

Eseguito da: Florence Decaro

Utilizzo packet tracer per configurare 3 PC e uno switch (layer 2) come da modello ISO/OSI

Configurare gli indirizzi Ip sui pc come indicato:

- Laptop0 192.168.1.1 / 255.255.255.0

The screenshot displays the Cisco Packet Tracer interface. The main workspace shows a network topology with three devices connected to a central switch:

- Laptop-PT Laptop0
- Laptop-PT Laptop1
- PC-PT PC0
- 2960-24TT Switch0

The configuration window for Laptop0 is open, showing the following settings:

- FastEthernet0**
  - Port Status: ☒ On
  - Link Speed: 100 Mbps (Auto)
  - Duplex: Full Duplex (Auto)
  - MAC Address: 0060.2F06.9C83
- IP Configuration**
  - Static
  - IPv4 Address: 192.168.1.1
  - Subnet Mask: 255.255.255.0
- IPv6 Configuration**
  - Static
  - IPv6 Address: (empty)
  - Link Local Address: FE80::260:2FFF:FE06:9C83

The bottom of the interface shows the command line interface (CLI) with the following commands entered:

```
enable
configure terminal
interface FastEthernet0
ip address 192.168.1.1 255.255.255.0
no shutdown
exit
```

The status bar at the bottom indicates the time is 15:51 on 12/12/2025.

## Architettura target – Configurazione IP

12/12/2025

Laptop1 192.168.1.2 / 255.255.255.0

The screenshot displays the Cisco Packet Tracer interface. The main workspace shows a network topology with three devices connected to a central switch:

- Laptop-PT Laptop0
- Laptop-PT Laptop1
- PC-PT PC0
- 2960-24TT Switch0

The interface is set to the 'Physical' tab. A configuration window for 'Laptop1' is open, showing the 'Config' tab. The configuration for the 'FastEthernet0' interface is as follows:

- GLOBAL**
  - Settings
  - Algorithm Settings
- INTERFACE**
  - FastEthernet0
    - Port Status: ☒ On
    - Link Speed: ☒ 100 Mbps ☐ 10 Mbps ☒ Auto
    - Duplex: ☐ Half Duplex ☒ Full Duplex ☒ Auto
    - MAC Address: 00E0.8F6A.C978
  - Bluetooth
- IP Configuration**
  - ☐ DHCP
  - ☒ Static
    - IPv4 Address: 192.168.1.2
    - Subnet Mask: 255.255.255.0
- IPv6 Configuration**
  - ☐ Automatic
  - ☒ Static
    - IPv6 Address: [empty field]
    - Link Local Address: FE80::2E0:8FFF:FE6A:C978

The bottom of the interface shows the 'PLAY CONTROLS' section with a time display of 41:42:54.789. The 'Event List' and 'Realtime' tabs are visible at the bottom right.

## Architettura target – Configurazione IP

12/12/2025

PC0 192.168.1.3 / 255.255.255.0

Cisco Packet Tracer - C:\Users\lore\OneDrive\Desktop\architettura target.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical x 1039, y: 197

PC0 Configuration:

- Physical: FastEthernet0
- Config: Port Status: On; Link Speed: 100 Mbps; Duplex: Full Duplex; MAC Address: 0090.0C5C.879B
- IP Configuration: Static; IPv4 Address: 192.168.1.3; Subnet Mask: 255.255.255.0
- IPv6 Configuration: Static; IPv6 Address: ; Link Local Address: FE80::290:CFF:FE5C:879B

Time: 41:42:54.789 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

Copper Straight-Through

10°C Soleggiato

15:53 12/12/2025

## Modalità simulation

Cisco Packet Tracer - C:\Users\flores\OneDrive\Desktop\architettura target.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical x: 291, y: 296

Root 09:54:30

Simulation Panel

Event List

Vis.	Time(sec)	Last Device
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Reset Simulation ☒ Constant Delay Captured to: (no captures)

Play Controls

Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IEC, IPsec, ISAKMP, IoT, IoT TCP, LACP, LLDP, MODBUS, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, Profinet, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Event List Realtime Simulation

Time: 41:43:04.783 PLAY CONTROLS

Copper Straight-Through

Scenario 0

New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

10°C Soleggiato

Cerca

15:55 12/12/2025

## Command prompt laptop 1

The screenshot displays the Cisco Packet Tracer interface. The main workspace shows a network topology with three laptops (Laptop-PT Laptop0, Laptop-PT Laptop1, and PC-PT PC0) connected to a central 2960-24TT Switch0. The interface includes a menu bar at the top, a toolbar, and a status bar at the bottom. A 'Laptop1' window is open, showing the 'Desktop' tab with a 'Command Prompt' window. The command prompt displays the text 'Cisco Packet Tracer PC Command Line 1.0' and 'C:\>'. The bottom status bar shows the time as 15:58 on 12/12/2025, and the temperature as 10°C in Soleggiato.

