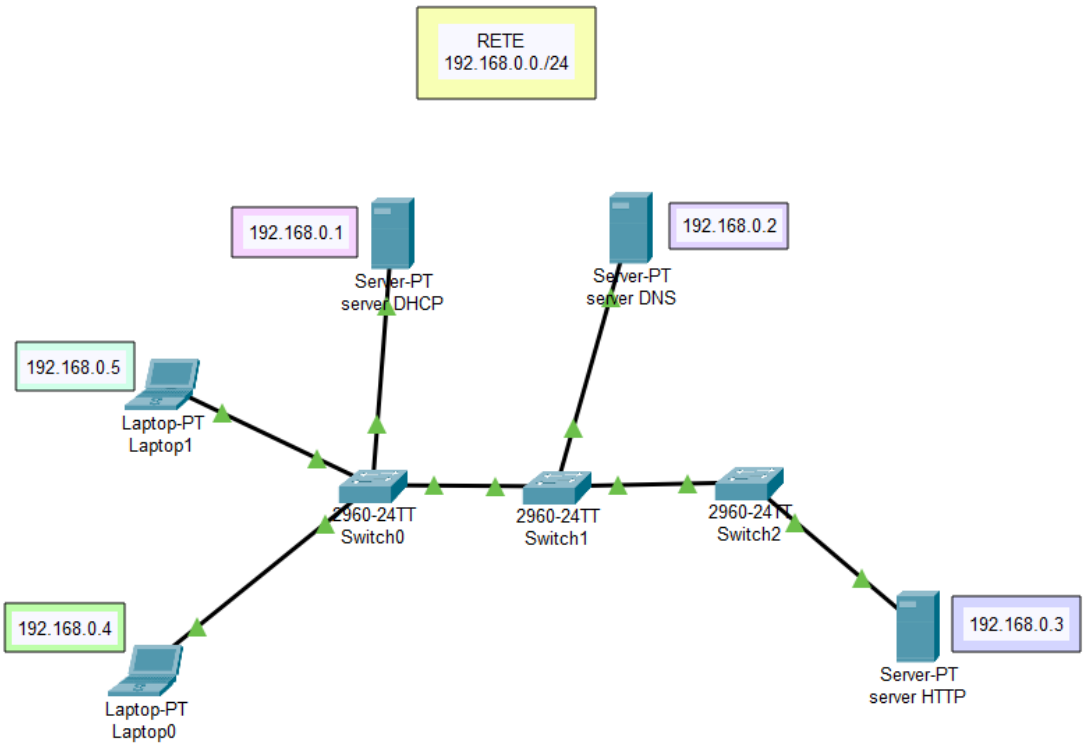
PRE-REQUISITI: NETWORK(2)

Aggiunta di servizi applicativi alla rete semplice

Configurazione di un servizio DHCP
Configurazione di un servizio DNS
Configurazione di un servizio HTTP

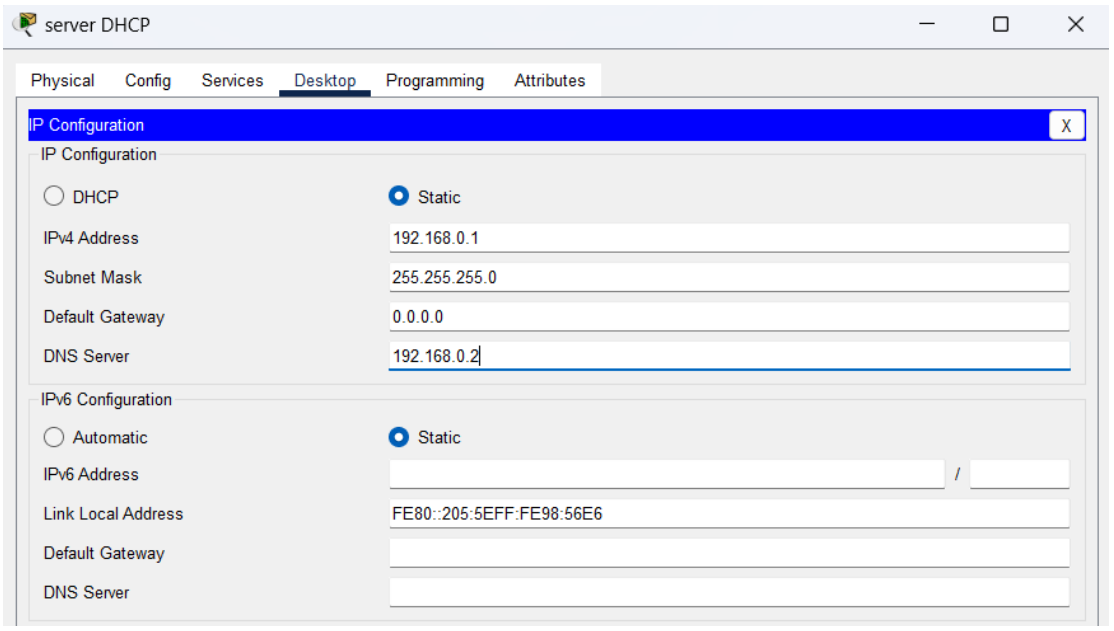
Architettura target:



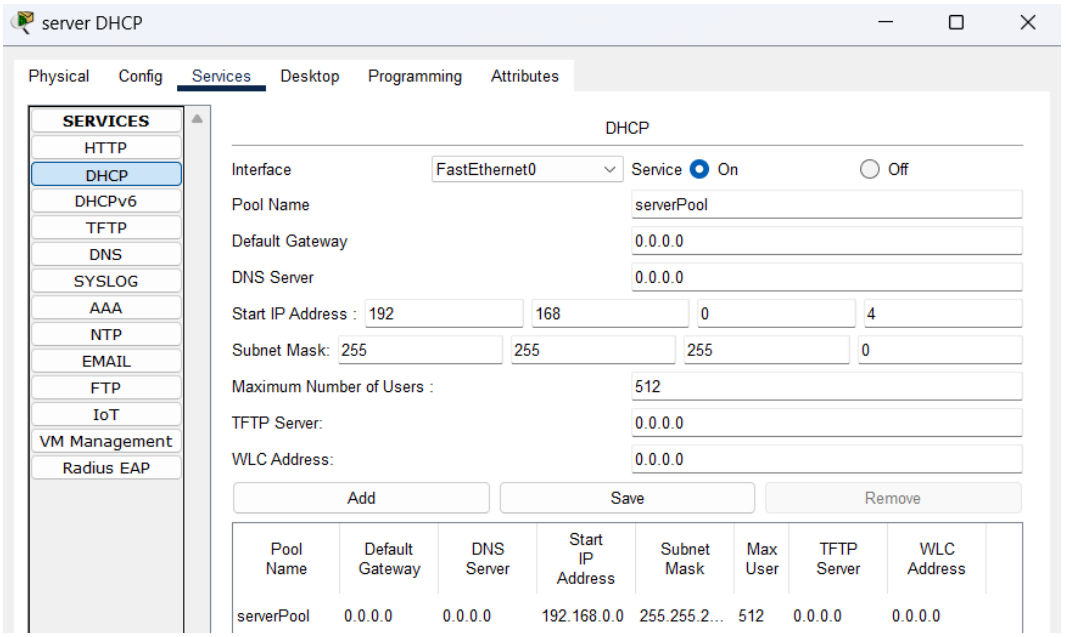
I) Configurare almeno 2 client in modo tale da ricevere IP dal server DHCP

1. Configurare il server DHCP

- configurare l'indirizzo IP del server DHCP in 'statico'
- inserire IP 192.168.0.1
- nel riquadro 'DNS Server' inserire IP 192.168.0.2

