

## ESERCIZIO W3D1 - CONFIGURAZIONE DEI SERVER DHCP, DNS, HTTP

Sotto si vede la configurazione degli indirizzi IP dei due laptop con DHCP

```
C:\>ipconfig

FastEthernet0 Connection:(default port)

    Connection-specific DNS Suffix...:
    Link-local IPv6 Address . . . . .: FE80::2E0:A3FF:FE33:7619
    IPv6 Address . . . . .: ::
    IPv4 Address . . . . .: 10.13.37.252
    Subnet Mask . . . . .: 255.255.255.0
    Default Gateway . . . . .: ::
                                   10.13.37.1

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:\>
```

```
C:\>ipconfig

FastEthernet0 Connection:(default port)

    Connection-specific DNS Suffix...:
    Link-local IPv6 Address . . . . .: FE80::2E0:A3FF:FE18:837A
    IPv6 Address . . . . .: ::
    IPv4 Address . . . . .: 10.13.37.253
    Subnet Mask . . . . .: 255.255.255.0
    Default Gateway . . . . .: ::
                                   10.13.37.1

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
```

L'immagine sotto fa vedere come ho configurato il server DHCP (configurato anche il suo IP statico con 10.13.37.1 SM 255.255.255.0)

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: 10.13.37.1

DNS Server: 10.13.37.2

Start IP Address: 10 13 37 252

Subnet Mask: 255 255 255 0

Maximum Number of Users: 3

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	10.13.37.1	10.13.37.2	10.13.37...	255.255....	3	0.0.0.0	0.0.0.0

configurazione del server DNS (IP: 10.13.37.2 SM: 255.255.255.0)

Server DNS

Physical Config **Services** Desktop Programming Attributes

**SERVICES**

- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS**
- SYSLOG
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**DNS**

