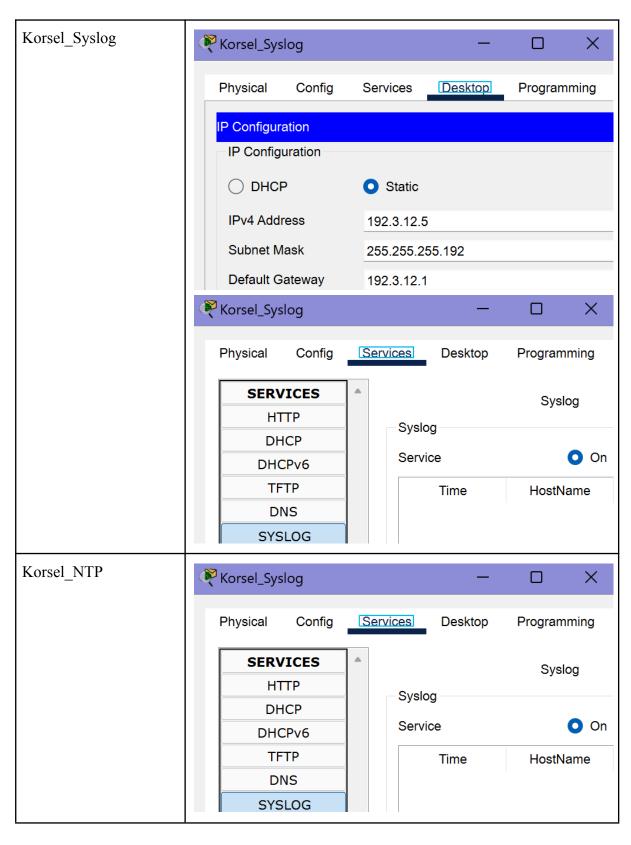
g. NAT

Device	Screenshot
Korsel_Router	Korsel_Router(config) # Korsel_Router(config) #interface g0/0/0 Korsel_Router(config-if) # ip nat inside Korsel_Router(config-if) #interface g0/0/1 Korsel_Router(config-if) # ip nat inside Korsel_Router(config-if) # interface serial0/1/0 Korsel_Router(config-if) # ip nat outside Korsel_Router(config-if) #

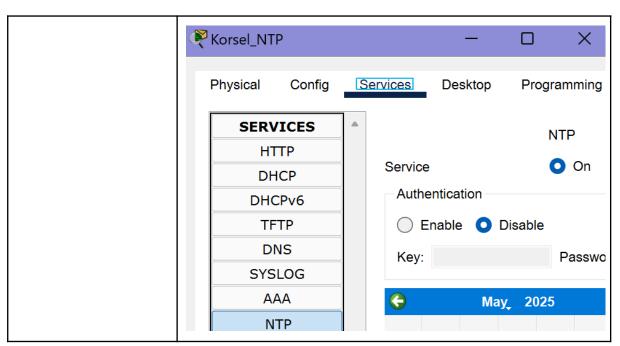
h. Syslog & NTP

Device	Screenshot
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5.4 PBB

a. Hostnames

Device	Screenshot
PBB_SW	Switch>enable Switch#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Switch(config)# Switch(config)#hostname PBB_SW

b. WAN (Frame Relay)

Device			S	creenshot					
PBB_Asia_FR	PBB_Asia_FR							-	
	Physical Config Attri	butes							
	GLOBAL Settings				Frame Rela	у			
	TV Settings	Serial0	· ·	~	<->	Serial	O ~		~
	CONNECTIONS	Port	5	Sublink		Port		Sublink	
	Frame Relay		From Port	Sublink	To P	ort		Sublink	
	DSL	1 Seria	al4	to_tiongkok	Serial3		to_korut		
	Cable				0 : 14				
	INTERFACE	2 Seria	al4	to_jepang	Serial1		to_korut		
	Serial0	3 Seria	al4	to_korsel	Serial2		to_korut		
	Serial1	4 Seria	Ne	to global	Serial9		to korut		
	Serial2	4 3611	alt	to_global	Serials		to_korut		
	Serial3	5 Seria	al3	to_jepang	Serial1		to_tiongkok		
	Serial4	6 Seria	al3	to korsel	Serial2		to tiongkok		
	Modem5	0 00	4.0	to_norodi	Condiz		to_tiongitoit		
	Ethernet6	7 Seria	al3	to_global	Serial9		to_tiongkok		
	Coaxial7	8 Seria	al1	to korsel	Serial2		to_jepang		
	Serial9			_					
		9 Seria	al1	to_global	Serial9		to_jepang		

c. EIGRP

Device	Screenshot
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PBB_SW	Router_Global>enable Router_Global#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Router_Global(config) #interface s0/1/0 Router_Global(config-if) #ip address 10.0.0.2 255.255.258.248 Router_Global(config-if) #encapsulation frame-relay Router_Global(config-if) #no shutdown Router_Global(config-if) #frame-relay map ip 10.0.0.5 80 broadcast Router_Global(config-if) #frame-relay map ip 10.0.0.3 82 broadcast Router_Global(config-if) #frame-relay map ip 10.0.0.4 84 broadcast Router_Global(config-if) #frame-relay map ip 10.0.0.6 86 broadcast Router_Global(config-if) #exit Router_Global(config-if) #exit Router_Global(config-if) #ip address 192.168.100.1 255.255.255.0 Router_Global(config-if) #no shutdown Router_Global(config-if) #no shutdown Router_Global(config-if) #router eigrp 25 Router_Global(config-router) #network 192.168.100.0 0.0.0.255 Router_Global(config-router) #network 10.0.0.0 0.0.0.7 Router_Global(config-router) #network 10.0.0.0 0.0.0.7 Router_Global(config-router) #no auto-summary Router_Global(config-router) #exit Router_Global(config-router) #exit Router_Global(config-router) #exit Router_Global(config-router) #exit Router_Global(config-router) #exit Router_Global(config) #
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d. ACL

Device	Screenshot
PBB_Router	Router>en Router#conf t Enter configuration commands, one per line. End with CNTL/Z. Router(config)#access-list 100 permit ip 192.0.12.0 0.0.0.7 192.2.12.0 0.0.0.7 Router(config)#access-list 100 permit ip 192.0.12.0 0.0.0.7 192.3.12.0 0.0.0.7 Router(config)#access-list 100 permit ip 192.0.11.192 0.0.0.63 192.3.11.192 0.0.0.63 Router(config)#access-list 100 permit ip 192.0.11.192 0.0.0.63 192.3.11.192 0.0.0.63 Router(config)#access-list 100 permit ip 192.0.11.192 0.0.0.63 192.3.11.192 0.0.0.63 Router(config)#access-list 100 permit ip 192.1.12.0 0.0.0.7 192.2.12.0 0.0.0.7 Router(config)#access-list 100 permit ip 192.1.12.0 0.0.0.7 192.3.12.0 0.0.0.7 Router(config)#access-list 100 permit ip 192.3.0.0 0.0.255.255 192.3.0.0 0.0.255.255 Router(config)#access-list 100 permit ip 192.3.0.0 0.0.255.255 192.2.0.0 0.0.255.255 Router(config)#access-list 100 deny ip 192.0.0.0 0.0.31 Router(config)#access-list 100 deny ip 192.0.0.0 0.0.255.255 192.2.0.0 0.0.255.255 Router(config)#access-list 100 deny ip 192.0.0.0 0.0.255.255 192.3.0.0 0.0.255.255 Router(config)#access-list 100 deny ip 192.1.0.0 0.0.255.255 192.3.0.0 0.0.255.255

e. NAT

Device	Screenshot		
PBB_Router	Router(config) #ip nat inside source list 10 interface serial0/1/0 overload Router(config) # Router(config) #ip nat inside source static 40.0.0.4 40.0.0.4 Router(config) #ip nat inside source static 40.0.0.5 40.0.0.5 Router(config) # Router(config) #interface g0/0/0 Router(config-if) # ip nat inside Router(config-if) #interface serial0/1/0 Router(config-if) # ip nat outside		



5.4 Global

a. Hostnames

Device	Screenshot
Global_SW	Switch>enable Switch#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Switch(config)#hostname Global_SW Global_SW(config)#

b. WAN (Frame Relay)

Device			Screensh	ot		
PBB_Asia_FR	PBB_Asia_FR Physical Config Attr GLOBAL Settings TV Settings CONNECTIONS Frame Relay DSL Cable INTERFACE Serial0 Serial1 Serial2 Serial3 Serial4 Modem5 Ethernet6 Coaxial7 Serial9	Port Status LMI DLCI 86 DLCI 80 82 84 86	Add Name to_korut to_tiongkok to_jepang to_korsel	e Relay: Serial9 ANSI Name to_korsel	Remove	X On V

c. ACL

Device	Screenshot
Router_Global	Router_Global > en Router_Global # conf t Enter configuration commands, one per line. End with CNTL/Z. Router_Global(config) # access - list 100 deny ip 192.0.0.0 0.0.255.255 any Router_Global(config) # access - list 100 deny ip 192.1.0.0 0.0.255.255 any Router_Global(config) # access - list 100 permit ip 192.2.0.0 0.0.255.255 any Router_Global(config) # access - list 100 permit ip 192.3.0.0 0.0.255.255 any Router_Global(config) # access - list 100 permit ip 40.0.0.0 0.0.31 any Router_Global(config) # access - list 100 permit ip any any Router_Global(config) # Router_Global(config) # Router_Global(config) # interface s0/1/0 Router_Global(config - if) # ip access - group 100 in

d. NAT

Device	Screenshot
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Router_Global	Router_Global(config) #access-list 10 permit 50.0.0.0 0.0.0.31 Router_Global(config) # Router_Global(config) #ip nat inside source static 50.0.0.3 50.0.0.3 Router_Global(config) # Router_Global(config) #ip nat inside source list 10 interface serial0/1/0 overload Router_Global(config) # Router_Global(config) #interface g0/0/0 Router_Global(config-if) # ip nat inside Router_Global(config-if) # ip nat inside Router_Global(config-if) # interface serial0/1/0 Router_Global(config-if) # ip nat outside
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