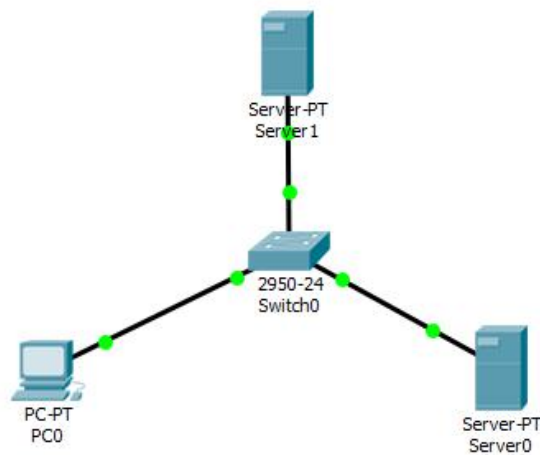


NAMA : Happy Tri Milliarta
NIM : L200170022
KELAS : A

MODUL 10 **JARINGAN KOMUNIKASI**

Kegiatan Praktikum

Persiapan simulasi server DHCP dalam contoh ini adalah dengan menggunakan 1 workstation, 1 switch, dan 2 server sehingga terlihat seperti digambar.



1. Lakukan konfigurasi IP (static) sebagai berikut:
 - a. Pada **server0** : IP Address 192.168.123.1
Subnet Mask 255.255.255.0
 - b. Pada **server1** : IP Address 192.168.123.2
Subnet Mask 255.255.255.0
 - c. Pada **PC0** : IP Address 192.168.123.3
Subnet Mask 255.255.255.0
DNS Server 192.168.123.2

Server0

Physical Config Services Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0004.9A1A.4C4D

IP Configuration

☐ DHCP

☒ Static

IP Address 192.168.123.1

Subnet Mask 255.255.255.0

IPv6 Configuration

☐ DHCP

☐ Auto Config

☒ Static

IPv6 Address

Link Local Address: FE80::204:9AFF:FE1A:4C4D

Top

Server1

Physical Config Services Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 00E0.A320.1D77

IP Configuration

☐ DHCP

☒ Static

IP Address 192.168.123.2

Subnet Mask 255.255.255.0

IPv6 Configuration

☐ DHCP

☐ Auto Config

☒ Static

IPv6 Address

Link Local Address: FE80::2E0:A3FF:FE20:1D77

Top

PC0

Physical Config Desktop Programming Attributes

IP Configuration

IP Configuration

☐ DHCP

☒ Static

IP Address 192.168.123.3

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 192.168.123.2

IPv6 Configuration

☐ DHCP

☐ Auto Config

☒ Static

IPv6 Address

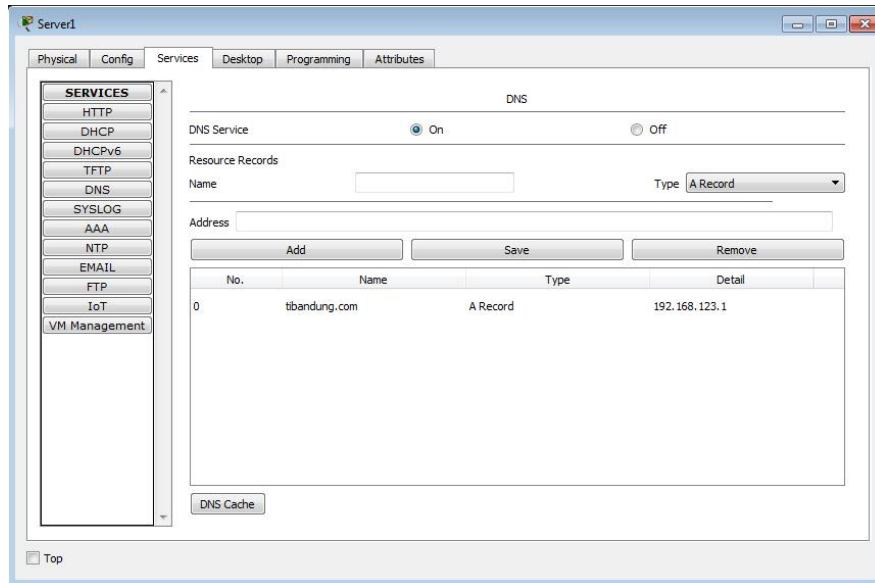
Link Local Address FE80::20A:41FF:FE94:12E9

