Security Vulnerabilities & Solutions

Heads Up!

R. Scott Granneman

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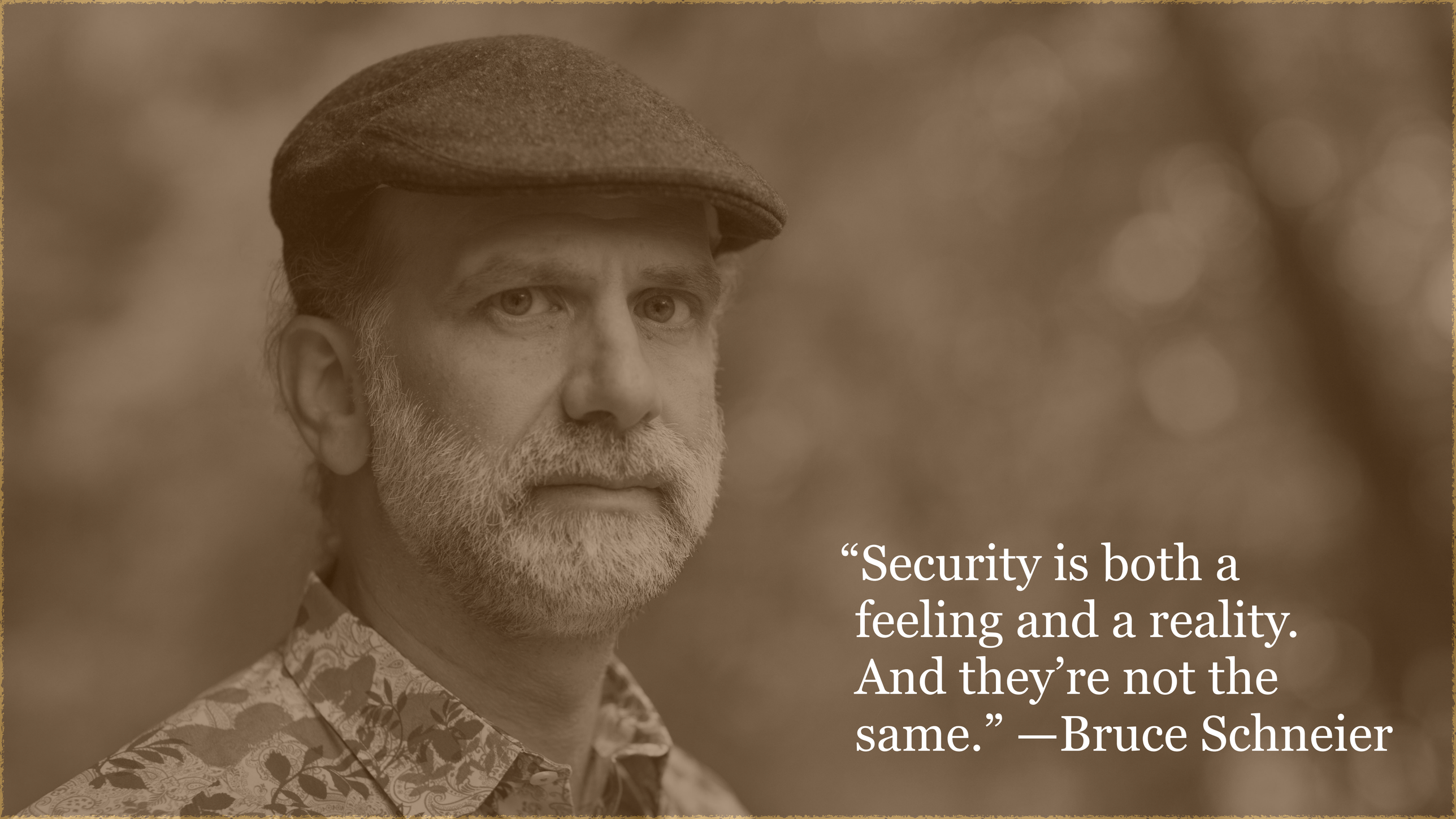
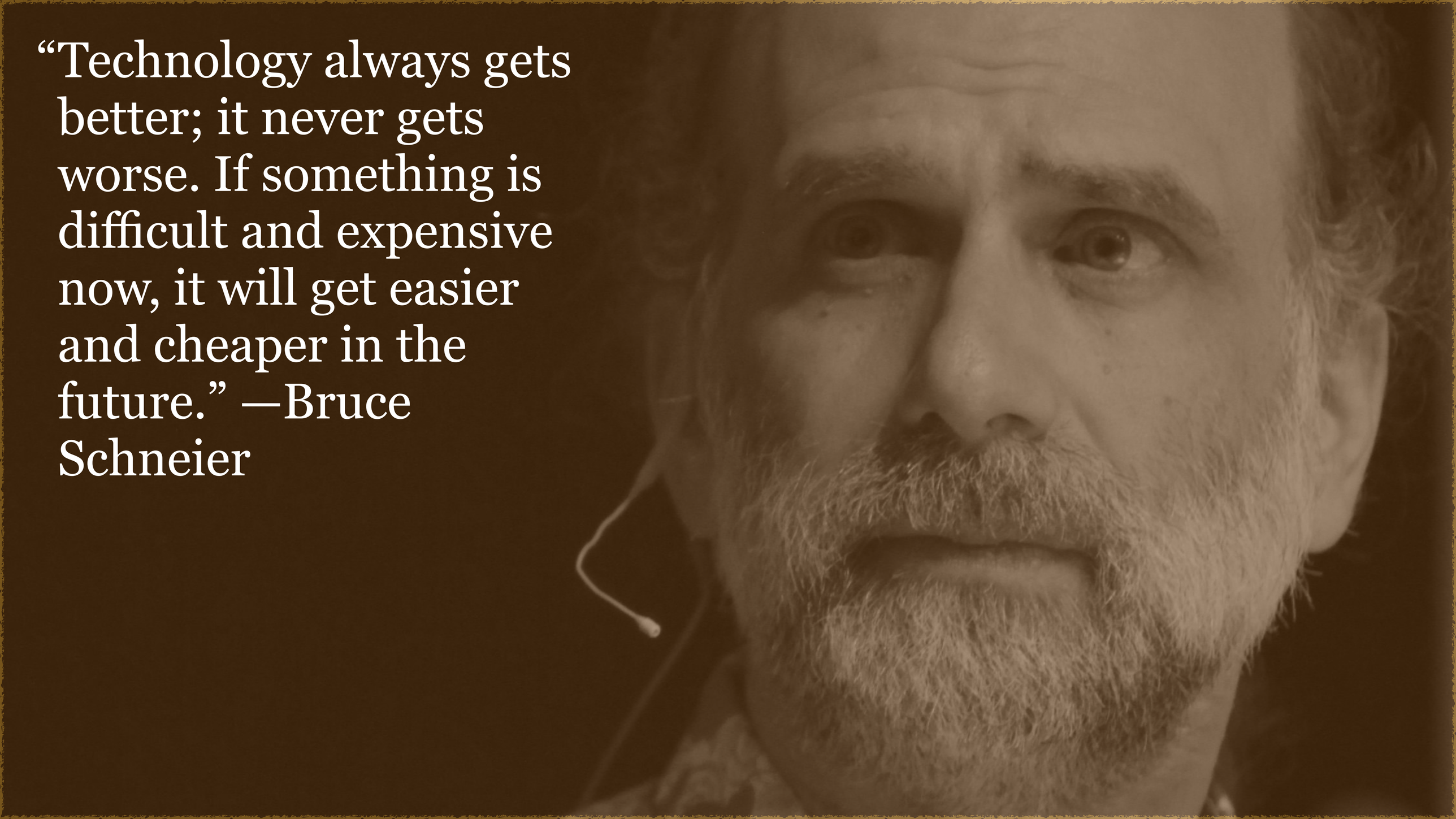