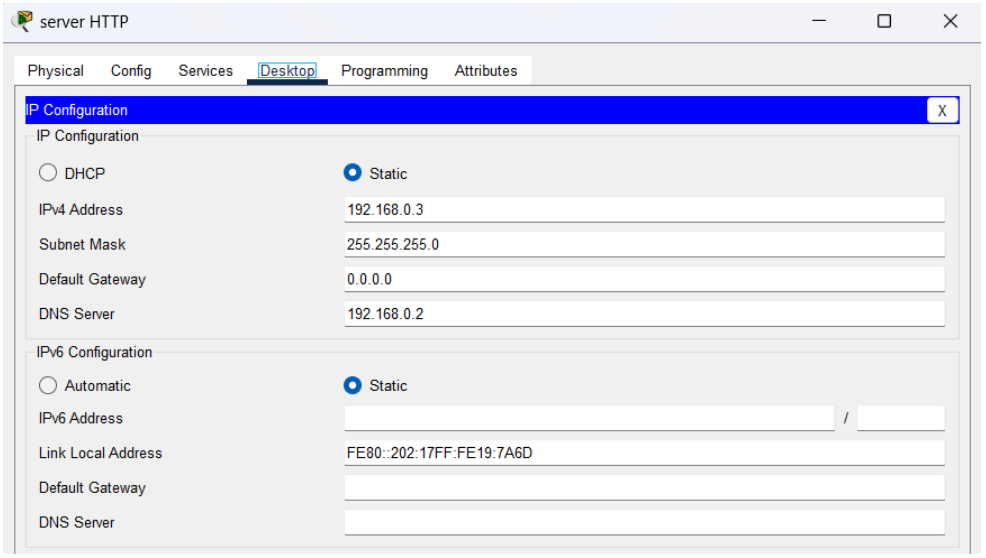


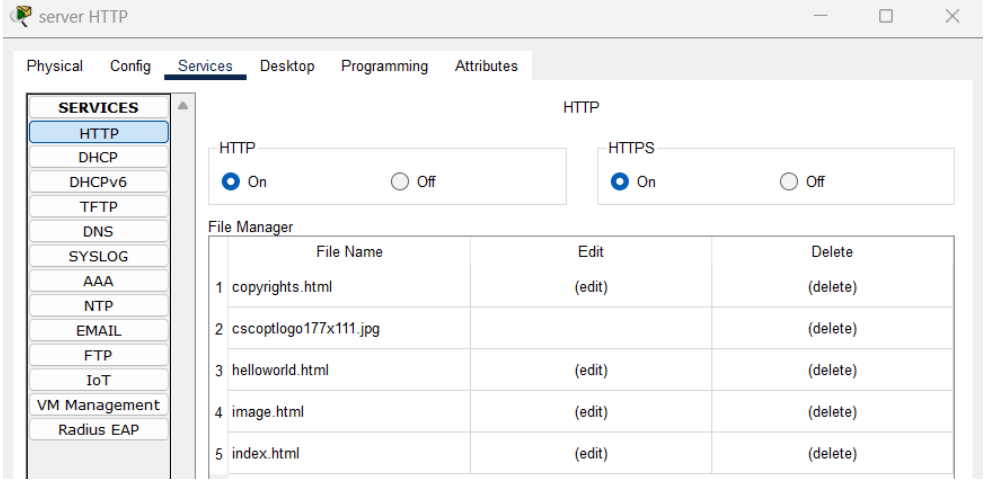
- sempre dal server DHCP andiamo sulla scheda ‘Services’
- configurare su ‘on’
- nel riquadro ‘Start IP Address’ immettere 192.168.0.4



2. Configurare il server HTTP

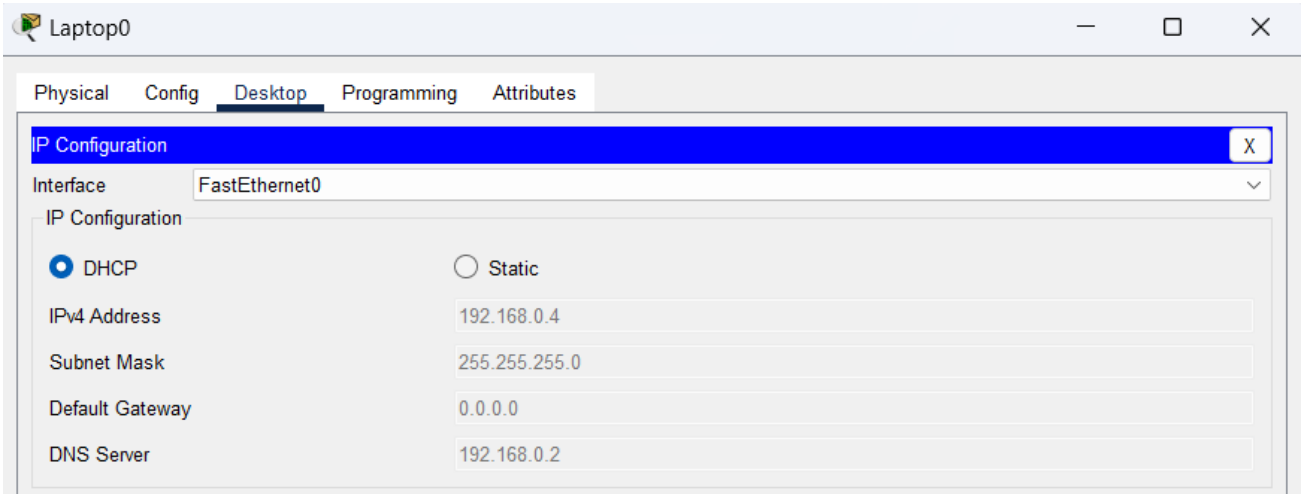
- configurare l’indirizzo IP del server HTTP in ‘statico’
- inserire IP 192.168.0.3
- nel riquadro ‘DNS Server’ inserire IP 192.168.0.2

