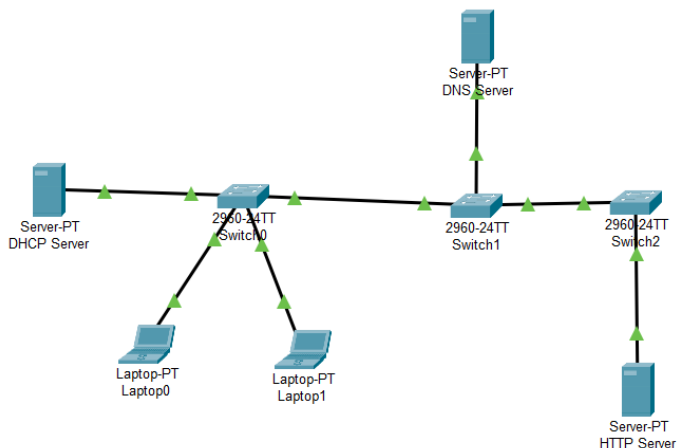


# Configurazione servizi di rete: DHCP, DNS e http



- Configurare “Record A” sul Server DNS per associare “Epicode.internal” all’ip del server http
- IPCONFIG dai due client
- Test controllo del DNS su “epicode.internal”
- Configurazione di due client per ricevere dal server DHCP

## Configurazione server DHCP

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	0.0.0.0	192.16...	192.16...	255.25...	255	0.0.0.0	0.0.0.0

Dopo aver cliccato su DHCP Server -> Services -> DHCP, possiamo vedere come configurare il Server. In alto andrà spuntata la voce “Service ON”, In DNS Server ( Rosso ) andrà inserito l’IP di riferimento che dovrà poi essere Salvato ( Save, secondo quadrato Rosso ) . In START IP (Blu ) andrà inserito il range di IP.

Nella sezione CONFIG inseriremo in Settings -> Static - > Indirizzo DNS. In FastEthernet0 un nuovo indirizzo Ip.

## Configurazione Server HTTP

Nel server HTTP -> Config -> Setting inseriremo un nuovo indirizzo IP, mentre in FastEthernet rimetteremo l'IP del DNS Service come in precedenza

Physical **Config** Services Desktop Programming Attributes

**GLOBAL**

Settings

Algorithm Settings

**INTERFACE**

FastEthernet0

Port Status ☒ On

Bandwidth ☐ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0001.42D8.6092

IP Configuration

☐ DHCP

☒ Static

IPv4 Address 192.168.1.3

Subnet Mask 255.255.255.0

Physical **Config** Services Desktop Programming Attributes

**GLOBAL**

Settings

Algorithm Settings

**INTERFACE**

FastEthernet0

Global Settings

Display Name DHCP Server

Gateway/DNS IPv4

☐ DHCP

☒ Static

Default Gateway

DNS Server 192.168.1.2

## Configurazione Server DNS:

Nel server DNS -> Config -> Setting inseriremo un nuovo indirizzo IP, mentre in FastEthernet rimetteremo l'IP del DNS Service come in precedenza

