

# PROYEK AKHIR JARINGAN KOMPUTER

Nomor Kelompok	15
Anggota	Calvin Wirathama Katoroy / 2306242395
Kelompok	Jesie Tenardi / 2306162002
	Fadhlureza Sebastian / 2306161971
Kode Aslab	EF
Tipe Soal	2
Link Penting	■ ProyekAkhir_EF_15 https://github.com/calvinkatoroy/ProyekAkhir_EF_15

#### I. PENDAHULUAN

<u>University of Network</u> merupakan sebuah universitas di Indonesia yang sudah memiliki 3 cabang di berbagai lokasi, yaitu:

- Papua,
- Medan,
- Bandung.

Papua merupakan pusat dari University of Network.

<u>University of Network</u> memiliki 4 divisi di setiap cabangnya, yaitu <u>Administrator</u>, <u>Finance</u>, <u>Telco</u>, dan <u>Engineer</u>.

#### Persyaratan:

Universitas sangat mengutamakan kinerja terbaik, redundansi, skalabilitas, dan ketersediaan dalam infrastruktur jaringannya. Universitas telah membebaskan pengalamatan IP pada jaringannya, maka berikut adalah spesifikasi alamat IP yang saya petakan:

WLAN : 10.10.0.0/16LAN : 192.168.0.0/16

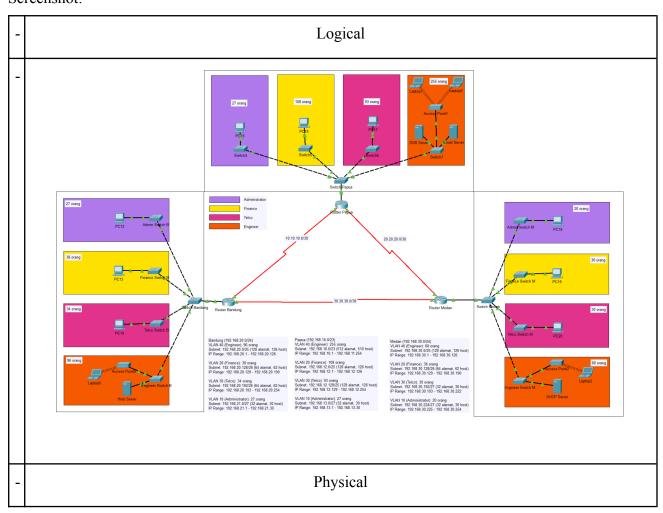
DMZ

Persyaratan Teknis:

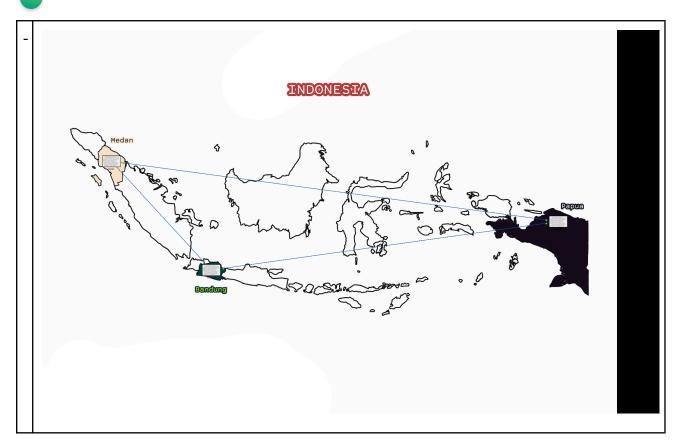


# II.

1. Pembuatan Topologi Screenshot:







# 2. Tabel Pengalamatan IP

Cabang	Divisi	Jumlah Pegawai	Subnet	Net. Add.	FUA	LUA	Broad. Add.
Papua	Engineer	255	/23	10.0.0.0	10.0.0.1	10.0.0.254	10.0.0.255
	Finance	108	/25	10.0.2.0	10.0.2.1	10.0.2.126	10.0.2.127
	Telco	93	/25	10.0.2.128	10.0.2.129	10.0.2.254	10.0.2.255
	Admin.	27	/27	10.0.3.0	10.0.3.1	10.0.3.30	10.0.3.31
Bandung	Engineer	96	/25	172.16.0.0	172.16.0.1	172.16.0.126	172.16.0.127
	Finance	38	/26	172.16.0.128	172.16.0.129	172.16.0.190	172.16.0.191
	Telco	34	/26	172.16.0.192	172.16.0.193	172.16.0.254	172.16.0.255
	Admin.	27	/27	172.16.1.0	172.16.1.1	172.16.1.30	172.16.1.31



Medan	Engineer	68	/25	192.168.1.0	192.168.1.1	192.168.1.126	192.168.1.127
	Finance	36	/26	192.168.1.128	192.168.1.129	192.168.1.190	192.168.1.191
	Telco	30	/27	192.168.1.192	192.168.1.193	192.168.1.222	192.168.1.223
	Admin.	20	/27	192.168.1.224	192.168.1.225	192.168.1.254	192.168.1.255

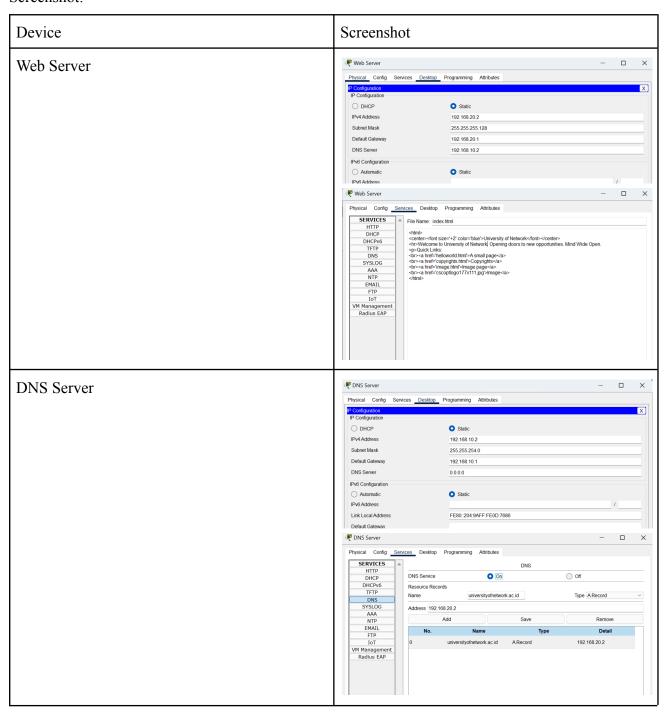
# 3. Konfigurasi IP Address pada Router

Device	Screenshot
Router Papua	P Books Papes  Freques Cody
Router Bandung	Phone Code CDL Annaham  Propose Code CDL Annaham  CONTRESSEDENTIAL PROPOSED CODE CDL ANNAHAM CONTRESSED CODE CDL ANNAHAM CONTRESSED CODE CDL ANNAHAM CODE CDL A
Router Medan	Place Made Made  Paper Code Of Made Paper Code Of M

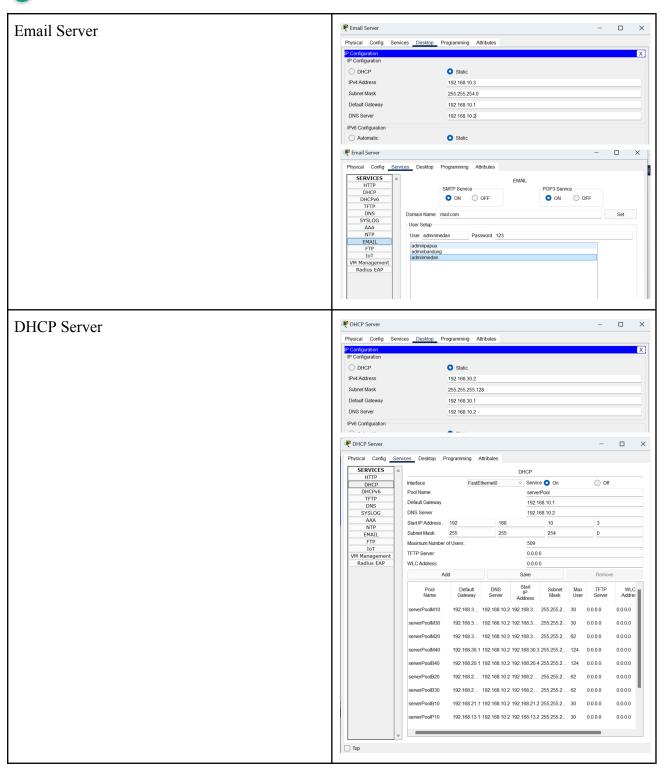


Newsprint()		
	Copy	Paste
'-		

#### 3. Konfigurasi pada Server







#### 4. Konfigurasi pada Switch

Device	Screenshot
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5. Konfigurasi Switchport Mode Access VLAN