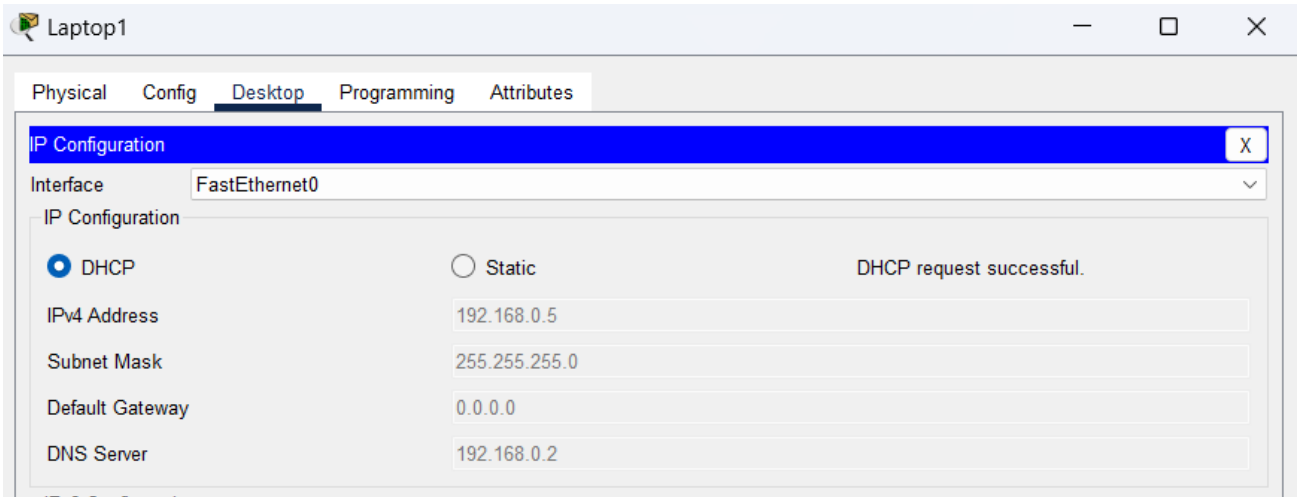




Per verificare che i due client riescano a ricevere l'IP dal server DHCP, bisogna:

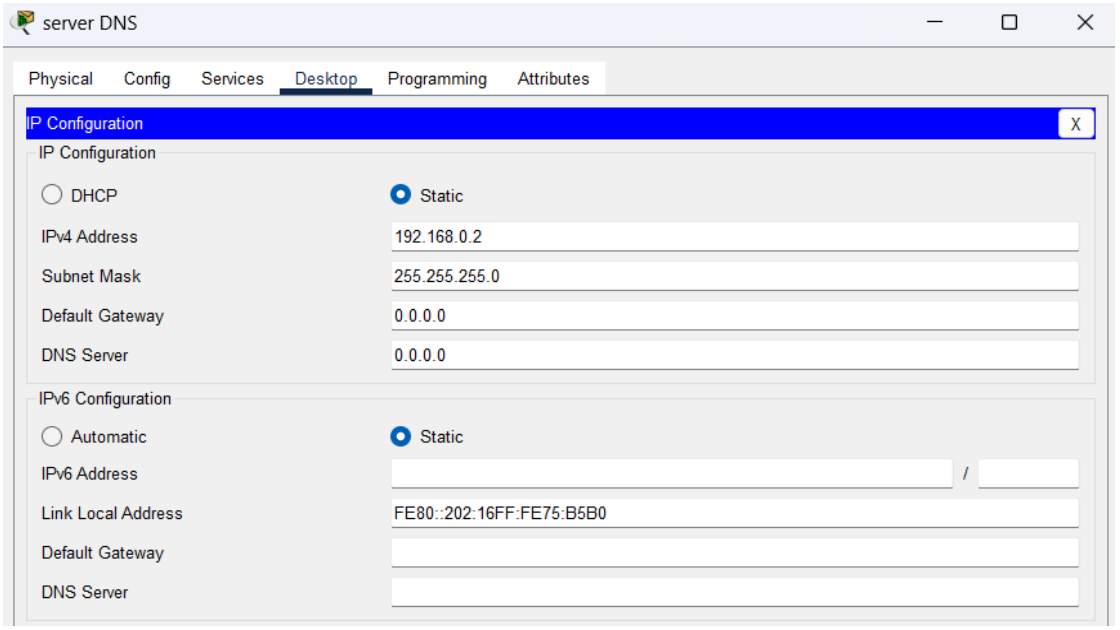
- ➢ andare sulla scheda 'Desktop'
- ➢ e configurare entrambi i client su DHCP
- ➢ dovrebbe comparire 'DHCP request successful'





