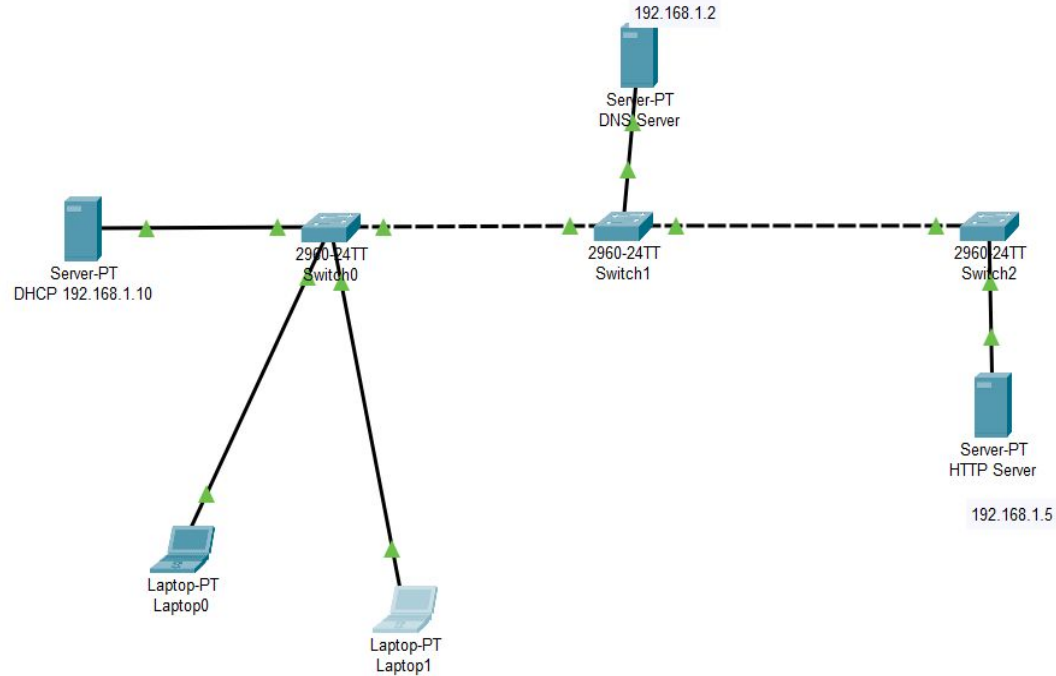


W2D4 - Pratica

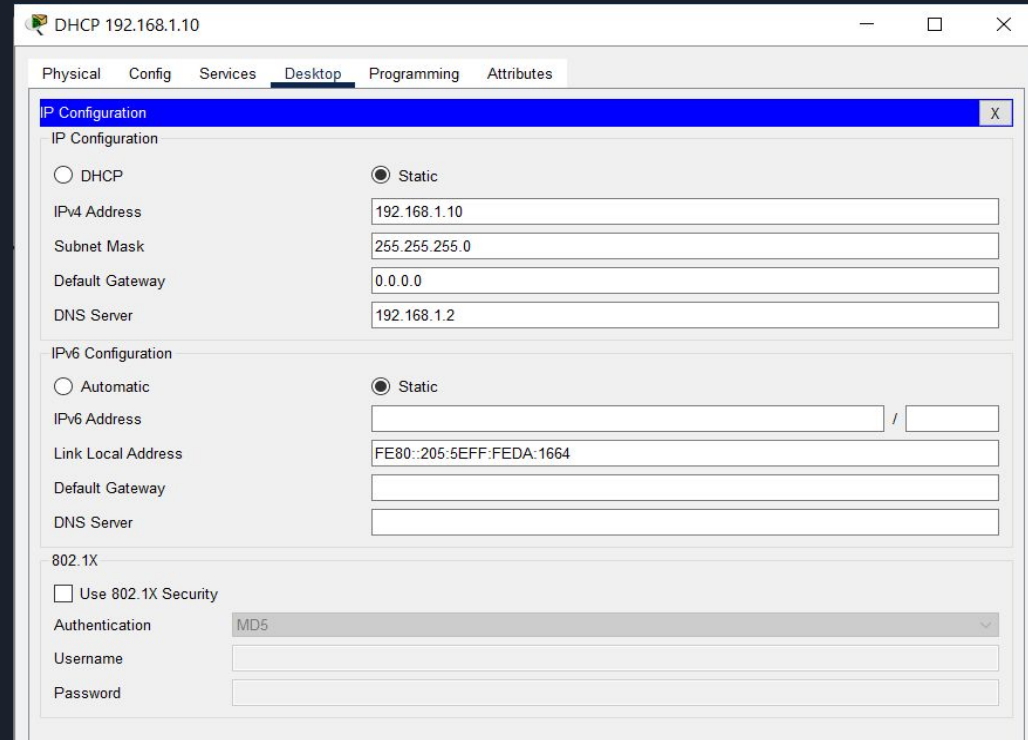
Cisco Packet Tracer

Simulazione servizi DNS, HTTP, DHCP

Configurazione architettura laboratorio



Configurazione DHCP



The screenshot shows a configuration window titled "DHCP 192.168.1.10". It has a tabbed interface with "Physical", "Config", "Services", "Desktop", "Programming", and "Attributes". The "Config" tab is active, and within it, the "IP Configuration" sub-tab is selected. The "IP Configuration" section has a blue header bar with a close button. It contains two main sections: "IP Configuration" and "IPv6 Configuration".

IP Configuration

- ☐ DHCP
- ☒ Static
- IPv4 Address: 192.168.1.10
- Subnet Mask: 255.255.255.0
- Default Gateway: 0.0.0.0
- DNS Server: 192.168.1.2

IPv6 Configuration

- ☐ Automatic
- ☒ Static
- IPv6 Address: [empty] / [empty]
- Link Local Address: FE80::205:5EFF:FEDA:1664
- Default Gateway: [empty]
- DNS Server: [empty]

802.1X

- ☐ Use 802.1X Security
- Authentication: MD5
- Username: [empty]
- Password: [empty]

