

Cenário:

Usuário com poderes de editar o roteador



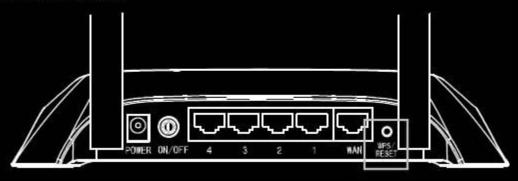
Mas como?



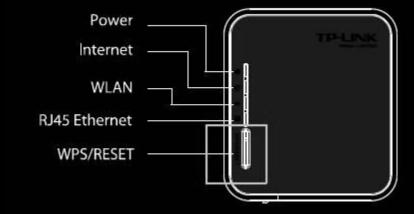
Acesso físico => Game Over



The Rear Panel



The Front Panel

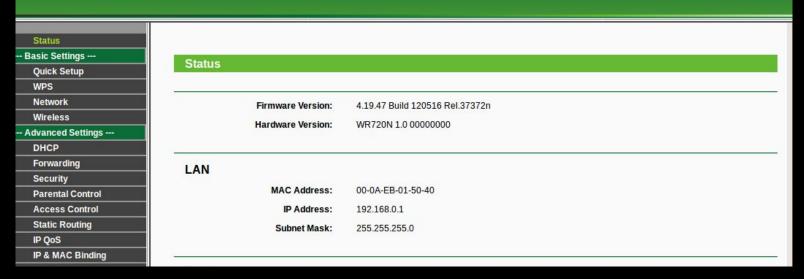




Sem acesso físico? Sem problema!



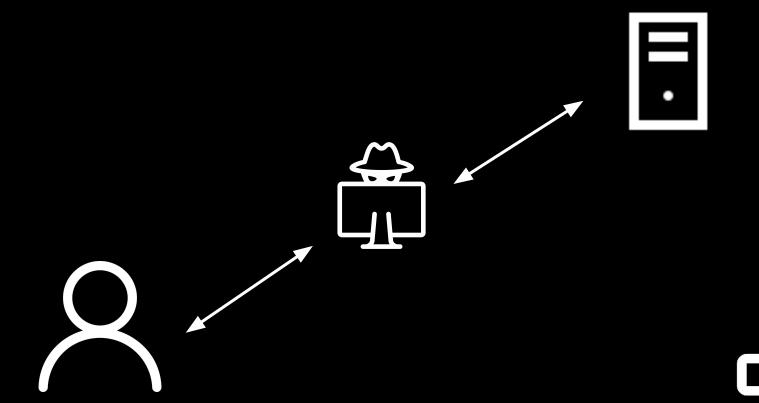
TP-LINK®



admin, admin.



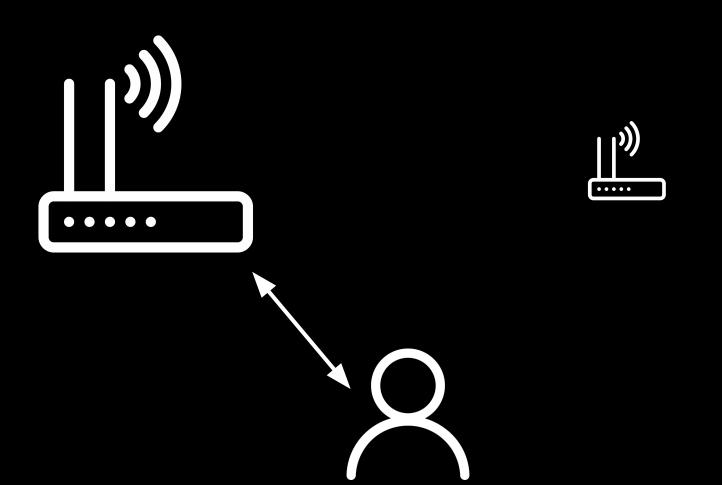
Man-In-The-Middle



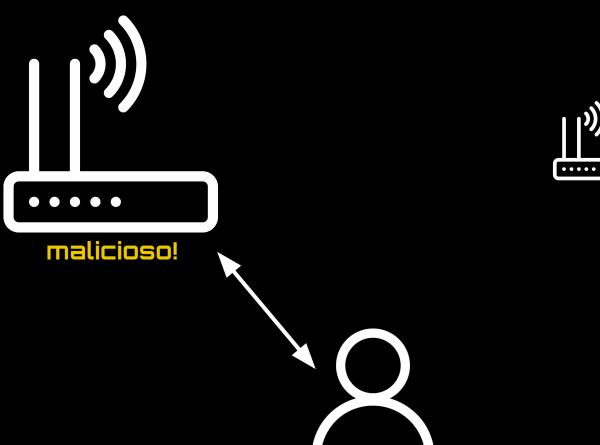
Como inserir alguém no meio...

em uma comunicação wireless?





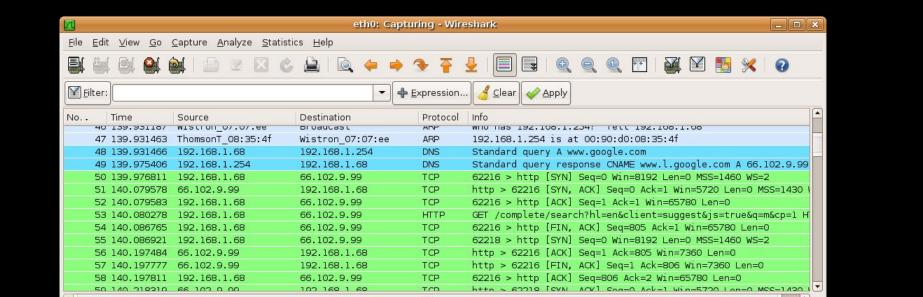








Mas o que dá pra fazer?



29 38 eb 0e 08 06 00 01 ff ff ff ff ff oo oc 08 00 06 04 00 01 00 0c 29 38 eb 0e c0 a8 39 80

D Ethernet II, Src: Vmware_38:eb:0e (00:0c:29:38:eb:0e), Dst: Broadcast (ff:ff:ff:ff:ff)

Frame 1 (42 bytes on wire, 42 bytes captured)

Address Resolution Protocol (request)

00 00 00 00 00 00 c0 a8 9 .

Profile: Default eth0: eth0:

Case: USPnet







Usuário:	
Senha:	
	Continue

Antes de continuar, verifique se esta página está assinada. Para saber como verificar, clique <u>aqui</u>.

Para informações sobre este serviço acesse www.semfio.usp.br





Usuário: Senha:

Continue

Antes de continuar, verifique se esta página está assinada. Para saber como verificar, clique <u>aqui</u>.

Para informações sobre este serviço acesse www.semfio.usp.br (Ninguém nem sabia o que isso queria dizer)



- 1. Copiar a página de login da USPnet
- 2. Começar um roteador no próprio computador
 - 3. Esperar pessoas próximas a você se conectarem na USPnet
 - 4. ???
 - 5. Profit



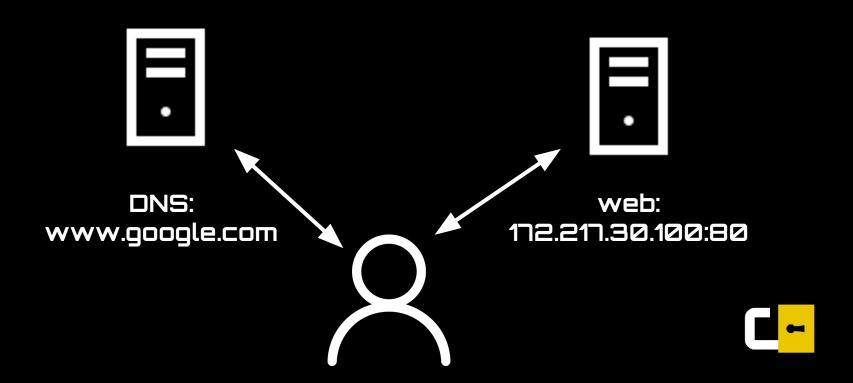
Seria inútil se as pessoas utilizassem senhas diferentes em lugares diferentes



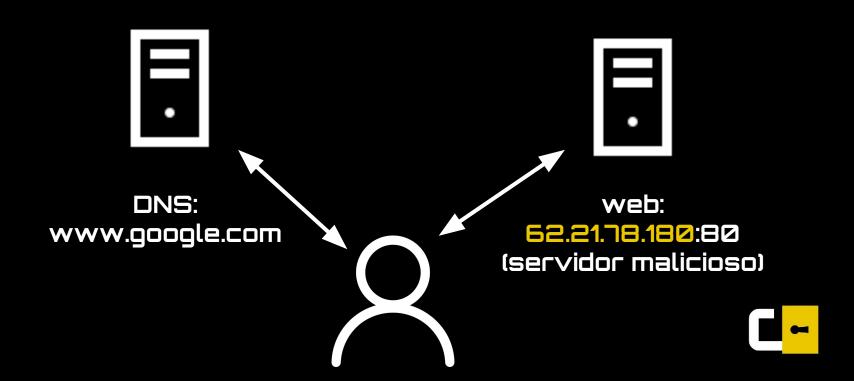
DNS Spoofing



DNS Spoofing



DNS Spoofing



Configuração automática de DNS pelo roteador





You're two minutes away from browsing a faster, more private internet.