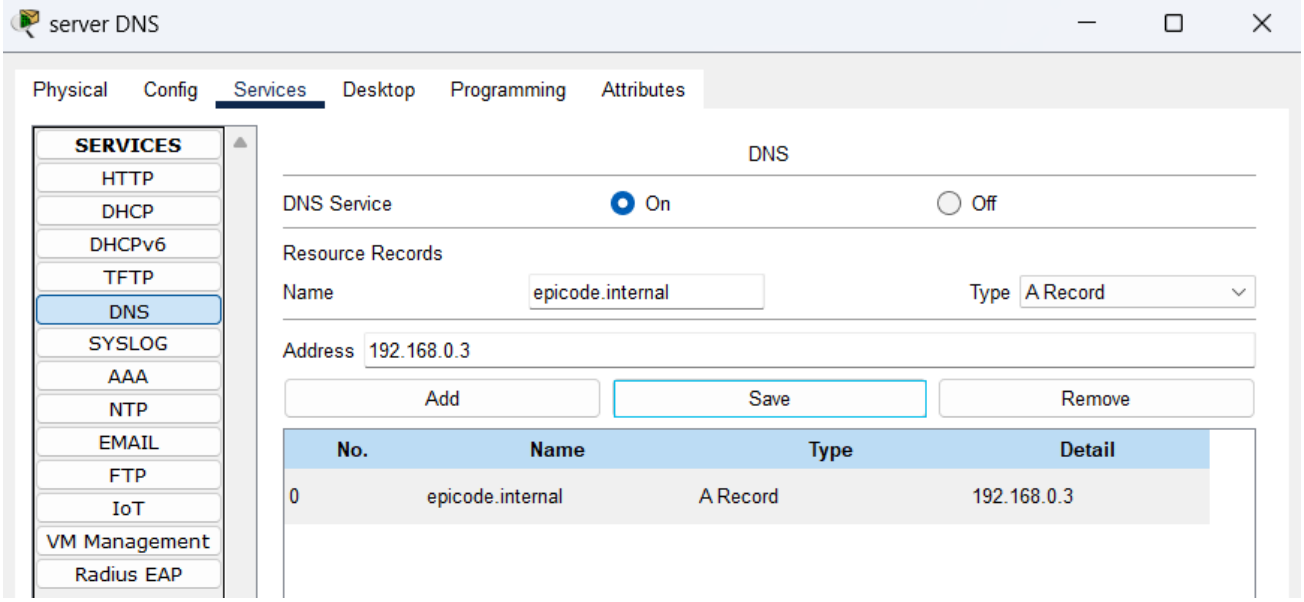
II) Configurare un 'record A' sul server DNS in modo tale da associare il nome <<epicode.internal>> all'IP del server HTTP

1. Configurare IP del server DNS in modalità 'Statica' e assegnare l'IP 192.168.0.2



2. Per configurare un ‘record A’:

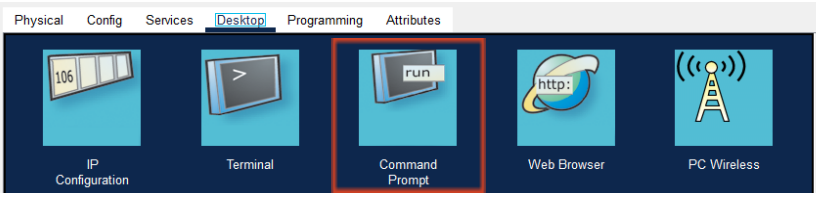
- Andare sulla scheda denominata “Services”
- cliccare su ‘DNS’
- configurare il servizio DNS su ‘On’
- inserire il nome ‘epicode.internal’
- assegnare l’indirizzo 192.168.0.3
- salvare



