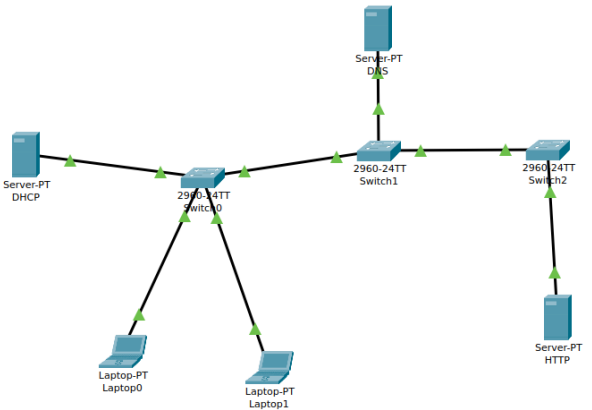


IN QUESTO ESERCIZIO SI AGGIUNGE COMPLESSITÀ ALLA RETE SEMPLICE

- #CONFIGURAZIONE DHCP
- #CONFIGURAZIONE DNS
- #CONFIGURAZIONE HTTP

- Configurare 2 client in modo tale da ricevere IP dal server DHCP (<- 192.168.100.125)
- Configurare un «record A» sul server DNS (<- 192.168.100.128) in modo tale da associare il nome «epicode.internal» all'IP del server HTTP (<- 192.168.100.90)
- Fare ipconfig dai due client (IP = o > 192.168.100.140)
- Fare un test per controllare se il DNS mi risolve correttamente epicode.internal
 - 1) andando sul sito web
 - 2) chiedendo la risoluzione da un client (es. Laptop0)

STRUTTURA NETWORK: INTERFACCIA SU PACKET TRACER



CONFIGURAZIONE SERVER DHCP (CHE DISTRIBUIRÀ 115 IP AI CLIENT A PARTIRE DA 192.168.100.140 FINO A 192.168.100.255):

DHCP

PhysicalConfigServicesDesktopProgrammingAttributes

SERVICES

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

DHCP

InterfaceFastEthernet0ServiceOnOff

Pool NameserverPool

Default Gateway192.168.100.1

DNS Server192.168.100.128

Start IP Address :192168100140

Subnet Mask:2552552550

Maximum Number of Users :116

TFTP Server:0.0.0.0

WLC Address:0.0.0.0

AddSaveRemove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	192.16...	192.16...	192.16...	255.25...	116	0.0.0.0	0.0.0.0

DHCP

Physical Config Services **Desktop** Programming Attributes

IP Configuration

IP Configuration

☐ DHCP

☒ Static

IPv4 Address 192.168.100.125

Subnet Mask 255.255.255.0

Default Gateway 192.168.100.1

DNS Server 192.168.100.128

CONFIGURAZIONE CLIENT:

Laptop0

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☒ DHCP

☐ Static

IPv4 Address 192.168.100.140

Subnet Mask 255.255.255.0

Default Gateway 192.168.100.1

DNS Server 192.168.100.128

STESSA IMPOSTAZIONE DI RIFERIMENTO AL DHCP x LAPTOP1

IPCONFIG:

Laptop0

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::207:ECFF:FE8E:999D
    IPv6 Address . . . . .: ::
    IPv4 Address . . . . .: 192.168.100.140
    Subnet Mask . . . . .: 255.255.255.0
    Default Gateway . . . . .: ::
                                   192.168.100.1

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:\>
```

Laptop1

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::206:2AFF:FE37:E8DB
    IPv6 Address . . . . .: ::
    IPv4 Address . . . . .: 192.168.100.141
    Subnet Mask . . . . .: 255.255.255.0
    Default Gateway . . . . .: ::
                                   192.168.100.1

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
```

CONFIGURARE "RECORD A" SUL SERVER DNS IN MODO DA ASSOCIARE LA VOCE EPICODE.INTERNAL ALL'IP DEL SERVER HTTP

HTTP

Physical Config Services Desktop Programming Attributes

IP Configuration X

IP Configuration

☐ DHCP

☒ Static

IPv4 Address

192.168.100.90

Subnet Mask

255.255.255.0

Default Gateway

192.168.100.1

DNS Server

192.168.100.128

DNS

Physical Config Services Desktop Programming Attributes

IP Configuration X

IP Configuration

☐ DHCP

☒ Static

IPv4 Address

192.168.100.128

Subnet Mask

255.255.255.0

Default Gateway

192.168.100.1

DNS Server

127.0.0.1

DNS

Physical Config Services Desktop Programming Attributes

SERVICES

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

DNS

DNS Service ☒ On ☐ Off

Resource Records

Name

Type

A Record

Address

Add

Save

Remove

No.	Name	Type	Detail
0	epicode.internal	A Record	192.168.100.90

PING EPICODE.INTERNAL DAL DNS SERVER
PING EPICODE.INTERNAL DAL CLIENT

DNS

Physical Config Services Desktop Programming Attributes

Command Prompt X

Cisco Packet Tracer SERVER Command Line 1.0
C:\>ping epicode.internal

Pinging 192.168.100.90 with 32 bytes of data:

Reply from 192.168.100.90: bytes=32 time=3ms TTL=128
Reply from 192.168.100.90: bytes=32 time<1ms TTL=128
Reply from 192.168.100.90: bytes=32 time<1ms TTL=128
Reply from 192.168.100.90: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.100.90:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 3ms, Average = 0ms

Laptop0

Physical Config Desktop Programming Attributes

Command Prompt X

C:\>ping epicode.internal

Pinging 192.168.100.90 with 32 bytes of data:

Reply from 192.168.100.90: bytes=32 time=1ms TTL=128
Reply from 192.168.100.90: bytes=32 time<1ms TTL=128
Reply from 192.168.100.90: bytes=32 time=1ms TTL=128
Reply from 192.168.100.90: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.100.90:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms