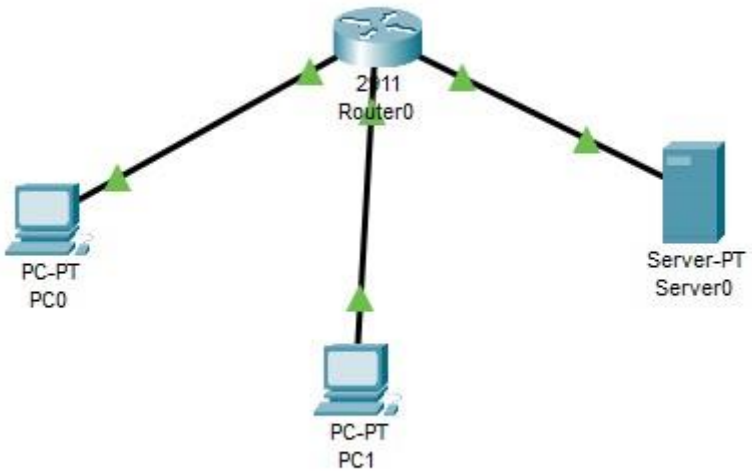
Objetivo

Simular uma requisição DNS e acesso via HTTP no Cisco Packet Tracer, analisando o fluxo de protocolos envolvidos (DNS, IP, TCP, HTTP) e o impacto da falha do DNS.

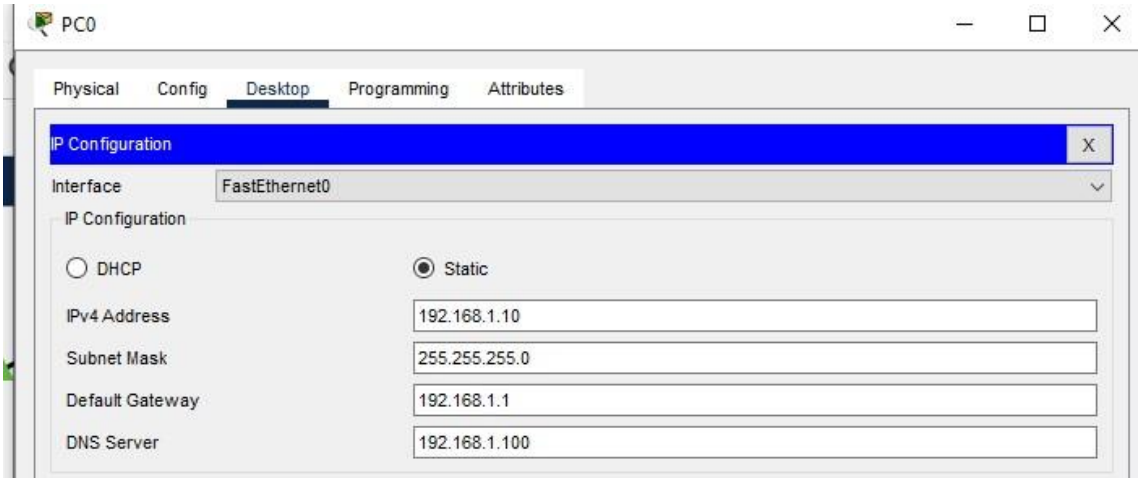
Topologia da Rede

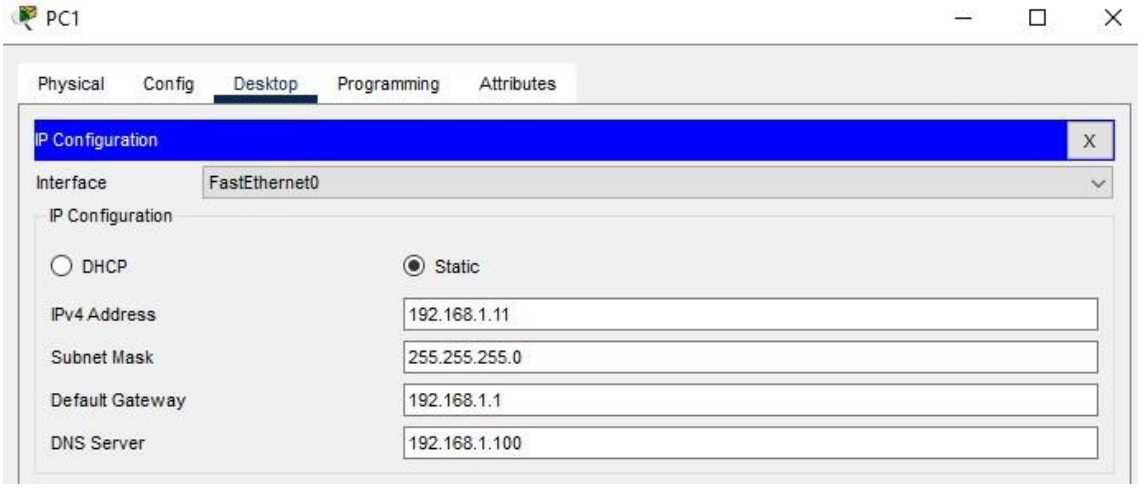
Dispositivos utilizados:

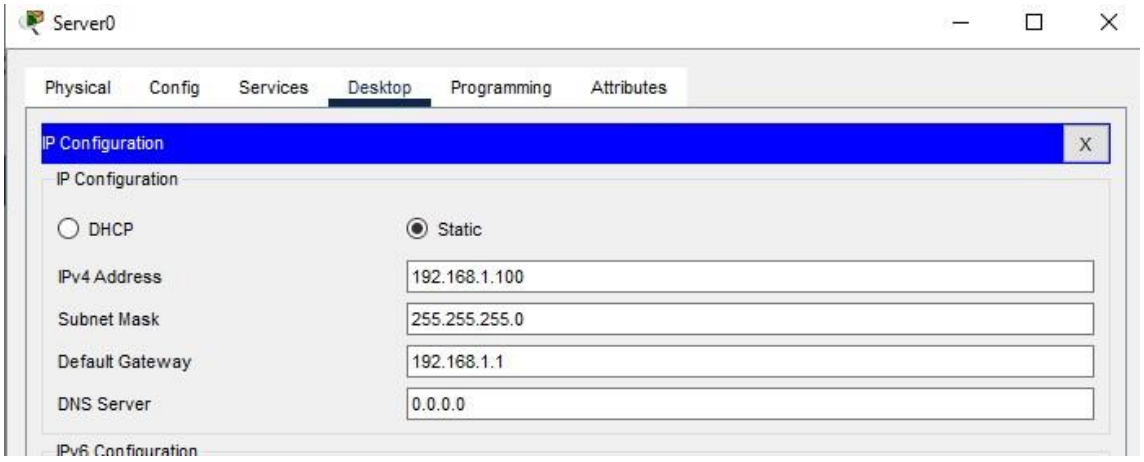
- 2 PCs (PC0 e PC1)
- 1 Servidor Web/DNS
- 1 Roteador (Router0)



