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LABORATÓRIO 6

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CAMADA DE APLICAÇÃO: COLOCANDO NO "AR" APLICAÇÕES SERVIDORAS

1.0- Servidor SSH

1.1- Recorte a tela do Wireshark, filtrando os pacotes do ssh. Mostre o encapsulamento de pacotes de aplicação e seu posicionamento na estrutura de pacotes.

■ s	sh				
No.	Time	Source	Destination	Protocol	ol Length Info
	4 0.387279	10.0.9.10	10.0.8.20	SSH	166 Server: Encrypted packet (len=100)
	16 1.411948	10.0.9.10	10.0.8.20	SSH	166 Server: Encrypted packet (len=100)
	20 2.435702	10.0.9.10	10.0.8.20	SSH	166 Server: Encrypted packet (len=100)
	24 3.459944	10.0.9.10	10.0.8.20	SSH	166 Server: Encrypted packet (len=100)
	29 4.487453	10.0.9.10	10.0.8.20	SSH	166 Server: Encrypted packet (len=100)
	33 5.507946	10.0.9.10	10.0.8.20	SSH	166 Server: Encrypted packet (len=100)
	39 6.531975	10.0.9.10	10.0.8.20	SSH	166 Server: Encrypted packet (len=100)
	43 7.555717	10.0.9.10	10.0.8.20	SSH	166 Server: Encrypted packet (len=100)
	47 8.579768	10.0.9.10	10.0.8.20	SSH	166 Server: Encrypted packet (len=100)
	51 9.603969	10.0.9.10	10.0.8.20	SSH	166 Server: Encrypted packet (len=100)
	53 10.003794	10.0.8.20	10.0.9.10	SSH	102 Client: Encrypted packet (len=36)
	54 10.004037	10.0.9.10	10.0.8.20	SSH	102 Server: Encrypted packet (len=36)
	56 10.004258	10.0.9.10	10.0.8.20	SSH	262 Server: Encrypted packet (len=196)
	58 10.004877	10.0.9.10	10.0.8.20	SSH	126 Server: Encrypted packet (len=60)

1.2- Recorte a tela do Wireshark, filtrando os pacotes do icmp. Comprovando que os pacotes do ping estão passando pelo router 2

icmp													
No.	Time	Source	Destination	Protocol	Length Info								
→	2 0.387086	10.0.9.10	10.0.8.20	ICMP	98 Echo	(ping)	request	id=0x0003,	seq=10/2560,	ttl=63	(reply in 3)		
4	3 0.387146	10.0.8.20	10.0.9.10	ICMP	98 Echo	(ping)	reply	id=0x0003,	seq=10/2560,	ttl=61	(request in 2)		
	14 1.411473	10.0.9.10	10.0.8.20	ICMP	98 Echo	(ping)	request	id=0x0003,	seq=11/2816,	ttl=63	(reply in 15)		
	15 1.411611	10.0.8.20	10.0.9.10	ICMP	98 Echo	(ping)	reply	id=0x0003,	seq=11/2816,	ttl=61	(request in 14)		
	18 2.435213	10.0.9.10	10.0.8.20	ICMP	98 Echo	(ping)	request	id=0x0003,	seq=12/3072,	ttl=63	(reply in 19)		
	19 2.435388	10.0.8.20	10.0.9.10	ICMP	98 Echo	(ping)	reply	id=0x0003,	seq=12/3072,	ttl=61	(request in 18)		
	22 3.459453	10.0.9.10	10.0.8.20	ICMP	98 Echo	(ping)	request	id=0x0003,	seq=13/3328,	ttl=63	(reply in 23)		
	23 3.459603	10.0.8.20	10.0.9.10	ICMP	98 Echo	(ping)	reply	id=0x0003,	seq=13/3328,	ttl=61	(request in 22)		
	27 4.487121	10.0.9.10	10.0.8.20	ICMP	98 Echo	(ping)	request	id=0x0003,	seq=14/3584,	ttl=63	(reply in 28)		
	28 4.487224	10.0.8.20	10.0.9.10	ICMP	98 Echo	(ping)	reply	id=0x0003,	seq=14/3584,	ttl=61	(request in 27)		
	31 5.507461	10.0.9.10	10.0.8.20	ICMP			request	id=0x0003,	seq=15/3840,	ttl=63	(reply in 32)		
	32 5.507600	10.0.8.20	10.0.9.10	ICMP	98 Echo	(ping)	reply	id=0x0003,	seq=15/3840,	ttl=61	(request in 31)		
	37 6.531451	10.0.9.10	10.0.8.20	ICMP	98 Echo	(ping)	request	id=0x0003,	seq=16/4096,	ttl=63	(reply in 38)		
	38 6.531603	10.0.8.20	10.0.9.10	ICMP	98 Echo	(ping)	reply	id=0x0003,	seq=16/4096,	ttl=61	(request in 37)		
	41 7.555196	10.0.9.10	10.0.8.20	ICMP	98 Echo	(ping)	request	id=0x0003,	seq=17/4352,	ttl=63	(reply in 42)		
	42 7.555363	10.0.8.20	10.0.9.10	ICMP	98 Echo	(ping)	reply	id=0x0003,	seq=17/4352,	ttl=61	(request in 41)		
	45 8.579241	10.0.9.10	10.0.8.20	ICMP	98 Echo	(ping)	request	id=0x0003,	seq=18/4608,	ttl=63	(reply in 46)		
	46 8.579450	10.0.8.20	10.0.9.10	ICMP	98 Echo	(ping)	reply	id=0x0003,	seq=18/4608,	ttl=61	(request in 45)		
	49 9.603489	10.0.9.10	10.0.8.20	ICMP	98 Echo	(ping)	request	id=0x0003,	seq=19/4864,	ttl=63	(reply in 50)		
L	50 9.603636	10.0.8.20	10.0.9.10	ICMP	98 Echo	(ping)	reply	id=0x0003,	seq=19/4864,	ttl=61	(request in 49)		

