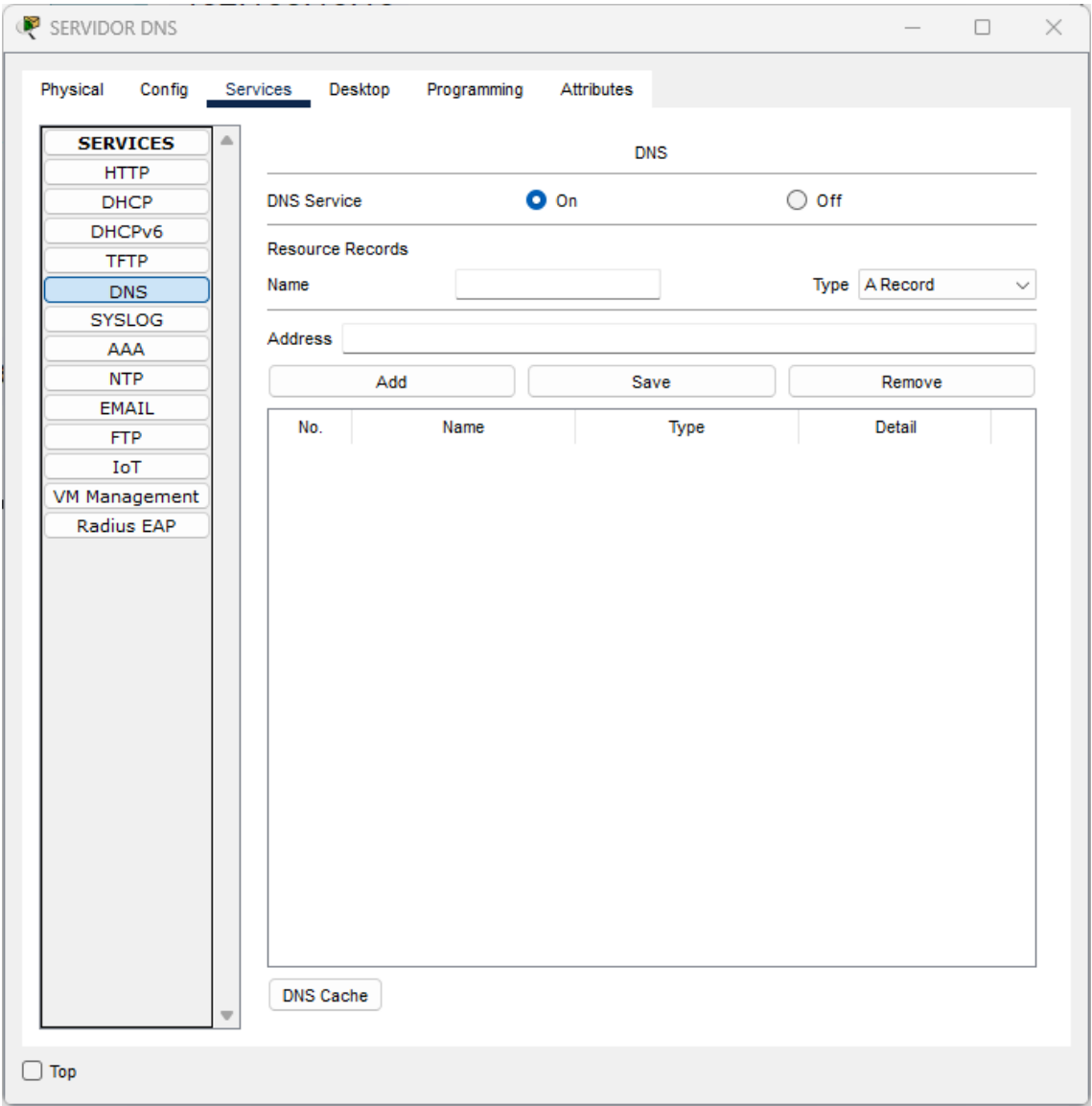


Ponemos todos los dispositivos con su correspondiente disposición, configuración y conexiones.

The screenshot shows the 'SERVIDOR DNS' configuration window with the 'Desktop' tab selected. The 'IP Configuration' section is active, showing 'Static' IP settings with fields for IPv4 Address (192.168.10.10), Subnet Mask (255.255.255.0), Default Gateway (0.0.0.0), and DNS Server (0.0.0.0). The 'IPv6 Configuration' section is also visible, showing 'Static' settings with fields for IPv6 Address, Link Local Address (FE80::2D0:58FF:FE05:107), Default Gateway, and DNS Server. The '802.1X' section is partially visible, showing 'Use 802.1X Security' unchecked, 'Authentication' set to 'MD5', and fields for 'Username' and 'Password'. A 'Top' button is at the bottom left.

Section	Option	Value
IP Configuration	Mode	Static
	IPv4 Address	192.168.10.10
	Subnet Mask	255.255.255.0
	Default Gateway	0.0.0.0
IPv6 Configuration	Mode	Static
	IPv6 Address	
	Link Local Address	FE80::2D0:58FF:FE05:107
	Default Gateway	
802.1X	Use 802.1X Security	<input type="checkbox"/>
	Authentication	MD5
	Username	
	Password	

Ponemos su correspondiente IP al servidor DNS.



