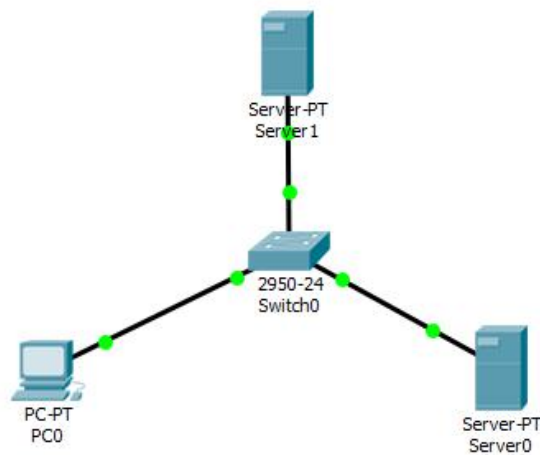


NAMA : Happy Tri Milliarta
NIM : L200170026
KELAS : A

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

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

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

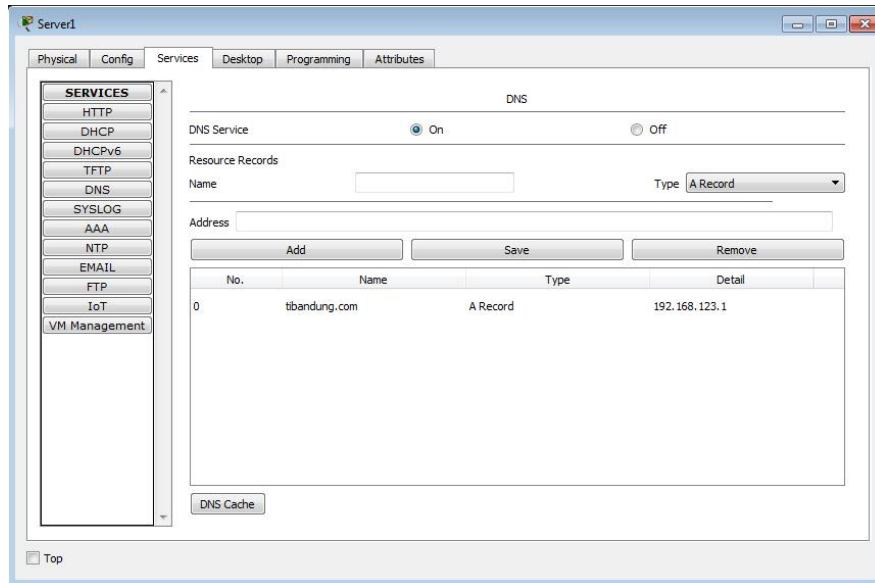
Link Local Address FE80::20A:41FF:FE94:12E9

