

Leaving Traces Online

Securing Yourself in the Modern World

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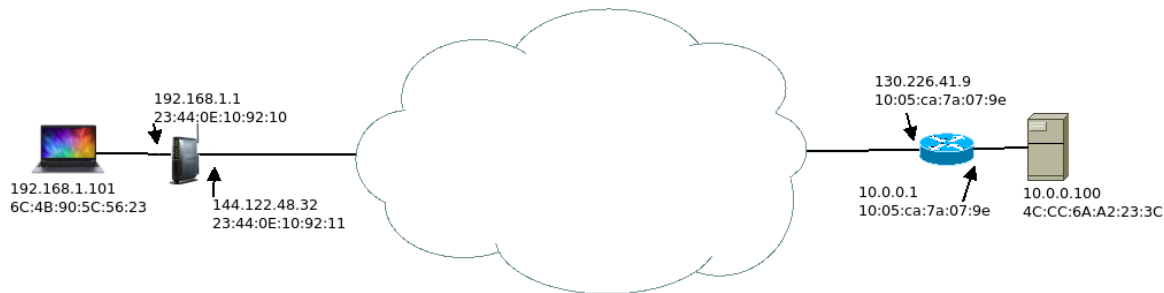
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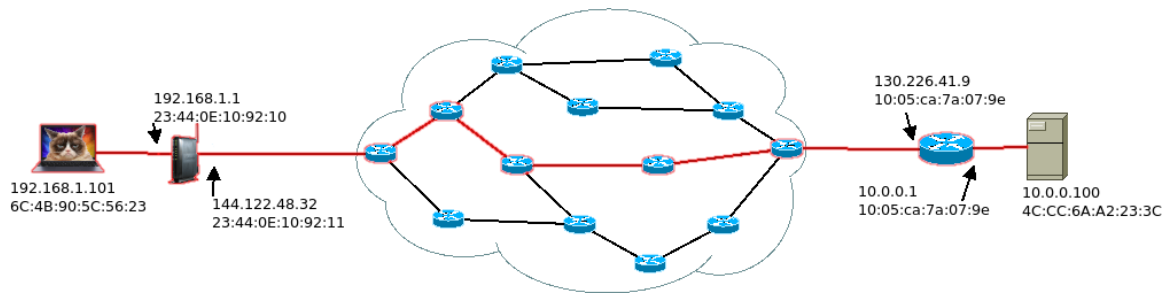
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Cat Video Here

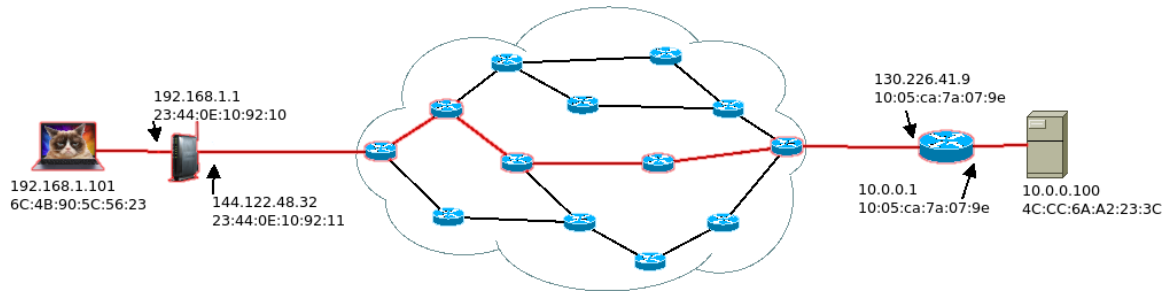
How Internet Works?



Your Actions Echo Through Eternity



Every Device Along the Way is a Possible Weakness



Your Device

It may be your computer, laptop, or cellphone...

- Browsing History
- Cookies from the websites
- Your Network addresses (MAC and IP)
- Configuration of your system...



192.168.1.101

6C:4B:90:5C:56:23

What Can Be Done About Your Device?

- USE A STRONG PASSWORD
- Update your software
- Delete Browsing History
- Disallow Cookies
- Don't Save Passwords in Browser
- Use Private Browsing



192.168.1.101
6C:4B:90:5C:56:23

Your Router

This is the device you host on your premises.

- Every Package You Send/Receive
- DNS queries
- Your and Target Servers' IP addresses
- ISP shenanigans...



What Can Be Done About Your Router?

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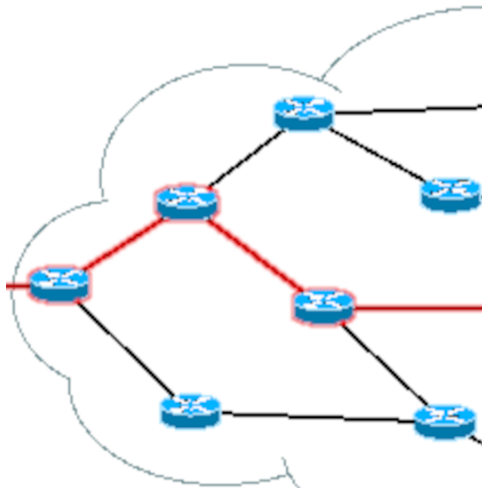
- Use Encrypted Protocols
- Keep the Device Updated
- Use Strong Passwords
- Disable Remote Administration



Other Routers

Controlled by others.

- Every Package You Send/Receive
- DNS queries
- Your and Target Servers' IP addresses



Trace Route Demo

What Can Be Done About Other Routers

Who are you worried about?

- VPN
- TOR Network



The Target Server

- Your IP address
- What you received
- What you sent
- Account Information
- Payment Information



What Can Be Done About The Target Server

- VPN
- Limit Linkable Data



Threat Models

Threat	Ex-girlfriend/boyfriend breaking into your email account and publicly releasing your correspondence with the My Little Pony fan club	Organized criminals breaking into your email account and sending spam using your identity	The Mossad doing Mossad things with your email account
Solution	Strong passwords	Strong passwords + common sense (don't click on unsolicited herbal Viagra ads that result in keyloggers and sorrow)	Magical amulets? Fake your own death, move into a submarine? YOU'RE STILL GONNA BE MOSSAD'ED UPON

(Source: James Mickens (2014) This World of Ours)