

# IOT INTERNET DAS COISAS

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Prof. Anderson Vanin

AULA 08 – **SERVIDOR WEB E DNS**

# Componentes

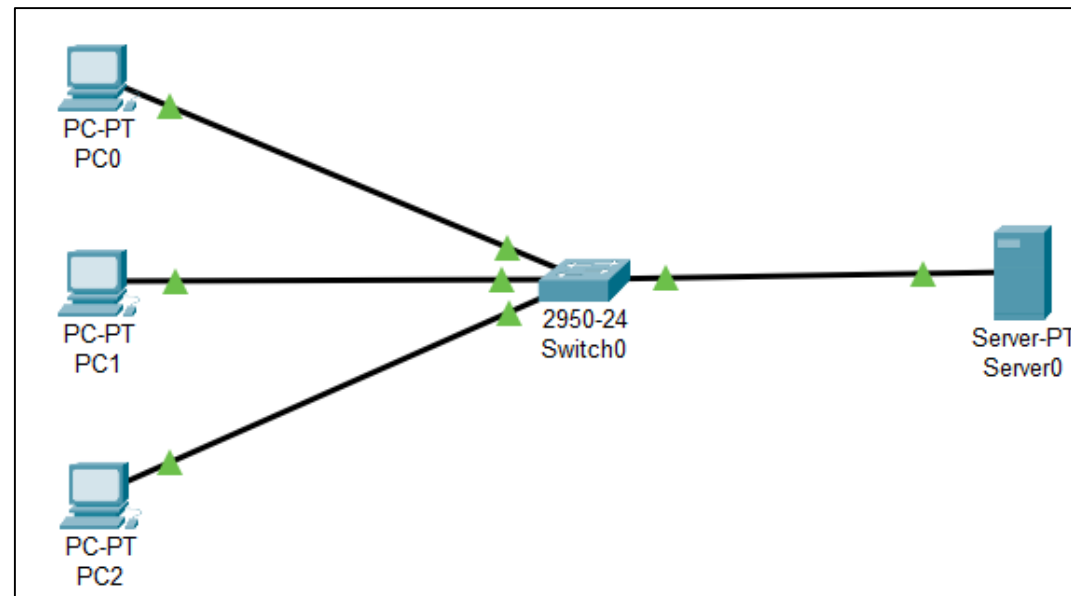
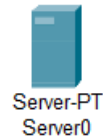
- 1 switchs 2950/24



- 3 computadores



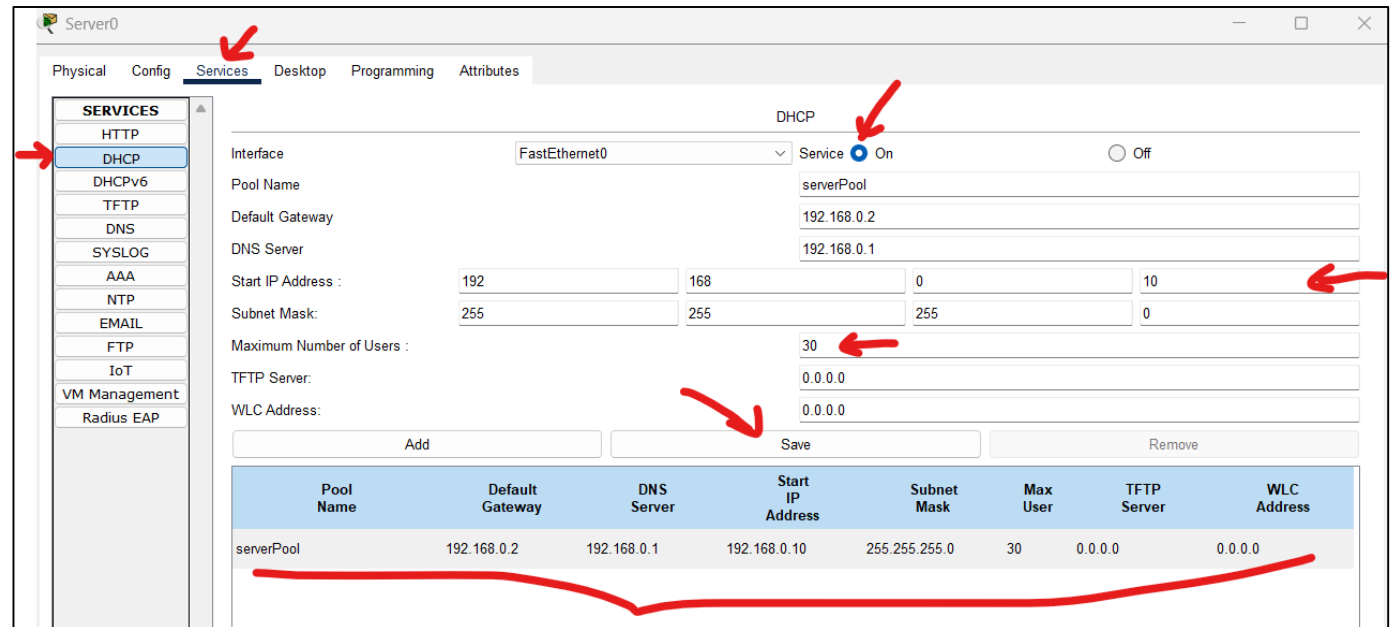
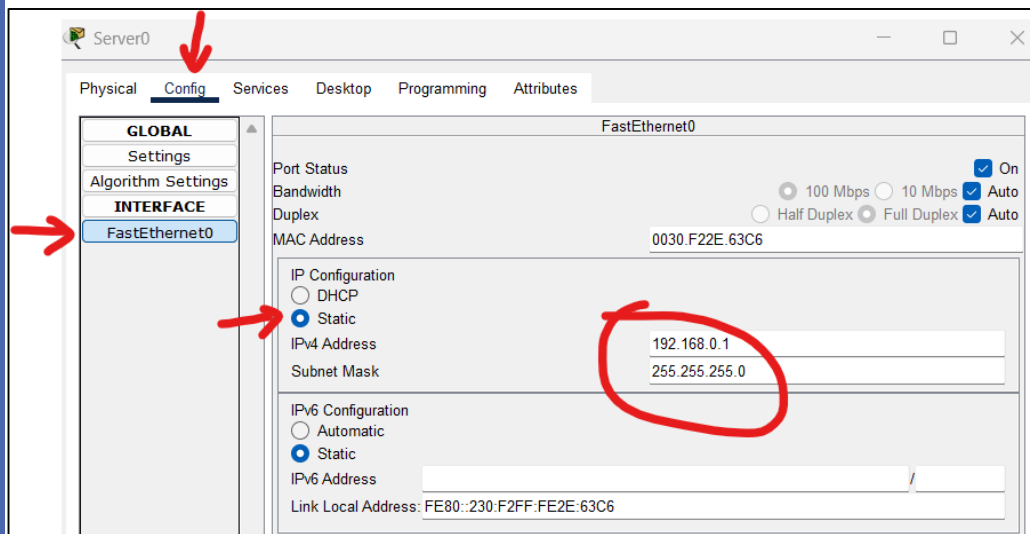
- 1 Servidor



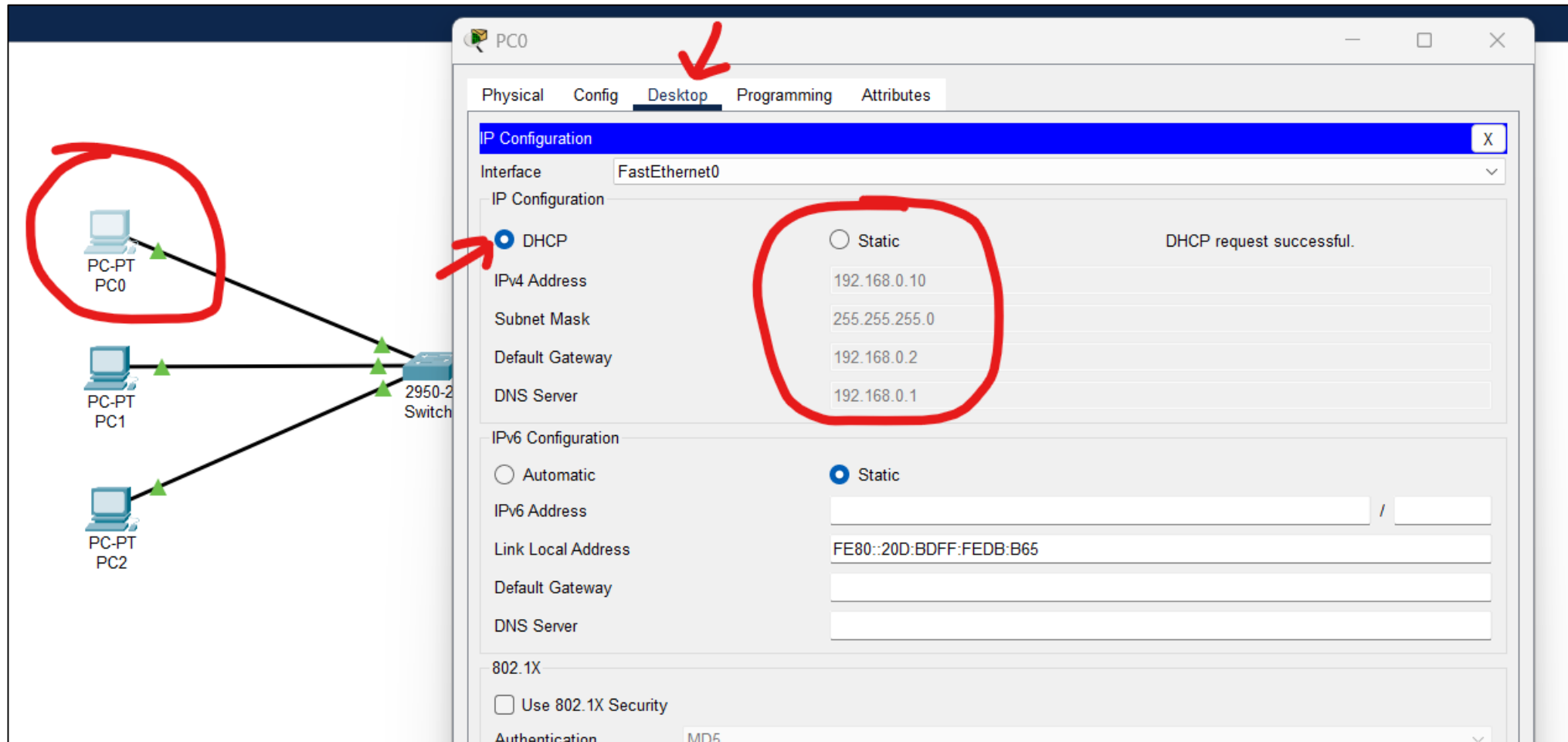
# 1) Configurar serviço de DHCP no Servidor

- Endereço de rede: **192.168.0.0**
- IP do Servidor: **192.168.0.1**
- GATEWAY: **192.168.0.2**
- DNS: **192.168.0.1**
- IP INICIAL DO DHCP: **192.168.0.10**
- MAXIMO DE USUÁRIOS SERVIDOS POR DHCP: **30**

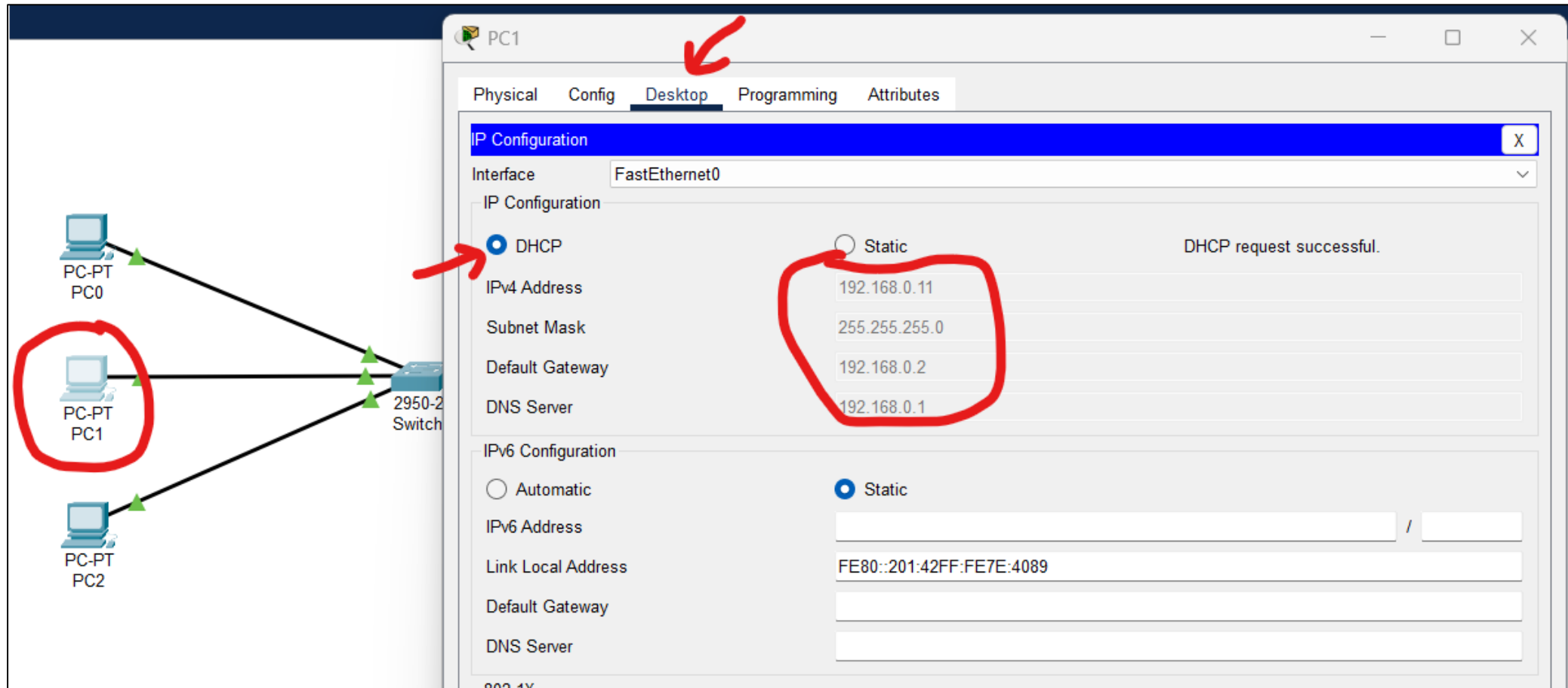
# 1) Configurar serviço de DHCP no Servidor