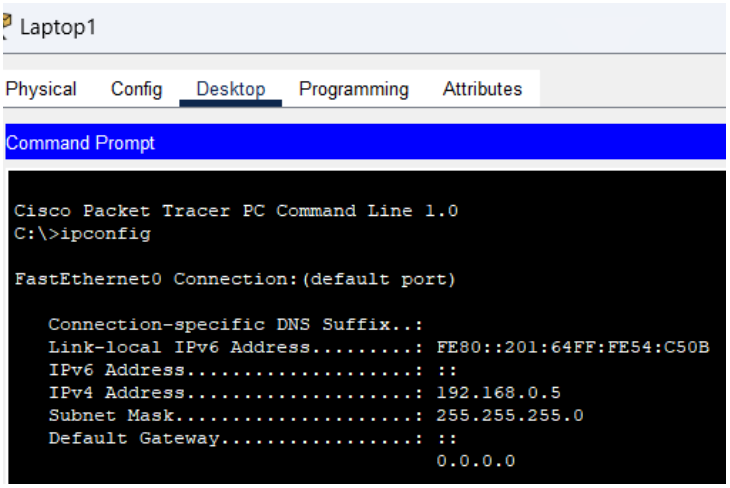
III) Fare ipconfig dai due client

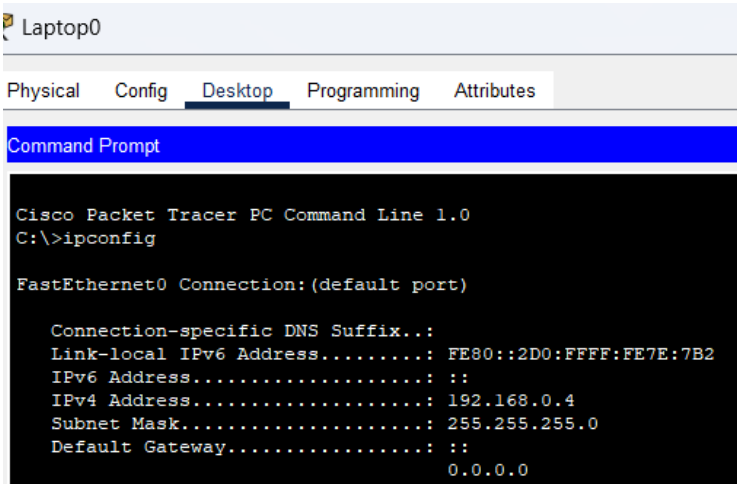
Per verificare l’indirizzo IP dei due client, bisogna:

- andare sulla scheda ‘Desktop’
- cliccare su ‘Command Prompt’



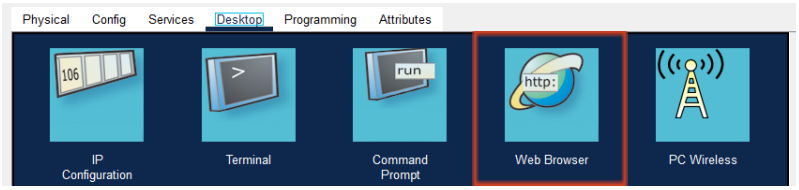
- digitare ‘ipconfig’ su entrambi i commando prompt dei due client