Configurazione client con DHCP

Laptop0

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☒ DHCP ☐ Static

IPv4 Address 192.168.1.3

Subnet Mask 255.255.255.0

Default Gateway 192.168.1.254

DNS Server 192.168.1.2

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::204:9AFF:FE15:AD01

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

Laptop1

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☒ DHCP ☐ Static

IPv4 Address 192.168.1.1

Subnet Mask 255.255.255.0

Default Gateway 192.168.1.254

DNS Server 192.168.1.2

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::201:97FF:FEB1:B053

Default Gateway

DNS Server

802.1X

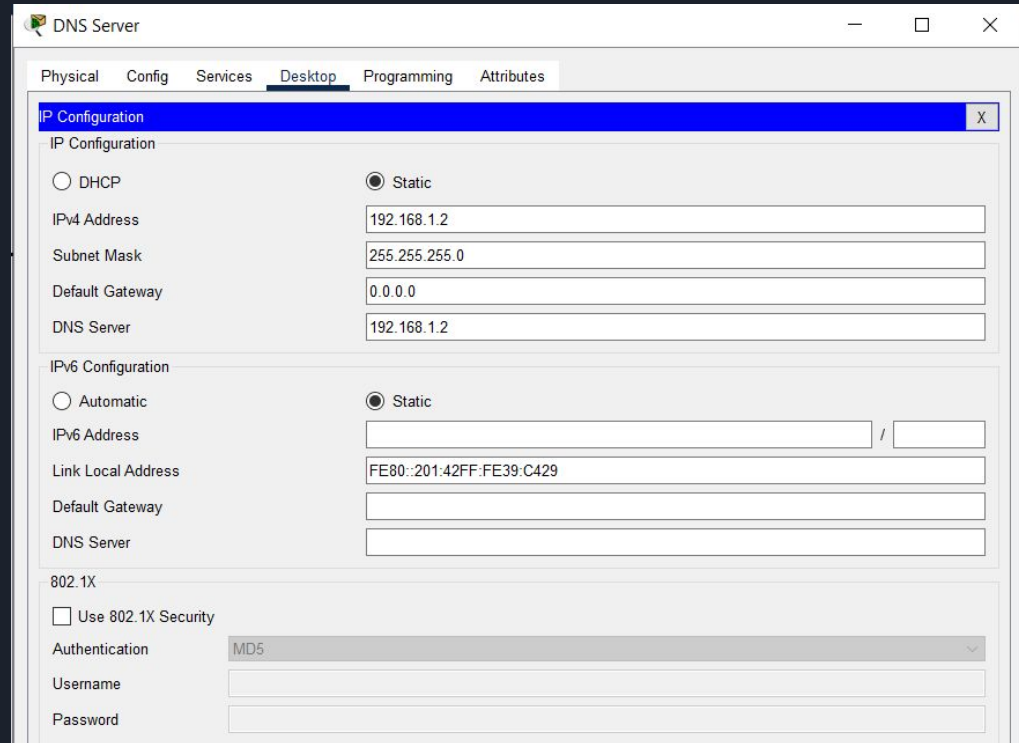
☐ Use 802.1X Security

Authentication MD5

Username

Password

Configurazione servizio DNS



The screenshot shows the 'DNS Server' configuration window with the 'Desktop' tab selected. The 'IP Configuration' section is active, showing settings for both IPv4 and IPv6. The IPv4 configuration is set to 'Static' with an address of 192.168.1.2, subnet mask of 255.255.255.0, default gateway of 0.0.0.0, and DNS server of 192.168.1.2. The IPv6 configuration is also set to 'Static' with a link local address of FE80::201:42FF:FE39:C429. The '802.1X' section is expanded, showing 'Use 802.1X Security' is unchecked, 'Authentication' is set to 'MD5', and fields for 'Username' and 'Password' are present.

DNS Server

Physical Config Services Desktop Programming Attributes

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.1.2

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 192.168.1.2

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::201:42FF:FE39:C429

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

Configurazione HTTP

The screenshot shows the 'HTTP Server' configuration window with the 'Services' tab selected. On the left, a 'SERVICES' sidebar lists various services, with 'HTTP' highlighted. The main area shows 'HTTP' and 'HTTPS' status controls, both set to 'On'. Below this is a 'File Manager' table listing files for upload.

File Name	Edit	Delete
1 copyrights.html	(edit)	(delete)
2 cscoptlogo177x111.jpg		(delete)
3 helloworld.html	(edit)	(delete)
4 image.html	(edit)	(delete)
5 index.html	(edit)	(delete)

The screenshot shows the 'HTTP Server' configuration window with the 'Desktop' tab selected. The 'IP Configuration' section is active, showing settings for both IPv4 and IPv6. IPv4 is configured with a static IP of 192.168.1.5, subnet mask 255.255.255.0, default gateway 0.0.0.0, and DNS server 192.168.1.2. IPv6 is also configured with a static IP, link local address FE80::2D0:FFFF:FE10:6737, and no default gateway or DNS server. The '802.1X' section is at the bottom, with 'Use 802.1X Security' unchecked, authentication set to 'MD5', and empty fields for username and password.

IP Configuration

☐ DHCP ☒ Static

IPv4 Address: 192.168.1.5
Subnet Mask: 255.255.255.0
Default Gateway: 0.0.0.0
DNS Server: 192.168.1.2