# Configurar DHCP nas máquinas da rede



# Configurar DHCP nas máquinas da rede



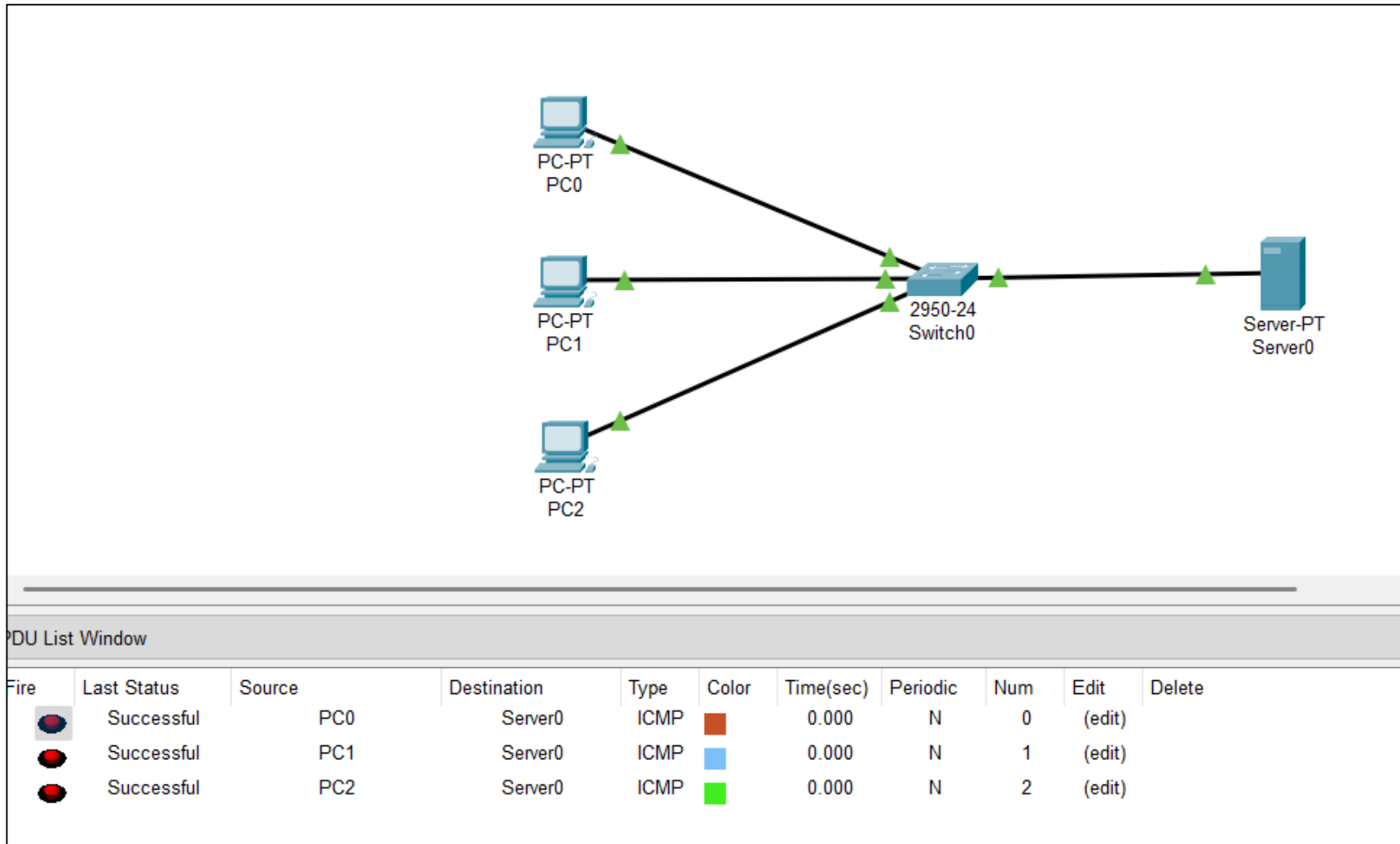
# Configurar DHCP nas máquinas da rede

The image displays a network diagram on the left and a configuration window for PC2 on the right. The network diagram shows three PCs (PC-PT PC0, PC1, and PC2) connected to a central 2950-2 Switch. PC2 is circled in red. The configuration window for PC2 has the 'Desktop' tab selected. The 'IP Configuration' section is expanded, showing the 'FastEthernet0' interface. The 'DHCP' radio button is selected, and the 'Static' radio button is also visible. The DHCP configuration fields are circled in red, showing the following values:

- IPv4 Address: 192.168.0.12
- Subnet Mask: 255.255.255.0
- Default Gateway: 192.168.0.2
- DNS Server: 192.168.0.1

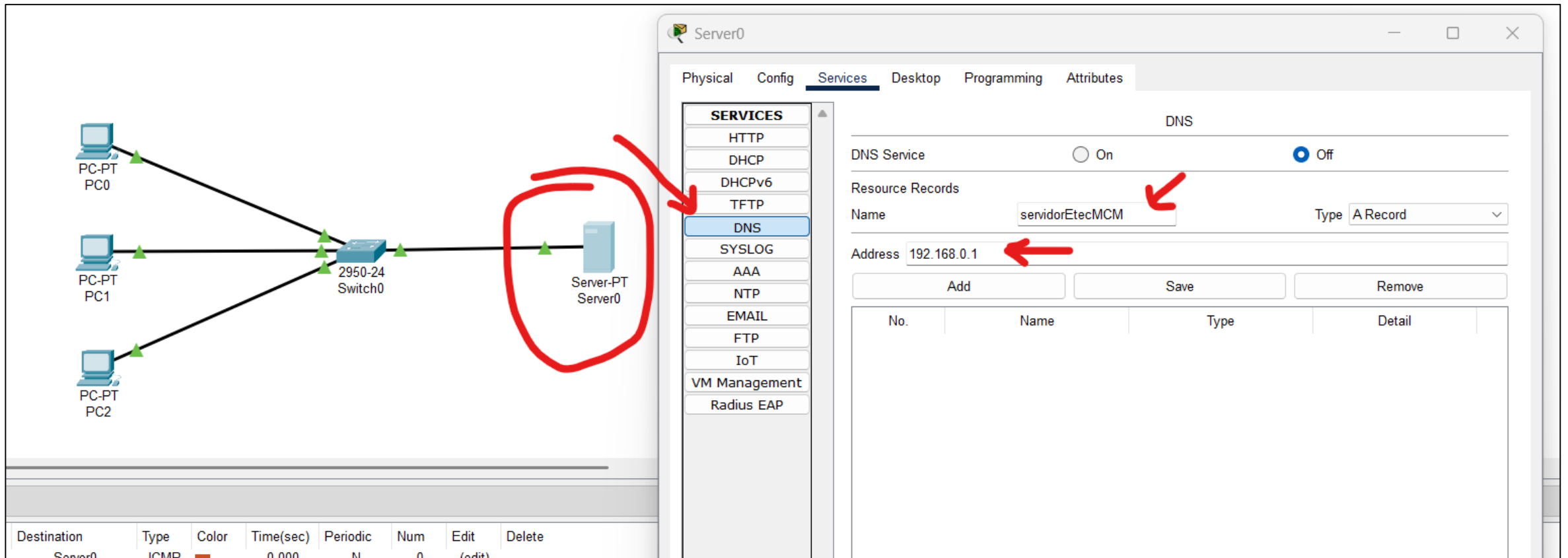
The IPv6 Configuration section shows the 'Static' radio button selected. The IPv6 Address field is empty, and the Link Local Address field contains the value FE80::2D0:BAFF:FE07:7595. The Default Gateway and DNS Server fields are also empty. A message on the right side of the window states 'DHCP request successful.'

# Faça o teste utilizando o comando PING





# Configurando o serviço DNS no Servidor



The image displays a network diagram on the left and a configuration window for 'Server0' on the right. The network diagram shows three PCs (PC-PT PC0, PC-PT PC1, PC-PT PC2) connected to a central switch (2950-24 Switch0), which is then connected to a server (Server-PT Server0). The server is circled in red. The configuration window for 'Server0' has the 'Services' tab selected. In the 'SERVICES' list, 'DNS' is highlighted. To the right, the 'DNS' configuration section shows the 'DNS Service' is currently 'Off'. Below this, the 'Resource Records' section has 'Name' set to 'servidorEtecMCM' and 'Type' set to 'A Record'. The 'Address' field is set to '192.168.0.1'. Red arrows point from the red circle around the server in the diagram to the 'DNS' service in the list, and from the 'servidorEtecMCM' name and '192.168.0.1' address to their respective fields in the configuration window. At the bottom of the window, there is a table with columns: Destination, Type, Color, Time(sec), Periodic, Num, Edit, and Delete.

Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
Server0	ICMP		0.000	N	0	(edit)	

