

PRODUK MEDIA PEMBELAJARAN

DHCP SERVER

KELAS XI TEKNIK KOMPUTER DAN JARINGAN PERTEMUAN 2
SMK NEGERI 1 HURISTAK
AKHMAD IBRAHIM



S T A R T

Video Media cisco

CISCO PACKET TRACKER

Dhcp server

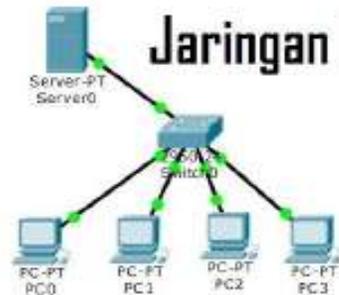
Setting IP

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MODUL SMK NEGERI 1 HURISTAK

DHCP SERVER



KELAS XI ADMINISTRASI SYSTEM

JARINGAN

Dynamic Host Configuration Protocol



Rizky Nur - Chrome
Skype
Recycle Bin

PowerPoint 2016
Adobe Reader 7.0
Paint

Word 2016
AnyDesk

Excel 2016
Wondershare Filmora9

Zoom
Mozilla Firefox

Cisco Packet Tracer
GOM Player

Radmin Viewer 3
VLC media player



**OPEN APLIKASI CISCO PACKET
TRACKER YANG SUDAH TERINSTALL
PADA KOMPUTER ANDA
DENGAN CARA MENEKAN TOMBOL WINDOWS,
KETIK CISCO DAN ENTER**



Start

Search

Everywhere ▾

cisco Packet Tracer



The Start menu features a grid of colorful tiles for various applications and services. The tiles include: Mail, Desktop (with an Apple logo), Help+Tips, OneDrive, Photos, OneNote, Store, People, Skype, Weather, News, Health & Fitness, Calendar, Internet Explorer, Money, and Maps. A news tile is also present with the text: "Still a Michael Chandler fan, Scott Coker says UFC 254 ro..."

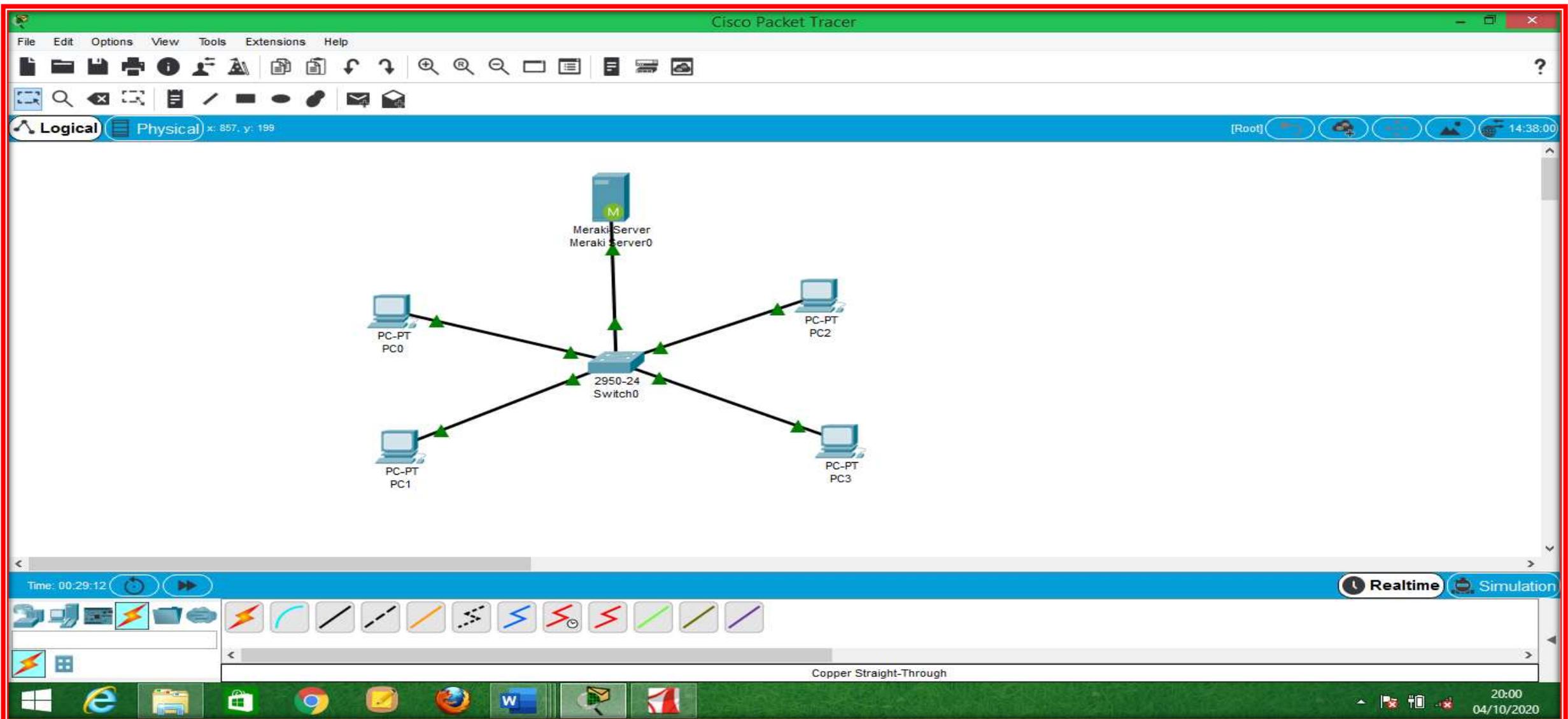
- Cisco Packet Tracer
- Cisco Packet Tracer Help