IPv6 Configuration

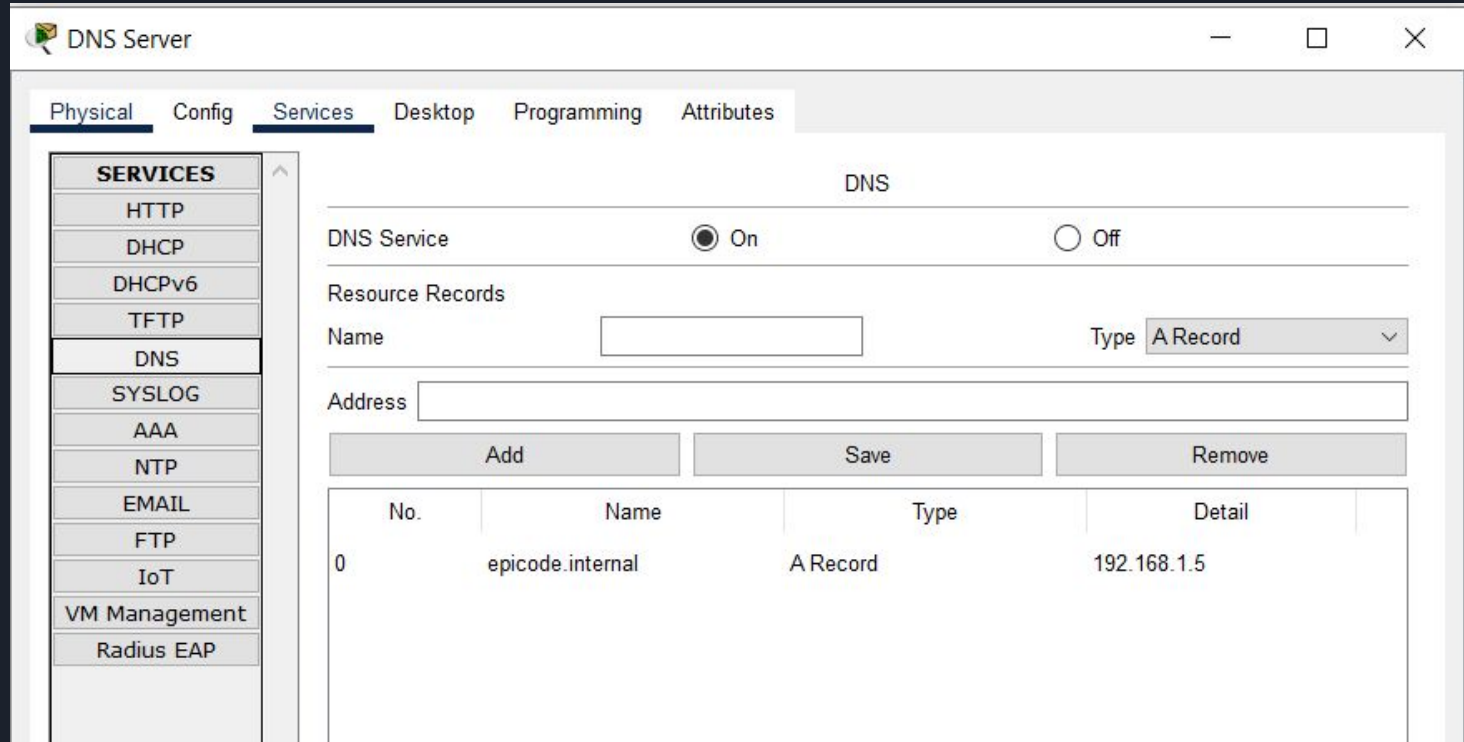
☐ Automatic ☒ Static

IPv6 Address: /
Link Local Address: FE80::2D0:FFFF:FE10:6737
Default Gateway:
DNS Server:

802.1X

☐ Use 802.1X Security
Authentication: MD5
Username:
Password:

Configurazione record A su DNS - epicode.internal su ip server HTTP



The screenshot shows the 'DNS Server' configuration window. The 'Services' tab is selected, and the 'DNS' service is turned 'On'. Under 'Resource Records', an A record is configured with the name 'epicode.internal' and the address '192.168.1.5'.