# Configurando o serviço DNS no Servidor

Server0

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** ▼

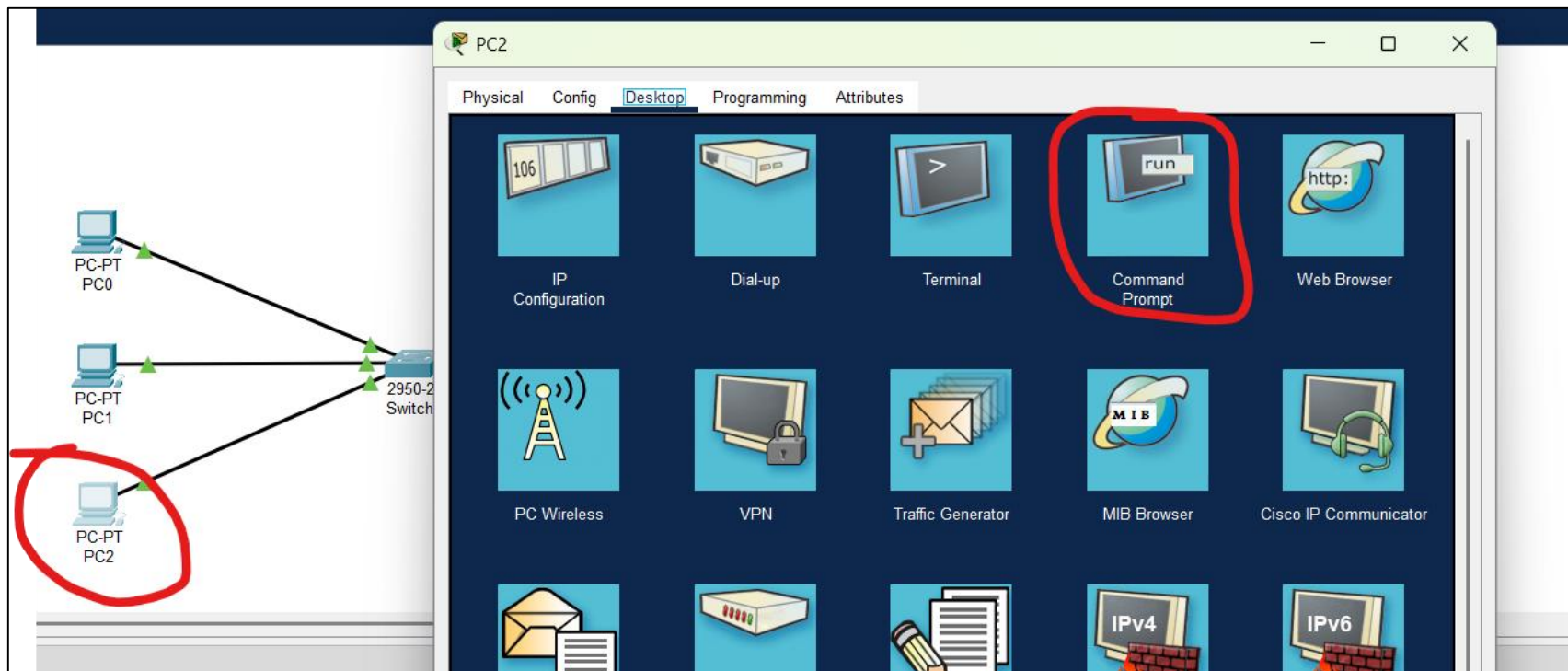
Address

**Add** **Save** **Remove**

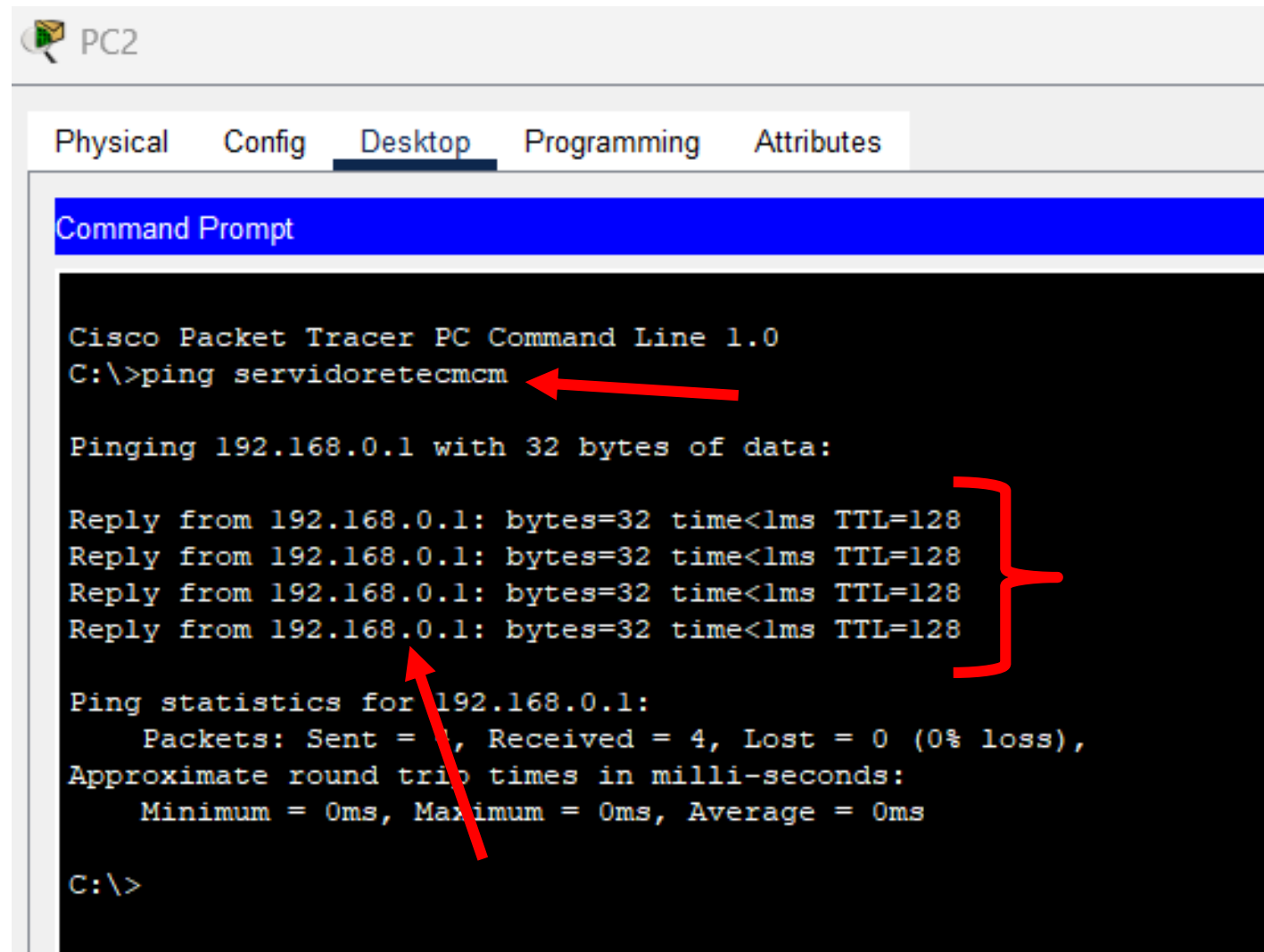
No.	Name	Type	Detail
0	servidoretecmm	A Record	192.168.0.1

# Testando o serviço de DNS com PING

- Em qualquer uma das estações, abra um prompt de utilizando o comando PING faça um teste pelo nome do servidor dns configurado na etapa anterior:  
**servidorEtecMCM**



# Testando o serviço de DNS com PING



The screenshot shows a Cisco Packet Tracer PC Command Line interface for a device named PC2. The 'Desktop' tab is selected. The Command Prompt window displays the following text:

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping servidoretecmm

Pinging 192.168.0.1 with 32 bytes of data:

Reply from 192.168.0.1: bytes=32 time<1ms TTL=128
Reply from 192.168.0.1: bytes=32 time<1ms TTL=128
Reply from 192.168.0.1: bytes=32 time<1ms TTL=128
Reply from 192.168.0.1: bytes=32 time<1ms TTL=128

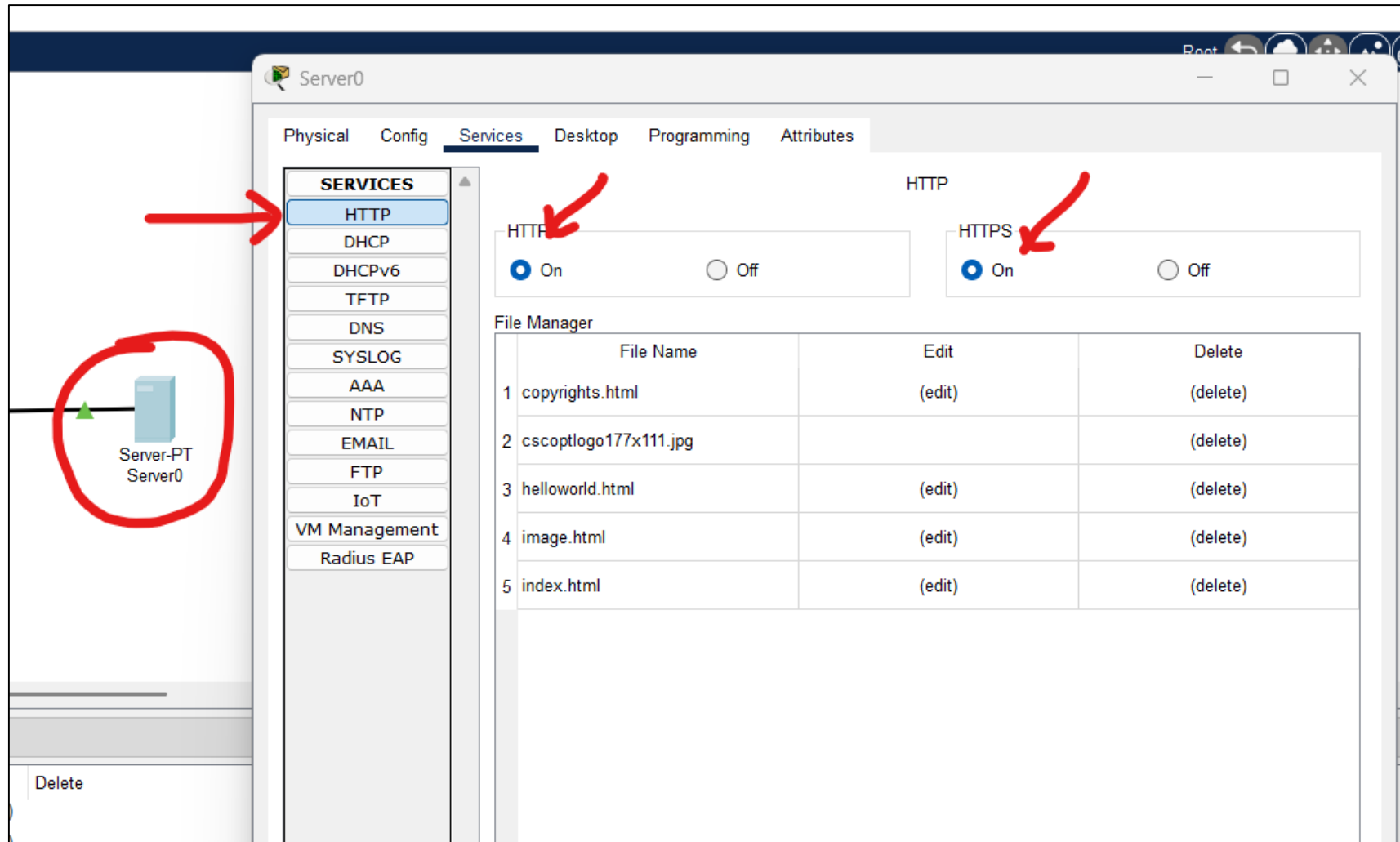
Ping statistics for 192.168.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