INSTALL

INFO

ARP Poisoning

(Address Resolution Protocol)



ARP

IP-1	MAC1
IP-2	MAC2
IP-3	МАСЗ

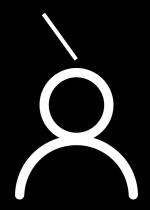
meen etn	.addr==00:15:5d:	00:05:06 && eth.addr==ff:ff:ff:ff:	ff:ff Expression	Clear App	ly Save XBOX HTTP traffice 106 retransr	ition SMB
	Time	Source	Destination			n flight Info
		0(172.20.0.31	Broadcast	ARP	60	who has 172.20.13.122? Tell 172.20.0.31
		0(172.20.0.31	Broadcast	ARP	60	who has 172.20.13.122? Tell 172.20.0.31
		0(172.20.0.31	Broadcast	ARP	60	Who has 172.20.13.122? Tell 172.20.0.31
		0(172.20.0.31	Broadcast	ARP	60	who has 172.20.13.122? Tell 172.20.0.31
		0(172.20.0.31	Broadcast	ARP	60	Who has 172.20.13.122? Tell 172.20.0.31
		0(172.20.0.31	Broadcast	ARP	60	who has 172.20.13.122? Tell 172.20.0.31
		0(172.20.0.31	Broadcast	ARP	60	who has 172.20.13.122? Tell 172.20.0.31
		0(172.20.0.31	Broadcast	ARP	60	Who has 172.20.13.122? Tell 172.20.0.31
		0(172.20.0.31	Broadcast	ARP	60	who has 172.20.13.122? Tell 172.20.0.31
		0(172.20.0.31	Broadcast	ARP	60	who has 172.20.13.122? Tell 172.20.0.31
20277		0(172.20.0.31	Broadcast	ARP	60	who has 172.20.13.122? Tell 172.20.0.31
		0(172.20.0.31	Broadcast	ARP	60	who has 172.20.13.122? Tell 172.20.0.31
		0(172.20.0.31	Broadcast	ARP	60	who has 172.20.13.122? Tell 172.20.0.31
65538	224.7537690	0(172.20.0.31	Broadcast	ARP	60	who has 172.20.13.122? Tell 172.20.0.31
		0(172.20.0.31	Broadcast	ARP	60	who has 172.20.13.122? Tell 172.20.0.31
66258	230.2533640	0(172.20.0.31	Broadcast	ARP	60	who has 172.20.13.122? Tell 172.20.0.31
66342	231.2534780	0(172.20.0.31	Broadcast	ARP	60	who has 172.20.13.122? Tell 172.20.0.31
66609	233.3556940	0(172.20.0.31	Broadcast	ARP	60	who has 172.20.13.122? Tell 172.20.0.31
66807	234.2536490	0(172.20.0.31	Broadcast	ARP	60	Who has 172.20.13.122? Tell 172.20.0.31
67092	235.2536070	0(172.20.0.31	Broadcast	ARP	60	who has 172.20.13.122? Tell 172.20.0.31
71200	239.3584610	0(172.20.0.31	Broadcast	ARP	60	who has 172.20.13.122? Tell 172.20.0.31
72350	240.2524810	0(172.20.0.31	Broadcast	ARP	60	who has 172.20.13.122? Tell 172.20.0.31
76216	243.3589610	0(172.20.0.31	Broadcast	ARP	60	Who has 172.20.13.122? Tell 172.20.0.31
76911	244.2535300	0(172.20.0.31	Broadcast	ARP	60	who has 172.20.13.122? Tell 172.20.0.31
						,
Frame	58615: 60 k	oytes on wire (480 bit	s), 60 bytes captured	(480 bits)	on interface 0	
Etherr	net II, Src:	172.20.0.31 (00:15:5	d:00:05:06), Dst: Broa	dcast (ff:	ff:ff:ff:ff:ff)	
Addres	ss Resolutio	on Protocol (request)				
				7		
	f ff ff ff f		06 08 06 00 01			
010 08	f ff ff ff f 8 00 06 04 0 0 00 00 00 0	00 01 00 15 5d 00 05 (06 ac 14 00 1f] z	•	

▶ 🌠 File: "C:\Users\Public\Documents\Captures\... | Packets: 132597 · Displayed: 3937 (3.0%) · Loa... | Profile: Default



Alguém sabe onde fica o roteador?



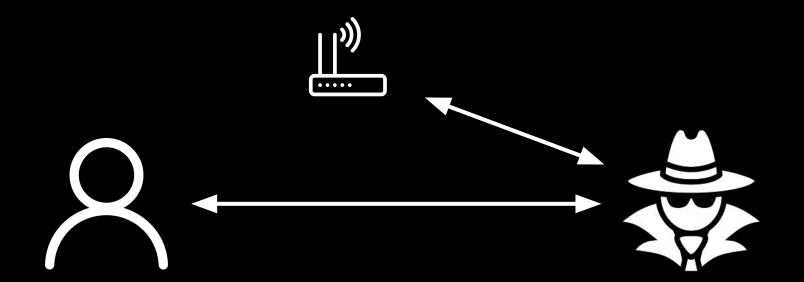












como se defender de tudo isso?







Conclusão:







Coloque uma senha de administrador boa no seu roteador.

Instale um verificador de ARP poisoning, como o ArpON

Tenha <mark>dupla certeza</mark> na Wi-Fi que você está conectando!

Configure você mesmo o seu DNS.

Obrigado!