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

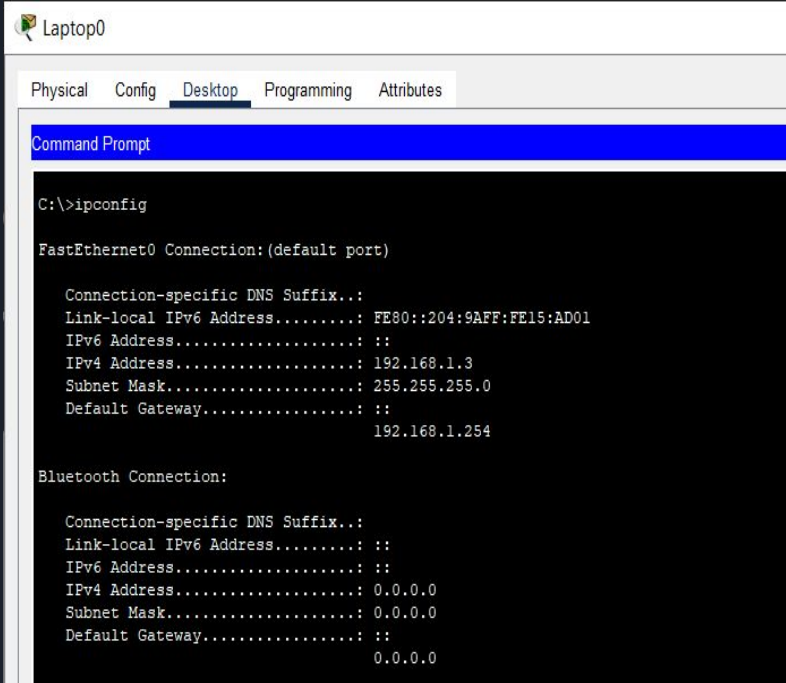
Name Type **A Record** ▼

Address

Add **Save** **Remove**

No.	Name	Type	Detail
0	epicode.internal	A Record	192.168.1.5

Ipconfig dai client



Laptop0

Physical Config Desktop Programming Attributes

Command Prompt

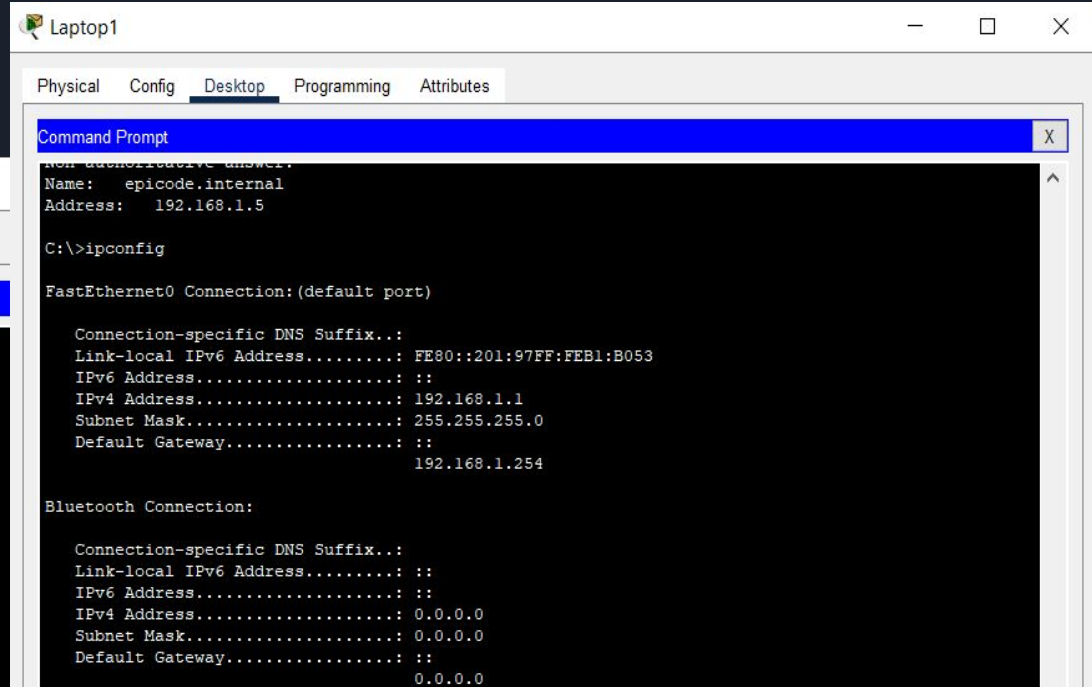
```
C:\>ipconfig

FastEthernet0 Connection:(default port)

    Connection-specific DNS Suffix...:
    Link-local IPv6 Address . . . . .: FE80::204:9AFF:FE15:AD01
    IPv6 Address . . . . .: ::
    IPv4 Address . . . . .: 192.168.1.3
    Subnet Mask . . . . .: 255.255.255.0
    Default Gateway . . . . .: ::
                                192.168.1.254