Habilitamos el DNS y deshabilitamos el resto.

The screenshot shows a web browser window titled 'SERVIDOR WEB' with a navigation bar containing 'Physical', 'Config', 'Services', 'Desktop', 'Programming', and 'Attributes'. The 'Desktop' tab is active, displaying the 'IP Configuration' settings. The 'IP Configuration' section has a blue header bar with a close button 'X'. It contains two main sections: 'IP Configuration' and 'IPv6 Configuration'. In the 'IP Configuration' section, the 'Static' radio button is selected, and the fields are filled with: IPv4 Address: 192.168.10.11, Subnet Mask: 255.255.255.0, Default Gateway: 0.0.0.0, and DNS Server: 192.168.10.10. The 'IPv6 Configuration' section also has the 'Static' radio button selected, with fields for IPv6 Address (empty), Link Local Address (FE80::201:64FF:FE04:7C29), Default Gateway (empty), and DNS Server (empty). Below these is the '802.1X' section, which includes a checkbox for 'Use 802.1X Security' (unchecked), a dropdown for 'Authentication' set to 'MD5', and empty fields for 'Username' and 'Password'. At the bottom left, there is a 'Top' link.

IP Configuration	
<input type="radio"/> DHCP <input checked="" type="radio"/> Static	
IPv4 Address	192.168.10.11
Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0
DNS Server	192.168.10.10

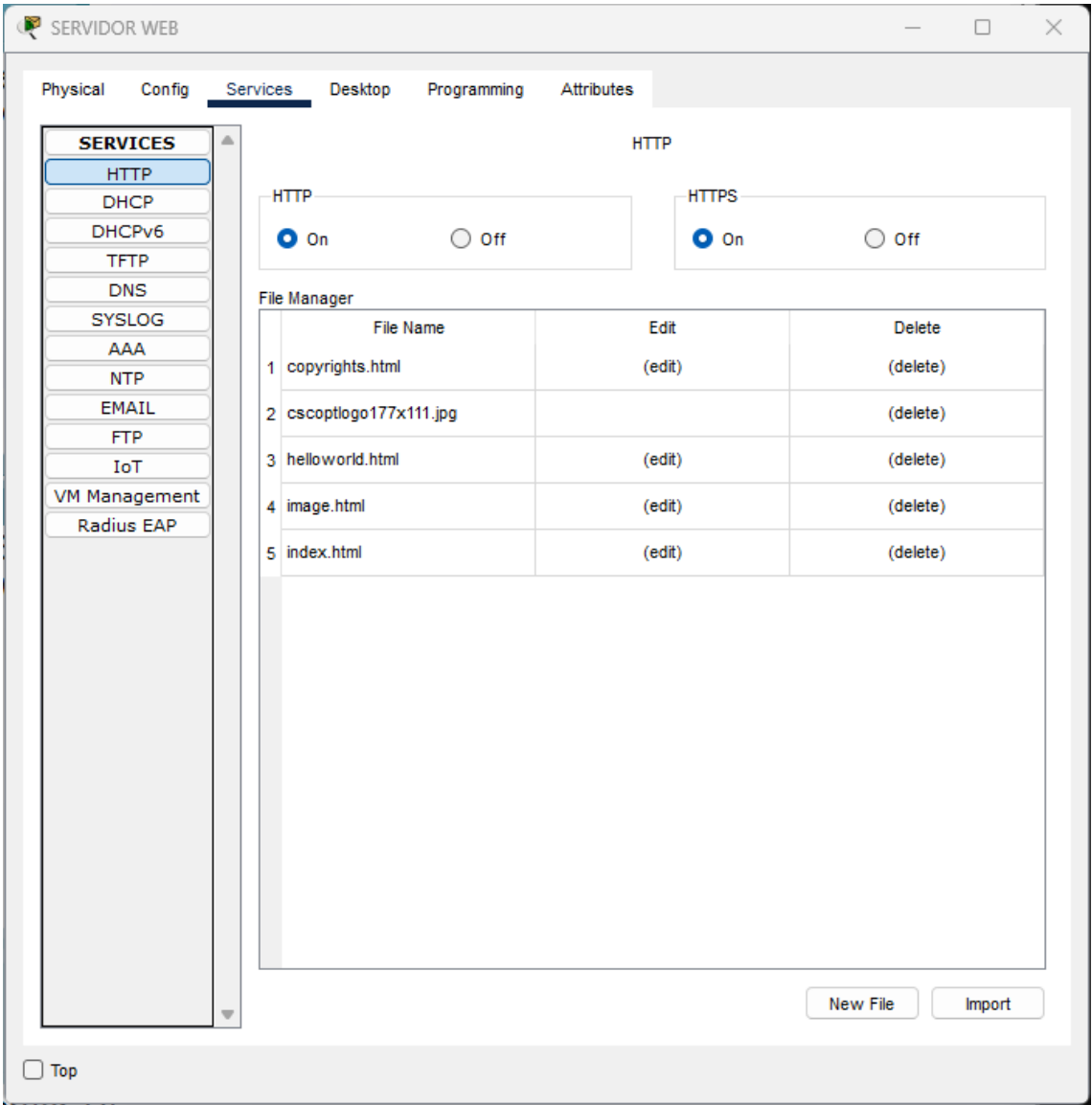
IPv6 Configuration	
<input type="radio"/> Automatic <input checked="" type="radio"/> Static	
IPv6 Address	
Link Local Address	FE80::201:64FF:FE04:7C29
Default Gateway	
DNS Server	