2.0- Servidor DNS

2.4- ping casa.redes.edu.br

```
root@ssh:/# echo nameserver 10.0.6.10 >> /etc/resolv.conf
root@ssh:/# ping casa.redes.edu.br
PING casa.redes.edu.br (10.0.8.21) 56(84) bytes of data.
64 bytes from 10.0.8.21 (10.0.8.21): icmp_seq=1 ttl=60 time=0.088 ms
64 bytes from 10.0.8.21 (10.0.8.21): icmp_seq=2 ttl=60 time=0.108 ms
64 bytes from 10.0.8.21 (10.0.8.21): icmp_seq=3 ttl=60 time=0.128 ms
^C
--- casa.redes.edu.br ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2055ms
rtt min/avg/max/mdev = 0.088/0.108/0.128/0.016 ms
root@ssh:/#
```

2.5-dig apelido.redes.edu.br

```
root@DNS_Server:/etc/bind# dig apelido.redes.edu.br
; <<>> DiG 9.18.33-1~deb12u2-Debian <<>> apelido.redes.edu.br
;; qlobal options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 29638
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
; COOKIE: f3e399853406f8c00100000068d6f3589d44c7d772e2e4c9 (qood)
;; QUESTION SECTION:
                              ΙN
;apelido.redes.edu.br.
;; ANSWER SECTION:
apelido.redes.edu.br. 86400 IN CNAME mail.redes.edu.br.
                                             10.0.6.10
mail.redes.edu.br.
                      86400 IN
;; Query time: 0 msec
;; SERVER: 10.0.6.10#53(10.0.6.10) (UDP)
;; WHEN: Fri Sep 26 20:11:04 UTC 2025
;; MSG SIZE rcvd: 112
```

- Qual foi o resultado obtido?

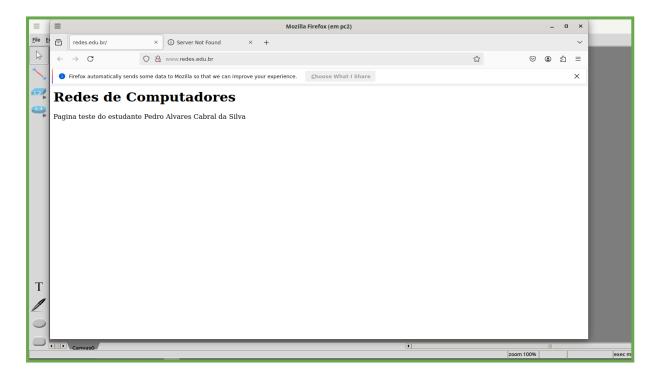
Aqui nos mostra, como nos definimos, apelido.redes.edu.br sendo um CNAME para mail.redes.edu.br

- Qual o significado?

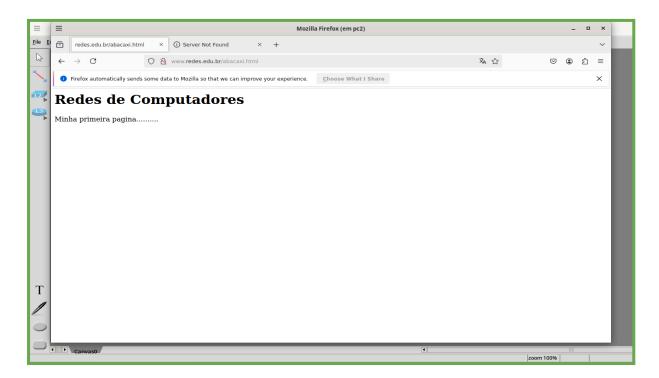
Que está configurado computador que tente se conectar ao apelido.redes.edu.br seja, na verdade, redirecionado para o mesmo servidor que responde por mail.redes.edu.br (o servidor com IP 10.0.6.10).

3.0 Servidor WEB

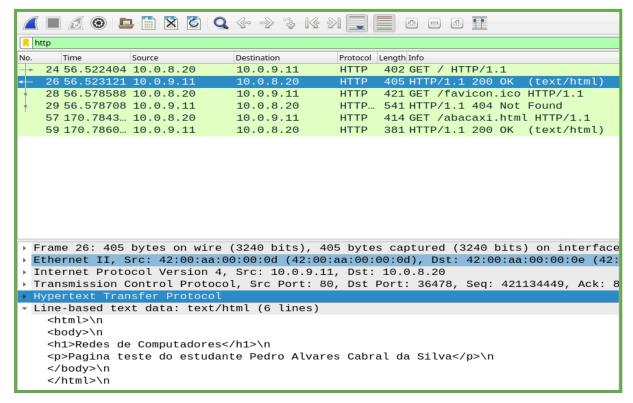
nano index.html



nano abacaxi.html



Wireshark conteúdo de www.redes.edu.br.



Wireshark conteúdo de www.redes.edu.br/abacaxi.html

