

## Consegna S2 L1

### Consegna

Configurazione di un Server DHCP su Cisco Packet Tracer Obiettivo:

Configurare un server DHCP per la distribuzione automatica degli indirizzi IP.

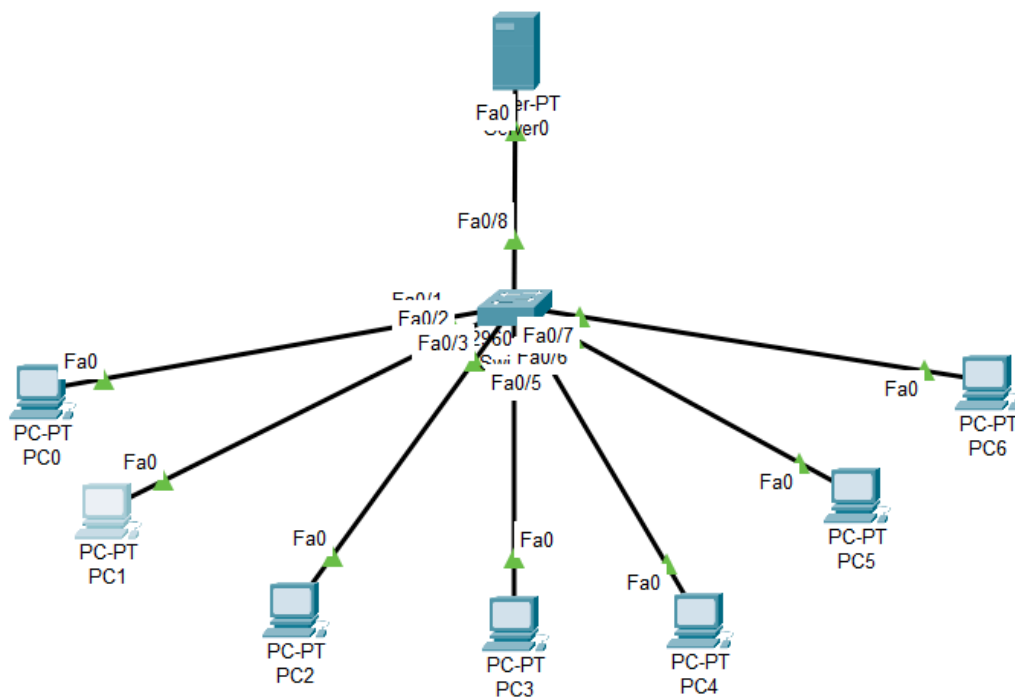
Attività:

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

### Svolgimento

Creiamo il nostro setup su Cisco Packet Tracer.

Nel nostro caso (1 server, 1 switch e 7 host).



Collegiamo i 7 pc allo switch e lo switch al server.

Il secondo passo è andare nel config tab del server, andando a configurare:

- Nome del Pool
- Default Gateway
- Range degli indirizzi

The screenshot shows the 'Server0' configuration window with the 'Services' tab selected. On the left, a 'SERVICES' sidebar lists various services, with 'DHCP' highlighted. The main area is titled 'DHCP' and contains configuration fields for the 'FastEthernet0' interface. The 'Service' is set to 'On'. The 'Pool Name' is 'Prova', 'Default Gateway' is '192.168.1.1', and 'DNS Server' is '0.0.0.0'. The 'Start IP Address' is configured as 192.168.1.3 and the 'Subnet Mask' is 255.255.255.0. The 'Maximum Number of Users' is 252. Below these fields are 'Add', 'Save', and 'Remove' buttons. At the bottom, a table lists the configured DHCP pools.

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
Prova	192.168.1.1	0.0.0.0	192.168.1.3	255.255.255.0	252	0.0.0.0	0.0.0.0
serverPool	192.168.1.1	0.0.0.0	192.168.1.3	255.255.255.0	252	0.0.0.0	0.0.0.0

Ora non ci resta che configurare i client connessi, scegliendo l'opzione DHCP su IP Configuration, i pc ora riceveranno automaticamente un indirizzo IP dal server DHCP.

Per testare se funziona facciamo un test del ping.

```
C:\>ping 192.168.1.4

Pinging 192.168.1.4 with 32 bytes of data:

Reply from 192.168.1.4: bytes=32 time=2ms TTL=128
Reply from 192.168.1.4: bytes=32 time<1ms TTL=128
Reply from 192.168.1.4: bytes=32 time<1ms TTL=128
Reply from 192.168.1.4: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 2ms, Average = 0ms
```