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
```



Laptop1

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>ipconfig

FastEthernet0 Connection:(default port)

    Connection-specific DNS Suffix...:
    Link-local IPv6 Address . . . . .: FE80::201:97FF:FEB1:B053
    IPv6 Address . . . . .: ::
    IPv4 Address . . . . .: 192.168.1.1
    Subnet Mask . . . . .: 255.255.255.0
    Default Gateway . . . . .: ::
                                192.168.1.254

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
```

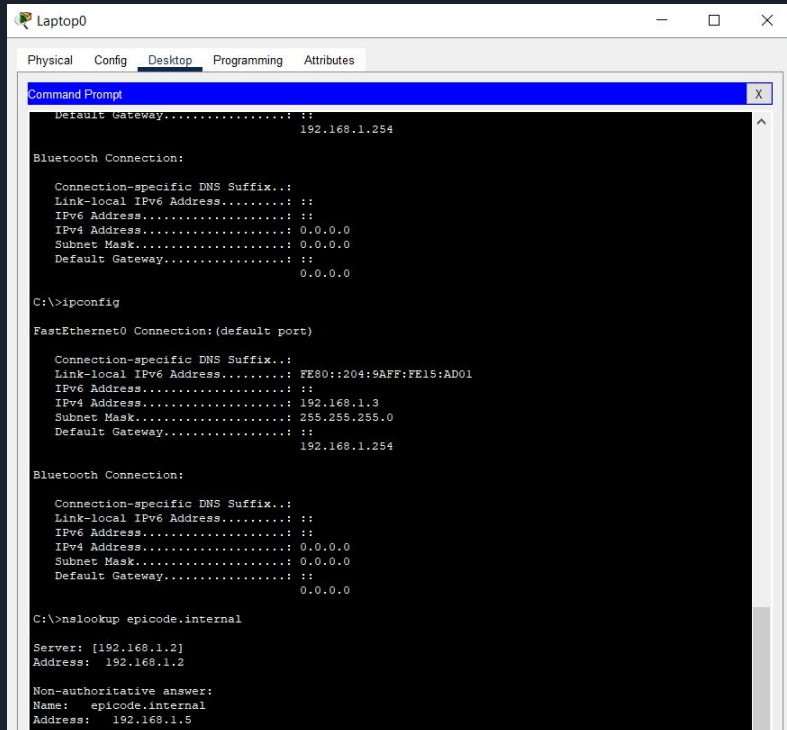

Test risoluzione epicode.internal da client - web



Test risoluzione epicode.internal da client - web



Test risoluzione epicode.internal da client - prompt