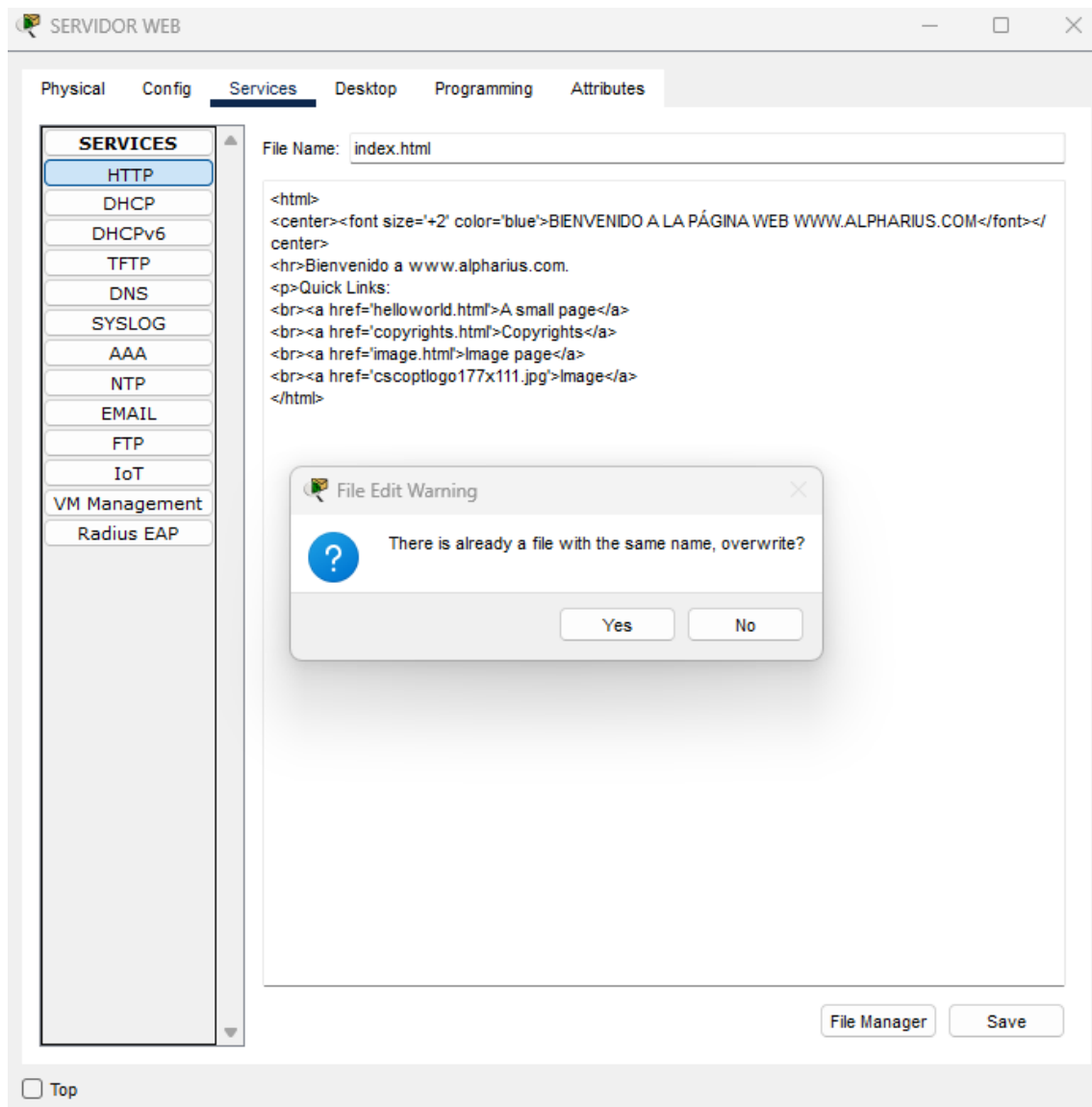
802.1X	
<input type="checkbox"/> Use 802.1X Security	
Authentication	MD5
Username	
Password	