Red annotations highlight the command and the results:

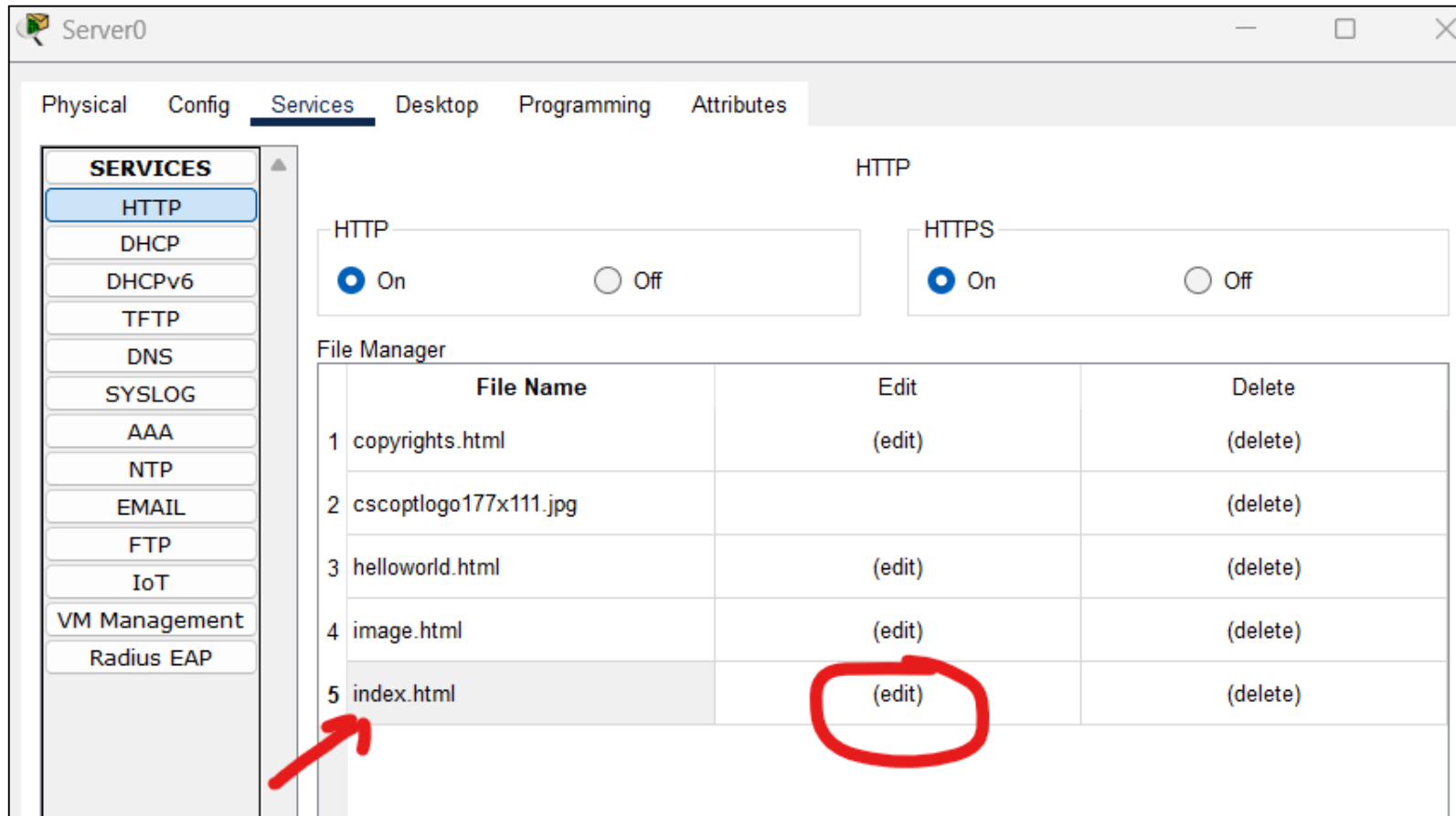
- A red arrow points to the command `ping servidoretecmm`.
- A red bracket groups the four successful reply lines.
- A red arrow points to the IP address `192.168.0.1` in the ping statistics section.