- cisco Packet Tracer
- cisco packet tracer download
- cisco packet tracer free download
- cisco packet tracer labs
- cisco packet tracer routers
- cisco packet tracer update
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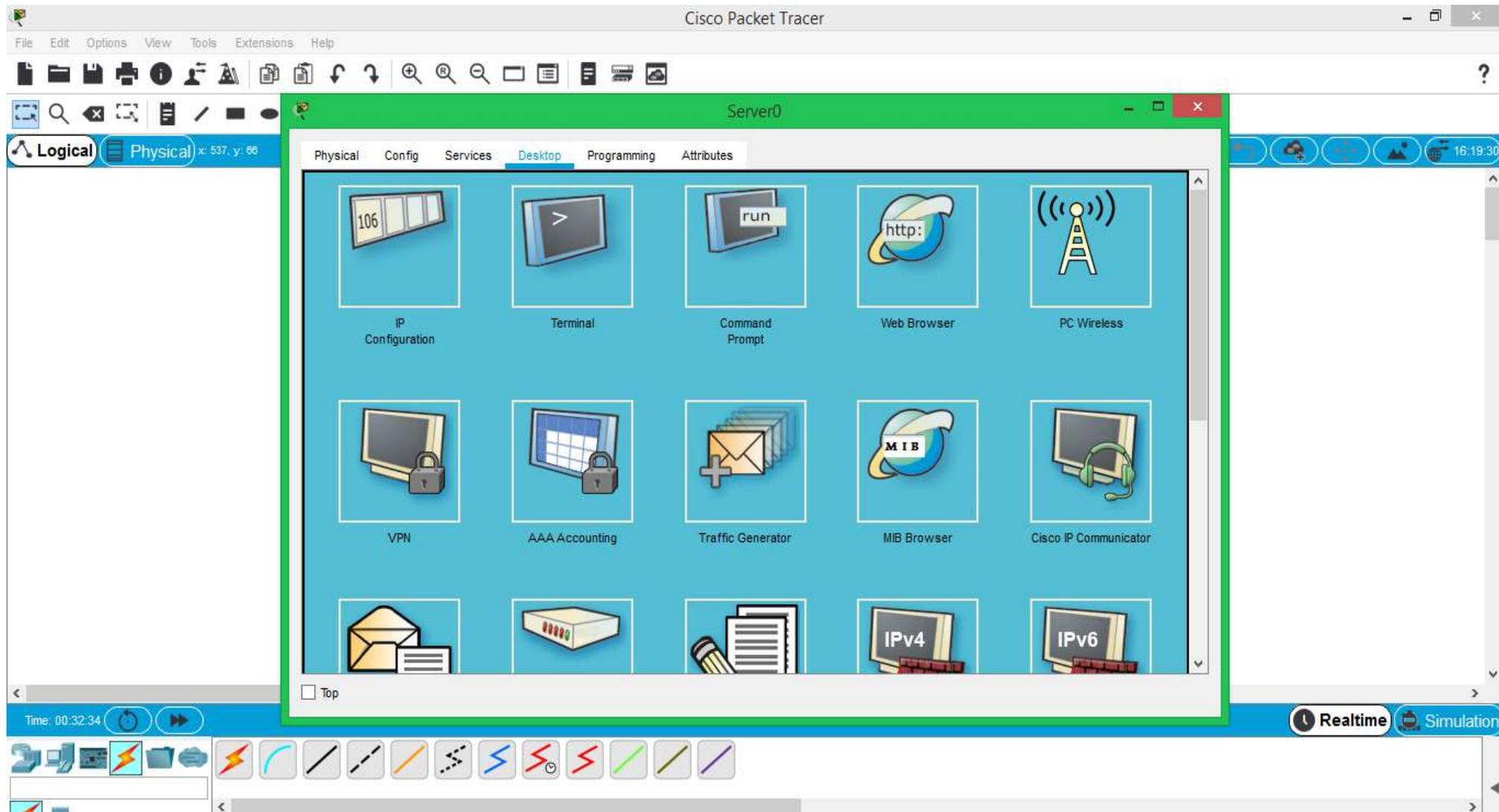
BACK

