



Fundamentos de Internet das Coisas

Atividade Formativa – Serviço de Rede DNS

Gabarito

Semana 4



Gabarito Atividade 1

```
pucpr@FIOT-VN:~$ nslookup
> www.gmail.com
Server:      127.0.0.53
Address:     127.0.0.53#53

Non-authoritative answer:
Name:   www.gmail.com
Address: 142.251.128.101
Name:   www.gmail.com
Address: 2800:3f0:4001:82b::2005
> smtp.google.com
Server:      127.0.0.53
Address:     127.0.0.53#53

Non-authoritative answer:
Name:   smtp.google.com
Address: 142.250.0.27
Name:   smtp.google.com
Address: 142.250.0.26
Name:   smtp.google.com
Address: 172.217.192.27
Name:   smtp.google.com
Address: 172.217.192.26
Name:   smtp.google.com
Address: 64.233.190.27
Name:   smtp.google.com
Address: 2800:3f0:4003:c03::1a
Name:   smtp.google.com
Address: 2800:3f0:4003:c02::1b
Name:   smtp.google.com
Address: 2800:3f0:4003:c02::1a
Name:   smtp.google.com
Address: 2800:3f0:4003:c01::1b
> googlemail.l.google.com
Server:      127.0.0.53
Address:     127.0.0.53#53

Non-authoritative answer:
Name:   googlemail.l.google.com
Address: 142.251.128.5
Name:   googlemail.l.google.com
Address: 2800:3f0:4001:82b::2005
> set debug
> www.gmail.com
Server:      127.0.0.53
Address:     127.0.0.53#53

-----
QUESTIONS:
  www.gmail.com, type = A, class = IN
ANSWERS:
-> www.gmail.com
  internet address = 142.251.128.101
  ttl = 1
AUTHORITY RECORDS:
ADDITIONAL RECORDS:
-----
Non-authoritative answer:
Name:   www.gmail.com
Address: 142.251.128.101
-----
QUESTIONS:
  www.gmail.com, type = AAAA, class = IN
ANSWERS:
-> www.gmail.com
  has AAAA address 2800:3f0:4001:82b::2005
  ttl = 1
AUTHORITY RECORDS:
ADDITIONAL RECORDS:
-----
Name:   www.gmail.com
Address: 2800:3f0:4001:82b::2005
> set type=CNAME
> www.gmail.com
Server:      127.0.0.53
Address:     127.0.0.53#53

-----
QUESTIONS:
  www.gmail.com, type = CNAME, class = IN
ANSWERS:
AUTHORITY RECORDS:
ADDITIONAL RECORDS:
-----
Non-authoritative answer:
*** Can't find www.gmail.com: No answer

Authoritative answers can be found from:
> =
```



- CNAME: este é o nome canônico. Ele mapeia um nome de domínio alias para outro nome de domínio.

Gabarito Atividade 2

```
pucpr@FIOT-VM: ~  
pucpr@FIOT-VM:~$ python  
Python 2.7.18 (default, Jul 1 2022, 12:27:04)  
[GCC 9.4.0] on linux2  
Type "help", "copyright", "credits" or "license" for more information.  
>>> import socket  
>>> socket.gethostbyname("google.com")  
'142.251.132.46'  
>>> socket.gethostbyname("www.pucpr.br")  
'104.18.10.132'  
>>> socket.getfqdn("8.8.8.8")  
'dns.google'  
>>> socket.gethostbyname("www.gmail.com")  
'142.251.128.101'  
>>> socket.gethostbyname("dns.google.com")  
'8.8.8.8'  
>>>
```



PROFESSOR-AUTOR
Adilson Galiano Filho



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