

## Architettura target – Configurazione IP

Configurare gli indirizzi ip sui pc come indicato in figura:

- 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 labeled '2960-24TT Switch0': 'Laptop-PT Laptop0', 'Laptop-PT Laptop1', and 'PC-PT PC0'. The interface includes a menu bar at the top, a toolbar, and a status bar at the bottom. A configuration window for 'Laptop0' is open, showing the 'Config' tab. The 'FastEthernet0' interface is selected, and the IP configuration is set to 'Static' with an IPv4 Address of '192.168.1.1' and a Subnet Mask of '255.255.255.0'. The IPv6 configuration is set to 'Automatic' with a Link Local Address of 'FE80::260:2FFF:FE06:9C83'. The bottom status bar shows the time as 15:51 on 12/12/2025.

## Architettura target – Configurazione IP

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 configuration window for Laptop1 is open, showing the following settings:

- Physical** tab: FastEthernet0
- Config** tab:
  - GLOBAL** section:
    - Port Status: ☒ On
    - Link Speed: ☒ 100 Mbps ☐ 10 Mbps
    - Duplex: ☒ Half Duplex ☒ Full Duplex
    - MAC Address: 00E0.8F6A.C978
  - INTERFACE** section:
    - IP Configuration: ☒ Static ☐ DHCP
    - IPv4 Address: 192.168.1.2
    - Subnet Mask: 255.255.255.0
    - IPv6 Configuration: ☒ Automatic ☐ Static
    - IPv6 Address: (empty)
    - Link Local Address: FE80::2E0:8FFF:FE6A:C978

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

```
Copper Straight-Through
```

The status bar at the bottom indicates the time is 41:42:54.789 and the temperature is 10°C.

## Architettura target – Configurazione IP

PC0 192.168.1.3 / 255.255.255.0

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

File Edit Options View Tools Extensions Window Help

Logical Physical x 1039, y: 197

2960-24TT Switch0

Laptop-PT Laptop0

Laptop-PT Laptop1

PC-PT PC0

PC0 Config

Physical Config Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Bluetooth

FastEthernet0

Port Status ☒ On

Link Speed ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0090.0C5C.879B

IP Configuration

☐ DHCP

☒ Static

IPv4 Address 192.168.1.3

Subnet Mask 255.255.255.0

IPv6 Configuration

☐ Automatic

☒ 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

Cerca

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

Event List Realtime Simulation

15:53 12/12/2025

## Architettura target – Configurazione IP

### Modalità simulation

Cisco Packet Tracer - C:\Users\fiore\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
------	-----------	-------------

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

Time: 41:43:04.783 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

Copper Straight-Through

10°C Soleggiato

Cerca

15:55 12/12/2025

```
graph TD; Laptop0[Laptop-PT Laptop0] --- Switch0[2960-24TT Switch0]; Laptop1[Laptop-PT Laptop1] --- Switch0; PC0[PC-PT PC0] --- Switch0;
```

## Architettura target – Configurazione IP

### Command prompt laptop 1

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 'Laptop1' device is selected, and the 'Desktop' tab is active. The 'Command Prompt' window is open, showing the following text:

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

The bottom status bar indicates the time is 41:43:04.783, and the simulation is running. The system tray at the bottom shows the date and time as 15:58 on 12/12/2025.

## Architettura target – Configurazione IP

### Comando 192.168.1.3 Ping

Cisco Packet Tracer - C:\Users\lore\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
```

Diagram showing a network topology with three laptops (Laptop-PT Laptop0, Laptop-PT Laptop1, PC-PT PC0) connected to a central switch (2960-24TT Switch0).

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
------	-------------	--------	-------------	------	-------	-----------	----------	-----	------	--------

USB, VTP

Edit Filters Show All/None

Event List Realtime Simulation

9°C Soleggiato

Cerca

15:59 12/12/2025

## Architettura target – Configurazione IP

Cisco Packet Tracer - C:\Users\lore\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:
```

Top

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

Event List Realtime Simulation

Time: 41:43:04.783 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

Copper Straight-Through

Allerta nebbia Rilasciato ora

Cerca

16:00 12/12/2025



## Architettura target – Configurazione IP

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

File Edit Options View Tools Extensions Window Help

Logical Physical x: 328, y: 0

Root

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, CAPIWAP, 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: 41.43.04.784 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

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

File Edit Options View Tools Extensions Window Help

Logical Physical c 127, y 109

Root

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, RIPv2, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Event List Realtime Simulation

Time: 41:43:04.785 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

Copper Straight-Through

3 Giorni di pioggia... 9°C

Cerca

16:02 12/12/2025

## Architettura target – Configurazione IP

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

Event List

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, RIPv2, 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

Copper Straight-Through

Scenario 0

New Delete

Toggle PDU List Window

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

3 Giorni di pioggia... 9°C

Cerca

16:03 12/12/2025

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:
```

## Architettura target – Configurazione IP

### Esaminazione pacchetti

Cisco Packet Tracer - C:\Users\fiore\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	0	4	8	
PREAMBLE: 101010...10				
DEST ADDR: FFFF.FFFF.F				
FFF				
SRC ADDR: 0060.2F06.9C83				
TYPE: 0x0806				
DATA (VARIABLE LENGTH)				
FCS: 0x00000000				

Arp

Bits	0	8	16	
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				

2960-24TT Switch0

Laptop-PT Laptop1

PC-PT PC0

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

Copper Straight-Through

Scenario 0

New Delete

Toggle PDU List Window

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

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

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

File Edit Options View Tools Extensions Window Help

Logical Physical x 579, y: 5

Root 16:56:00

PDU Information at Device: Switch0

OSI Model Inbound PDU Details Outbound PDU Details

PDU Formats

EthernetII

Bytes	0	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	84	88	92	96	100						
PREAMBLE: 101010...10																																
				DEST ADDR: FFFF.FFFF.FFFF																												
SRC ADDR: 0060.2F06.9C83				TYPE: 0x0806				DATA (VARIABLE LENGTH)								FCS: 0x00000000																

Arp

Bits	0	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136	144	152	160	168	176	184	192	200	208	216	224	232	240	248	256														
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																															

Diagram showing a network topology with a central switch (Switch0) connected to two laptops (Laptop1 and PC0) and a PC (PC0).

Simulation Panel

Event List

Vis.	Time(sec)	Last Device
	0.000	--
	0.001	Laptop0
	0.002	Switch0
	0.002	Switch0
	0.996	--
Visible	0.997	Switch0
Visible	0.997	Switch0
Visible	0.997	Switch0

Reset Simulation ☒ Constant Delay Captured to: 0.997 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: 41:43:16.780 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

Copper Straight-Through

## Architettura target – Configurazione IP

Protocollo MAC: serve a controllare l'accesso al mezzo trasmissivo da parte dei dispositivi nella rete locale, utilizzando un indirizzo univoco per identificare ogni dispositivo.

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

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, PAP, 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

PDU Information at Device: Switch0

OST Model Inbound PDU Details Outbound PDU Details

PDU Formats

Ethernet II

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

IP

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

ICMP