☐ Top

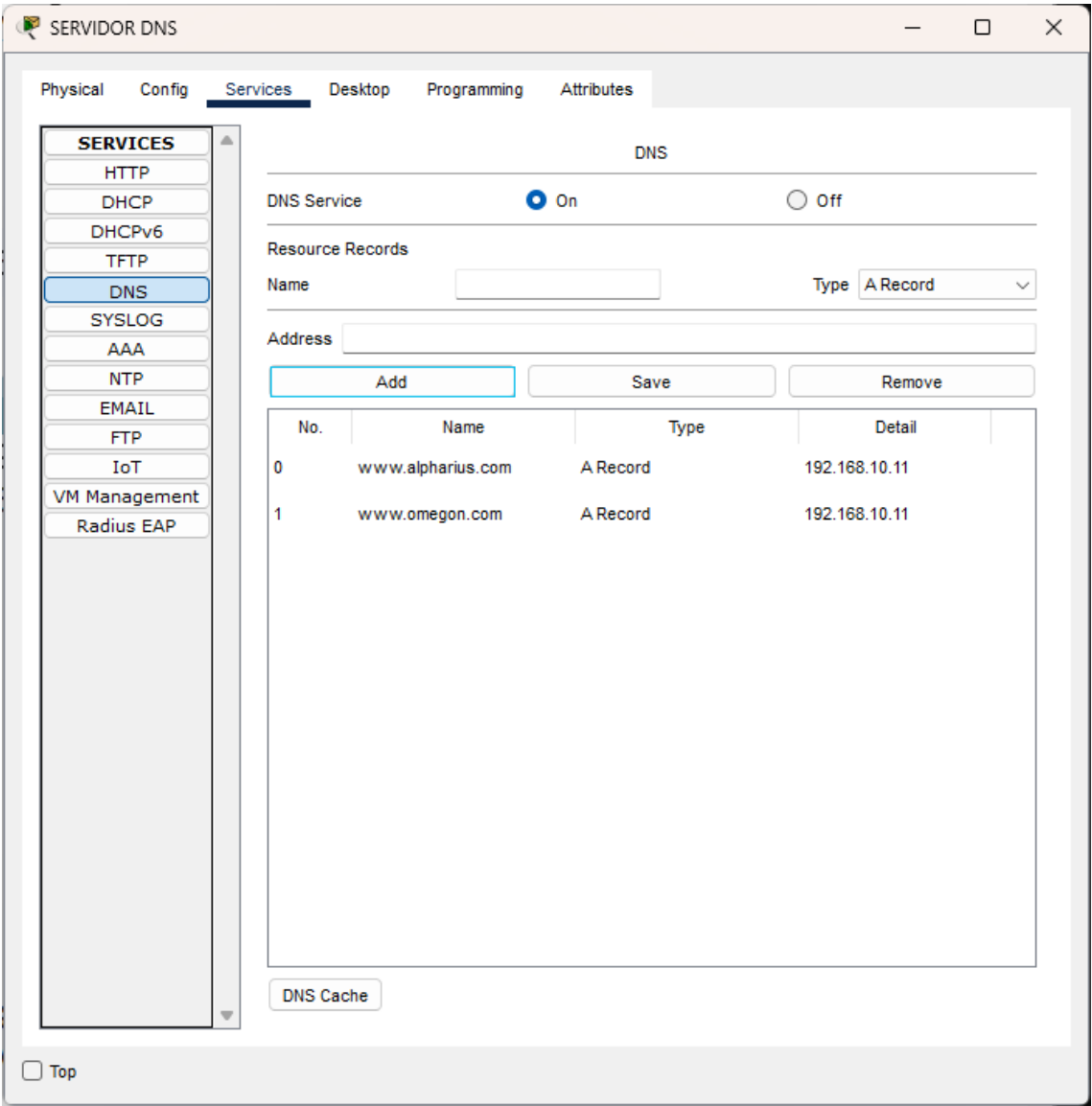
Asignamos su correspondiente IP al servidor web y ponemos el DNS.



Habilitamos los servicios de HTTP y HTTPS, además de deshabilitar el resto ya que no los vamos a usar.



Editamos el index.html y lo guardamos.



Ahora en el servidor DNS registramos los dominios de las dos webs.