Time: 41:43:04.783

PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

Copper Straight-Through

10°C Soleggiato

Cerca

15:58 12/12/2025

## Comando 192.168.1.3 Ping

Cisco Packet Tracer - C:\Users\flores\OneDrive\Desktop\architettura target.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical x: 406, y: 0

Root

12.02.30

Laptop1

Physical Config Desktop Programming Attributes

Command Prompt

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

Device

Constant Delay Captured to: (no captures)

Events

Bluetooth, CAPWAP, CDP, DHCP, POL, EIGRP, EIGRPv6, FTP, HTTP, HTTPS, ICMP, ICMPv6, IoT, TCP, LACP, LLDP, NETFLOW, NTP, OSPF, PPP, PPPoE, PTP, Profinet, g, RTP, SCCP, SMTP, SNMP, CACS, TCP, TFTP, Telnet, UDP,

USB, VTP

Edit Filters Show All/None

Event List Realtime Simulation

Time: 41:43:04.783 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

Copper Straight-Through

9°C Soleggiato

Cerca

15:59 12/12/2025

## Architettura target – Configurazione IP

12/12/2025

Cisco Packet Tracer - C:\Users\flores\OneDrive\Desktop\architettura target.pkt

File Edit Options View Tools Extensions Window Help

Logical

Laptop1

Physical Config Desktop Programming Attributes

Command Prompt

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

Pinging 192.168.1.3 with 32 bytes of data:
```

2960-24TT Switch0

Laptop-PT Laptop1

PC-PT PC0

Simulation Panel

Event List

Vis.	Time(sec)	Last Device
Visible	0.000	--
Visible	0.000	--

Reset Simulation Constant Delay Captured to: 0.000 s

Play Controls

Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IEC, IPsec, ISAKMP, IoT, IoT TCP, LACP, LLDP, MODBUS, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, Profinet, RADIUS, REP, RIP, RIPv2, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Time: 41:43:04.783 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

Copper Straight-Through

Allerta nebbia Rilasciato ora

Cerca

16:00 12/12/2025

# Architettura target – Configurazione IP

12/12/2025

Cisco Packet Tracer - C:\Users\fiore\OneDrive\Desktop\architettura target.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical x: 328, y: 0

Root 13:13:00

Simulation Panel

Event List

Vis.	Time(sec)	Last Device
0.000	--	
0.000	--	
Visible 0.001		Laptop1

Reset Simulation Constant Delay Captured to: 0.001 s

Play Controls

Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IEC, IPsec, ISAKMP, IoT, IoT TCP, LACP, LLDP, MODBUS, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, Profinet, RADIUS, REP, RIP, RIPv2, RIPv3, SFTP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Time: 41:43:04.784 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

Copper Straight-Through

Alerta nebbia Rilasciato ora

Cerca

16:01 12/12/2025

## Architettura target – Configurazione IP

12/12/2025

Cisco Packet Tracer - C:\Users\fiore\OneDrive\Desktop\architettura target.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical x: 127, y: 109

Root 13:24:00

Simulation Panel

Event List

Vis.	Time(sec)	Last Device
	0.000	--
	0.000	--
	0.001	Laptop1
Visible	0.002	Switch0
Visible	0.002	Switch0

Reset Simulation ☒ Constant Delay Captured to: 0.002 s

Play Controls

Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IEC, IPsec, ISAKMP, IoT, IoT TCP, LACP, LLDP, MODBUS, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, Profinet, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Time: 41:43:04.785 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

Copper Straight-Through

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

3 Giorni di pioggia... 9°C

Cerca

16:02 12/12/2025

