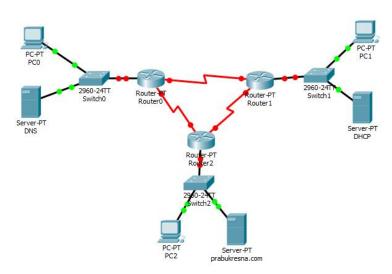
Nama : Bintang Citra Kusumaatmaja

Nim : L200170078

Kelas : B

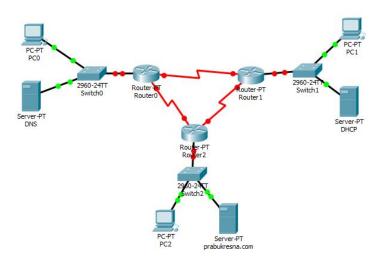
UJIAN AKHIR SEMESTER JARINGAN KOMPUTER



SOAL:

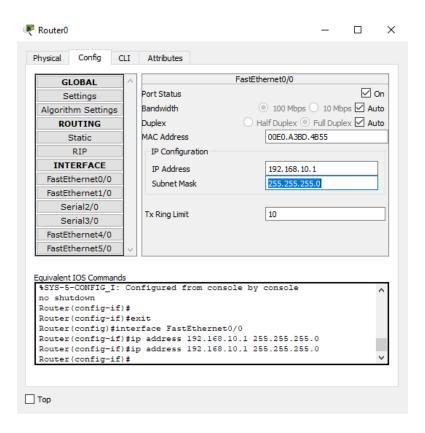
- 1. Buat Topologi Seperti Diatas
- 2. Konfigurasi IP terhadap Router 0,1,2 PC 0,1,2 dan Server 0,1,2
- 3. Konfirgurasi Routing Dinamis
- 4. Konfigurasi Routing Statis
- 5. Batasi Hanya 2 PC yang dapat mengakses Webserver

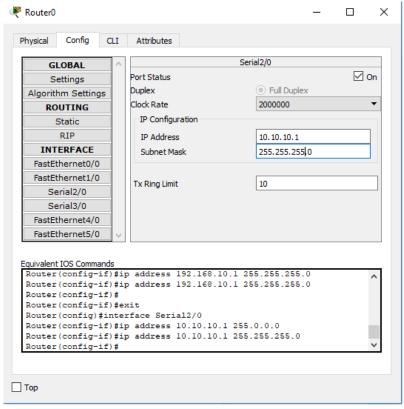
JAWAB:

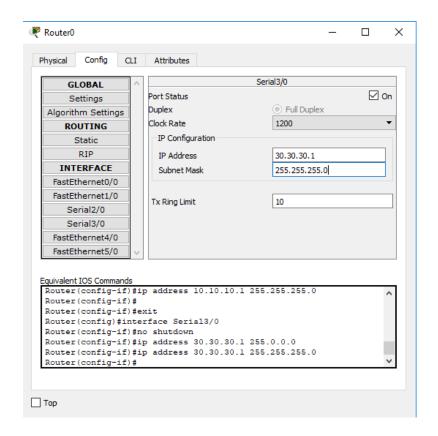


- Router 0

Fast Ethernet 0/0 : 192.168.10.1 Serial 2/0 : 10.10.10.1 Serial 3/0 : 30.30.30.1

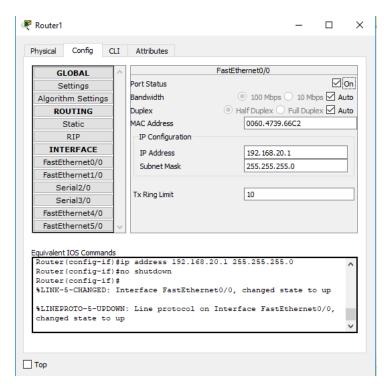


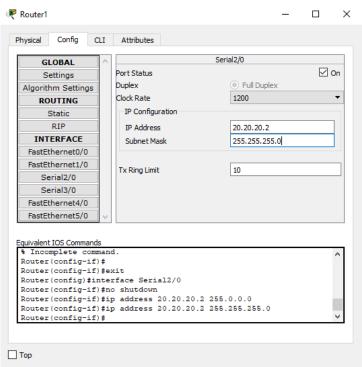


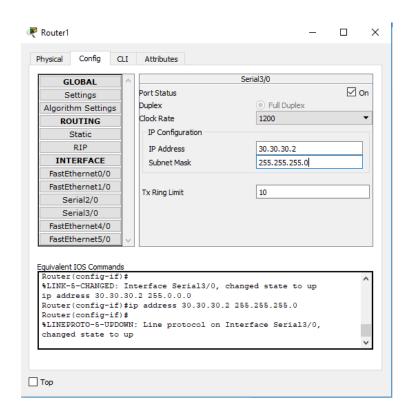


- Router 1

Fast Ethernet 0/0 : 192.168.20.1 Serial 2/0 : 20.20.20.2 Serial 3/0 : 30.30.30.2

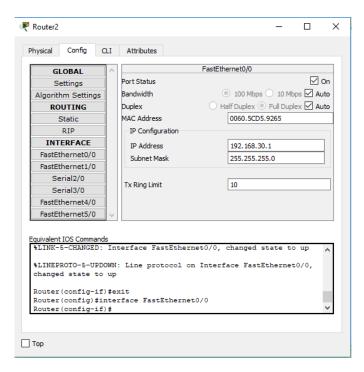


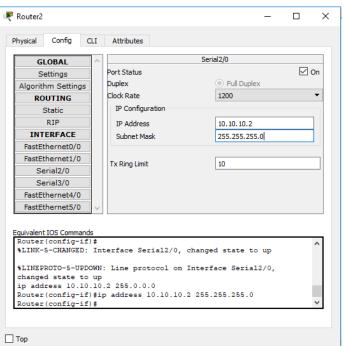


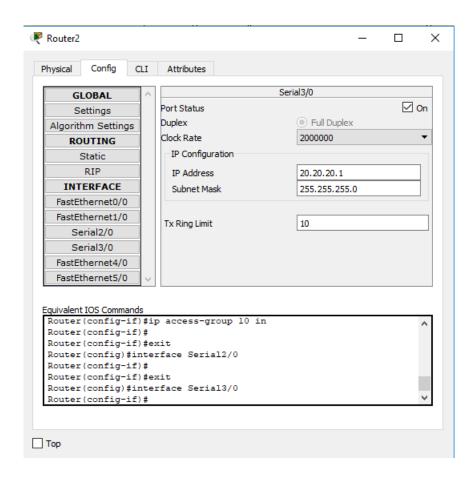


- Router 2

Fast Ethernet 0/0 : 192.168.30.1 Serial 2/0 : 10.10.10.2 Serial 3/0 : 20.20.20.1

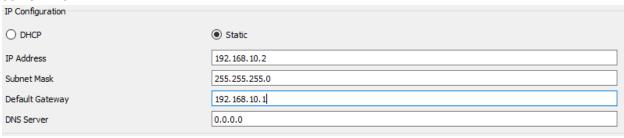


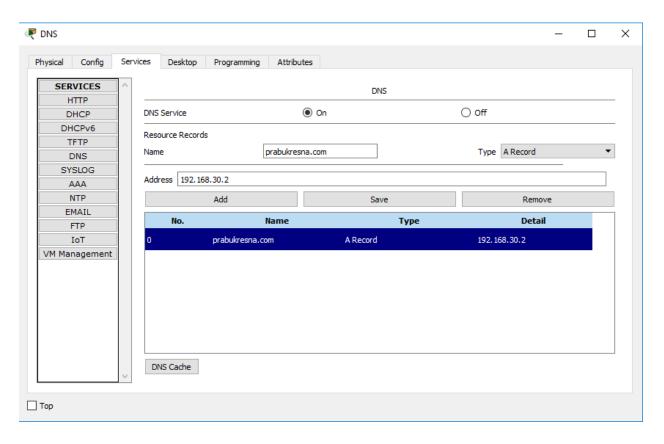




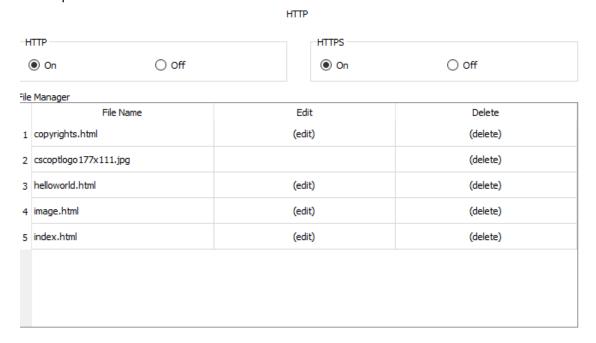
Kemudian Kita akan lakukan konfigurasi DHCP pada Server