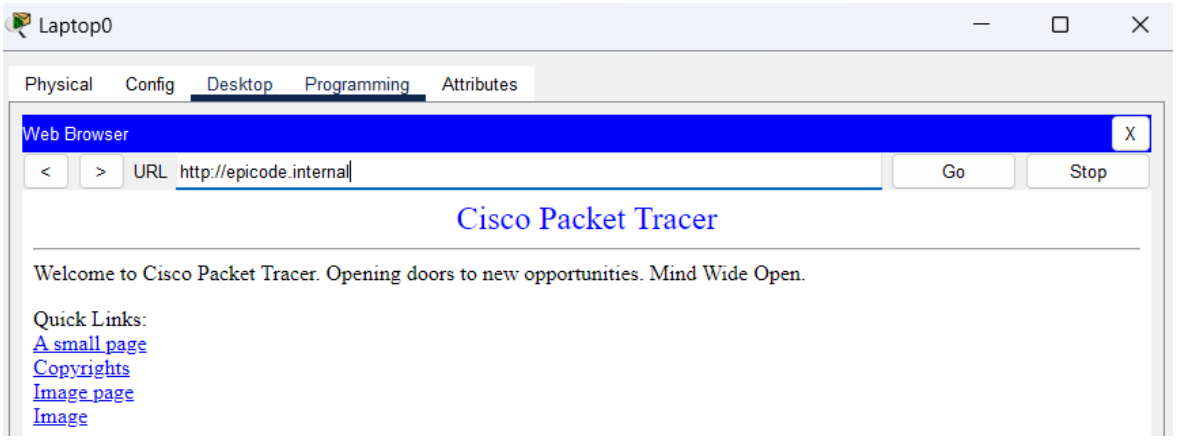


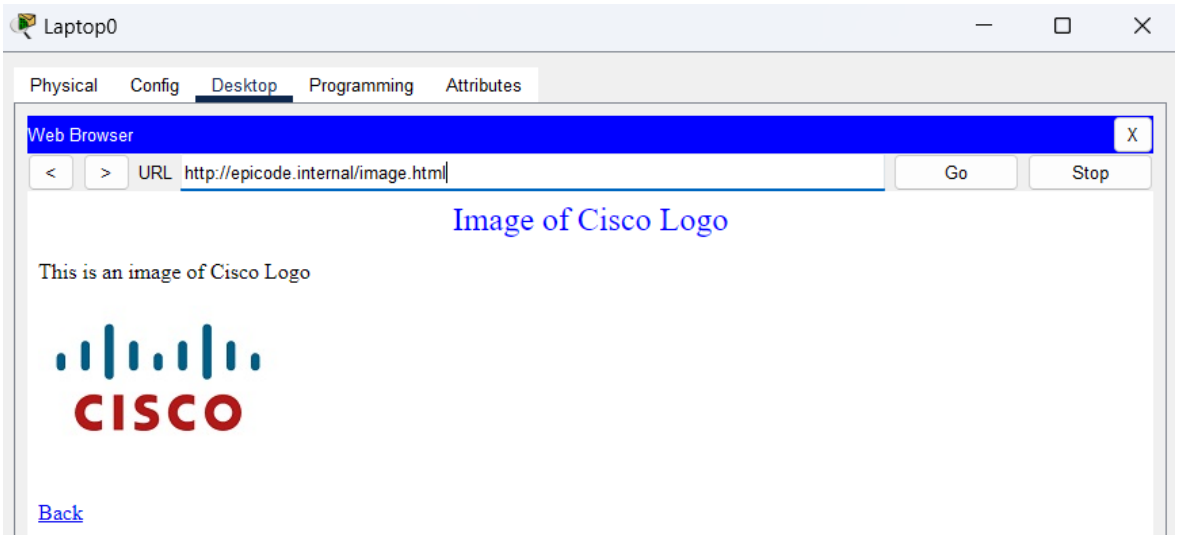
IV) Fare un test per controllare se il DNS mi risolve correttamente epicode.internal

1. Andando sul sito web: quindi andando sulla scheda 'Desktop' e cliccando su 'Web Browser' da entrambi i client (Laptop0 e Laptop1)