```
graph TD; Laptop0[Laptop0] --- Switch0[Switch0]; Laptop1[Laptop1] --- Switch0; PC0[PC0] --- Switch0;
```

# Architettura target – Configurazione IP

12/12/2025

Cisco Packet Tracer - C:\Users\fiore\OneDrive\Desktop\architettura target.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical x: 348, y: 29

Root 13:55:30

Simulation Panel

Vis.	Time(sec)	Last Device
---	0.000	--
---	0.000	--
---	0.001	Laptop1
---	0.002	Switch0
---	0.002	Switch0
---	0.003	PC0
Visible	0.004	Switch0
Visible	0.004	--

Reset Simulation Constant Delay Captured to: 0.004 s

Play Controls

Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IEC, IPsec, ISAKMP, IoT, IoT TCP, LACP, LLDP, MODBUS, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, Profinet, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Event List Realtime Simulation

Time: 41:43:04.787 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

Copper Straight-Through

3 Giorni di pioggia... 9°C

Cerca

16:03 12/12/2025

## Esaminazione pacchetti

Cisco Packet Tracer - C:\Users\lore\OneDrive\Desktop\architettura target.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical x: 674, y: 393

PDU Information at Device: Switch0

OSI Model Inbound PDU Details Outbound PDU Details

PDU Formats

EthernetII

Bytes

PREAMBLE: 101010...10 DEST ADDR: FFFF.FFFF.FFFF.FFFF

SRC ADDR: 0060.2F06.9C83 TYPE: 0x0806 DATA (VARIABLE LENGTH) FCS: 0x00000000

Arp

Bits

HARDWARE TYPE: 0x0001 PROTOCOL TYPE: 0x0800

HLEN: 0x06 PLEN: 0x04 OPCODE: 0x0001

SOURCE MAC: 0060.2F06.9C83

SOURCE IP: 192.168.1.1

TARGET MAC: 0000.0000.0000

TARGET IP: 192.168.1.1

Simulation Panel

Event List

Vis.	Time(sec)	Last Device
	0.000	--
	0.001	Laptop0
Visible	0.002	Switch0
Visible	0.002	Switch0

Time: 41:43:15.785 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

Copper Straight-Through

Strumento di cattura

Screenshot copiato negli Appunti

Salvato automaticamente nella cartella Screenshot.

Commenti e condivisione

9°C Soleggiato

Cerca

16:07 12/12/2025

## Architettura target – Configurazione IP

12/12/2025

Cisco Packet Tracer - C:\Users\lflore\OneDrive\Desktop\architettura target.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical x 562, y: 9

Root 19:35:30

**PDU Information at Device: Switch0**

OSI Model Inbound PDU Details Outbound PDU Details

PDU Formats

Ethernet II

0		4		8		Bytes	
PREAMBLE: 101010...10				DEST ADDR: 0090.0C5C.879B			
SRC ADDR: 00E0.8F6A.C978		TY: 0		DATA (VARIABLE LENGTH)		FCS: 0x00000000	

IP

0		4		8		16		20		24		Bits	
VER: 4		IHL: 5		DSCP: 0x00				TL: 128					
ID: 0x0005				F: 0				FRAG OFFSET: 0x000					
TTL: 128				PRO: 0x01				CHKSUM					
SRC IP: 192.168.1.2													
DST IP: 192.168.1.3													
DATA (VARIABLE LENGTH)													

ICMP

Diagram showing a network topology with a central switch (Switch0) connected to two laptops (Laptop0, Laptop1) and a PC (PC0). The switch is labeled "2960-24TT Switch0".

**Simulation Panel**

Event List

Vis.	Time(sec)	Last Device
---	0.000	--
---	0.001	Laptop0
---	0.002	Switch0
---	0.002	Switch0
---	0.996	--
---	0.997	Switch0
---	0.997	Switch0
---	0.997	Switch0
---	0.997	--
---	0.998	Laptop1
---	0.999	Switch0
---	1.000	PC0
Visible	1.001	Switch0

Reset Simulation ☒ Constant Delay Captured to: 1.001 s

Play Controls

Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IEC, IPsec, ISAKMP, IoT, IoT TCP, LACP, LLDP, MODBUS, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, Profinet, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Time: 41:43:16.784 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

Copper Straight-Through

9°C Soleggiato

Cerca

16:14 12/12/2025