IPv6 Gateway

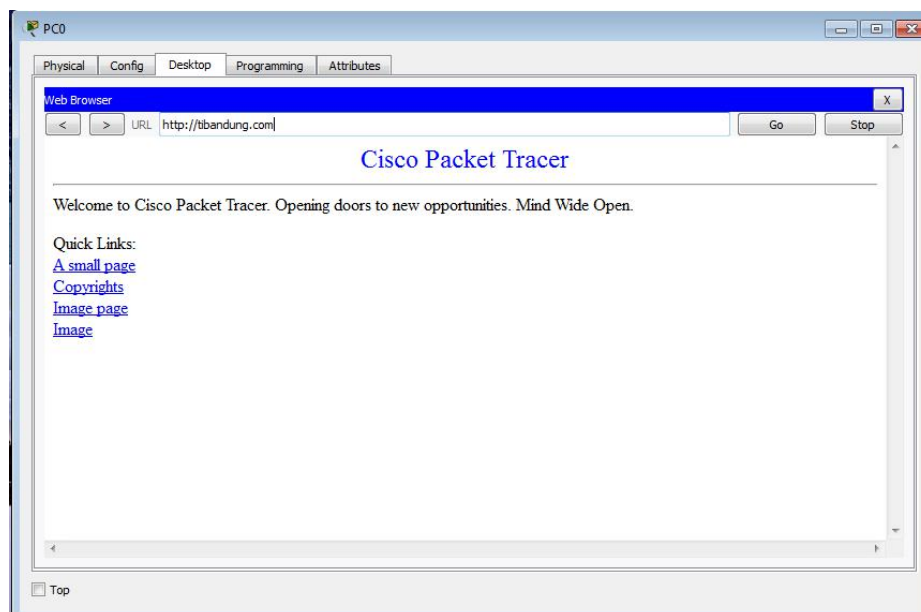
IPv6 DNS Server

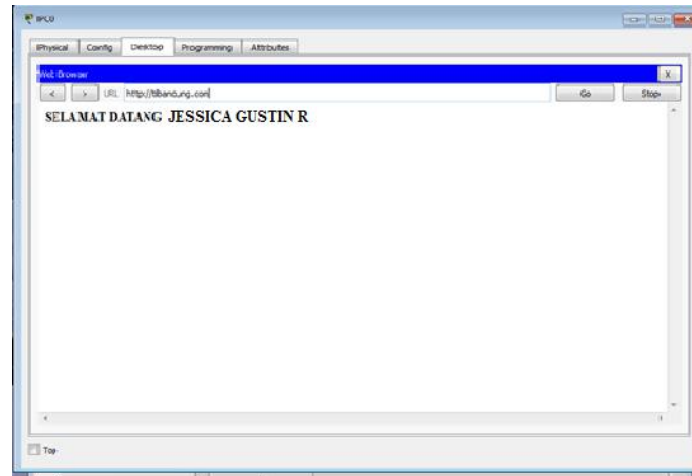
Top

- Double klik **Server1** hingga muncul jendela properties **Server1**. Pindahkan tab ke tab **Config**. Pada menu Services, pilih DNS. Pastikan **service** DNS pada radio button adalah **On**. Pada field domain name isi dengan nama domain tertentu. Misalnya tibandung.com. Pada field IP Address isi dengan IP Address **server0/HTTP Server (192.168.123.1)**. setelah itu klik **Add** untuk memasukkannya ke dalam host record DNS Server.