- Server DNS





- Server prabukresna.com



File Name: index.html

index.html
<a href

Server DHCP

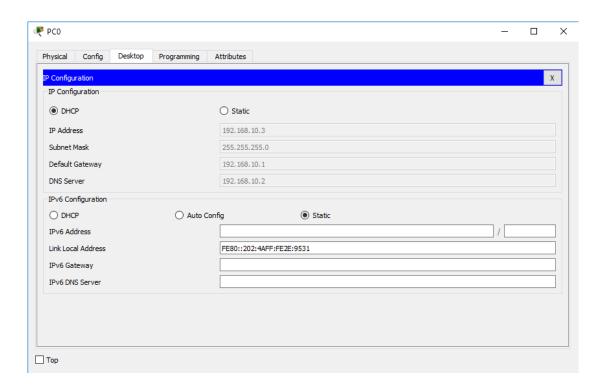
DHCP

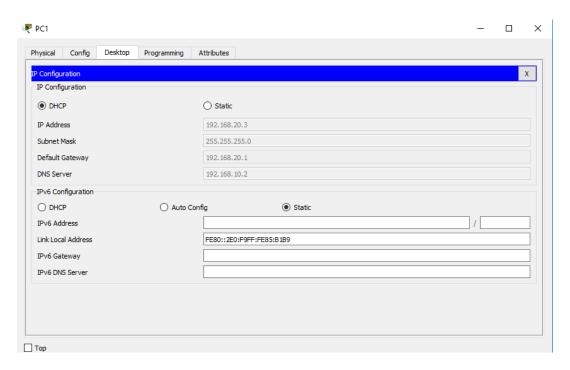
Interface	FastEthernet0 ▼	Service On	○ off
Pool Name		serverPool	
Default Gateway		192.168.10.1	
DNS Server		192.168.10.2	
Start IP Address : 192	168	10	3
Subnet Mask: 255	255	255	0
Maximum Number of Users :		253	
TFTP Server:		0.0.0.0	
WLC Address:		0.0.0.0	

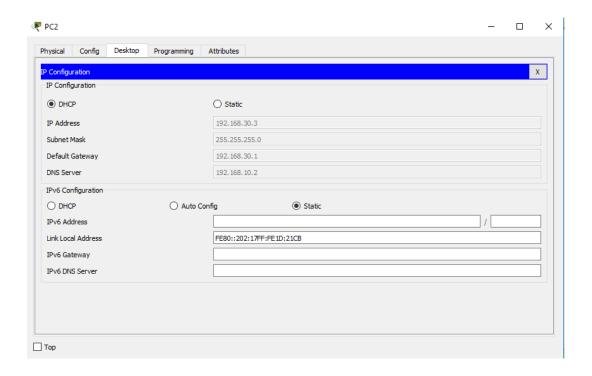
Ac	dd		Save			Remov	е
Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	192.168.10.1	192.168.10.2	192.168.10.3	255.255.255.0	253	0.0.0.0	0.0.0.0

DHCP ▼ Service
 On O off Interface FastEthernet0 Pool Name serverPool Default Gateway 192.168.30.1 DNS Server 192.168.10.2 Start IP Address: 192 168 30 3 0 Subnet Mask: 255 255 255 253 Maximum Number of Users: TFTP Server: 0.0.0.0 WLC Address: 0.0.0.0 Add Save Remove Start WLC Pool Default DNS Subnet Max **TFTP** ΙP Name Gateway Mask User Address Server Server Address serverPool 192.168.30.1 192.168.10.2 192.168.30.3 255.255.255.0 253 0.0.0.0 0.0.0.0 DHCP ▼ Service
 On O off Interface FastEthernet0 Pool Name serverPool 192.168.20.1 Default Gateway 192.168.10.2 DNS Server Start IP Address: 192 168 20 3 Subnet Mask: 255 255 255 0 253 Maximum Number of Users: 0.0.0.0 TFTP Server: 0.0.0.0 WLC Address:

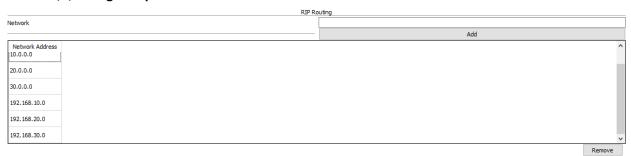
Add			Save		Remove		
Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	192.168.20.1	192.168.10.2	192.168.20.3	255.255.255.0	253	0.0.0.0	0.0.0.0



