

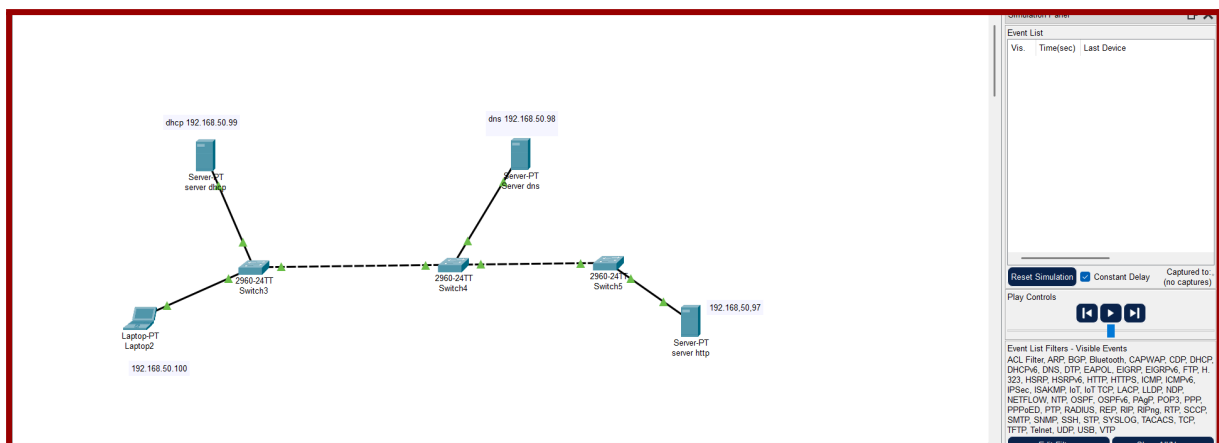
# RISOLUZIONE ESERCIZIO PACKET TRACER

## Richieste

- 1. Creare una rete che comprenda un server DHCP, uno DNS ed uno HTTP
- 2. Fare in modo che il server DHCP assegni un IP alle nostre macchine client
- 3. Utilizzare la nostra struttura di rete per poi collegare queste macchine ad un sito fittizio da noi creato (epicode.internal)

## Risoluzione delle richieste

Per iniziare, creiamo la nostra rete in modo da avere tutto sott'occhio



## Passiamo alla configurazione del nostro server DHCP

Physical Config **Services** Desktop Programming Attributes

**SERVICES**

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

**DHCP**

Interface: FastEthernet0 Service: ☒ On ☐ Off

Pool Name: serverPool

Default Gateway: 192.168.50.1

DNS Server: 192.168.50.98

Start IP Address: 192.168.50.100

Subnet Mask: 255.255.255.0

Maximum Number of Users: 156

TFTP Server: 0.0.0.0

WLC Address: 0.0.0.0

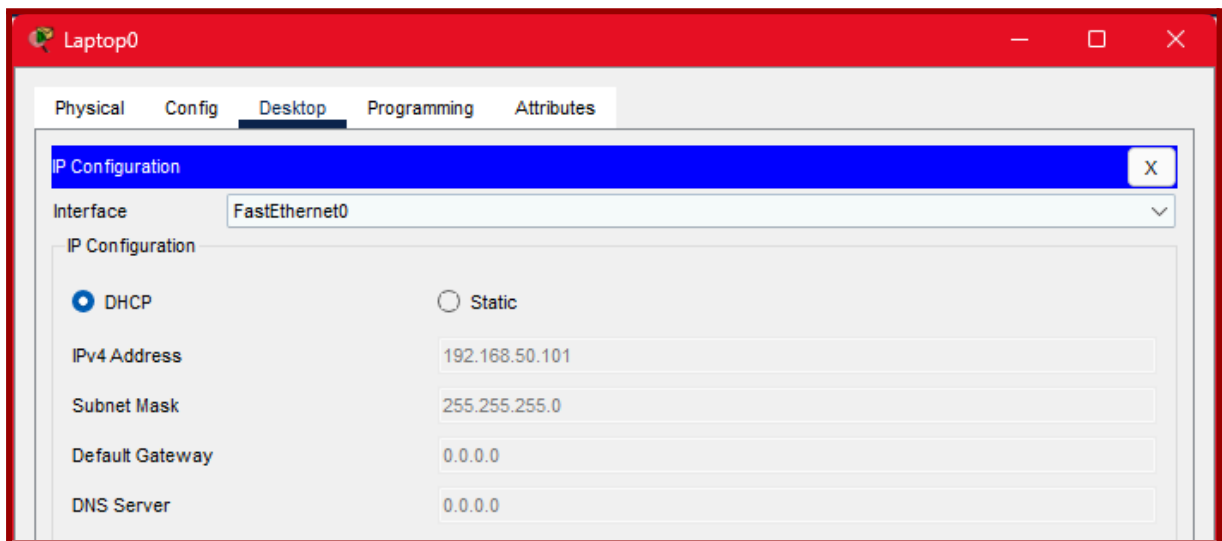
Add Save Remove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	192.168.50.1	192.168.50.98	192.168.50.100	255.255.255.0	156	0.0.0.0	0.0.0.0