CISCO PACKET TRACKER

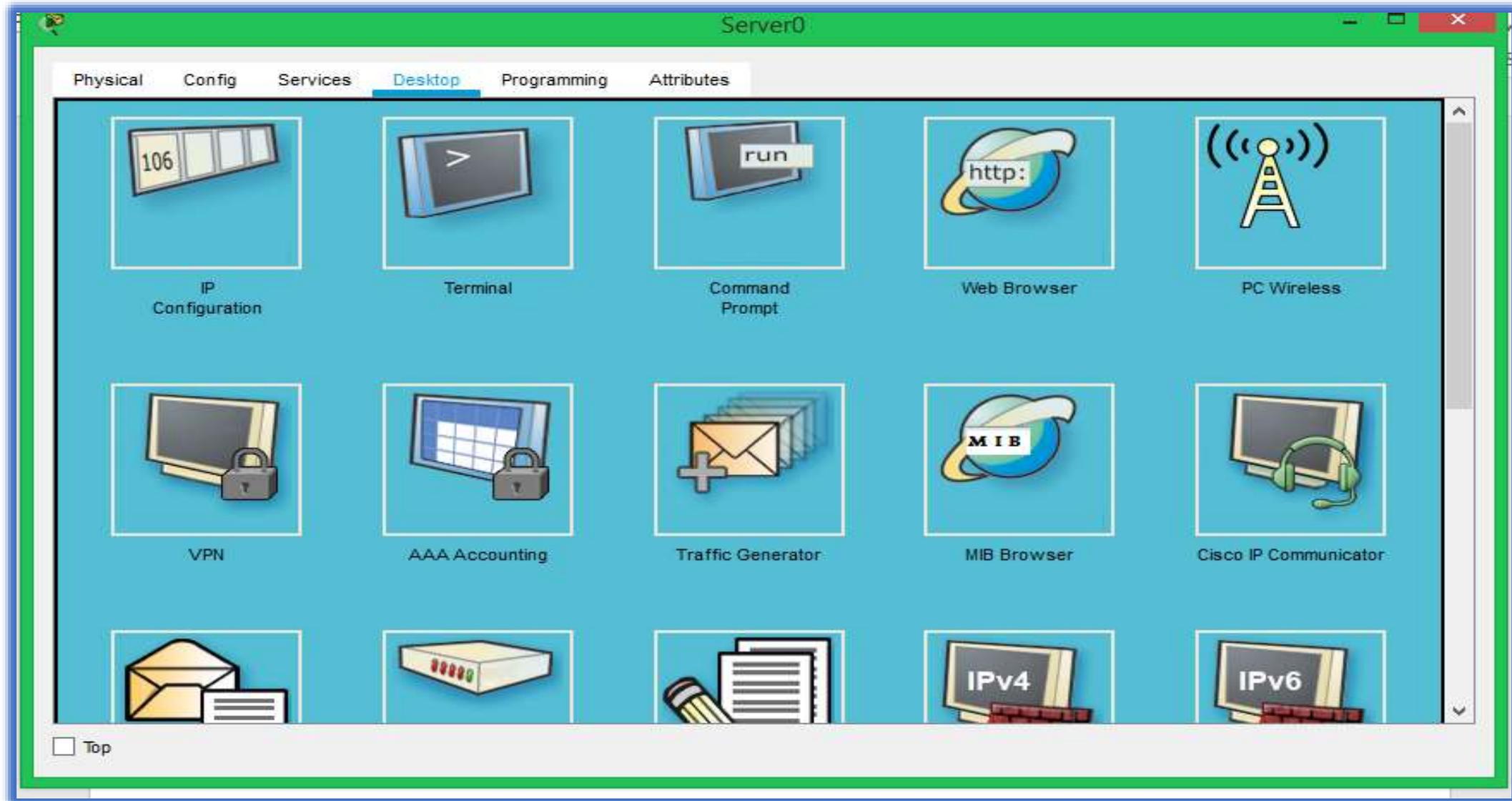
Gambar 1.1 design awal jaringan lan dengan dhcp server



