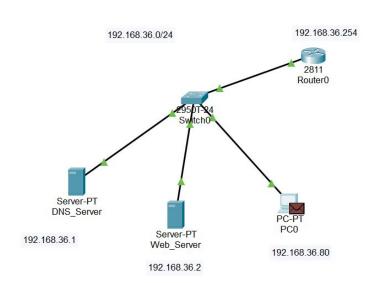
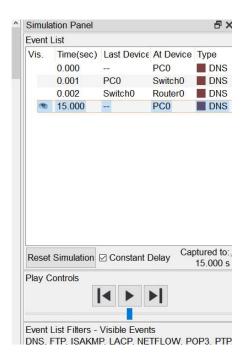
Bruno Alexandre Ferreira Pinto Teixeira

a2019100036

Configure no router a possibilidade de chegar por nome às outras máquinas da rede quando está nesse equipamento

```
Router(config) #ip host DNS_SERVER 192.168.36.1
Router(config) #ip host WEB_SERVER 192.168.36.2
Router(config) #ip host PC0 192.168.36.80
Router(config) #do wr
Building configuration...
```





Pergunta 1 explicação

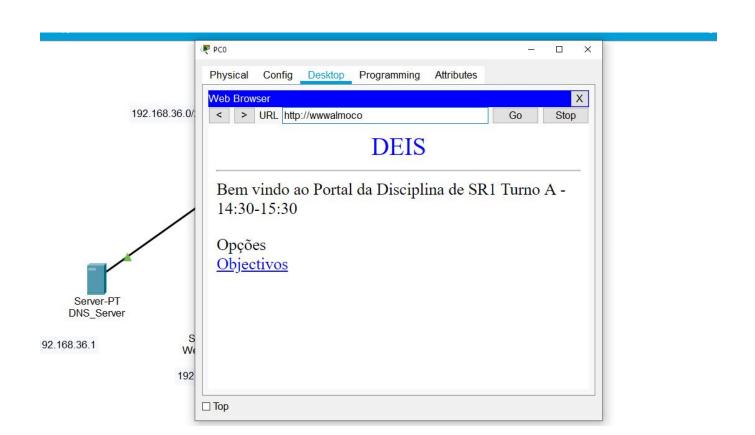
Neste caso o PC0 se quiser chegar ao DNS_SERVER pelo nome dele, não é suficiente ter o comando "ip host …" no router uma vez que isso é apenas um alias e não o serviço DNS em si.

Logo o PC0 vai pingar o DNS_SERVER e envia esse pedido para o Router0 no entanto o mesmo não reconhece esse nome porque tem apenas um alias

```
C:\>ping dns server
Pinging 192.168.36.1 with 32 bytes of data:
Reply from 192.168.36.1: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.36.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping web server
Pinging 192.168.36.2 with 32 bytes of data:
Reply from 192.168.36.2: bytes=32 time<1ms TTL=128
Reply from 192.168.36.2: bytes=32 time=1ms TTL=128
Reply from 192.168.36.2: bytes=32 time<1ms TTL=128
Reply from 192.168.36.2: bytes=32 time=1ms TTL=128
Ping statistics for 192.168.36.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms
C: \>
```

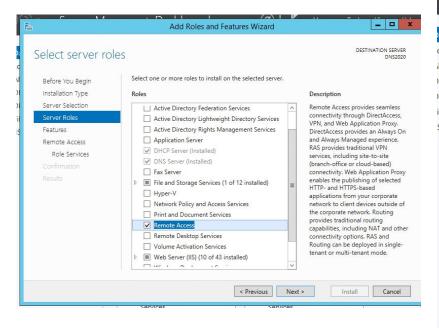
```
C:\>ping web server
Pinging 192.168.36.2 with 32 bytes of data:
Reply from 192.168.36.2: bytes=32 time<1ms TTL=128
Reply from 192.168.36.2: bytes=32 time=1ms TTL=128
Reply from 192.168.36.2: bytes=32 time<1ms TTL=128
Reply from 192.168.36.2: bytes=32 time=1ms TTL=128
Ping statistics for 192.168.36.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>ping wwwalmoco
Pinging 192.168.36.2 with 32 bytes of data:
Reply from 192.168.36.2: bytes=32 time<1ms TTL=128
Reply from 192.168.36.2: bytes=32 time=1ms TTL=128
Reply from 192.168.36.2: bytes=32 time=1ms TTL=128
Reply from 192.168.36.2: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.36.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>
```

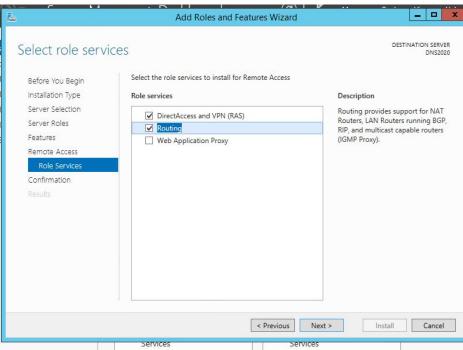
Do PC0 ao wwwalmoco

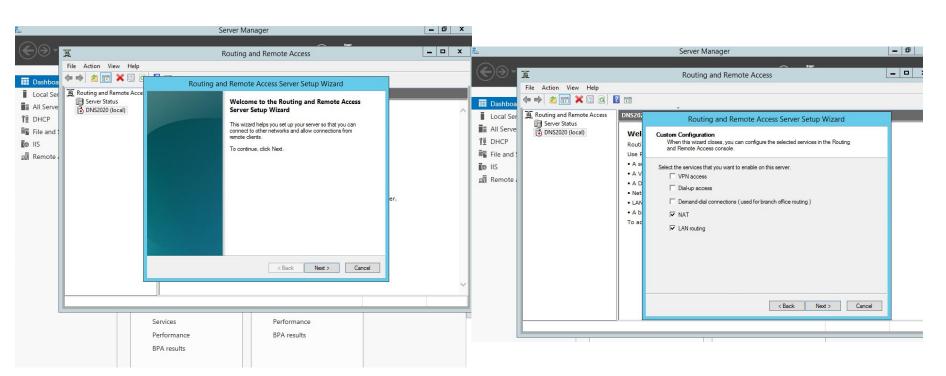


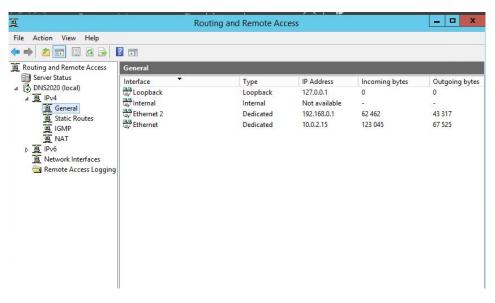
Ping do router ao wwwalmoco

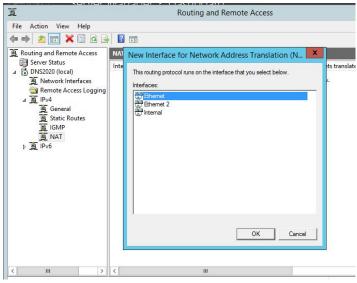
```
Router(config) #do ping wwwalmoco
  Translating "wwwalmoco"...domain server (192.168.36.1)
  Type escape sequence to abort.
  Sending 5, 100-byte ICMP Echos to 192.168.36.2, timeout is
  2 seconds:
  . . . . . .
  Success rate is 80 percent (4/5), round-trip min/avg/max =
  0/0/1 \text{ ms}
  Router(config)#
 Ctrl+F6 to exit CLI focus
                                                             Paste
                                                     Copy
Ton
```

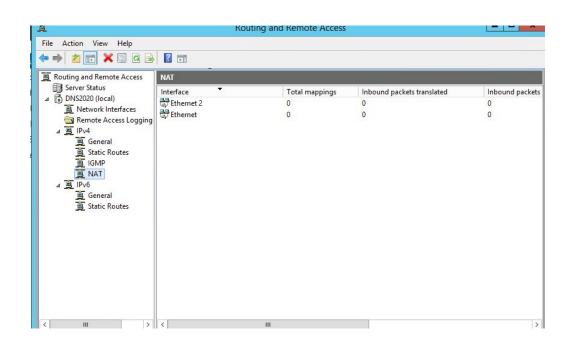




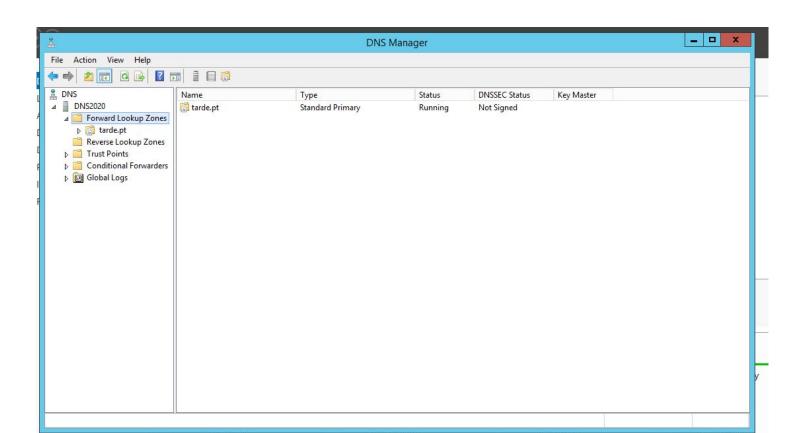


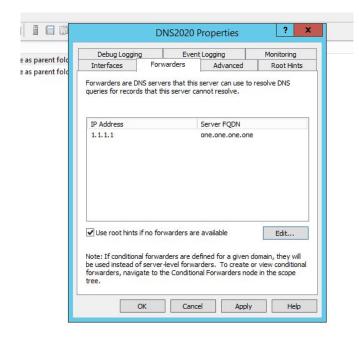


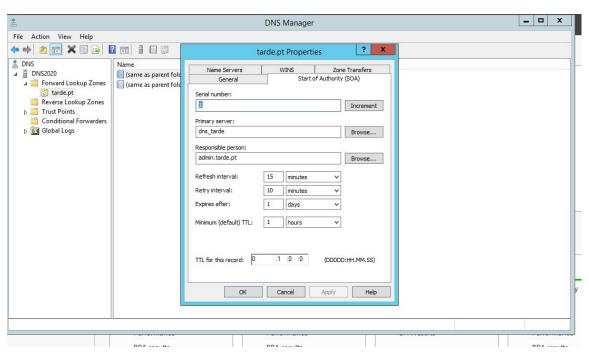


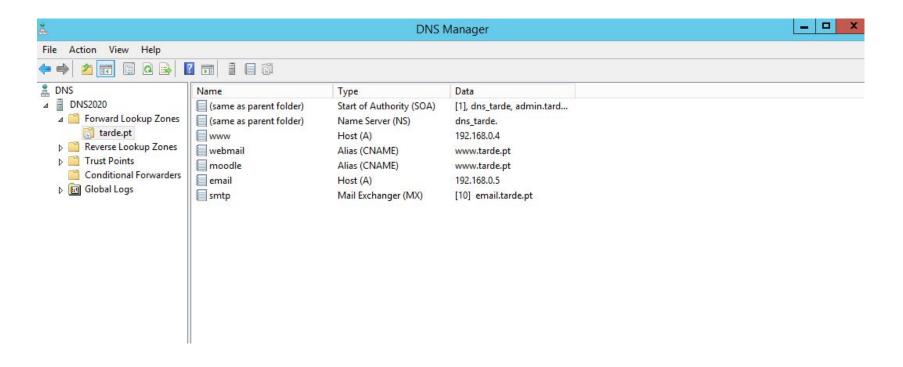


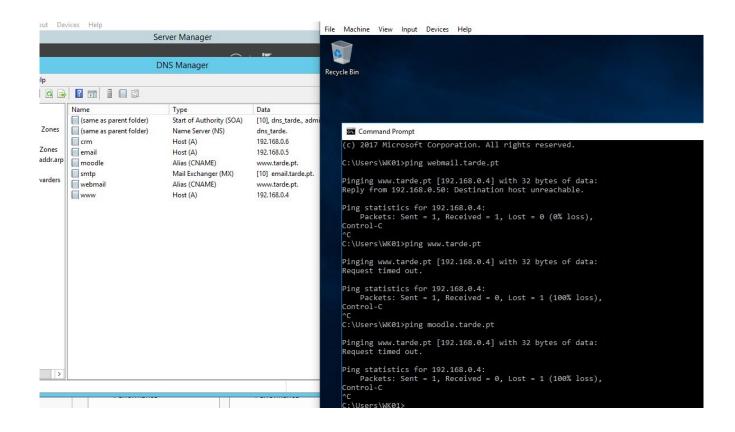
falta aqui o print do cliente a pingar o isec, não consegui tirar devido a erros na maquina virtual

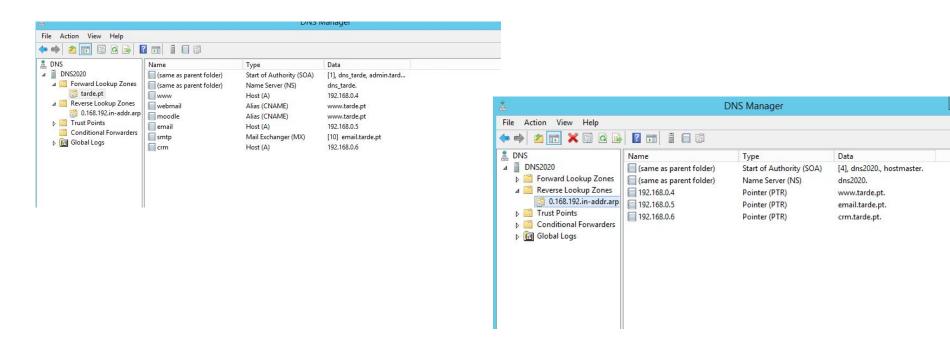












```
Command Prompt - nslookup
C:\Users\WK01>nslookup
Default Server: UnKnown
Address: 192.168.0.1
> set q=ptr
> crm.tarde.pt
Server: UnKnown
Address: 192.168.0.1
tarde.pt
       primary name server = dns tarde
       responsible mail addr = admin.tarde.pt
       serial = 10
       refresh = 900 (15 mins)
       retry = 600 (10 mins)
       expire = 86400 (1 day)
       default TTL = 3600 (1 hour)
> webmail.tarde.pt
Server: UnKnown
Address: 192.168.0.1
webmail.tarde.pt
                       canonical name = www.tarde.pt
```

```
set q=A
> www.isec.pt
Server: UnKnown
Address: 192.168.0.1
                                                       > set q=SOA
Non-authoritative answer:
                                                       > abola.pt
Name:
         www.isec.pt
                                                       Server: UnKnown
Address: 193.137.78.72
                                                       Address: 192.168.0.1
                                                       Non-authoritative answer:
                                                       abola.pt
                                                              primary name server = ns1.novis.pt
                                                              responsible mail addr = registrar.nos.pt
                                                              serial = 2021011901
                                                              refresh = 28800 (8 hours)
                                                              retry = 7200 (2 hours)
                                                              expire = 1209600 (14 days)
                                                              default TTL = 3600 (1 hour)
                                                       ns1.novis.pt
                                                                      internet address = 194.79.69.129
```