

Report Configurazione Server in rete locale

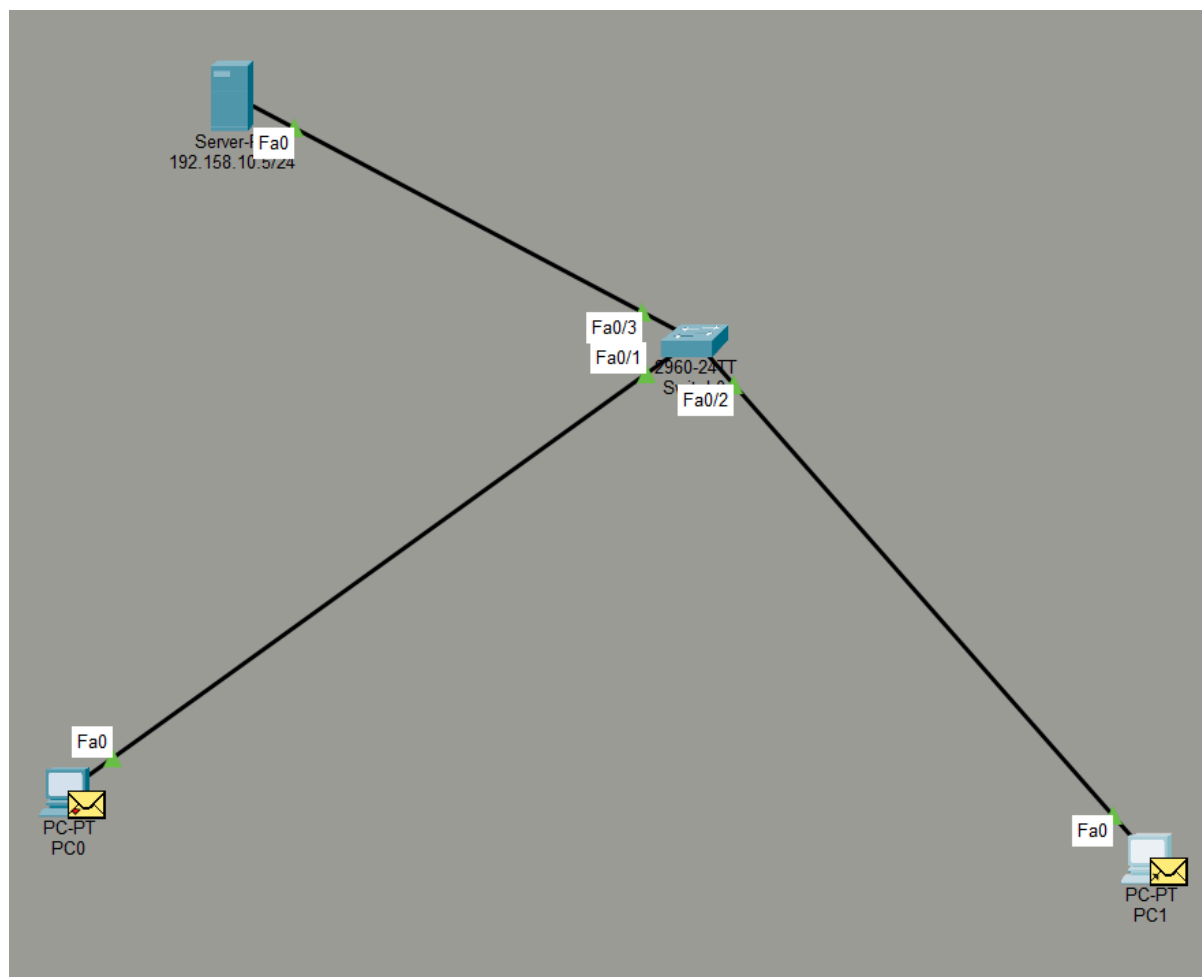
Obbiettivo :

Configurazione di un Server DHCP su Cisco Packet Tracer Obiettivo:
Configurare un server DHCP per la distribuzione automatica degli indirizzi IP.

Attività:

- Installare e configurare un server DHCP Cisco Packet Tracer).
- Configurare il server per assegnare indirizzi IP in un range specifico.