192.168.10.2

PhysicalConfigDesktopProgrammingAttributes

IP Configuration

InterfaceFastEthernet0

IP Configuration

DHCP

Static

IPv4 Address192.168.10.2

Subnet Mask255.255.255.0

Default Gateway0.0.0.0

DNS Server192.168.10.10

IPv6 Configuration

Automatic

Static

IPv6 Address

Link Local AddressFE80::201:63FF:FE5A:9D7B

Default Gateway

DNS Server

802.1X

Use 802.1X Security

AuthenticationMD5

Username

Password

Top

192.168.10.3

PhysicalConfigDesktopProgrammingAttributes

IP Configuration

InterfaceFastEthernet0

IP Configuration

DHCP

Static

IPv4 Address192.168.10.3

Subnet Mask255.255.255.0

Default Gateway0.0.0.0

DNS Server192.168.10.10

IPv6 Configuration

Automatic

Static

IPv6 Address

Link Local AddressFE80::200:CFF:FEC3:4388

Default Gateway

DNS Server

802.1X

Use 802.1X Security

AuthenticationMD5

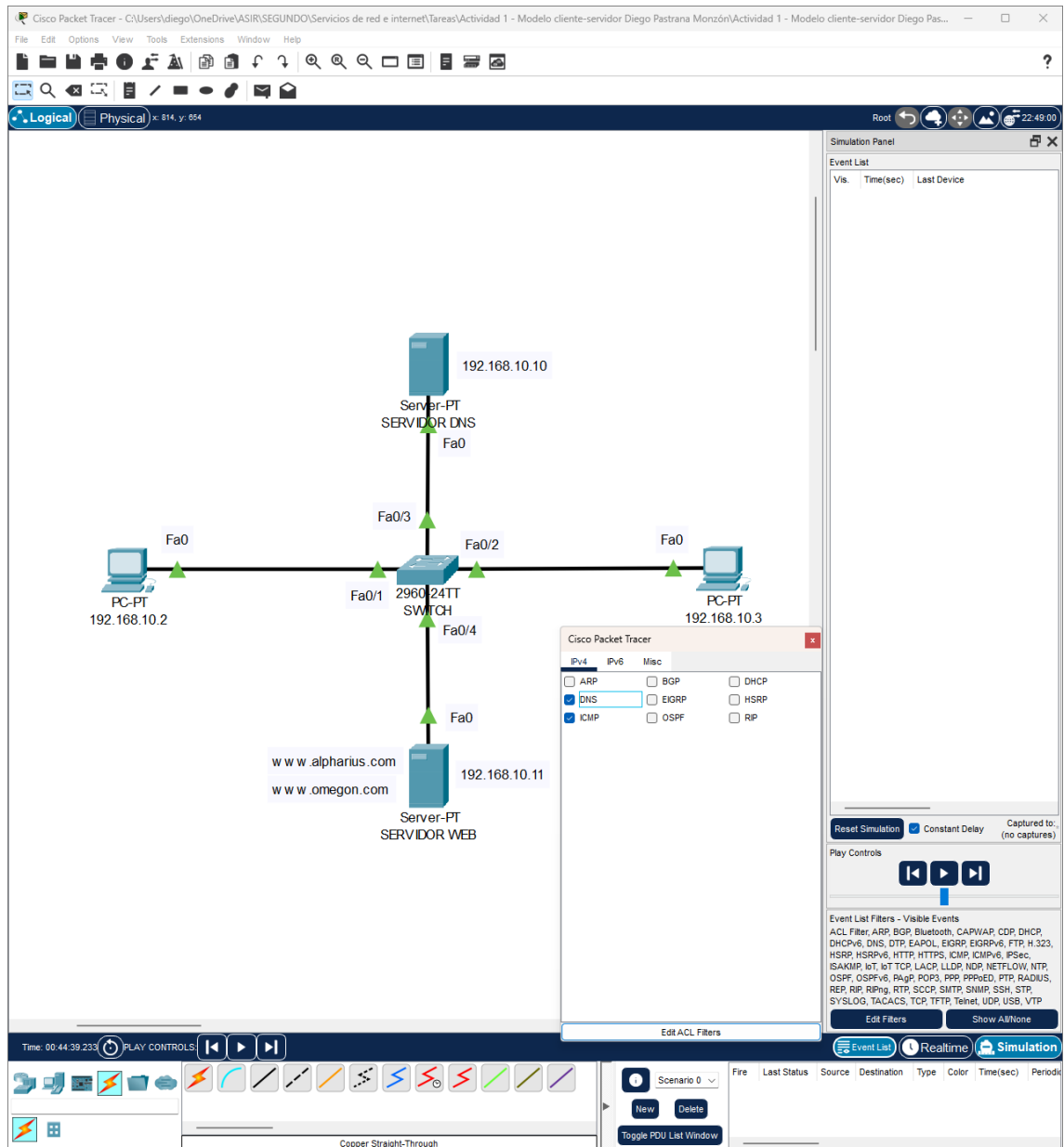
Username

Password

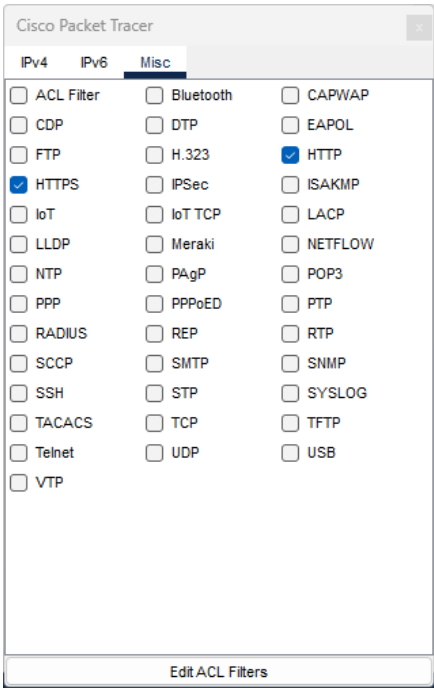
Top

Ahora establecemos las direcciones IP y el DNS en los dos PCs.