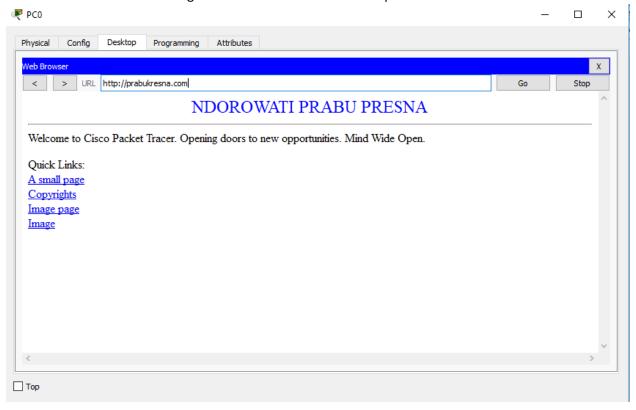




Kemudian agar PC bisa terhubung beda jaringan kita akan mencoba konfigurasi **routing DINAMIS pada Router 0,1,2 dengan seperti dibawah ini**



Kemudian kita tes koneksi dengan PING dan MENGAKSES WEB prabukresna.com dari PC:



```
C:\>ping prabukresna.com

Pinging 192.168.30.2 with 32 bytes of data:

Reply from 192.168.30.2: bytes=32 time=lms TTL=126

Reply from 192.168.30.2: bytes=32 time=lms TTL=126

Reply from 192.168.30.2: bytes=32 time=2ms TTL=126

Reply from 192.168.30.2: bytes=32 time=lms TTL=126

Ping statistics for 192.168.30.2:

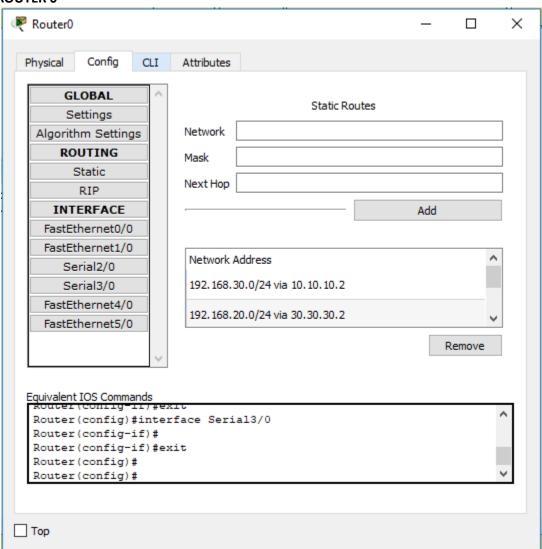
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

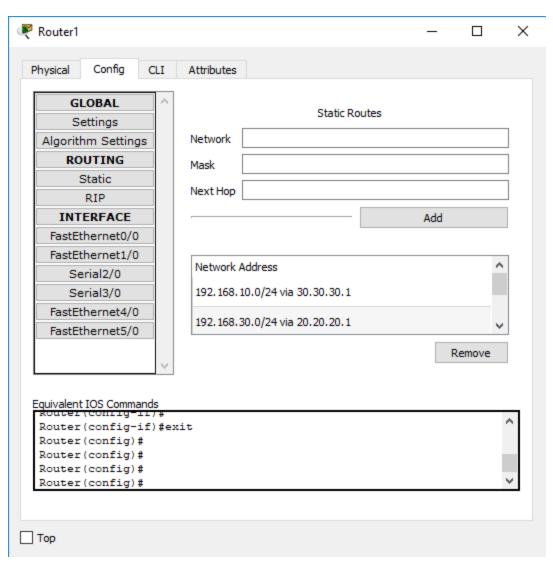
Minimum = lms, Maximum = 2ms, Average = lms
```

Kemudian agar PC bisa terhubung beda jaringan kita akan mencoba konfigurasi **routing STATIS**, **konfigurasi sebelumnya dihapus pada Router 0,1,2 dengan seperti dibawah ini**