DNS Service: ☒ On ☐ Off

Resource Records

Name: epicode.internal Type: A Record

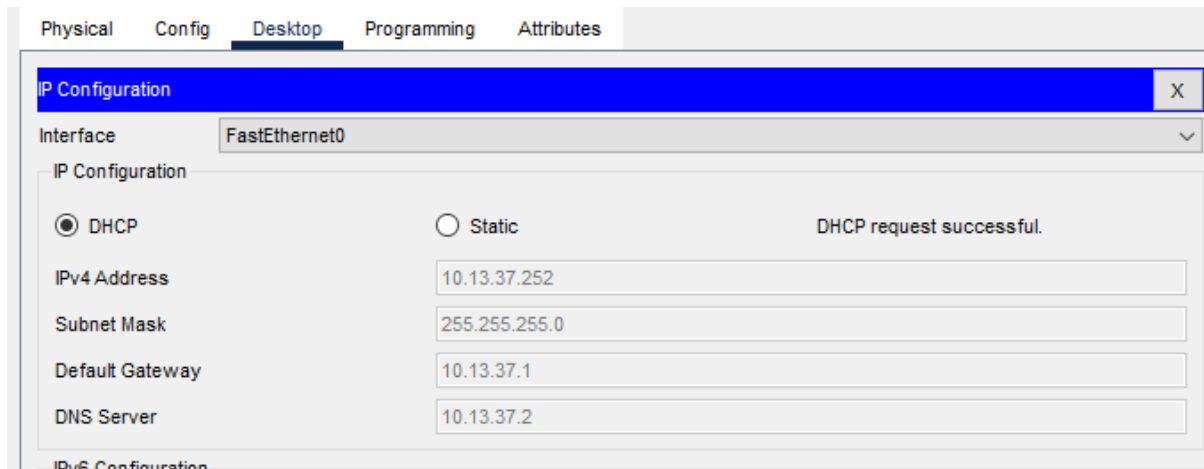
Address: 10.13.37.3

Add Save Remove

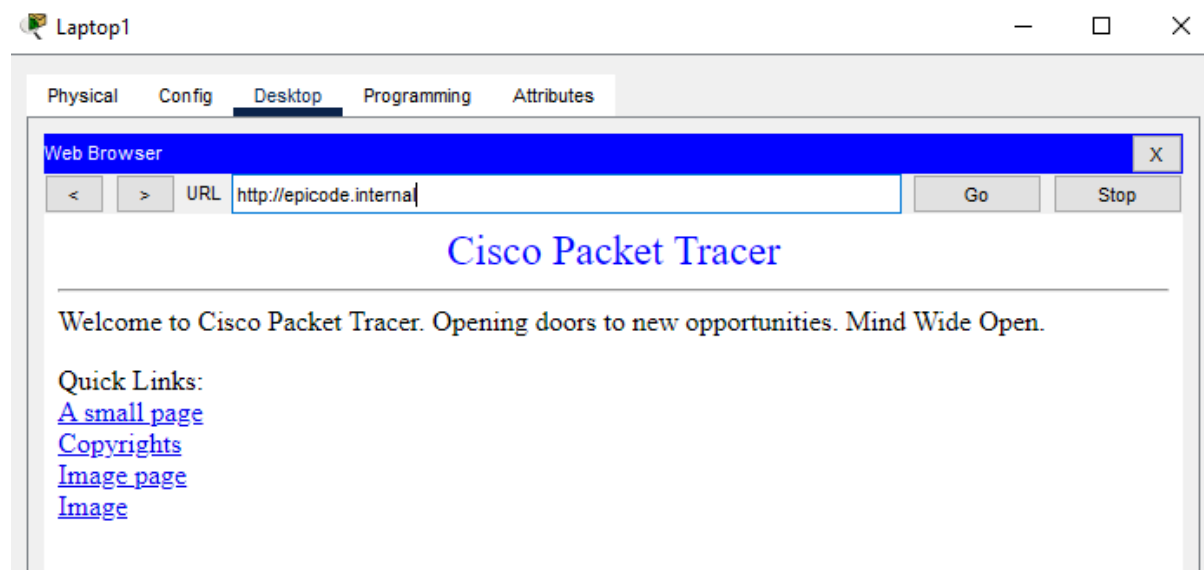
No.	Name	Type	Detail
0	epicode.internal	A Record	10.13.37.3

Il server HTTP ha IP 10.13.37.3 e subnet mask 255.255.255.0

Esempio del DHCP su un laptop:

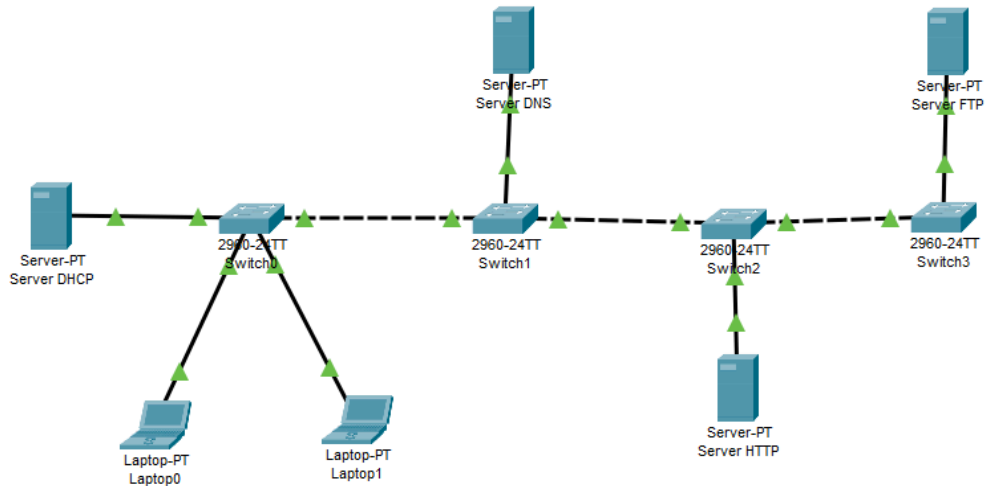


Ecco come DNS resolve epicode.internal, facendo una prova su un laptop andando su web browser e cercare epicode.internal