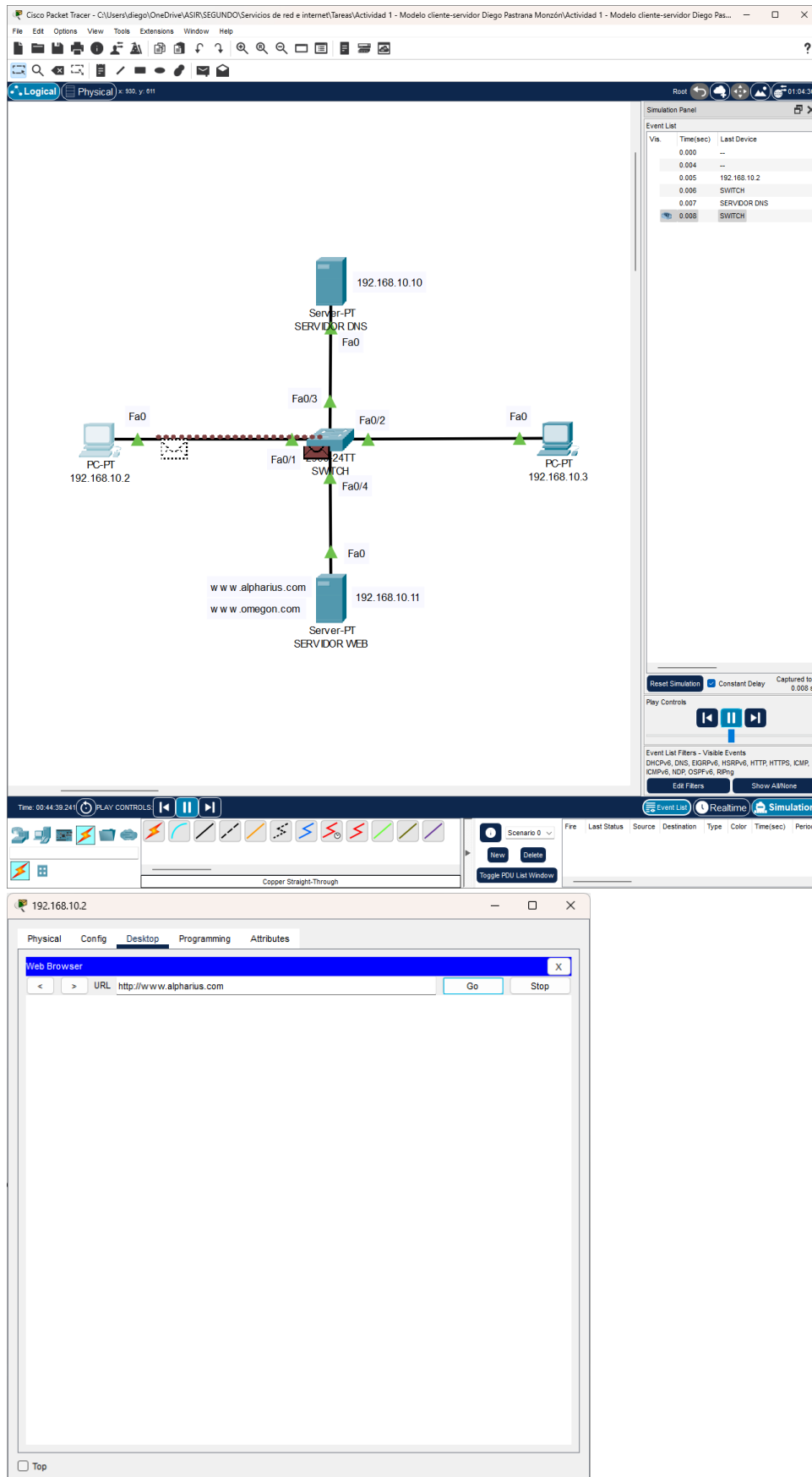




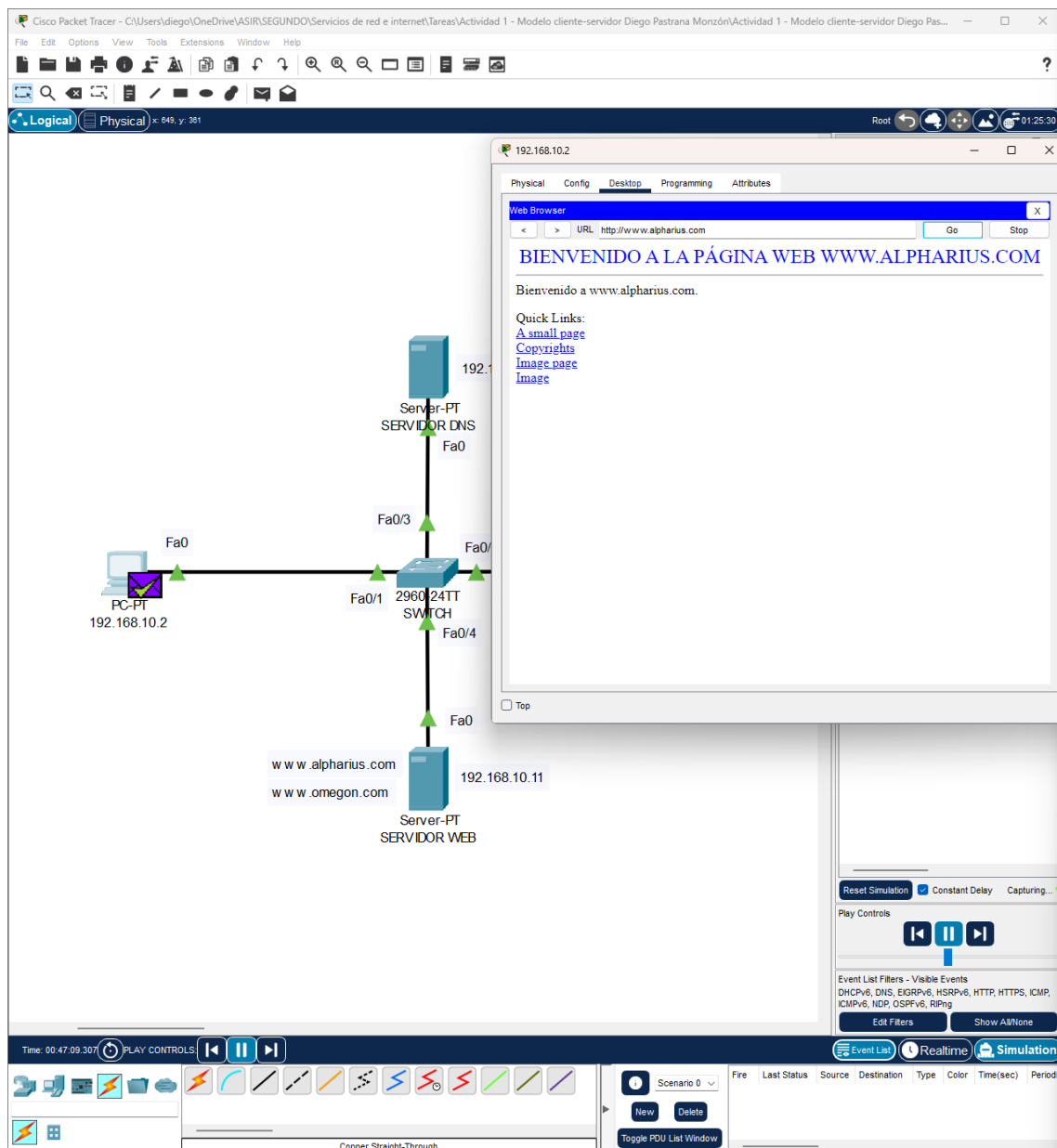
Ahora nos vamos a la ventana de simulación y editamos los filtros, dejando solo ICMP y DNS para IPv4.



Posteriormente en el apartado de Misc dejamos solo activado HTTPS y HTTP.



Se simula como viajan los paquetes al introducir el enlace de la web en el navegador de uno de los PCs.

