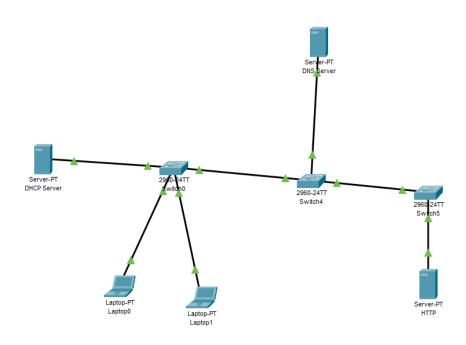
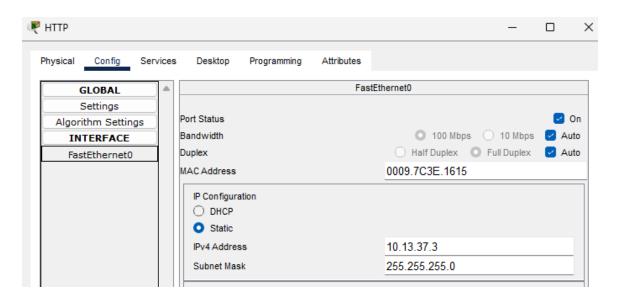


# Architettura

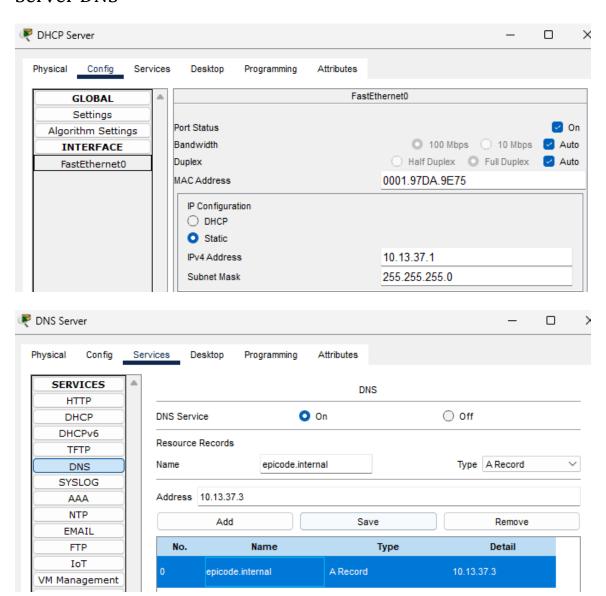


## Server HTTP



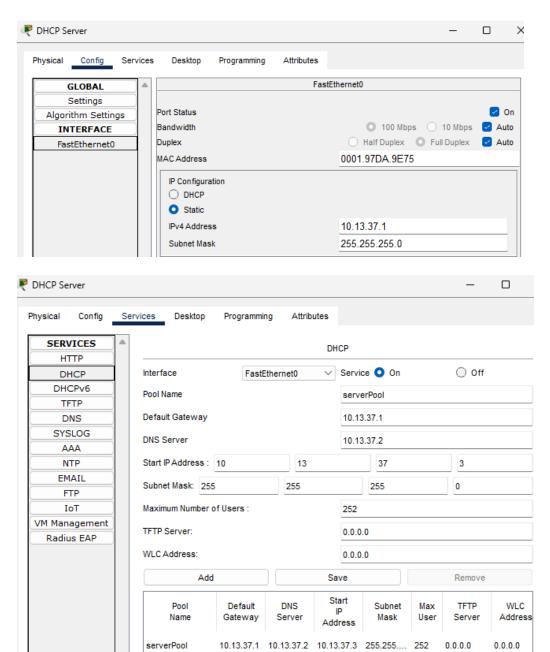


### Server DNS



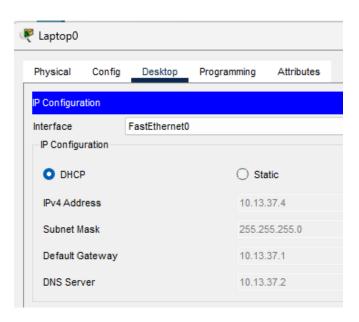


### Server DHCP





# Client 1

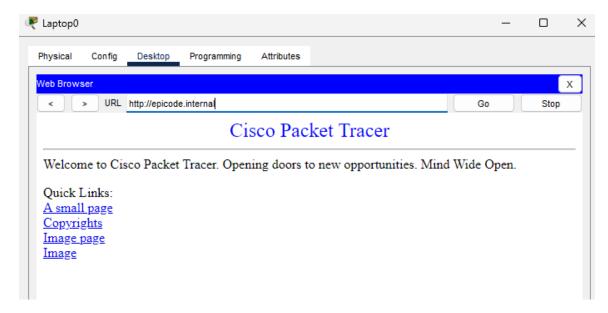


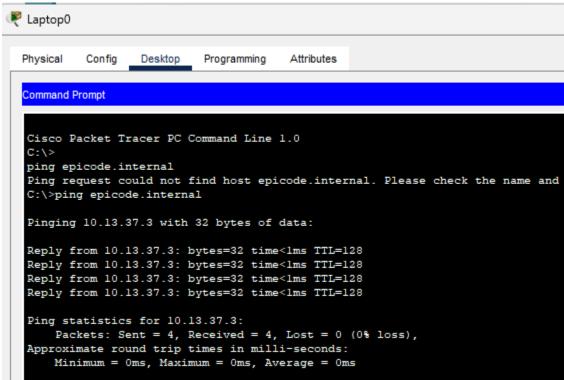
## Client 0





#### Accesso a **epicode.internal** via browser dal **Laptop0** e relativo ping







# **Ipconfig Laptop0**

```
C:\>ipconfig

FastEthernet0 Connection:(default port)

Connection-specific DNS Suffix.:
Link-local IPv6 Address....: FE80::290:21FF:FE25:9154
IPv6 Address....::
IPv4 Address....:
IPv4 Address....: 10.13.37.4
Subnet Mask....: 255.255.255.0
Default Gateway...::
10.13.37.1
```