# Configurar o servidor WEB no Servidor

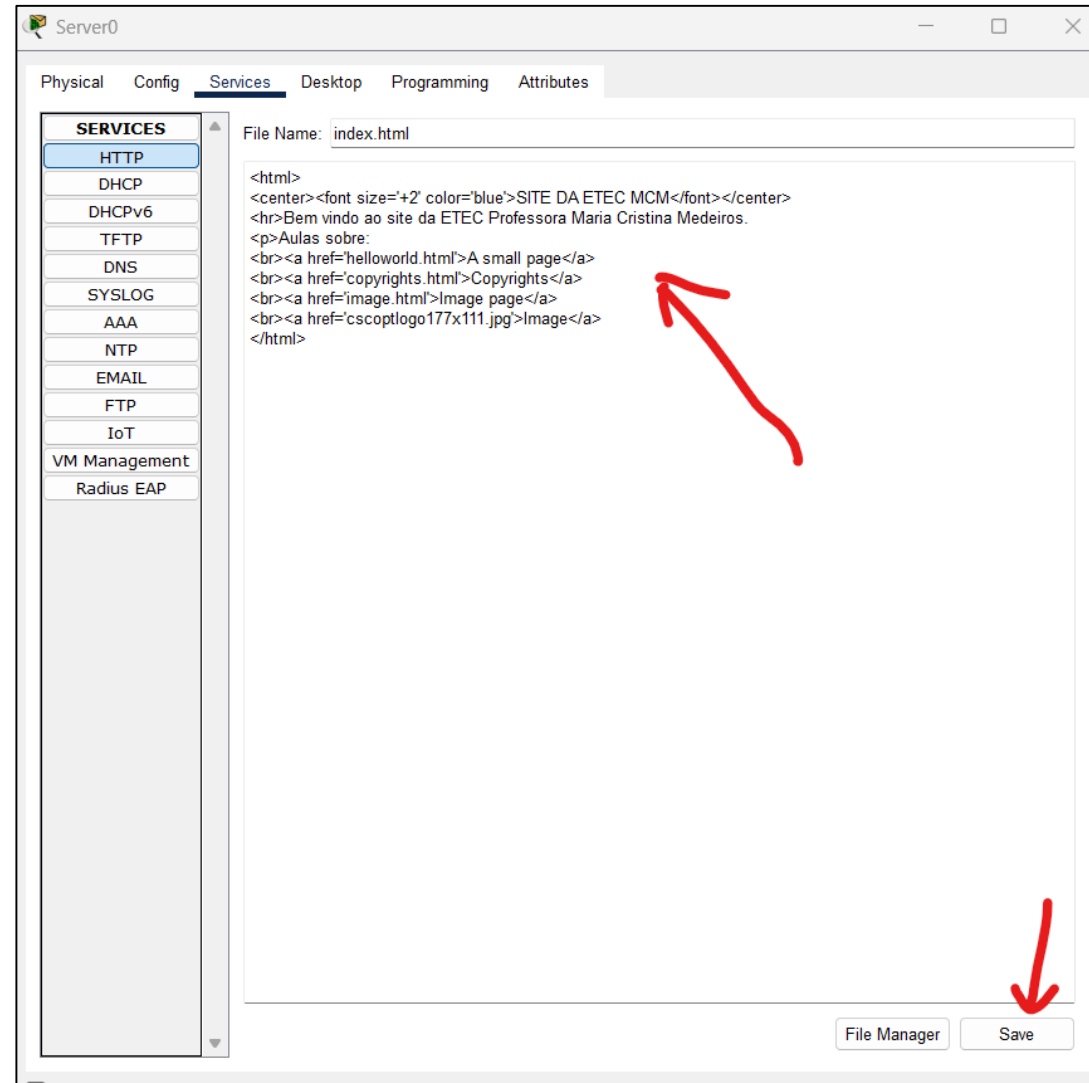


# Configurar o servidor WEB no Servidor

- Vamos fazer uma pequena edição no arquivo **index.html**

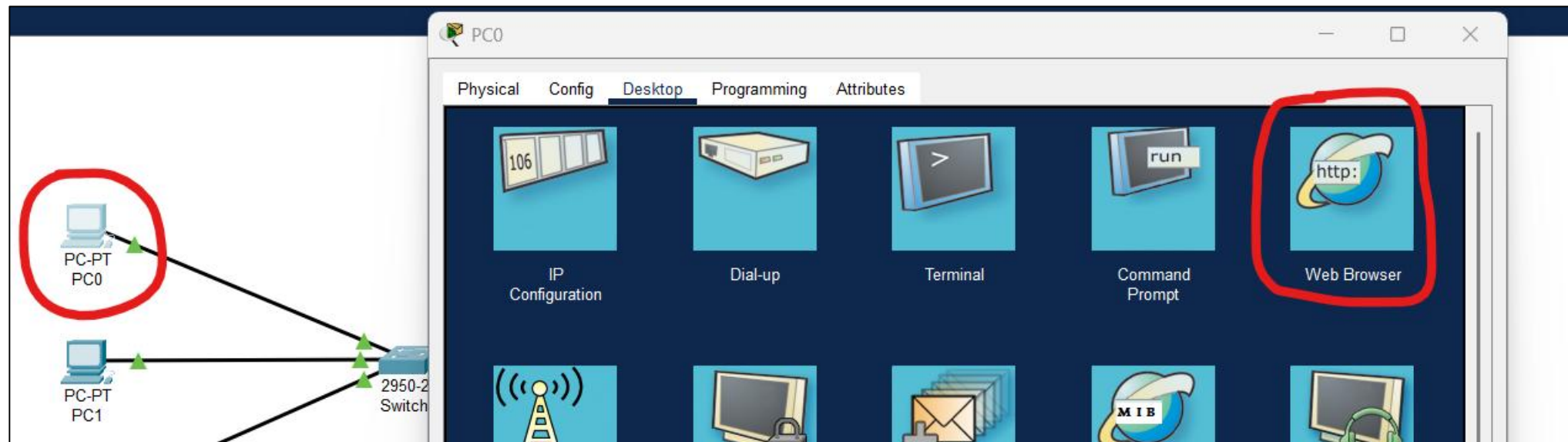


# Configurar o servidor WEB no Servidor



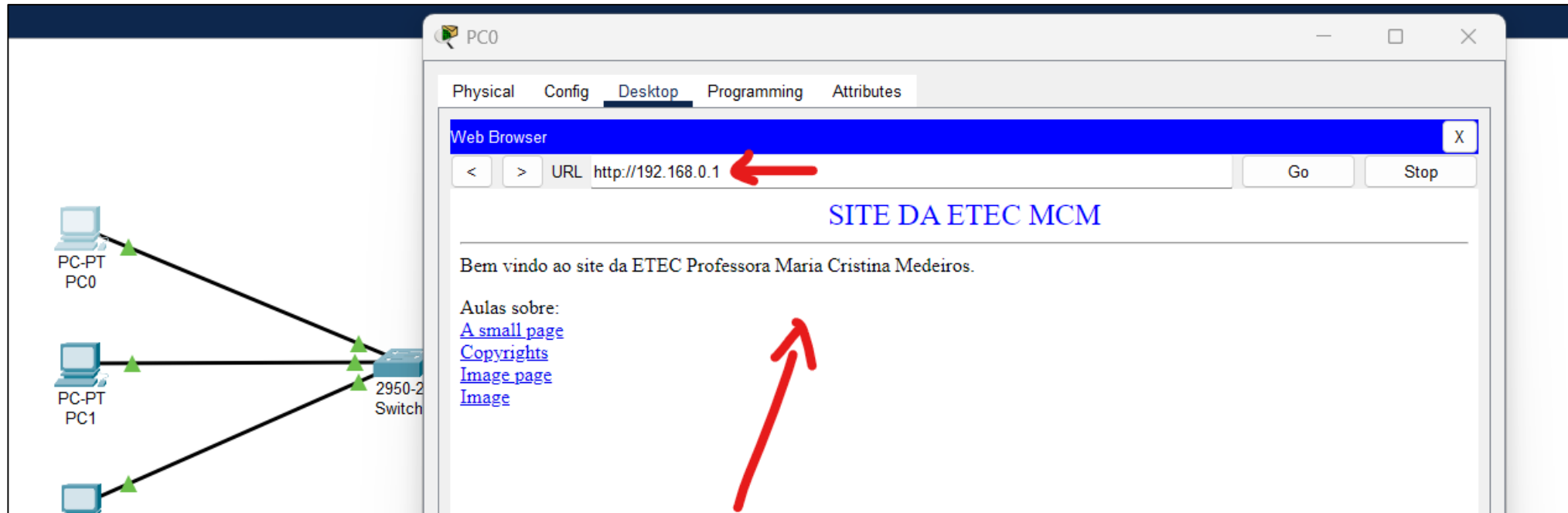
# Acessando o site pelas máquinas cliente