Gambar 1.2 Klik icon server dan klik dektop



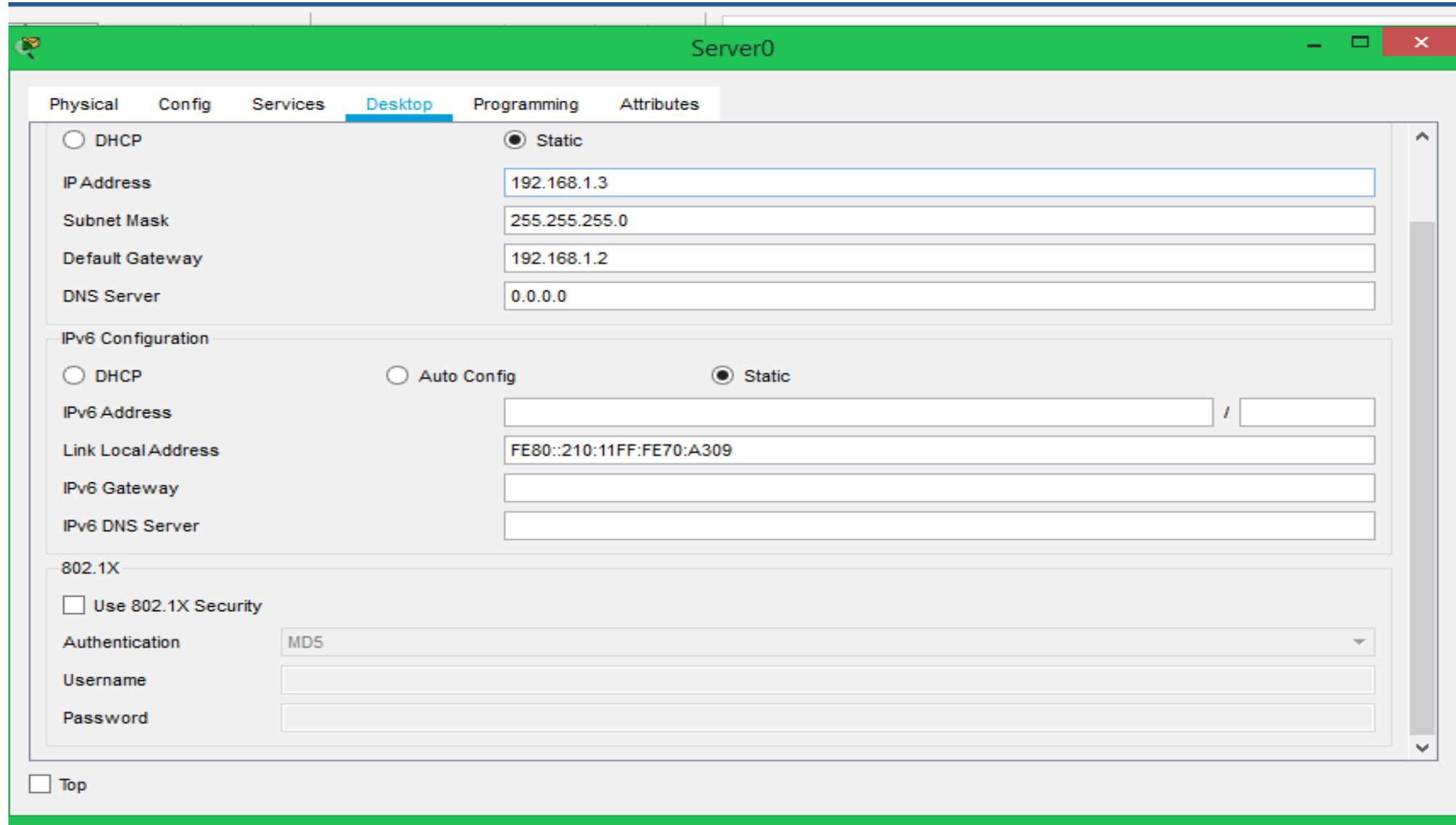
Gambar 1.3 Klik ip configuration



BACK

Gambar 1.4 klik Static dan buatlah IP class , subnet mask dan default gateway

Setting IP



The screenshot shows a network configuration window titled "Server0" with a green header bar. The "Desktop" tab is selected, showing the following configuration options:

- DHCP
- Static
- IP Address: 192.168.1.3
- Subnet Mask: 255.255.255.0
- Default Gateway: 192.168.1.2
- DNS Server: 0.0.0.0

IPv6 Configuration:

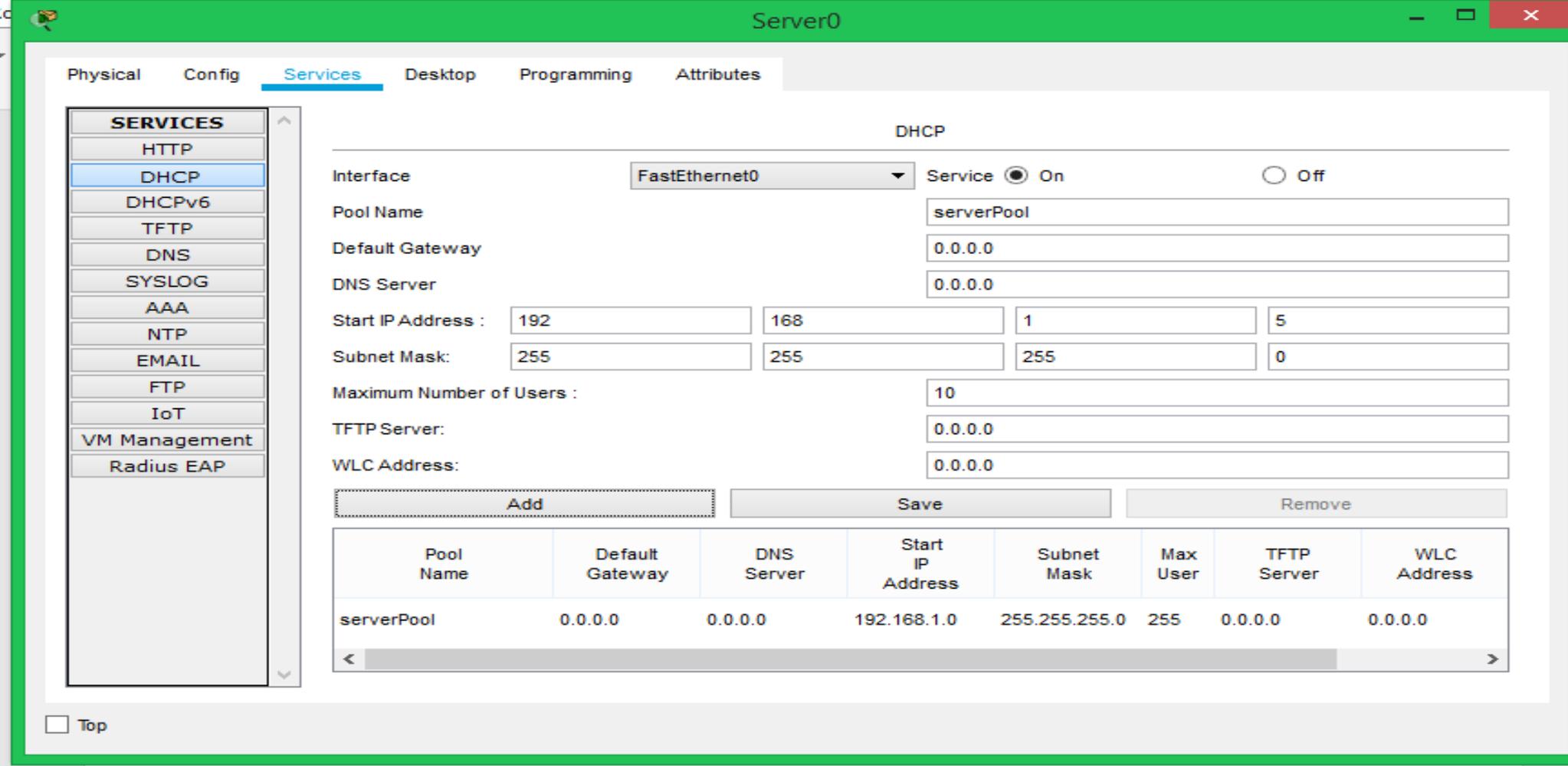
- DHCP
- Auto Config
- Static
- IPv6 Address: [Empty field] / [Empty field]
- Link Local Address: FE80::210:11FF:FE70:A309
- IPv6 Gateway: [Empty field]
- IPv6 DNS Server: [Empty field]

802.1X:

- Use 802.1X Security
- Authentication: MD5
- Username: [Empty field]
- Password: [Empty field]