Physical **Config** Services Desktop Programming Attributes

**GLOBAL**

Settings

Algorithm Settings

**INTERFACE**

FastEthernet0

Port Status ☒ On

Bandwidth ☐ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 000A.F3B4.686C

IP Configuration

☐ DHCP

☒ Static

IPv4 Address 192.168.1.2

Subnet Mask 255.255.255.0

Physical **Config** Services Desktop Programming Attributes

**GLOBAL**

Settings

Algorithm Settings

**INTERFACE**

FastEthernet0

Global Settings

Display Name DHCP Server

Gateway/DNS IPv4

☐ DHCP

☒ Static

Default Gateway

DNS Server 192.168.1.2

DNS Server

Physical **Config** **Services** Desktop Programming Attributes

**SERVICES**

HTTP

DHCP

DHCPv6

TFTP

**DNS**

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

Radius EAP

DNS

DNS Service ☒ On ☐ Off

Resource Records

Name  Type A Record

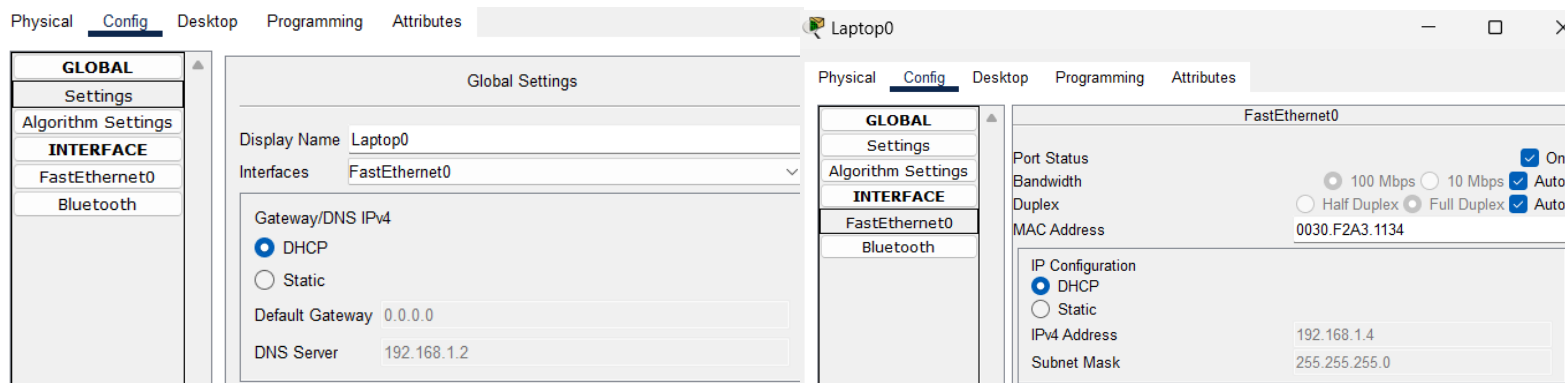
Address

Add Save Remove

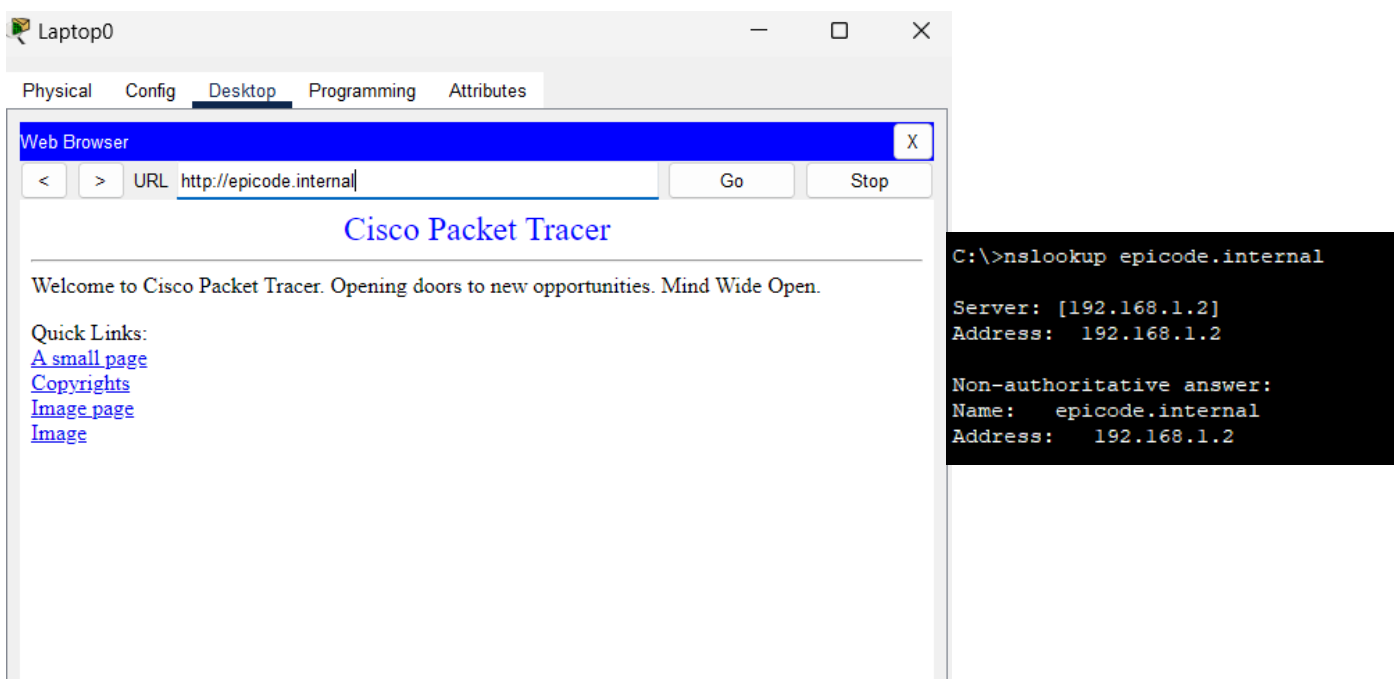
No.	Name	Type	Detail
0	epicode.internal	A Record	192.168.1.2

Spostandoci su Services -> DNS -> Inseriremo in NAME "epicode.internal" mentre Address l'ip del nostro Server HTTP

Completati questi passaggi possiamo spostarci sui due Laptop inseriti che andranno configurati in DHCP dove acquisiranno automaticamente i loro indirizzi IP



Come test finale possiamo controllare se le macchine comunicano in maniera corretta tra di loro:



Ip Config dei due Client

Laptop0

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>ipconfig

FastEthernet0 Connection: (default port)

Connection-specific DNS Suffix...:
Link-local IPv6 Address...: FE80::230:F2FF:FEA3:1134
IPv6 Address...: ::
IPv4 Address...: 192.168.1.5
Subnet Mask...: 255.255.255.0
Default Gateway...: ::
0.0.0.0

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:\>
```

☐ Top

Laptop1

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>ipconfig

FastEthernet0 Connection: (default port)

Connection-specific DNS Suffix...:
Link-local IPv6 Address...: FE80::202:17FF:FE23:81A2
IPv6 Address...: ::
IPv4 Address...: 192.168.1.4
Subnet Mask...: 255.255.255.0
Default Gateway...: ::
0.0.0.0

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:\>
```

☐ Top