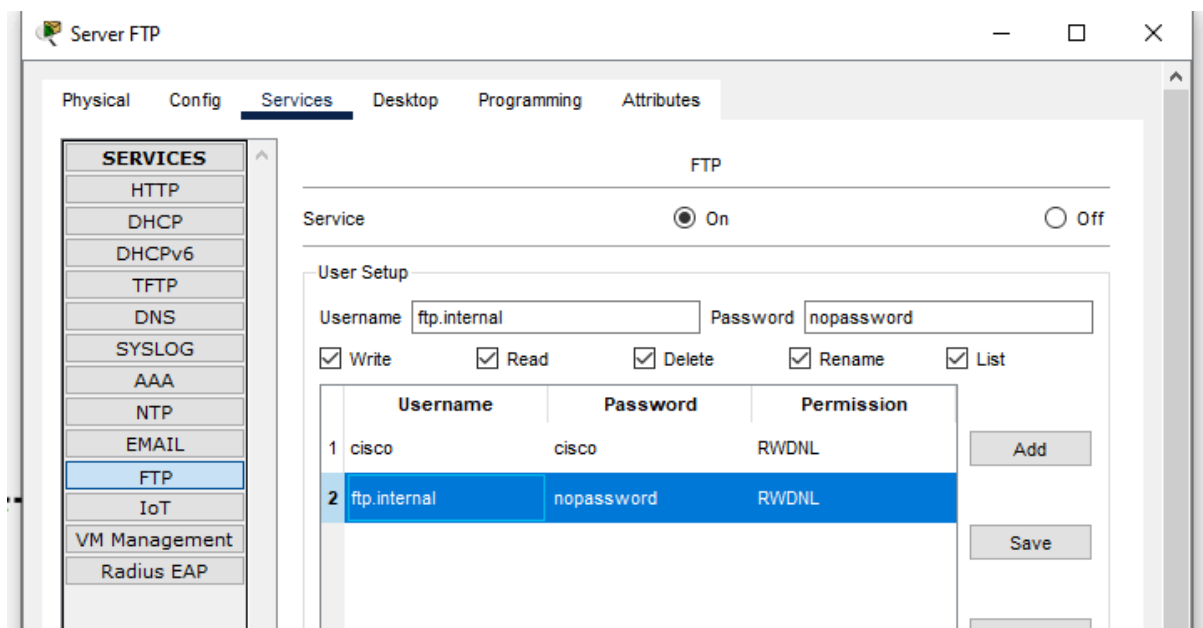


## ESERCIZIO FACOLTATIVO EXTRA - SERVER FTP

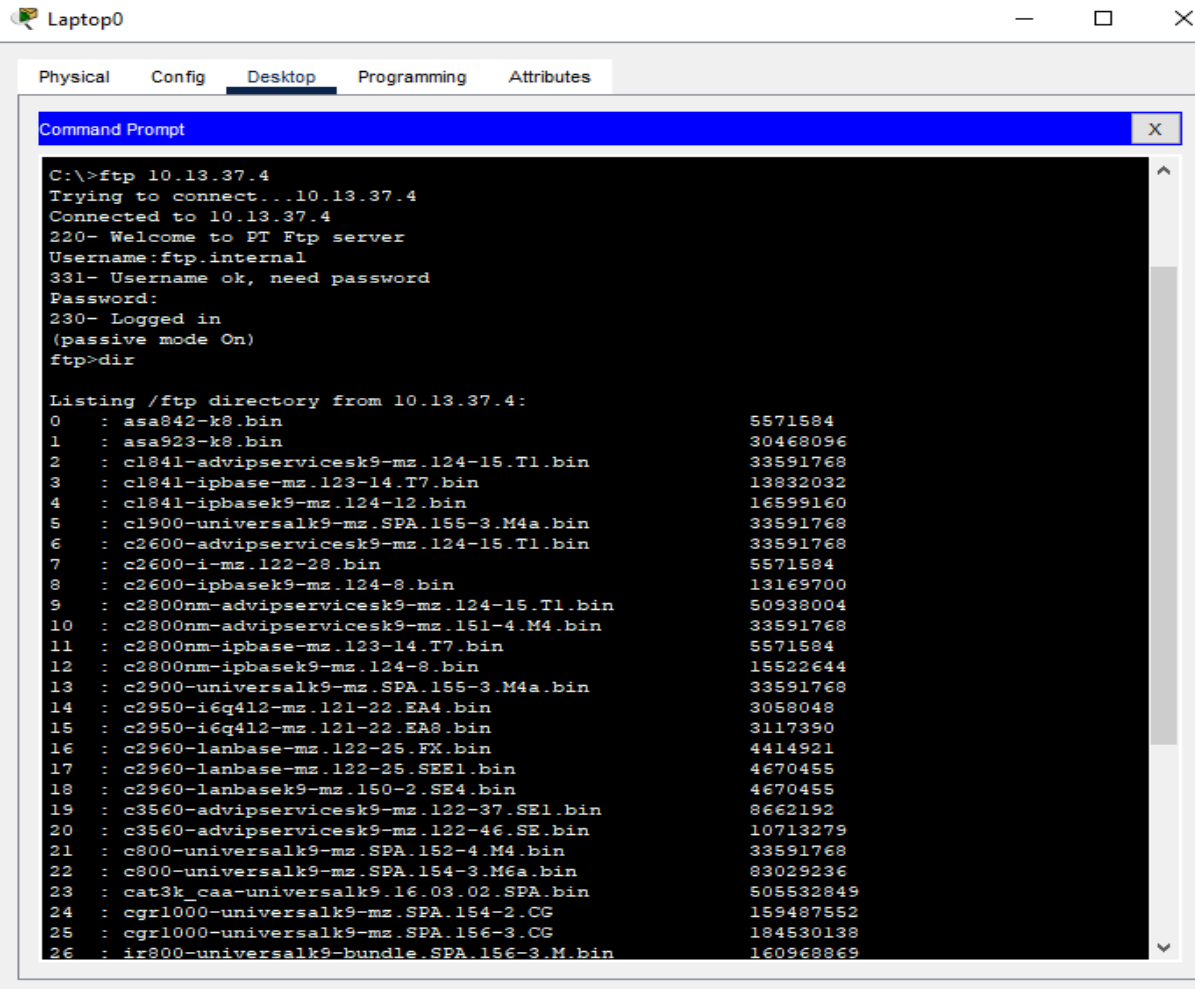
intanto questa è la configurazione su Cisco della struttura:



Configurazione del Server FTP con IP 10.13.37.4 e SM 255.255.255.0



Ecco come ho scaricato un file su un laptop da ftp.internal:  
mi sono comunicato con il server FTP con il comando ftp e l'IP del server, mi chiede l'username (ftp.internal) e password (nopassword) (configurati nell'immagine precedente), dopodiché con il comando dir visualizzavo l'elenco dei file nel server e con il comando get ho scaricato un file (asa842-k8.bin).



```
C:\>ftp 10.13.37.4
Trying to connect...10.13.37.4
Connected to 10.13.37.4
220- Welcome to FT Ftp server
Username:ftp.internal
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>dir

Listing /ftp directory from 10.13.37.4:
0 : asa842-k8.bin 5571584
1 : asa923-k8.bin 30468096
2 : cl841-advipservicesk9-mz.124-15.T1.bin 33591768
3 : cl841-ipbase-mz.123-14.T7.bin 13832032
4 : cl841-ipbasek9-mz.124-12.bin 16599160
5 : cl900-universalk9-mz.SPA.155-3.M4a.bin 33591768
6 : c2600-advipservicesk9-mz.124-15.T1.bin 33591768
7 : c2600-i-mz.122-28.bin 5571584
8 : c2600-ipbasek9-mz.124-8.bin 13169700
9 : c2800nm-advipservicesk9-mz.124-15.T1.bin 50938004
10 : c2800nm-advipservicesk9-mz.151-4.M4.bin 33591768
11 : c2800nm-ipbase-mz.123-14.T7.bin 5571584
12 : c2800nm-ipbasek9-mz.124-8.bin 15522644
13 : c2900-universalk9-mz.SPA.155-3.M4a.bin 33591768
14 : c2950-i6q412-mz.121-22.EA4.bin 3058048
15 : c2950-i6q412-mz.121-22.EA8.bin 3117390
16 : c2960-lanbase-mz.122-25.FX.bin 4414921
17 : c2960-lanbase-mz.122-25.SEE1.bin 4670455
18 : c2960-lanbasek9-mz.150-2.SE4.bin 4670455
19 : c3560-advipservicesk9-mz.122-37.SE1.bin 8662192
20 : c3560-advipservicesk9-mz.122-46.SE.bin 10713279
21 : c800-universalk9-mz.SPA.152-4.M4.bin 33591768
22 : c800-universalk9-mz.SPA.154-3.M6a.bin 83029236
23 : cat3k_caa-universalk9.16.03.02.SPA.bin 505532849
24 : cg91000-universalk9-mz.SPA.154-2.CG 159487552
25 : cg91000-universalk9-mz.SPA.156-3.CG 184530138
26 : ir800-universalk9-bundle.SPA.156-3.M.bin 160968869
```

```
27 : ir800-universalk9-mz.SPA.155-3.M
28 : ir800-universalk9-mz.SPA.156-3.M
29 : ir800_yocto-1.7.2.tar
30 : ir800_yocto-1.7.2_python-2.7.3.tar
31 : pt1000-i-mz.122-28.bin
32 : pt3000-i6q412-mz.121-22.EA4.bin
ftp>get asa842-k8.bin
|
Reading file asa842-k8.bin from 10.13.37.4:
File transfer in progress...

[Transfer complete - 5571584 bytes]

5571584 bytes copied in 12.88 secs (99116 bytes/sec)
```