- Nas máquinas de sua rede acesse o ícone **Web Browser** e digite na URL:  
**192.168.0.1**



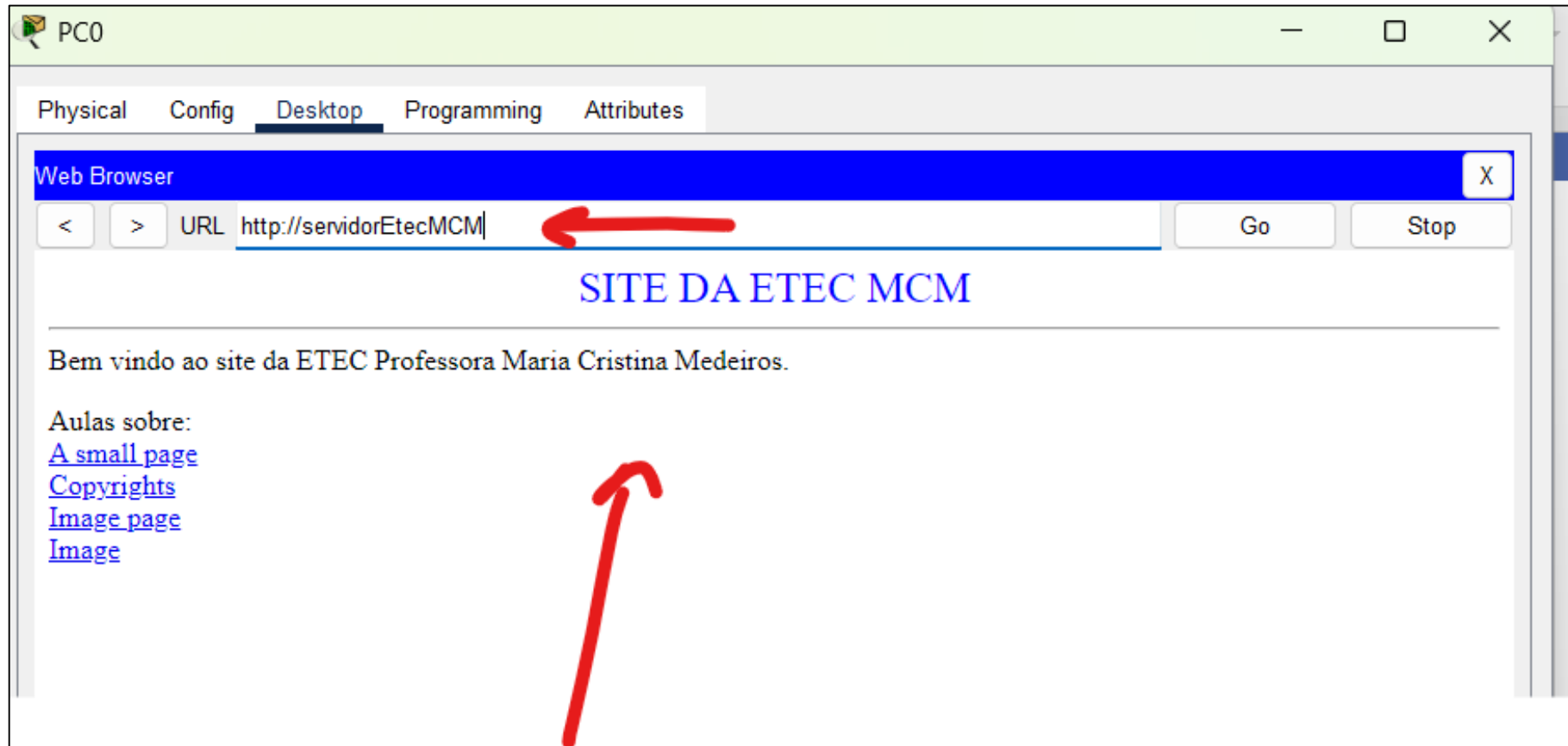


# Acessando o site pelas máquinas cliente



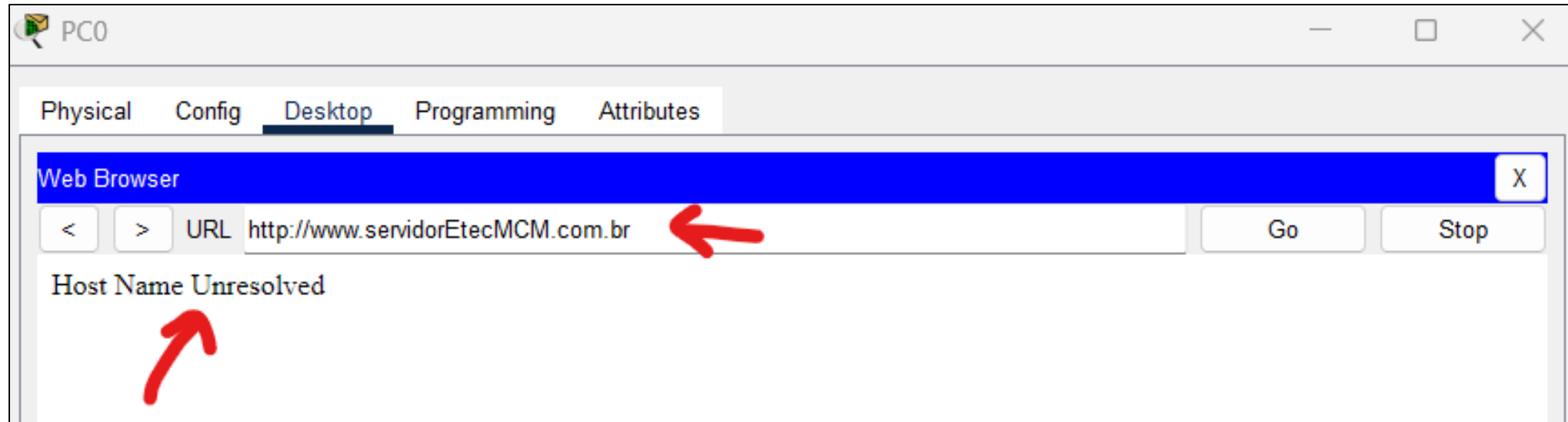
# Acessando o site pelas máquinas cliente

- Acesse também pelo nome do server configurado: servidorEtecMCM



# Acessando o site pelas máquinas cliente

- Mas e se quiséssemos acessar usando: [www.servidoretecmm.com.br](http://www.servidoretecmm.com.br) ?



Para que isso funcione, é necessário cadastrar este nome de DNS no servidor

# Configurando outro DNS no Servidor