Top

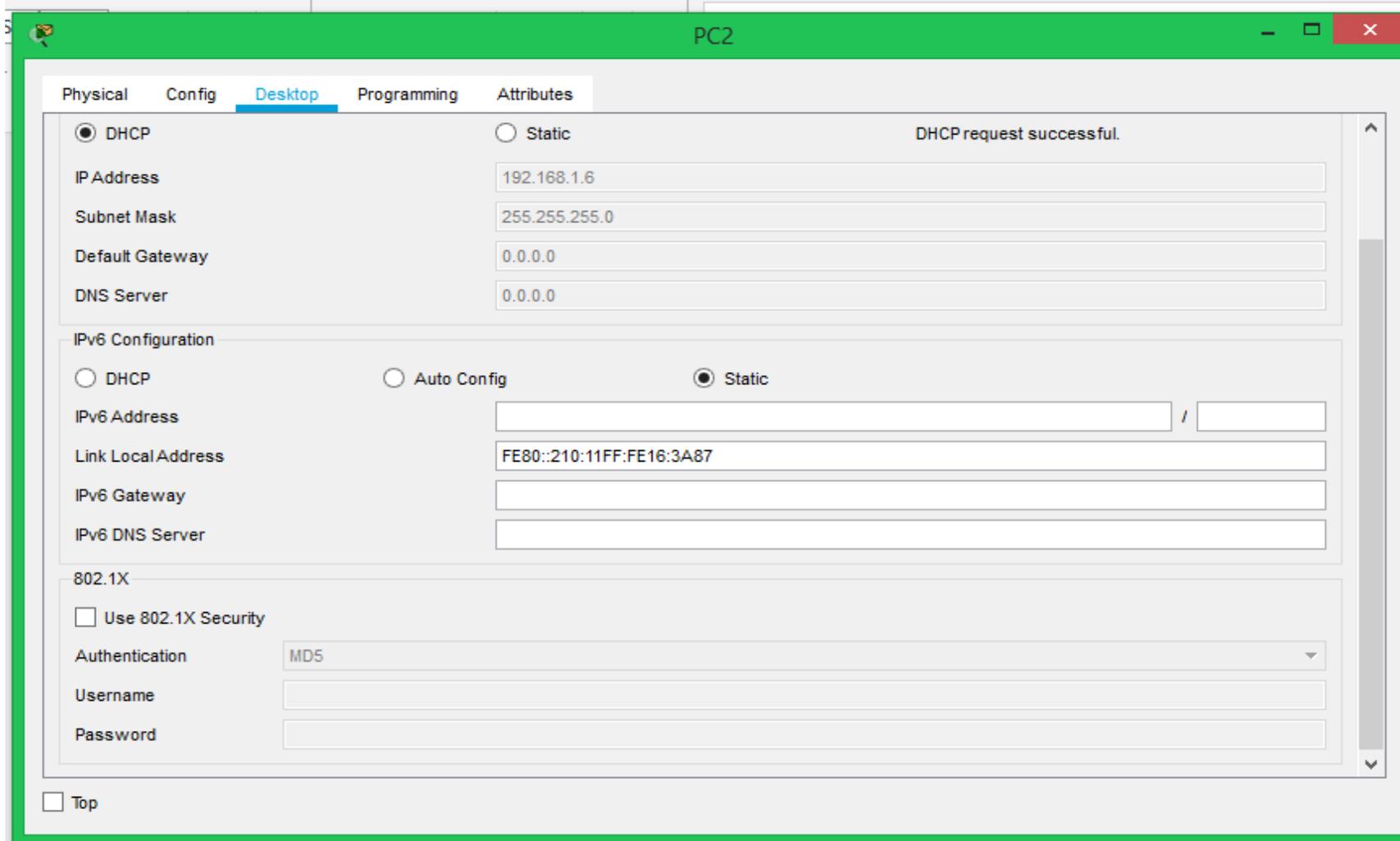
Gambar 1.5 Setting Internet Protokol di mulai dari ip class 192.168.1.5 sampai dengan ip class 192.168.1.15 karena jumlah maximum yang di setting adalah 10 komputer client yang bisa mendapatkan ip dari dhcp server



Gambar 1.6 setting ip client dengan cara melakukan klik pada ke 2 menu di bawah ini dan pilih dhcp

The image shows a network configuration window for a device named 'PC2'. The window has a green title bar and a tabbed interface with 'Physical', 'Config', 'Desktop', 'Programming', and 'Attributes' tabs. The 'Desktop' tab is active. Under the 'Desktop' tab, there are three main sections: 'DHCP/Static', 'IPv6 Configuration', and '802.1X'. In the 'DHCP/Static' section, the 'Static' radio button is selected, and the 'DHCP' radio button is unselected. Below this, there are input fields for 'IP Address', 'Subnet Mask', 'Default Gateway' (set to 0.0.0.0), and 'DNS Server' (set to 0.0.0.0). The 'IPv6 Configuration' section has three radio buttons: 'DHCP' (unselected), 'Auto Config' (unselected), and 'Static' (selected). Below these are input fields for 'IPv6 Address', 'Link Local Address' (set to FE80::210:11FF:FE16:3A87), 'IPv6 Gateway', and 'IPv6 DNS Server'. The '802.1X' section has a checkbox for 'Use 802.1X Security' which is unchecked. Below it is a dropdown menu for 'Authentication' set to 'MD5', and input fields for 'Username' and 'Password'. At the bottom left of the window, there is a 'Top' button with an unchecked checkbox.

Gambar 1.7 ini adalah ip client yang di peroleh secara otomatis dari dhpc server



Gambar 1.8 adalah testing ip dari message pc client ke server dan sesama client dengan cara mengklik icon pesan dan mengarahkan tujuan yang kita inginkan

The screenshot displays the Cisco Packet Tracer interface. The network topology consists of a central switch labeled '2950-24 Switch0' connected to four devices: 'Server-PT Server0' at the top, and three 'PC-PT' devices labeled 'PC0', 'PC2', and 'PC3' at the bottom. A configuration window for PC0 is open, showing the following details:

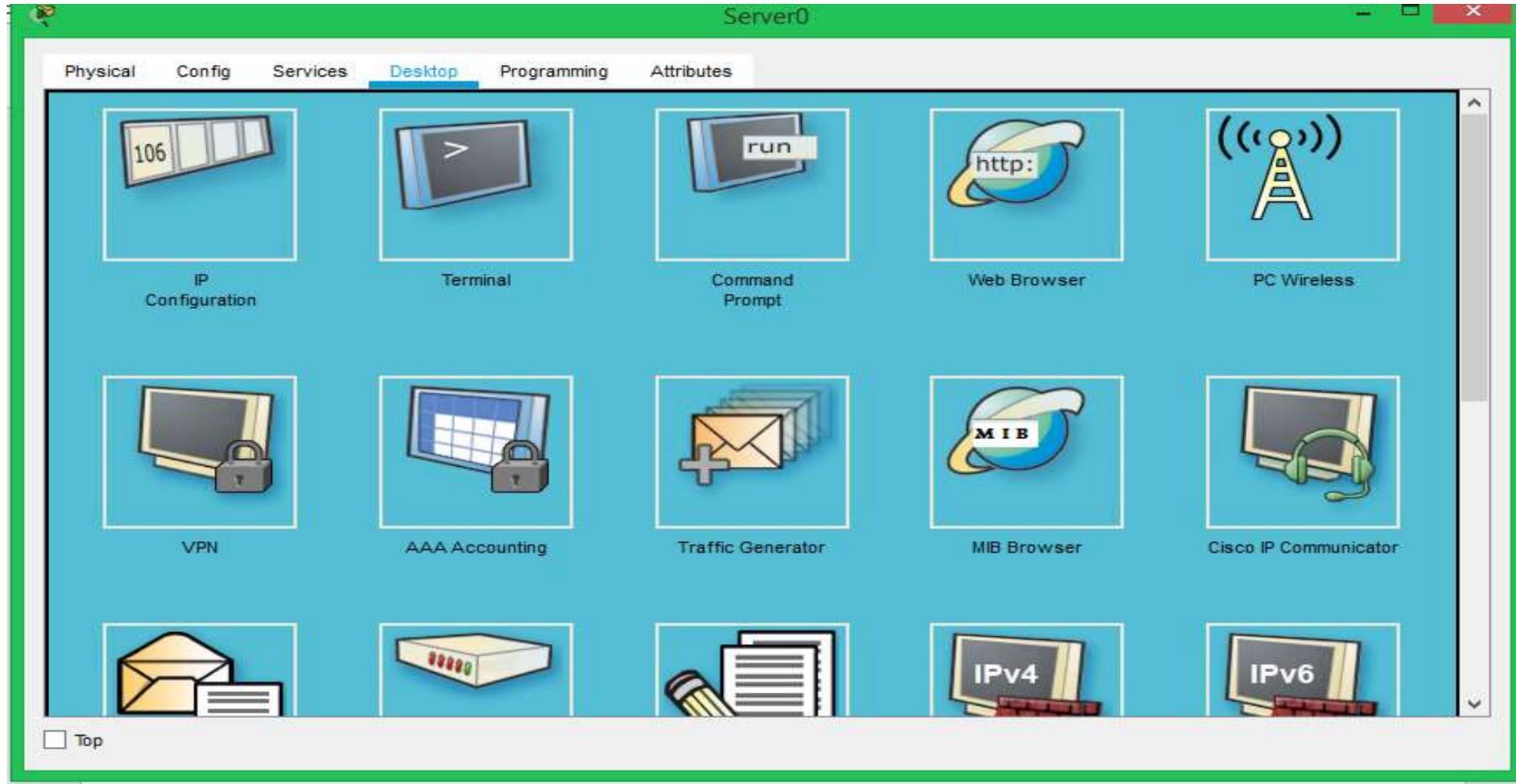
Port	Link	IP Address	IPv6 Address	MAC Address
FastEthernet0	Up	192.168.1.7/24	<not set>	0000.0CAC.8E8C
Bluetooth	Down	<not set>	<not set>	0030.A3E3.294C

Additional configuration for PC0 includes: Gateway: 0.0.0.0, DNS Server: 0.0.0.0, and Line Number: <not set>. The physical location is set to 'Intercity, Home City, Corporate Office'.