**Impostiamo la configurazione IP del nostro laptop in DHCP e testiamo che il tutto funzioni dando il comando IPCONFIG al laptop2**



configurazione macchina



comando ipconfig

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

FastEthernet0 Connection:(default port)

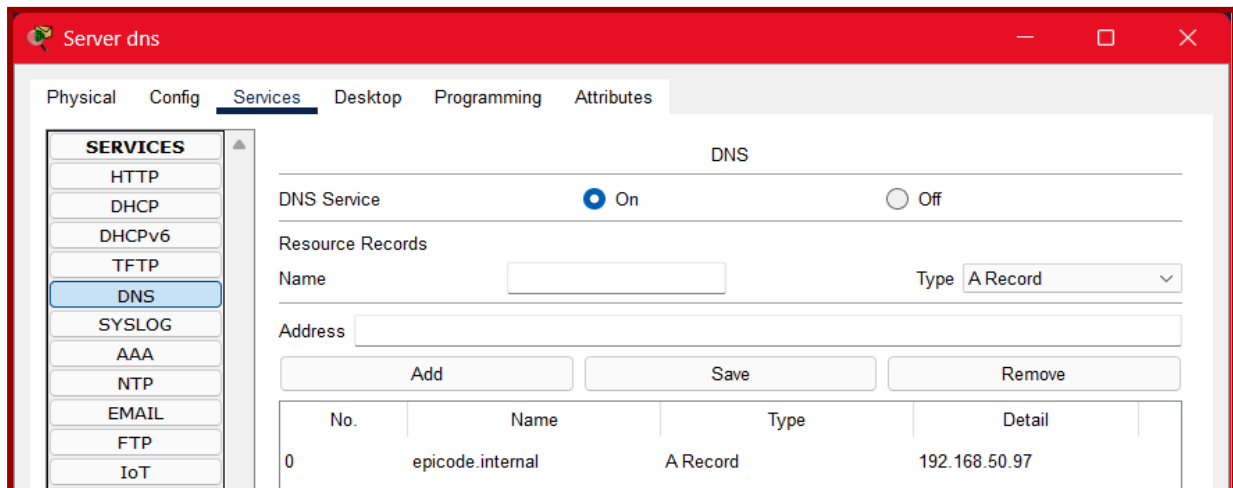
    Connection-specific DNS Suffix...:
    Link-local IPv6 Address.....: FE80::2D0:BCFF:FE7E:A69
    IPv6 Address.....: ::
    IPv4 Address.....: 192.168.50.100
    Subnet Mask.....: 255.255.255.0
    Default Gateway.....: ::
                        192.168.50.1

Bluetooth Connection:

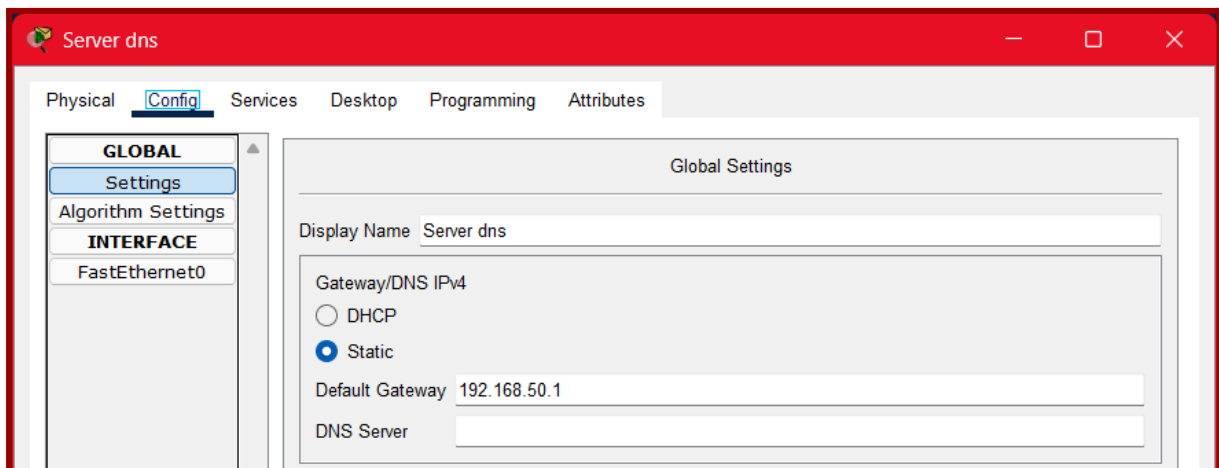
    Connection-specific DNS Suffix...:
    Link-local IPv6 Address.....: ::
    IPv6 Address.....: ::
    IPv4 Address.....: 0.0.0.0
    Subnet Mask.....: 0.0.0.0
    Default Gateway.....: ::
                        0.0.0.0
```

(la macchina utilizza il server DHCP e si assegna l'ip 192.168.50.100)

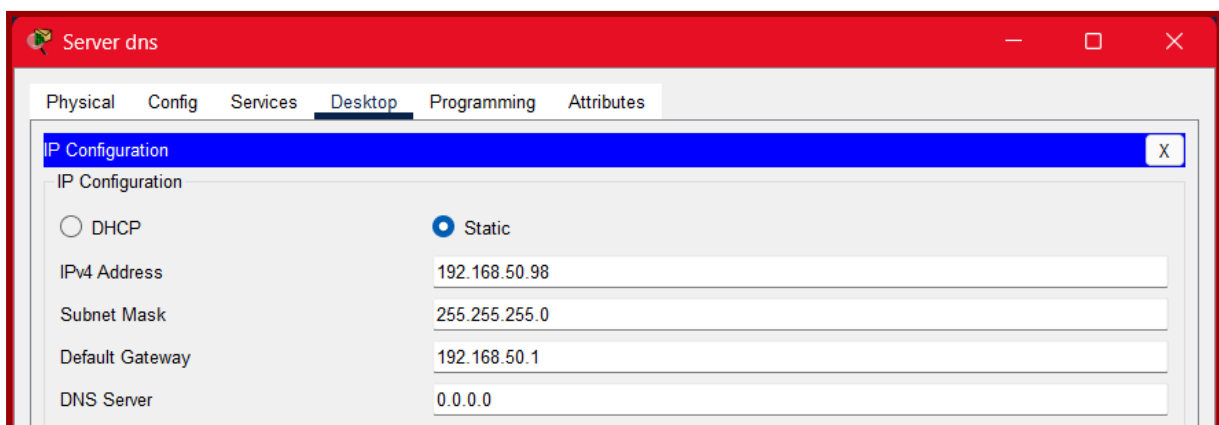
## Configuriamo ora il server DNS



(per iniziare ho configurato già da ora l'ip che il dns andrà a tradurre)



(nelle impostazioni principali del server vado ad impostare il gateway di default)



(configuro l'ip del server ed allego screen dove testo se la macchina laptop2 pinga effettivamente il DNS server)

Laptop2

Physical Config Desktop Programming Attributes

Command Prompt

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

FastEthernet0 Connection:(default port)

Connection-specific DNS Suffix...:
Link-local IPv6 Address.....: FE80::2D0:BCFF:FE7E:A69
IPv6 Address.....: ::
IPv4 Address.....: 192.168.50.100
Subnet Mask.....: 255.255.255.0
Default Gateway.....: ::
                               192.168.50.1

Bluetooth Connection:

Connection-specific DNS Suffix...:
Link-local IPv6 Address.....: ::
IPv6 Address.....: ::
IPv4 Address.....: 0.0.0.0
Subnet Mask.....: 0.0.0.0
Default Gateway.....: ::
                               0.0.0.0

C:\>ping 192.168.50.98

Pinging 192.168.50.98 with 32 bytes of data:

Reply from 192.168.50.98: bytes=32 time<1ms TTL=128
Reply from 192.168.50.98: bytes=32 time<1ms TTL=128
Reply from 192.168.50.98: bytes=32 time=2ms TTL=128
Reply from 192.168.50.98: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.50.98:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 2ms, Average = 0ms
```

(la macchina pinga correttamente il dns server)

### Configurazione server HTTP

Gateway/DNS IPv4

☐ DHCP

☒ Static

Default Gateway 192.168.50.1

DNS Server 192.168.50.98

(associamo al server il corretto gateway e l'ip del DNS server)

IP Configuration

☐ DHCP

☒ Static

IPv4 Address 192.168.50.97

Subnet Mask 255.255.255.0

Default Gateway 192.168.50.1

DNS Server 192.168.50.98

(diamo al nostro server l'ip precedentemente associato a epicode.internal)

**Test conclusivo: Connessione al sito epicode.internal, con IP 192.168.50.97**