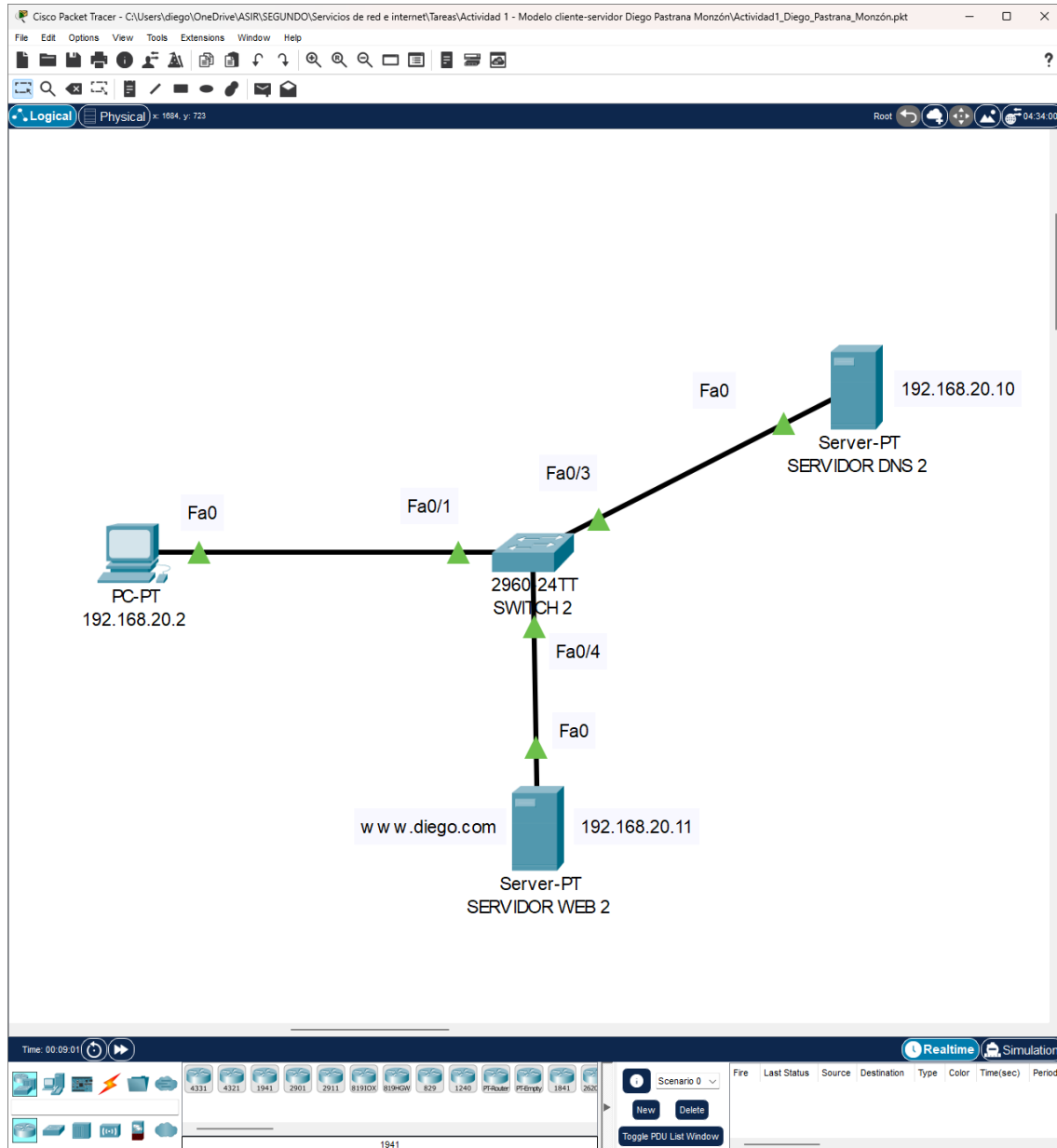


Hasta que finalmente carga con éxito la web.



Como podemos ver también si probamos desde el otro PC también carga, pudiendo ver también la otra web.

## PARTE 2



En este modelo construido por mí, están presentes un PC con IP estática, que en este caso lo usaremos para entrar a la web [www.diego.com](http://www.diego.com), esta web a su vez se aloja en el Servidor Web 2, dicha página web tiene asignado un servidor DNS para que al entrar a ella no sea necesario escribir la IP sino que al tener un dominio asignado simplemente podemos escribir el enlace, que es algo un poco más amigable que escribir la IP.

También hay que mencionar que usé un switch para poder interconectar los componentes que acabo de mencionar por claros motivos.

A continuación, muestro en las imágenes dichas configuraciones y la carga de la web:

The screenshot shows a web browser window with the address 192.168.20.2. The browser displays a configuration page with tabs: Physical, Config, Desktop (selected), Programming, and Attributes. The main content area is titled 'IP Configuration' and shows settings for the 'FastEthernet0' interface. The 'IP Configuration' section has two radio buttons: 'DHCP' (unselected) and 'Static' (selected). Below these are fields for 'IPv4 Address' (192.168.20.2), 'Subnet Mask' (255.255.255.0), 'Default Gateway' (0.0.0.0), and 'DNS Server' (192.168.20.10). The 'IPv6 Configuration' section also has two radio buttons: 'Automatic' (unselected) and 'Static' (selected). Below these are fields for 'IPv6 Address' (empty), 'Link Local Address' (FE80::250:FFF:FE34:5BA9), 'Default Gateway' (empty), and 'DNS Server' (empty). The '802.1X' section has a checkbox 'Use 802.1X Security' (unchecked), a dropdown 'Authentication' (MD5), and fields for 'Username' and 'Password' (both empty). A 'Top' link is at the bottom left.

192.168.20.2

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.20.2

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 192.168.20.10

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::250:FFF:FE34:5BA9

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

☐ Top

SERVIDOR DNS 2

Physical

Config

Services

Desktop

Programming

Attributes

IP Configuration

IP Configuration

DHCP

Static

IPv4 Address

192.168.20.10

Subnet Mask

255.255.255.0

Default Gateway

0.0.0.0

DNS Server

0.0.0.0

IPv6 Configuration

Automatic

Static

IPv6 Address

Link Local Address

FE80::250:FFF:FE31:1E20

Default Gateway

DNS Server

802.1X

Use 802.1X Security

Authentication

MD5

Username

Password

Top



SERVIDOR DNS 2

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	www.diego.com	A Record	192.168.20.11

DNS Cache

☐ Top

SERVIDOR WEB 2

Physical

Config

Services

Desktop

Programming

Attributes

IP Configuration

X

IP Configuration

DHCP

Static

IPv4 Address

192.168.20.11

Subnet Mask

255.255.255.0

Default Gateway

0.0.0.0

DNS Server

192.168.20.10

IPv6 Configuration

Automatic

Static

IPv6 Address

/

Link Local Address

FE80::2E0:F7FF:FE05:8E5E

Default Gateway

DNS Server

802.1X

Use 802.1X Security

Authentication

MD5

Username

Password

Top