Topologia rete :



Rete a stella con 2 host, 1 Switch ,1 Server

Configurazione del server:

192.158.10.5/24

Physical Config Services Desktop Programming Attributes

IP Configuration

IP Configuration

☒ DHCP ☒ Static

IPv4 Address 192.158.10.5

Subnet Mask 255.255.255.0

Default Gateway 192.168.10.1

DNS Server 0.0.0.0

IPv6 Configuration

☒ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::2D0:58FF:FE63:10C9

Default Gateway

DNS Server

802.1X

☒ Use 802.1X Security

Authentication MD5

Username

Password

Top

IPv4: 192.158.10.5

SubnetMask : 255.255.255.0

Default Gateway: 192.168.10.1

Consifgurazione DHCP Server

192.158.10.5/24

Physical Config **Services** Desktop Programming Attributes

SERVICES

- HTTP
- DHCP**
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP
- IoT
- VM Management
- Radius EAP
- PRP

DHCP

Interface: FastEthernet0 Service: ☒ On ☐ Off

Pool Name: serverPool

Default Gateway: 192.168.10.1

DNS Server: 0.0.0.0

Start IP Address : 192 158 10 150

Subnet Mask: 255 255 255 0

Maximum Number of Users : 100

TFTP Server: 0.0.0.0

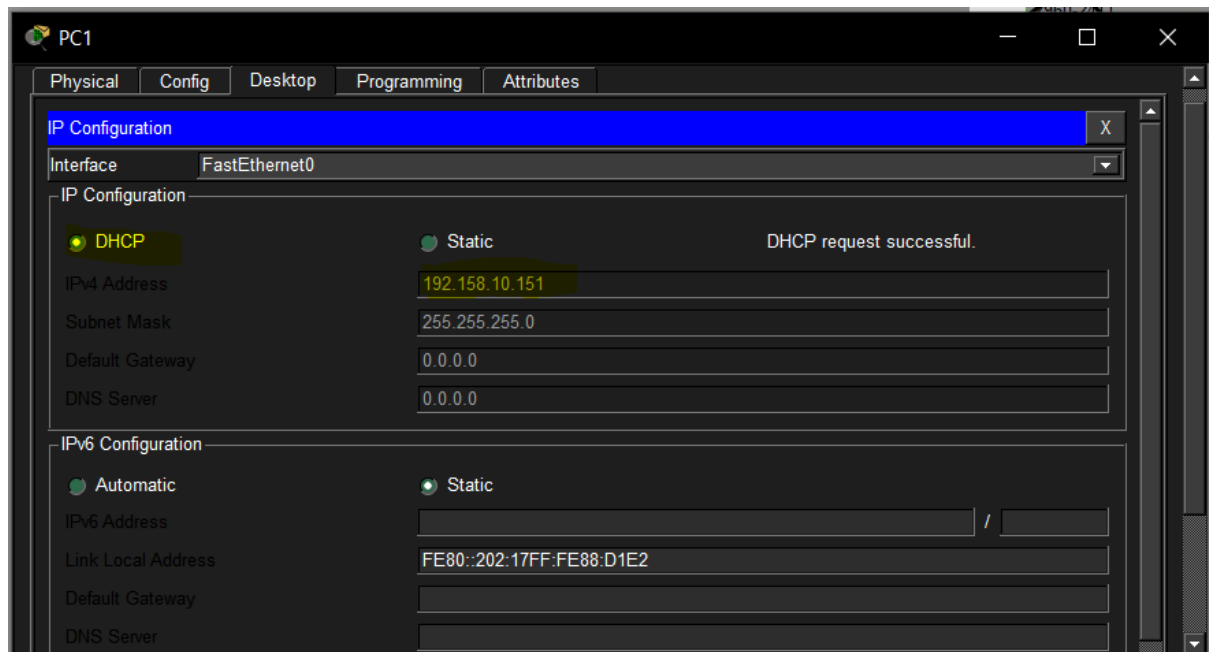
WLC Address: 0.0.0.0

Add Save Remove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	192.168.1...	0.0.0.0	192.158.1...	255.255.2...	100	0.0.0.0	0.0.0.0