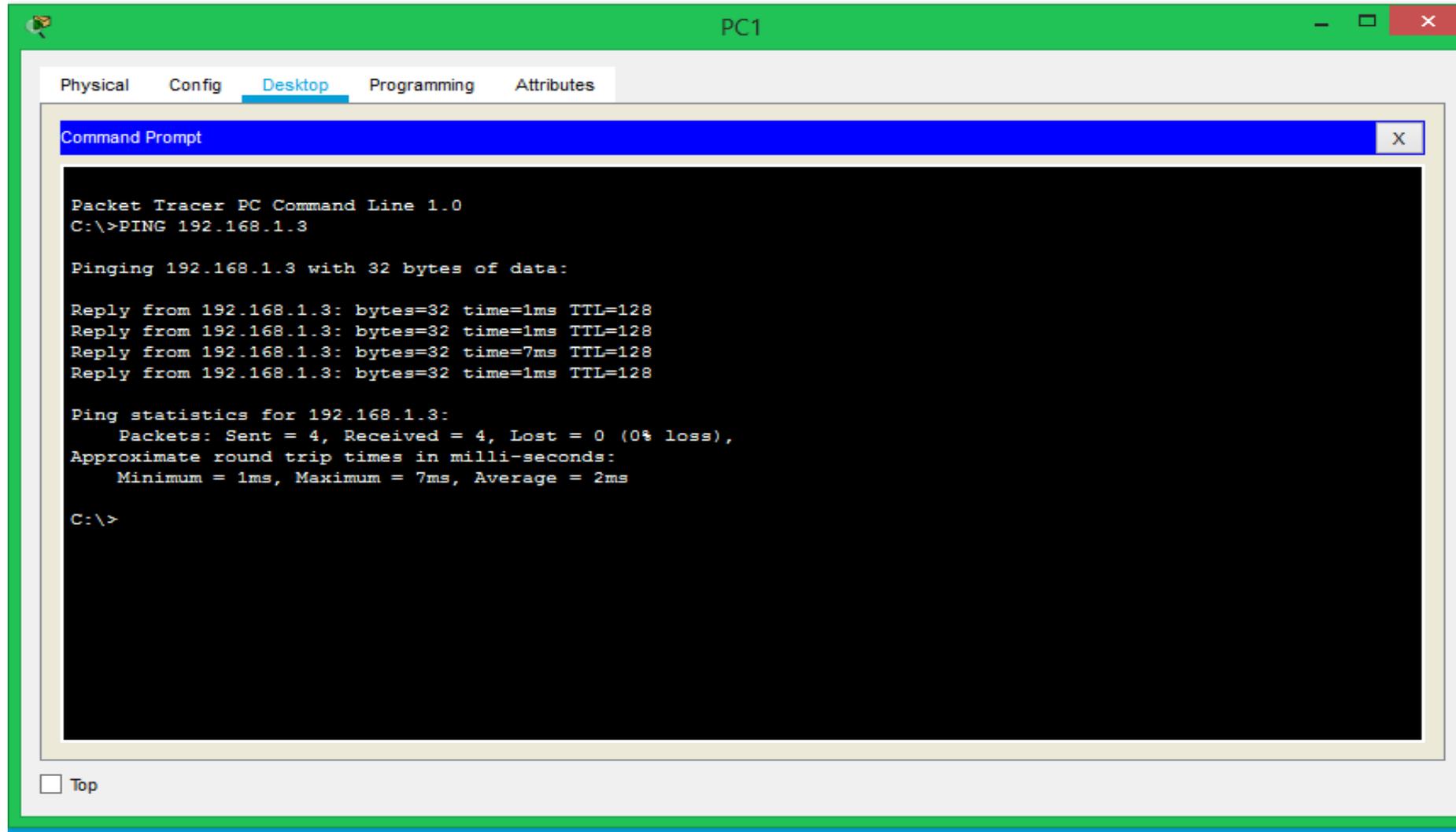
At the bottom right, a packet capture table is visible, showing the following entries:

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Et
	Successful	PC0	Server0	ICMP	Blue	0.000	N	0	(e
	Successful	PC1	Server0	ICMP	Purple	0.000	N	1	(e
	Successful	PC3	Server0	ICMP	Red	0.000	N	2	(e

Gambar 1.8 klik menu pc client , klik desktop dan klik command prompt untuk mengecek pc apakah sudah tersambung atau tidak



Gambar 1.9 server dan client tersambung dengan benar



The image shows a Packet Tracer PC Command Prompt window for PC1. The window has a green title bar with the text 'PC1' and standard window controls. Below the title bar are tabs for 'Physical', 'Config', 'Desktop', 'Programming', and 'Attributes', with 'Desktop' selected. The Command Prompt window itself has a blue title bar with 'Command Prompt' and a close button. The main area is black with white text showing the output of a ping command to 192.168.1.3. The output indicates that all four packets were received successfully with 0% loss.

```
Packet Tracer PC Command Line 1.0
C:\>PING 192.168.1.3

Pinging 192.168.1.3 with 32 bytes of data:

Reply from 192.168.1.3: bytes=32 time=1ms TTL=128
Reply from 192.168.1.3: bytes=32 time=1ms TTL=128
Reply from 192.168.1.3: bytes=32 time=7ms TTL=128
Reply from 192.168.1.3: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 7ms, Average = 2ms

C:\>
```

Top

Gambar 1.10 server dan client tidak tersambung dengan benar karena salah input Ip

```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.20

Pinging 192.168.1.20 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.1.20:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

Tugas Diskusi :

Lakukanlah Diskusi Dengan Kelompok Anda ,Pahami Materi Dhcp Server Ini,
Rumuskan Hasil Diskusi Anda Terkait Dengan :

1. Design prinsip kerja dhcp server kemudian jelaskan sesuai dengan pendapat kalian!
2. Tuliskan pendapat kalian mengenai serve dan client
3. Tugas individu buatlah kesimpulan dari materi dhcp server ini



BACK

Untuk materi bisa di open website

<https://sites.google.com/view/ai1989hsb>

Sekian terimah kasih semoga bermanfaat

SELESAI