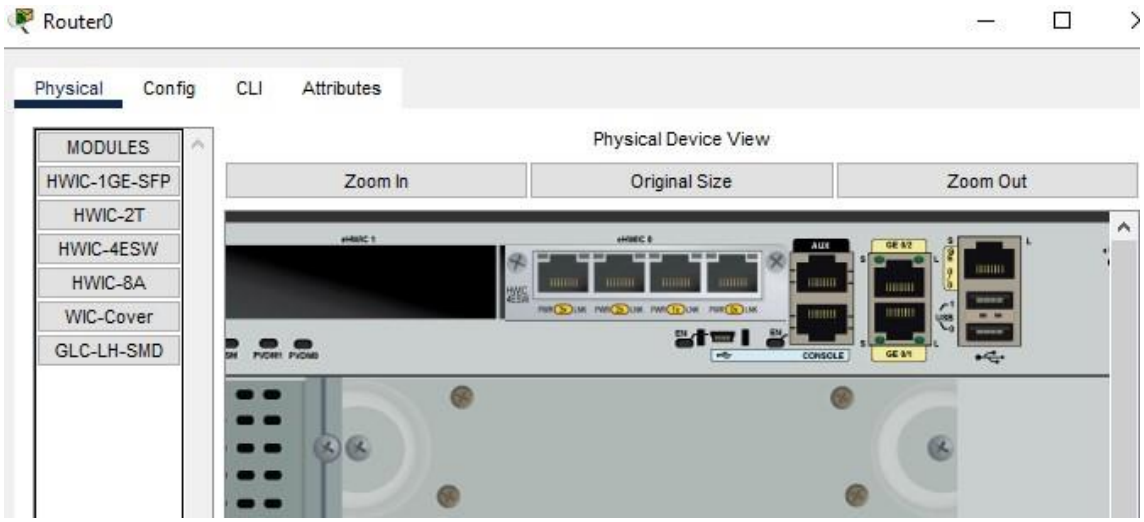
Endereçamento IP

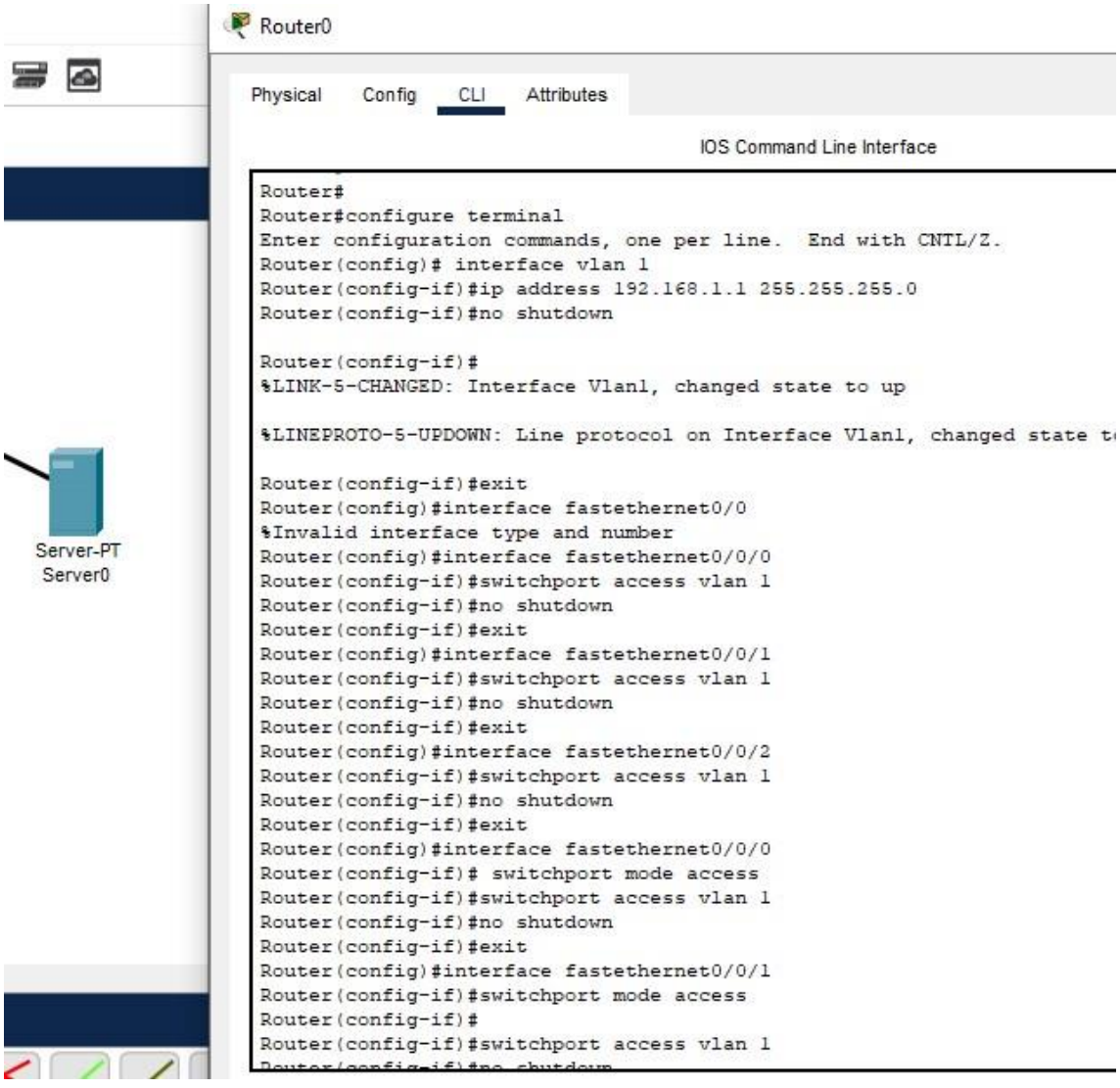




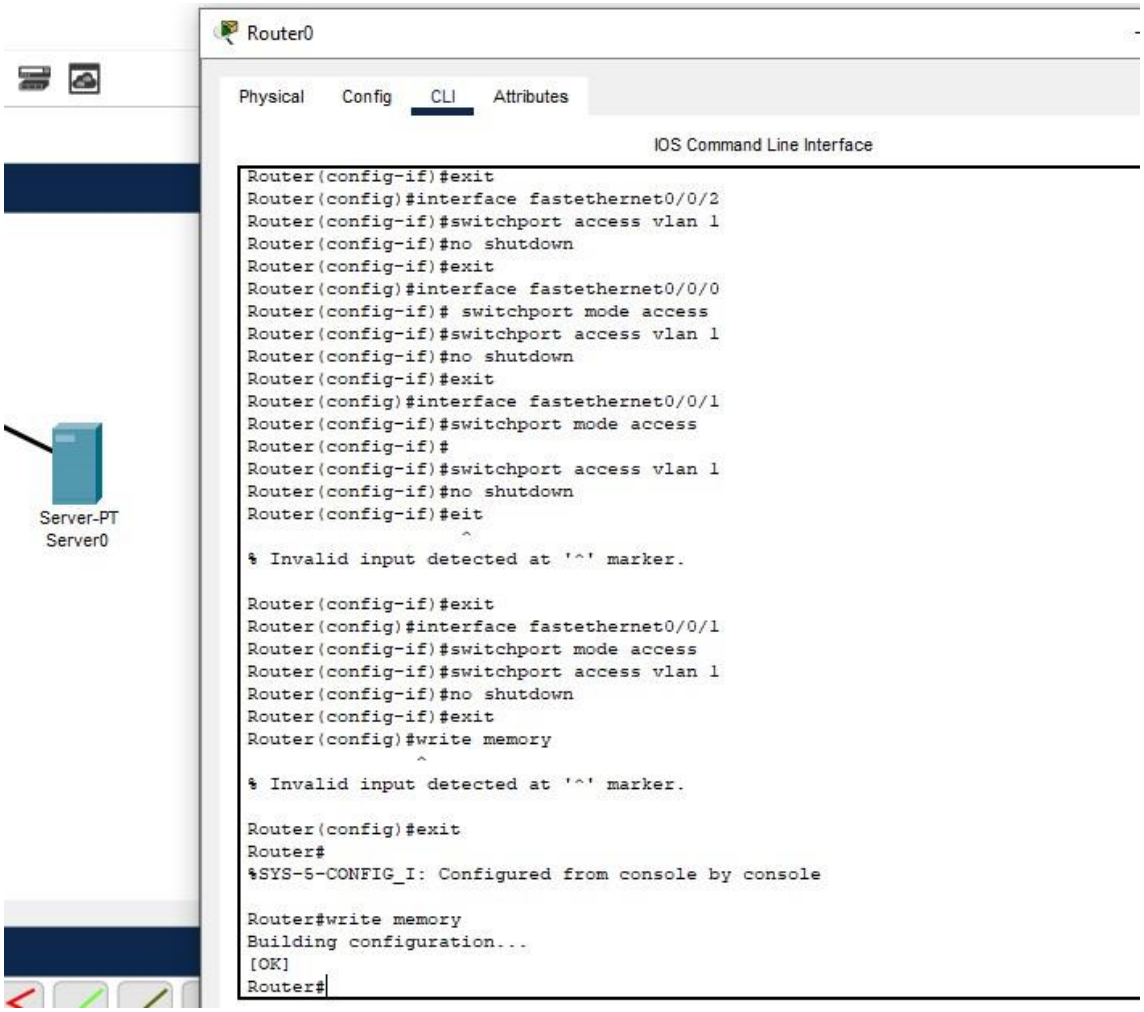


Configuração do Router0

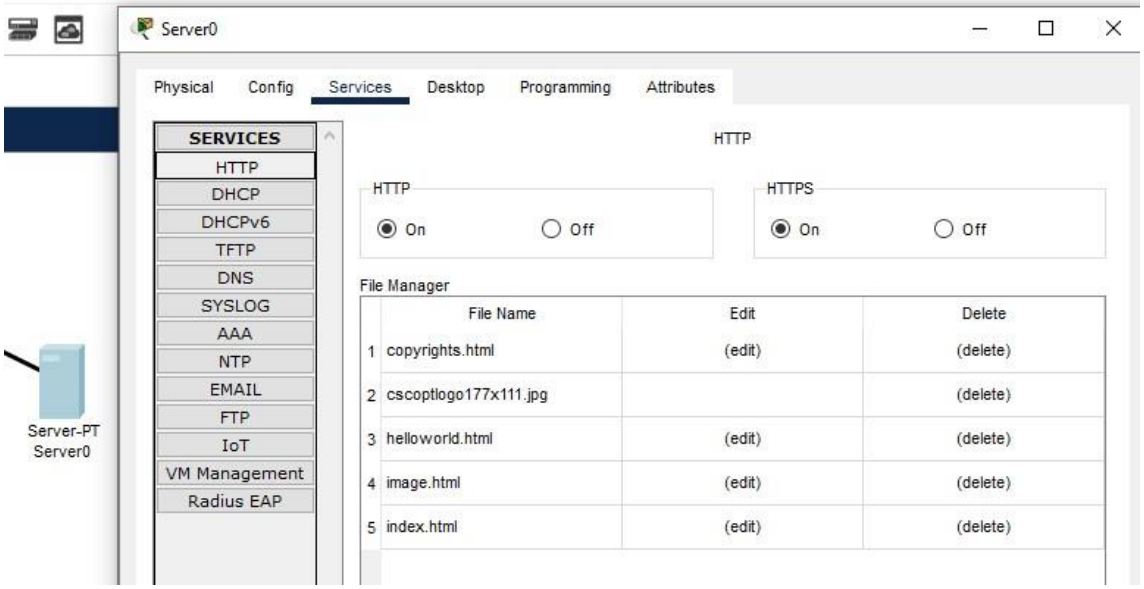


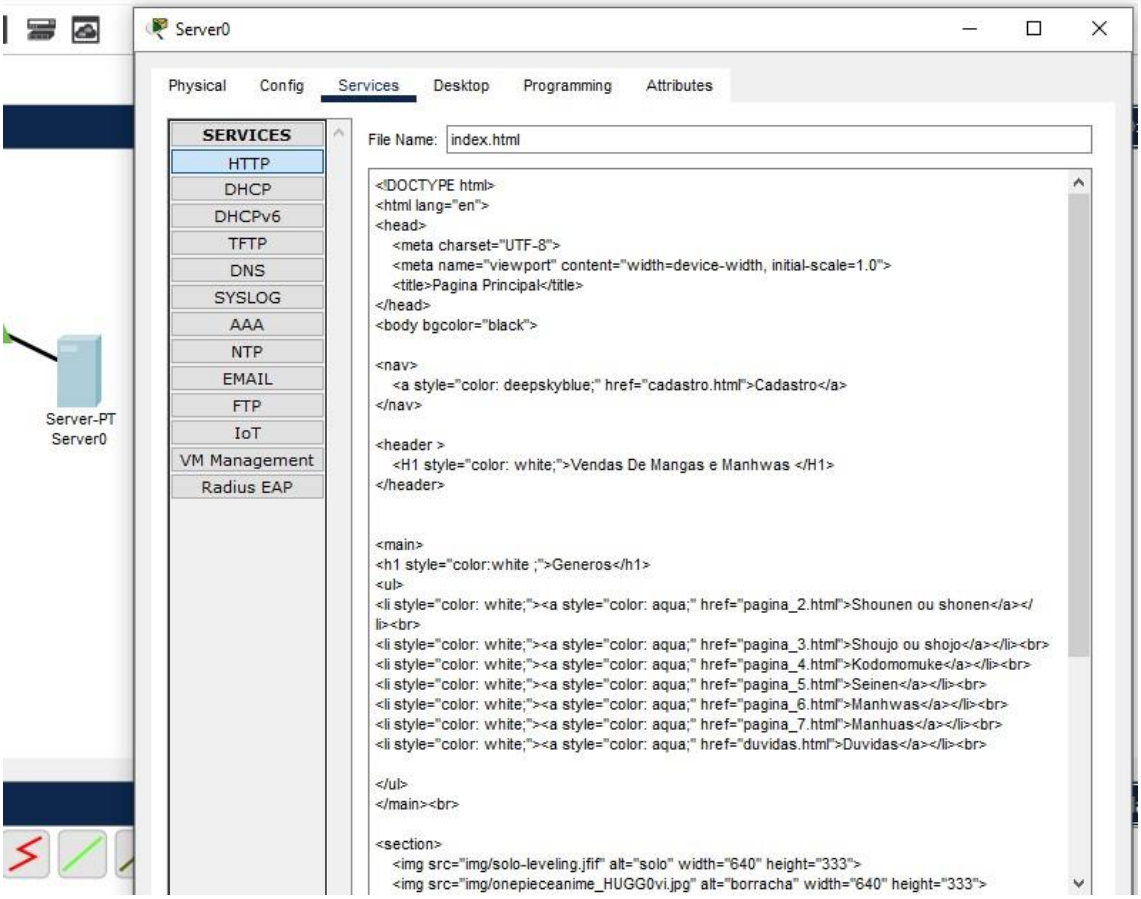



```
Router#
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)# interface vlan 1
Router(config-if)#ip address 192.168.1.1 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state t

Router(config-if)#exit
Router(config)#interface fastethernet0/0
%Invalid interface type and number
Router(config)#interface fastethernet0/0/0
Router(config-if)#switchport access vlan 1
Router(config-if)#no shutdown
Router(config-if)#exit
Router(config)#interface fastethernet0/0/1
Router(config-if)#switchport access vlan 1
Router(config-if)#no shutdown
Router(config-if)#exit
Router(config)#interface fastethernet0/0/2
Router(config-if)#switchport access vlan 1
Router(config-if)#no shutdown
Router(config-if)#exit
Router(config)#interface fastethernet0/0/0
Router(config-if)# switchport mode access
Router(config-if)#switchport access vlan 1
Router(config-if)#no shutdown
Router(config-if)#exit
Router(config)#interface fastethernet0/0/1
Router(config-if)#switchport mode access
Router(config-if)#
Router(config-if)#switchport access vlan 1
```

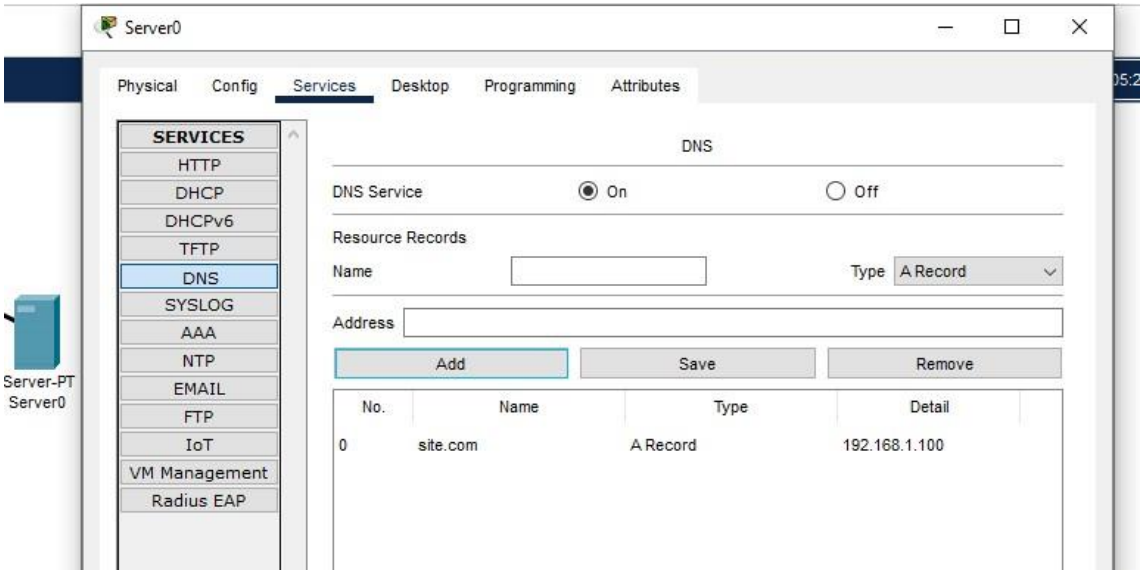


Configuração do Servidor Web



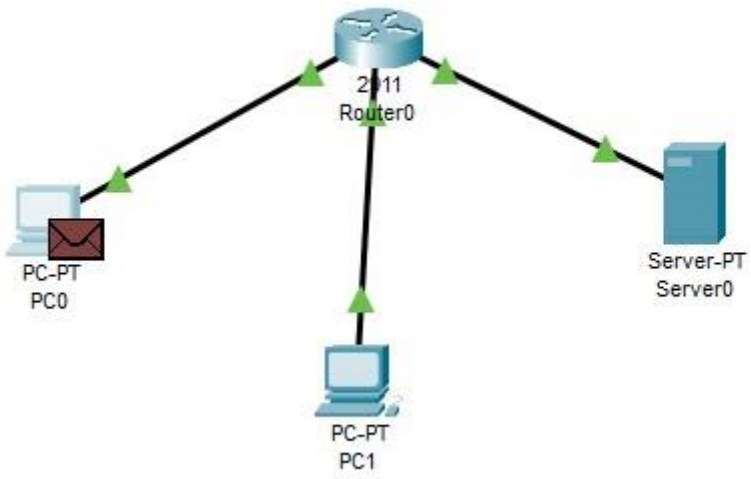


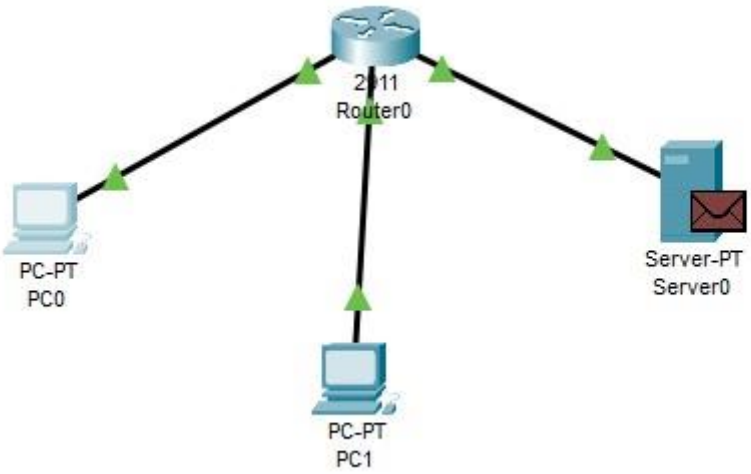
Configuração do Servidor DNS



Teste de Acesso ao Site

Captura no Simulation Mode

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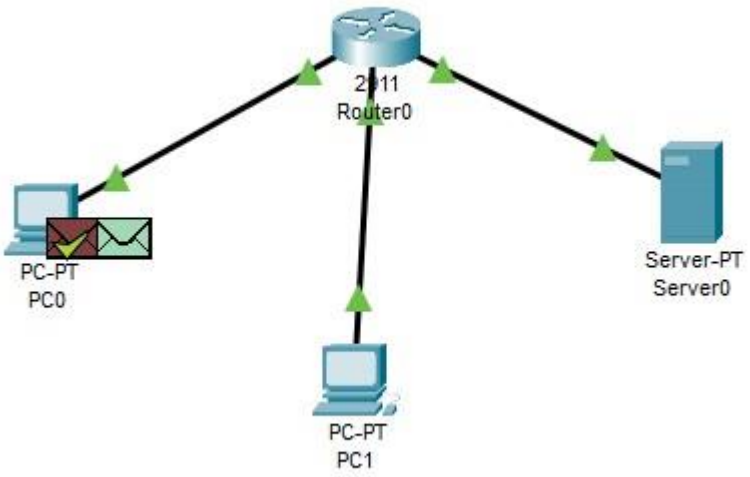
PC0
Server-PT
Server0
PC-PT
PC1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PC0
Server-PT
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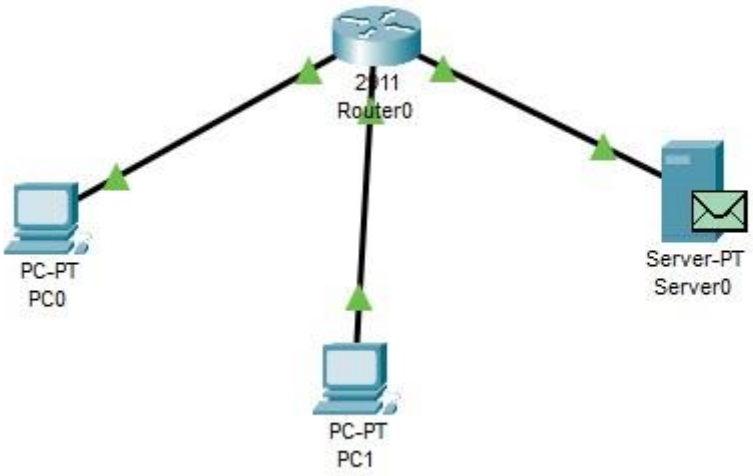
PC1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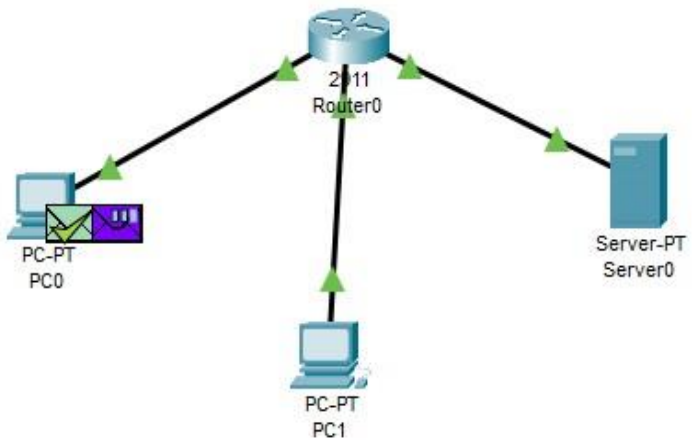
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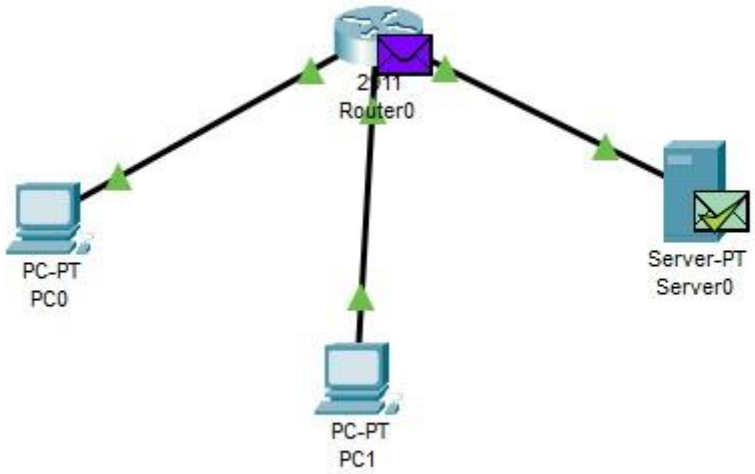
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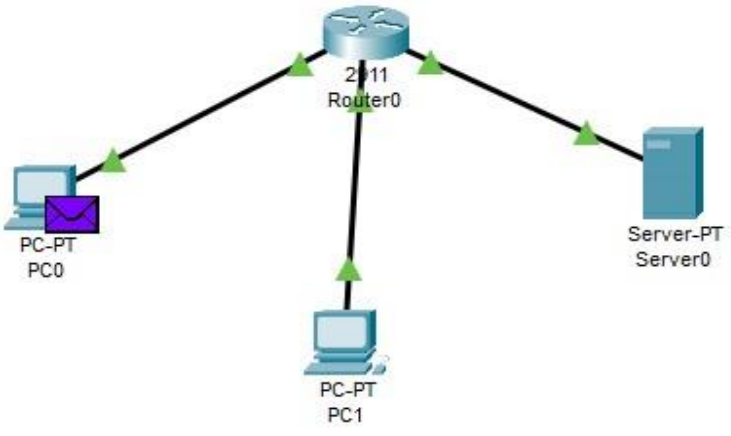
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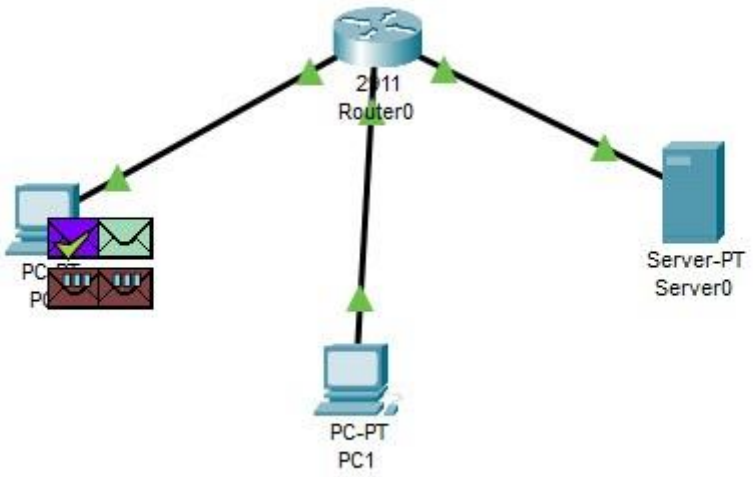
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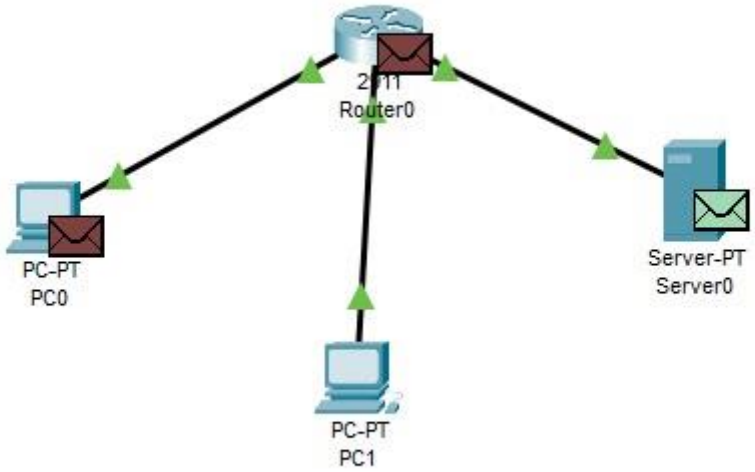
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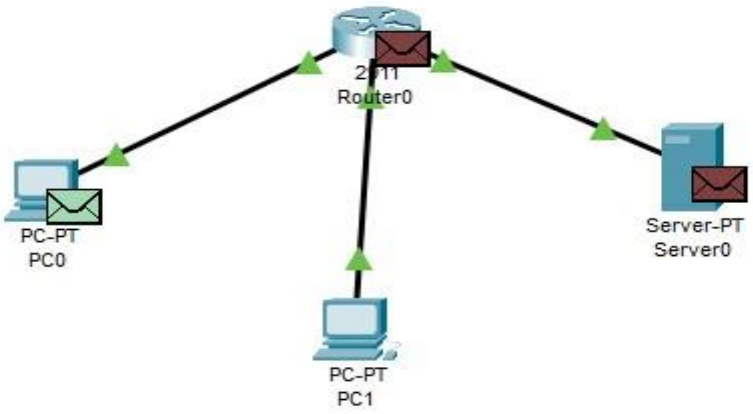
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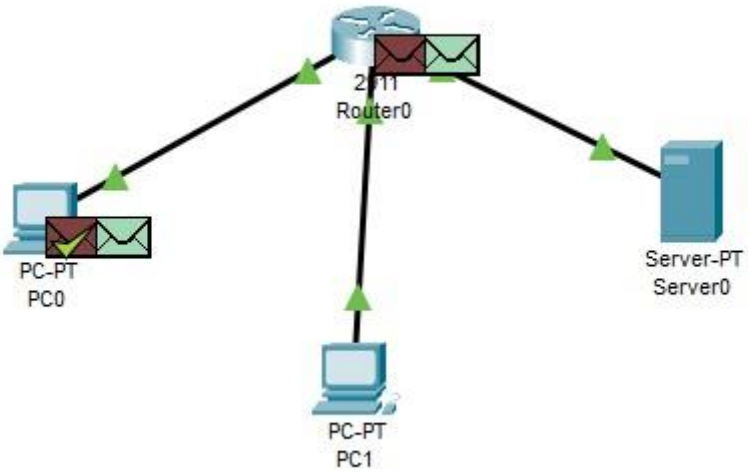
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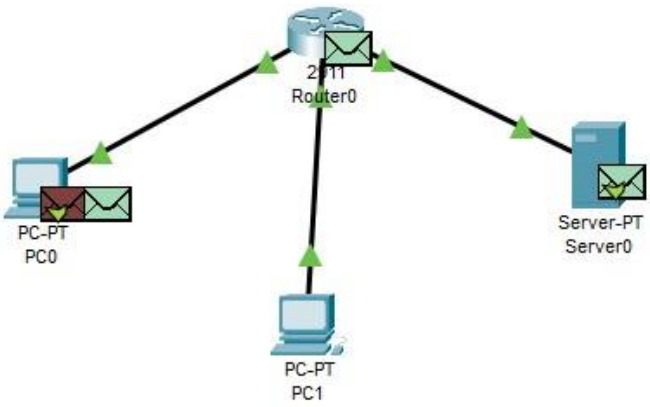
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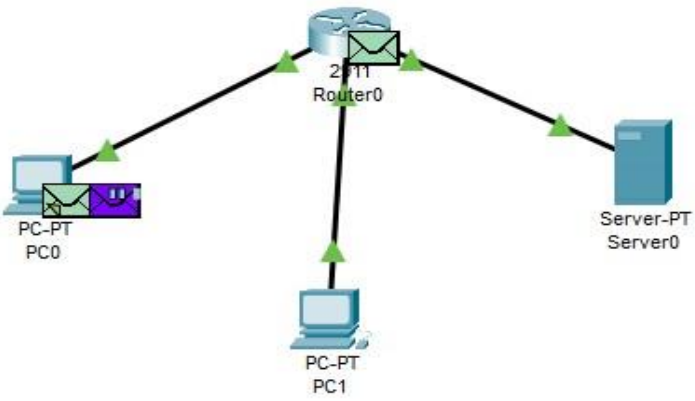
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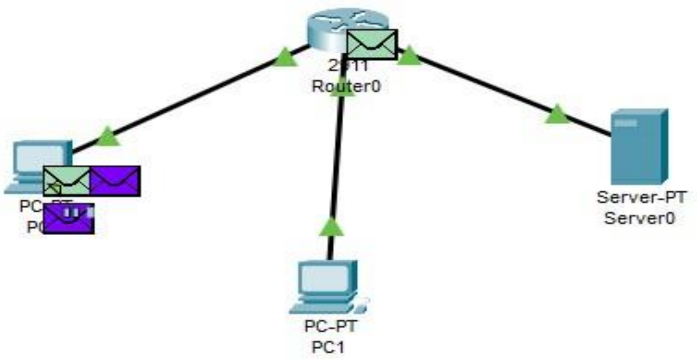
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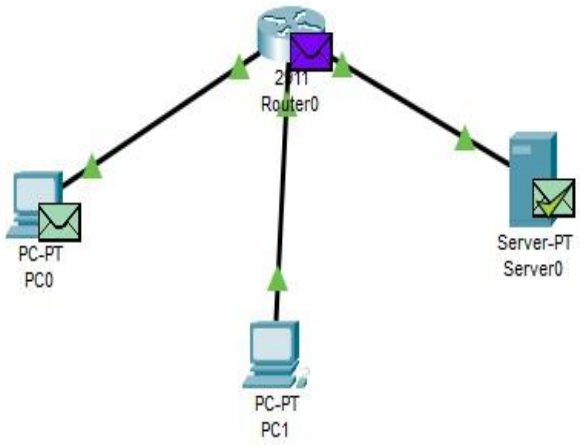
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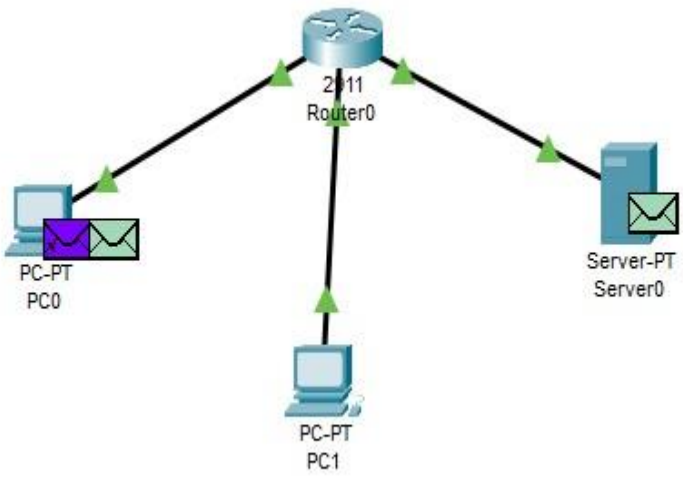
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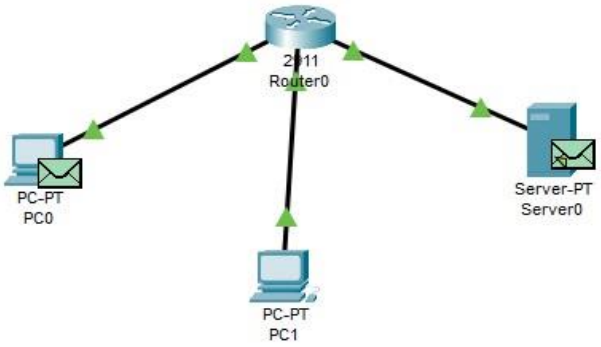
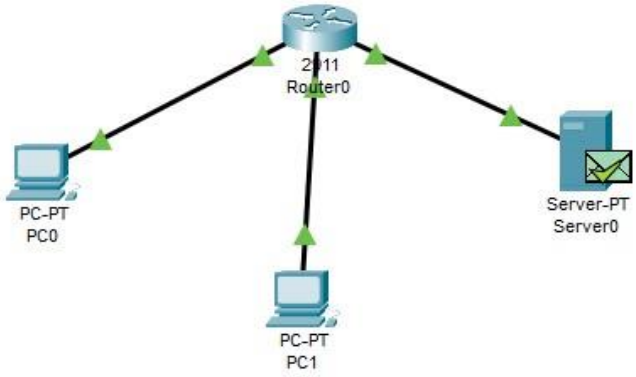
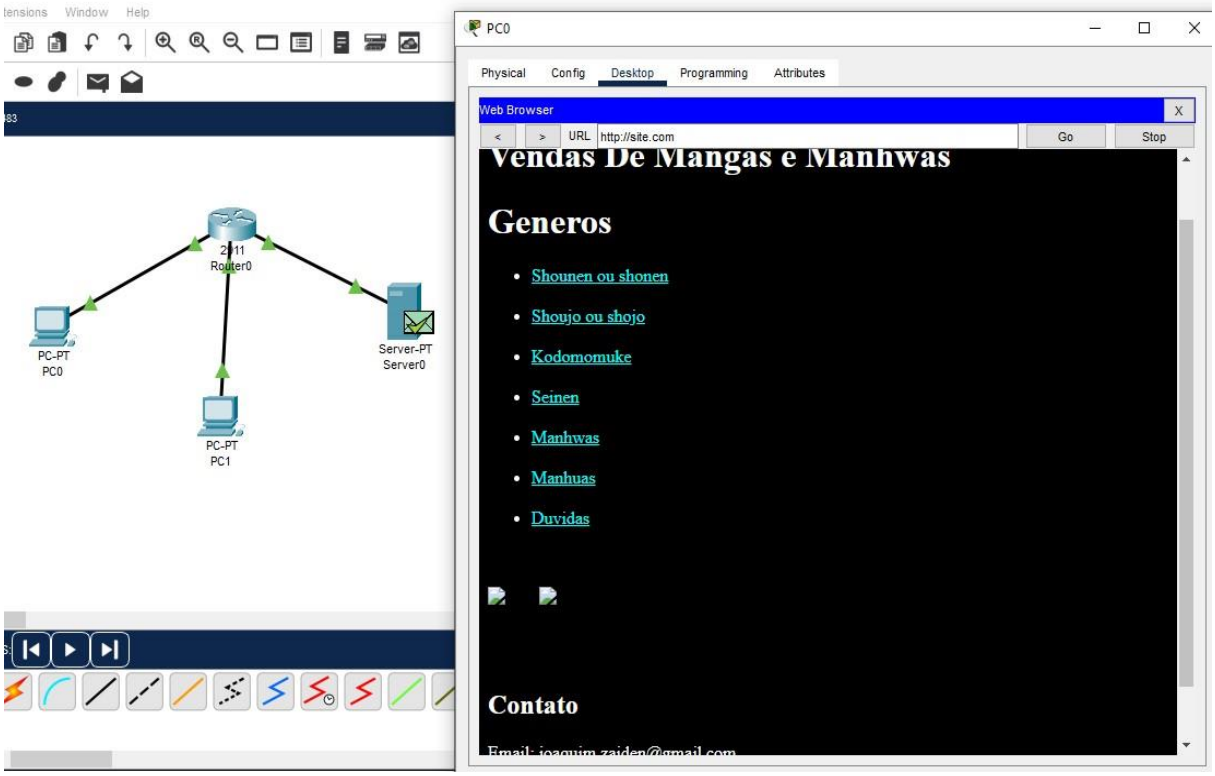
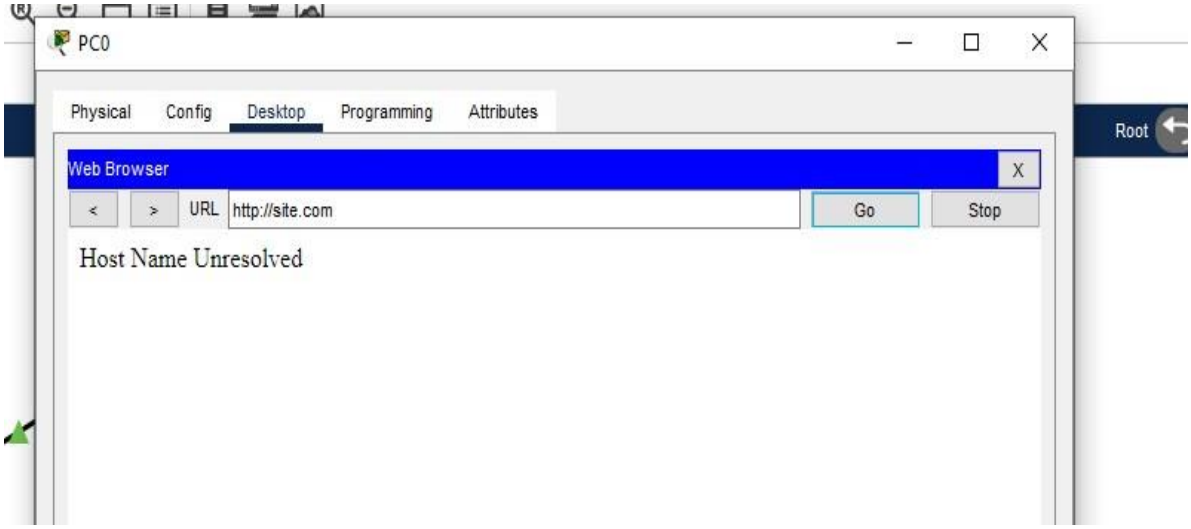






O que muda se o DNS estiver fora do ar?

O site não carregará, pois o nome não poderá ser resolvido para IP.



- O navegador depende da resolução DNS para converter site.com em 192.168.1.100.

- Com o DNS inativo, essa conversão falha.

- Mesmo que o servidor web esteja ativo, o navegador não consegue prosseguir sem o IP resolvido.