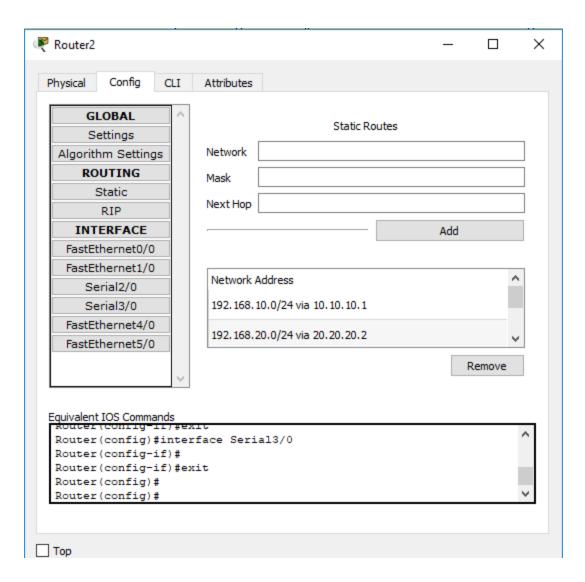
- ROUTER 0



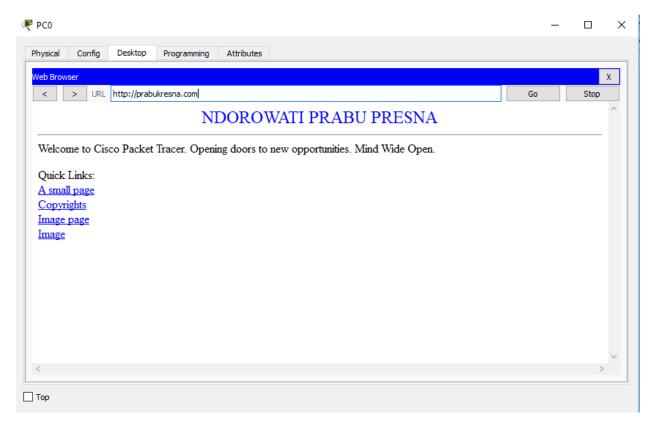
- ROUTER 1



- ROUTER 2



Kemudian kita tes koneksi dengan PING dan MENGAKSES WEB prabukresna.com dari PC:



```
C:\>ping prabukresna.com

Pinging 192.168.30.2 with 32 bytes of data:

Reply from 192.168.30.2: bytes=32 time=1ms TTL=126

Reply from 192.168.30.2: bytes=32 time=1ms TTL=126

Reply from 192.168.30.2: bytes=32 time=2ms TTL=126

Reply from 192.168.30.2: bytes=32 time=1ms TTL=126

Ping statistics for 192.168.30.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 2ms, Average = 1ms
```

Setelah itu kita akan mencoba memblock koneksi host 192.168.10.3 dan 192.168.20.3, maka komputer yang dapat mengakses server prabukresna.com adalah SERVER DNS, SERVER DHCP, SERVER PRABUKRESNA.COM dan PC-2

Pada ROUTER 2:

```
Router(config) #access-list 10 deny host 192.168.10.3
Router(config) #access-list 10 deny host 192.168.20.3
Router(config) #access-list 10 permit any
```

```
Router(config) #int
Router(config) #interface fa
Router(config) #interface fastEthernet 0/0
Router(config-if) #ip a
Router(config-if) #ip acc
Router(config-if) #ip access-group 10 out
Router(config-if) #
```

Kemudian Kita Uji coba dari PC 0

- PC 0

```
Physical Config Desktop Programming Attributes

Command Prompt

C:\Pping prabukresna.com

Pinging 192.168.30.2 with 32 bytes of data:

Reply from 192.168.30.2; bytes=32 time=2ms TTL=126

Reply from 192.168.30.2; bytes=32 time=1ms TTL=126

Reply from 192.168.30.2; bytes=32 time=1ms TTL=126

Reply from 192.168.30.2; bytes=32 time=1ms TTL=126

Ping statistics for 192.168.30.2;

Packets: Sent = 4, Received = 4, Lost = 0 (0\(\frac{1}{2}\) loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 5ms, Average = 2ms

C:\Pping prabukresna.com

Pinging 192.168.30.2 with 32 bytes of data:

Reply from 10.10.10.2; Destination host unreachable.

Reply from 10.10.10.2; Destination bost unreachable.

Reply from 10.10.10.2; Destination host unreachable.

Reply from 10.10.10.3; Destination host unreachable.

Reply from 10.10.10.3; Destination host unreachable.
```

Akses prabukresna.com dari SERVER DNS