```
Laptop0
Physical Config Desktop Programming Attributes
Command Prompt
Default Gateway.....: 192.168.1.254

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:\>ipconfig

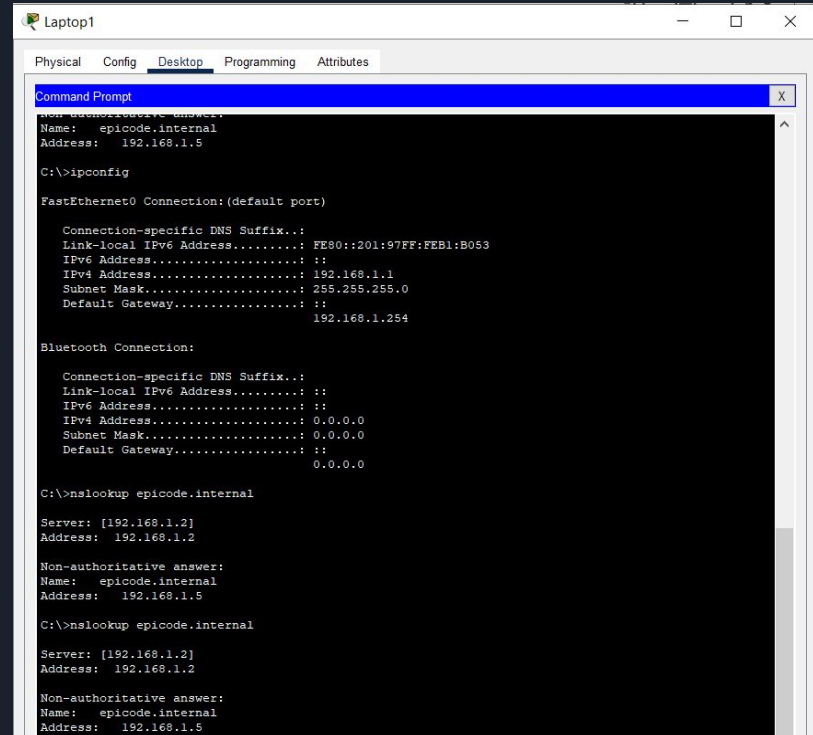
FastEthernet0 Connection:(default port)

Connection-specific DNS Suffix.:
Link-local IPv6 Address.....: FE80::204:9AFF:FE15:AD01
IPv6 Address.....:
IPv4 Address.....: 192.168.1.3
Subnet Mask.....: 255.255.255.0
Default Gateway.....:
192.168.1.254

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:\>nslookup epicode.internal
Server: [192.168.1.2]
Address: 192.168.1.2

Non-authoritative answer:
Name: epicode.internal
Address: 192.168.1.5
```



```
Laptop1
Physical Config Desktop Programming Attributes
Command Prompt
Name: epicode.internal
Address: 192.168.1.5

C:\>ipconfig

FastEthernet0 Connection:(default port)

Connection-specific DNS Suffix.:
Link-local IPv6 Address.....: FE80::201:97FF:FEB1:B053
IPv6 Address.....:
IPv4 Address.....: 192.168.1.1
Subnet Mask.....: 255.255.255.0
Default Gateway.....:
192.168.1.254

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:\>nslookup epicode.internal
Server: [192.168.1.2]
Address: 192.168.1.2

Non-authoritative answer:
Name: epicode.internal
Address: 192.168.1.5

C:\>nslookup epicode.internal
Server: [192.168.1.2]
Address: 192.168.1.2

Non-authoritative answer:
Name: epicode.internal
Address: 192.168.1.5
```