Device	Screenshot

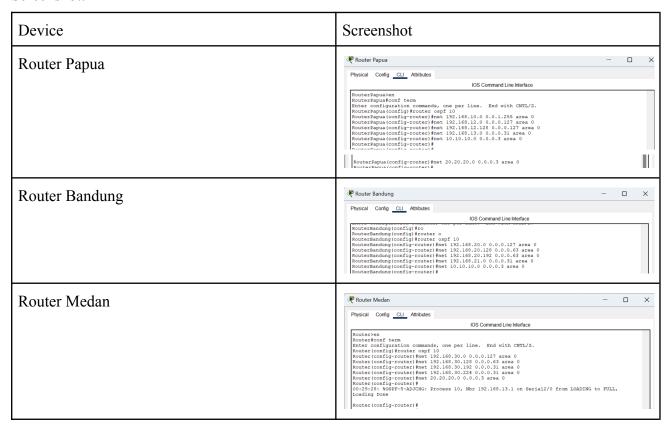


Physical Coding CLL Ambudes

| Solichham | Station | Sta

## 6. Konfigurasi Routing OSPF pada Router

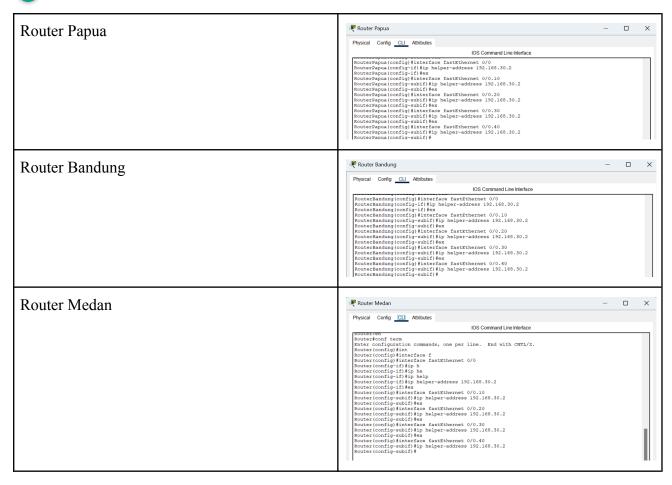
#### Screenshot:



#### 7. Konfigurasi IP Helper Address pada Router

Device	Screenshot
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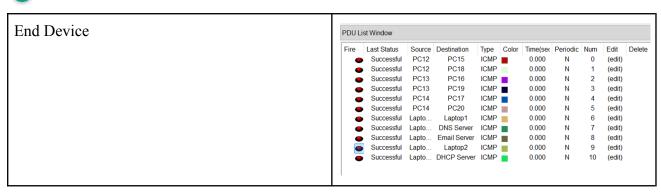
#### 8. Meminta IP Address DHCP pada End Device

Device	Screenshot		
End Device	Proceduration  Physical Corfig Desktop Proceduration  Proceduration  Proceduration  DHCP  Privilla Address  Subnet Mask  Default Gateway  DNS Server  IPvil Configuration	Attributes  Static  192.168.13.2  255.255.252.4  192.168.13.1  192.168.10.2	— X  X  V  DHCP request successful.

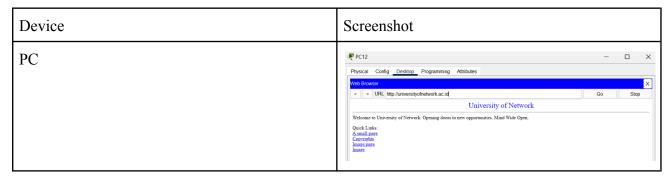
#### 9. Tes Ping antar PC dan End Device

Device	Screenshot
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# 10. Uji Akses Web Perusahaan dengan Domain DNS



# 11. Uji Kirim E-Mail antar PC Admin

Device	Screenshot
PC Pengirim	Sending mail to adminibandung@mail.com , with subject : Halo _ Mail



PC Penerima

Protes Corfo Dealer Programming Abributes

Madis Compose Reply Receive Delete Corfoger Madis Compose Reply Receive Delete Corfoger Madis Compose Reply Receive Delete Received Madis Compose Reply Received Re