## **Ipconfig Laptop1**

```
Laptop1
 Physical
         Config
                        Programming
                                  Attributes
                Desktop
 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::201:96FF:FE3E:6458
    IPv6 Address....: ::
    IPv4 Address..... 10.13.37.5
    Subnet Mask..... 255.255.255.0
    Default Gateway....::::
                                  10.13.37.1
```



### Esercizio facoltativo 1

Dalla screen è possibile vedere il download in corso di un file sul laptop1 dall'FTP sulla macchina con ip 10.13.37.3 (Server HTTP)

```
C:\>ftp 10.13.37.3

Trying to connect...10.13.37.3

Connected to 10.13.37.3

220- Welcome to PT Ftp server

Username:cisco

331- Username ok, need password

Password:

230- Logged in

(passive mode On)

ftp>dir
```

```
Laptop1
 Physical Config Desktop Programming Attributes
 331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>dir
  Listing /ftp directory from 10.13.37.3:
      : asa842-k8.bin
                                                                       5571584
       : asa923-k8.bin
                                                                       30468096
      : c1841-advipservicesk9-mz.124-15.Tl.bin
                                                                       33591768
      : c1841-ipbase-mz.123-14.T7.bin
                                                                       13832032
       : c1841-ipbasek9-mz.124-12.bin
                                                                       16599160
       : c1900-universalk9-mz.SPA.155-3.M4a.bin
                                                                      33591768
      : c2600-advipservicesk9-mz.124-15.T1.bin
                                                                       33591768
       : c2600-i-mz.122-28.bin
       : c2600-ipbasek9-mz.124-8.bin
                                                                       13169700
       : c2800nm-advipservicesk9-mz.124-15.T1.bin
                                                                       50938004
       : c2800nm-advipservicesk9-mz.151-4.M4.bin
                                                                       33591768
       : c2800nm-ipbase-mz.123-14.T7.bin
       : c2800nm-ipbasek9-mz.124-8.bin
                                                                       15522644
       : c2900-universalk9-mz.SPA.155-3.M4a.bin
                                                                       33591768
       : c2950-i6q412-mz.121-22.EA4.bin
       : c2950-i6q412-mz.121-22.EA8.bin
                                                                       3117390
      : c2960-lanbase-mz.122-25.FX.bin
: c2960-lanbase-mz.122-25.SEE1.bin
                                                                       4414921
                                                                       4670455
       : c2960-lanbasek9-mz.150-2.SE4.bin
                                                                       4670455
      : c3560-advipservicesk9-mz.122-37.SE1.bin
                                                                       8662192
      : c3560-advipservicesk9-mz.122-46.SE.bin
: c800-universalk9-mz.SPA.152-4.M4.bin
                                                                       10713279
                                                                       33591768
      : c800-universalk9-mz.SPA.154-3.M6a.bin
: cat3k_caa-universalk9.16.03.02.SPA.bin
: cgr1000-universalk9-mz.SPA.154-2.CG
                                                                       83029236
                                                                      505532849
       : cgr1000-universalk9-mz.SPA.156-3.CG
                                                                       184530138
       : ir800-universalk9-bundle.SPA.156-3.M.bin
: ir800-universalk9-mz.SPA.155-3.M
                                                                      160968869
                                                                      61750062
       : ir800-universalk9-mz.SPA.156-3.M
                                                                       63753767
      : ir800_yocto-1.7.2.tar
: ir800_yocto-1.7.2_python-2.7.3.tar
: pt1000-i-mz.122-28.bin
                                                                      2877440
                                                                       6912000
      : pt3000-i6q412-mz.121-22.EA4.bin
                                                                       3117390
  ftp>get asa842-k8.bin
  Reading file asa842-k8.bin from 10.13.37.3:
  File transfer in progress..
```

### Esercizio facoltativo 2

Il **livello fisico** trasmette i le informazioni video tramite il mezzo fisico (cavo, wi-fi, switch) dalle telecamere al server per la memorizzazione dei video

Il **livello data** identifica telecamere, server e switch grazie agli indirizzi mac

Il **livello rete** inoltra i pacchetti tramite il protocollo IP permettendo l'indirizzamento univoco di ogni dispositivo

Il **livello di trasporto** utilizza il protocollo TCP o UDP per trasmettere i video al server

Il **livello sessione** gestisce stabilisce, mantiene e termina le sessioni tra le applicazioni

Il **livello presentazione** comprime, codifica e si occupa della crittografia dei video.

Il **livello applicazione** fornisce l'interfaccia tra l'applicazione e la rete.