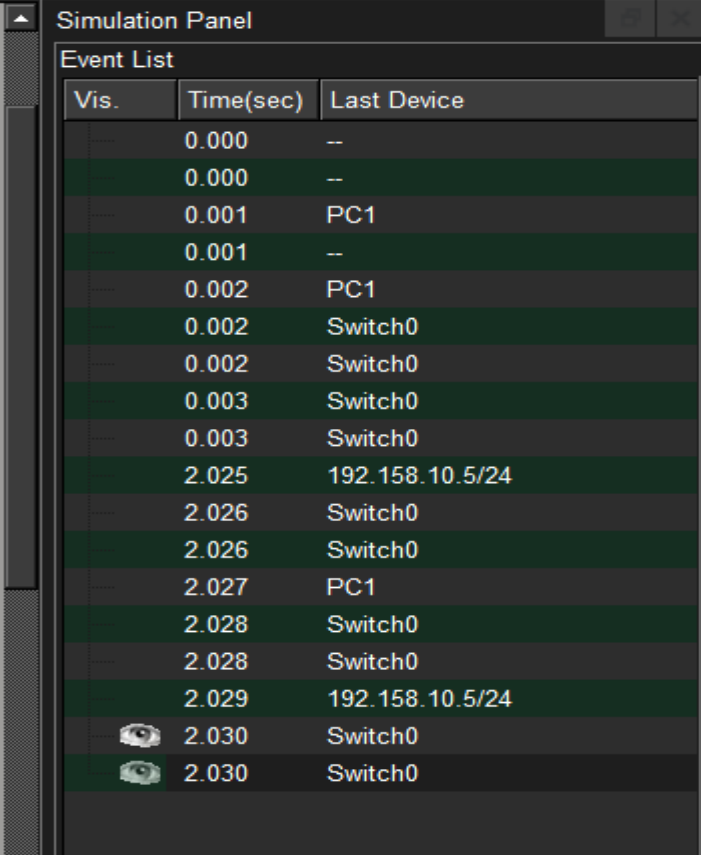
Come si può vedere, si attiva il DHCP, si imposta la Defual Gateway (192.158.10.1) associata alla rete locale e si imposta un Ip Address iniziale (192.158.10.150) e un numero masimo di utenti (100). In questo modo tutti i nuovi host messi all'interno della rete riceveranno un Ip automatico senza doverlo assegnare manualmente. Ipv4 assegnato partirà dallo Start Ip Address e andrà in ordine per un massimo di 100 Users.

Configurazione Host



IPv4 assegnato automaticamente grazie a Configurazione del server connesso alla rete locale.

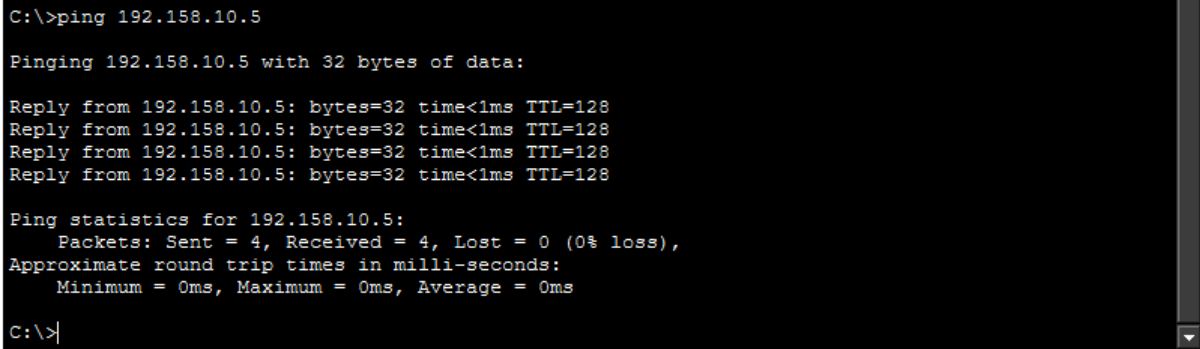
Test :

A screenshot of a 'Simulation Panel' window. It contains an 'Event List' table with three columns: 'Vis.', 'Time(sec)', and 'Last Device'. The table lists network events over time, showing packets being sent and received by various devices like PC1, Switch0, and a server at 192.158.10.5/24. The events are timestamped from 0.000 to 2.030 seconds.

Vis.	Time(sec)	Last Device
	0.000	--
	0.000	--
	0.001	PC1
	0.001	--
	0.002	PC1
	0.002	Switch0
	0.002	Switch0
	0.003	Switch0
	0.003	Switch0
	2.025	192.158.10.5/24
	2.026	Switch0
	2.026	Switch0
	2.027	PC1
	2.028	Switch0
	2.028	Switch0
	2.029	192.158.10.5/24
	2.030	Switch0
	2.030	Switch0

Tramite la modalità Simulation si può vedere come il DHCP venga assegnata correttamente e senza errori.

Verifica se in server è raggiungibile.

A screenshot of a Windows Command Prompt window. It shows the execution of a 'ping' command to the IP address 192.158.10.5. The output indicates that four packets were sent and all were received successfully with 0% loss. The round trip times are all 0ms.

```
C:\>ping 192.158.10.5

Pinging 192.158.10.5 with 32 bytes of data:

Reply from 192.158.10.5: bytes=32 time<1ms TTL=128
Reply from 192.158.10.5: bytes=32 time<1ms TTL=128
Reply from 192.158.10.5: bytes=32 time<1ms TTL=128
Reply from 192.158.10.5: bytes=32 time<1ms TTL=128

Ping statistics for 192.158.10.5:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

Si riesce a fare il Ping dal PC0 a il server 192.158.10.5