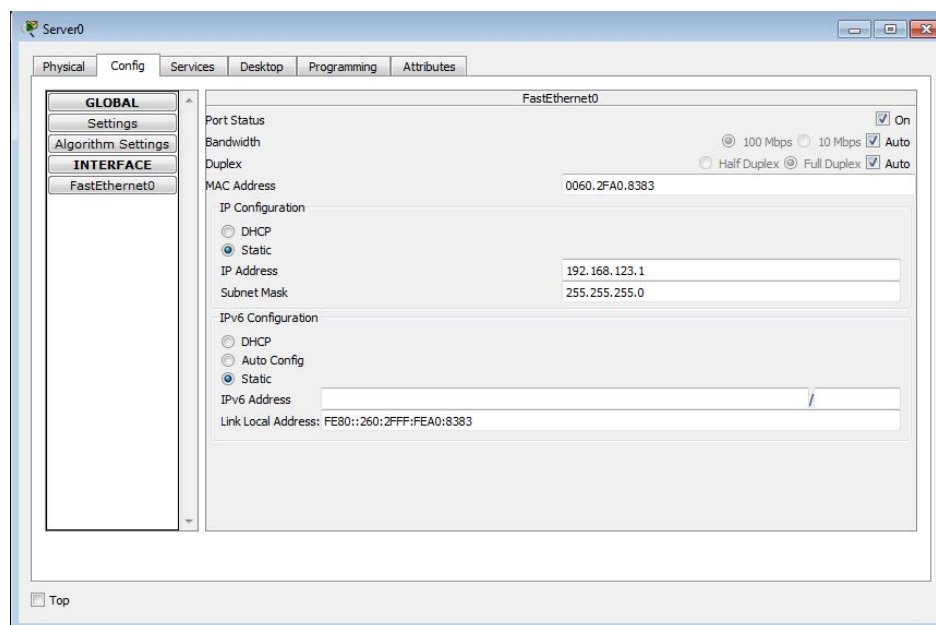
- Melakukan browsing http ke domain
Pada **PC0** silahkan menuju ke tab **Desktop** pada jendela properties **PC0**. Pada menu yang ada, pilih **Web Browser**. Ketika jendela **Web Browser** muncul, pada **URL** ketikkan tibandung.com (atau nama domain yang telah di-entry ke DNS Server)





TUGAS

Buat jaringan sederhana ditambah dengan node Server yang memberikan layanan/service DHCP, HTTP, dan DNS. Kemudian coba akses domain tertentu yang telah di entry pada record DNS dari salah satu workstation.



Server0

Physical Config **Services** Desktop Programming Attributes

SERVICES

- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP
- IoT
- VM Management

DNS

DNS Service ☒ On ☐ Off

Resource Records

Name Type **A Record**

Address

Add Save Remove

No.	Name	Type	Detail
0	tbandung.com	A Record	192.168.123.1

DNS Cache

☐ Top

Server0

Physical Config Services **Desktop** Programming Attributes

SERVICES

- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP
- IoT
- VM Management

DHCP

Interface **FastEthernet0** Service ☒ On ☐ Off

Pool Name

Default Gateway

DNS Server

Start IP Address :

Subnet Mask:

Maximum Number of Users :

TFTP Server:

WLC Address:

Add Save Remove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	0.0.0.0	0.0.0.0	192.168.123.1	255.255.255.0	8	0.0.0.0	0.0.0.0

☐ Top

PC0

Physical Config Desktop Programming Attributes

IP Configuration

IP Configuration

☒ DHCP ☐ Static

IP Address 192.168.123.2

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address

Link Local Address FE80::260:47FF:FE10:CEA5

IPv6 Gateway

IPv6 DNS Server

Top

PC3

Physical Config Desktop Programming Attributes

IP Configuration

IP Configuration

☒ DHCP ☐ Static DHCP request successful.

IP Address 192.168.123.5

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address

Link Local Address FE80::201:C9FF:FE43:D9DC

IPv6 Gateway

IPv6 DNS Server

Top