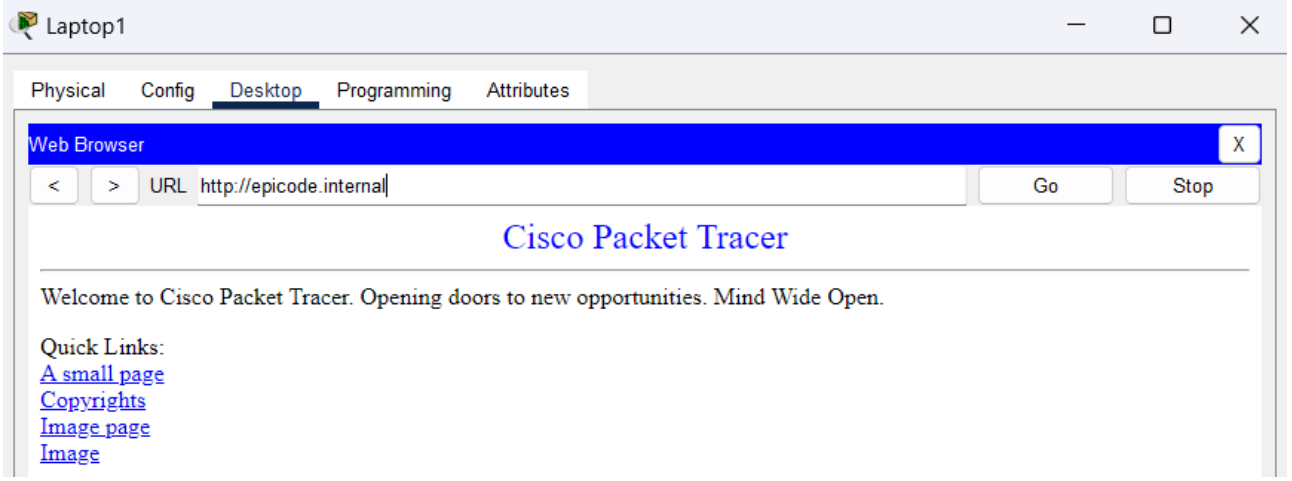


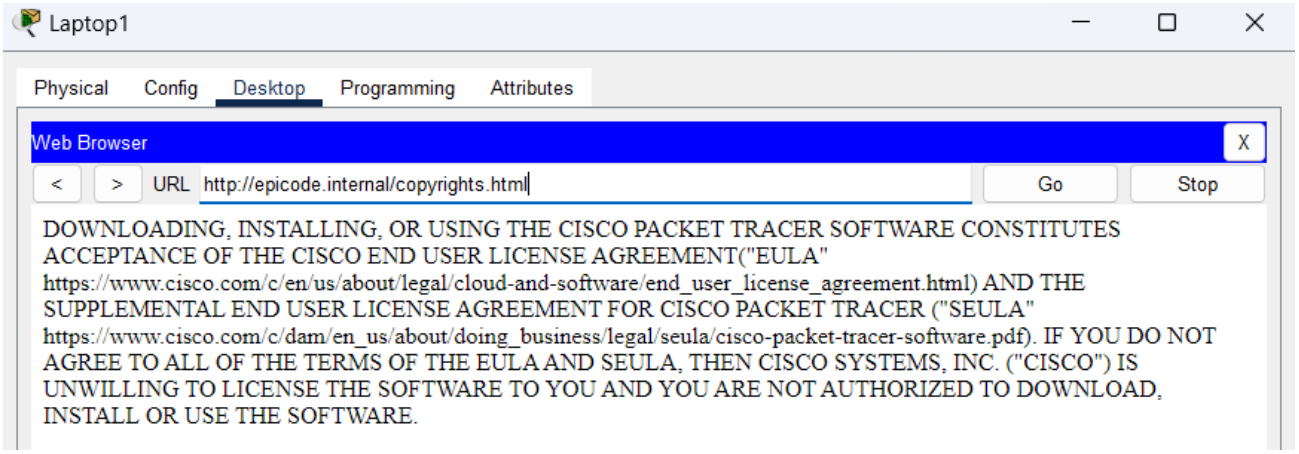
Da Laptop0





Da Laptop1





2. chiedendo la risoluzione da un client

Da Laptop0 • ping 192.168.0.2 (indirizzo server DNS) • ping epicode.internal	**Da Laptop1** • ping 192.168.0.2 (indirizzo server DNS) • ping epicode.internal
C:\>ping 192.168.0.2 Pinging 192.168.0.2 with 32 bytes of data: Reply from 192.168.0.2: bytes=32 time<1ms TTL=128 Reply from 192.168.0.2: bytes=32 time<1ms TTL=128 Reply from 192.168.0.2: bytes=32 time<1ms TTL=128 Reply from 192.168.0.2: bytes=32 time<1ms TTL=128 Ping statistics for 192.168.0.2: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 0ms, Maximum = 0ms, Average = 0ms C:\>ping epicode.internal Pinging 192.168.0.3 with 32 bytes of data: Reply from 192.168.0.3: bytes=32 time<1ms TTL=128 Reply from 192.168.0.3: bytes=32 time<1ms TTL=128 Reply from 192.168.0.3: bytes=32 time<1ms TTL=128 Reply from 192.168.0.3: bytes=32 time=1ms TTL=128 Ping statistics for 192.168.0.3: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 0ms, Maximum = 1ms, Average = 0ms	C:\>ping 192.168.0.2 Pinging 192.168.0.2 with 32 bytes of data: Reply from 192.168.0.2: bytes=32 time<1ms TTL=128 Reply from 192.168.0.2: bytes=32 time<1ms TTL=128 Reply from 192.168.0.2: bytes=32 time=1ms TTL=128 Reply from 192.168.0.2: bytes=32 time=1ms TTL=128 Ping statistics for 192.168.0.2: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 0ms, Maximum = 1ms, Average = 0ms C:\>ping epicode.internal Pinging 192.168.0.3 with 32 bytes of data: Reply from 192.168.0.3: bytes=32 time=1ms TTL=128 Reply from 192.168.0.3: bytes=32 time<1ms TTL=128 Reply from 192.168.0.3: bytes=32 time<1ms TTL=128 Reply from 192.168.0.3: bytes=32 time<1ms TTL=128 Ping statistics for 192.168.0.3: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 0ms, Maximum = 1ms, Average = 0ms