IPv6 Gateway

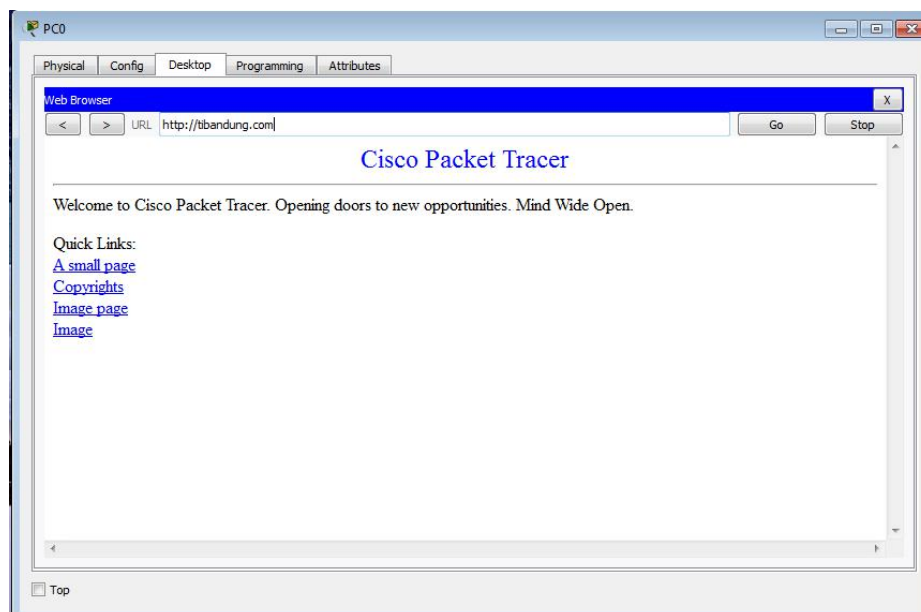
IPv6 DNS Server

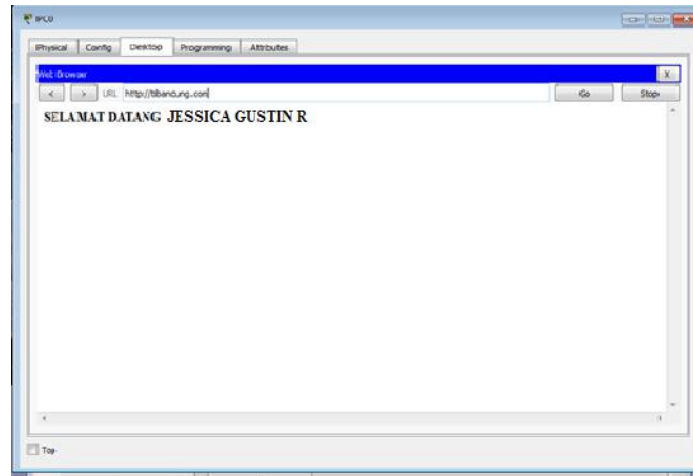
Top

- 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.



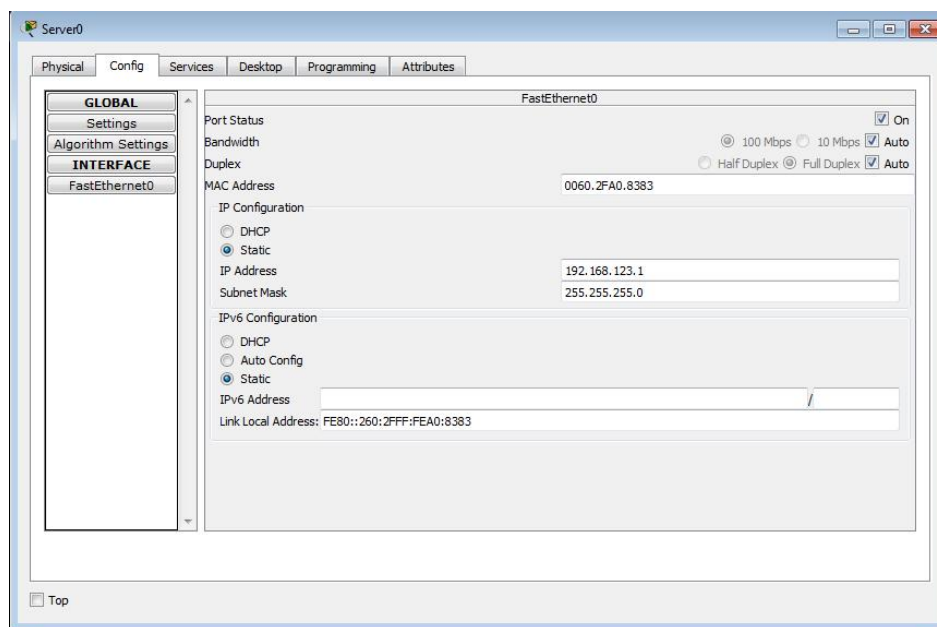
- Melakukan browsing http ke domain
Pada **PC0** silahkan menuju ke tab **Desktop** pada jendela properties **PC0**. Pada menu yang ada, pilih **Web Browser**. Ketika jendela **Web Browser** muncul, pada **URL** ketikkan tibandung.com (atau nama domain yang telah di-entry ke DNS Server)





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

PhysicalConfigServicesDesktopProgrammingAttributes

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

PhysicalConfigServicesDesktopProgrammingAttributes

SERVICES

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

DHCP

Interface

FastEthernet0

Service

On

Off

Pool Name

serverPool

Default Gateway

0.0.0.0

DNS Server

0.0.0.0

Start IP Address :

192

168

123

1

Subnet Mask:

255

255

255

0

Maximum Number of Users :

8

TFTP Server:

0.0.0.0

WLC Address:

0.0.0.0

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