“Security is both a feeling and a reality. And they’re not the same.” —Bruce Schneier


“Technology always gets better; it never gets worse. If something is difficult and expensive now, it will get easier and cheaper in the future.” —Bruce Schneier

Security

What’s *security*?

“Security is the degree of resistance to, or protection from, harm. It applies to any vulnerable and valuable asset, such as a person, dwelling, community, nation, or organization. ” —Wikipedia

OSSTMM 3 – The Open Source Security Testing Methodology Manual:

> Security is a function of a separation. Either the separation between an asset and any threats exists or it does not. There are 3 logical and proactive ways to create this separation:
>
> 1. Move the asset to create a physical or logical barrier between it and the threats.
> 2. Change the threat to a harmless state.
> 3. Destroy the threat.

“Computer security, cybersecurity (cyber security), or information technology security (IT security) is the protection of computer systems and networks from information disclosure, theft of, or damage to their hardware, software, or electronic data, as well as from the disruption or misdirection of the services they provide.” —Wikipedia

“Privacy is the ability of an individual or group to seclude themselves, or information about themselves, and thereby express themselves selectively.”
—Wikipedia

Kinds of Security

IT-related security

- Communications
- Computer
- Internet
- Application
- Data
- Information (“unauthorized access, use, disclosure, disruption, modification, inspection, recording, or destruction of information”)
- Network
- Endpoint (connecting devices to networks)

Physical security

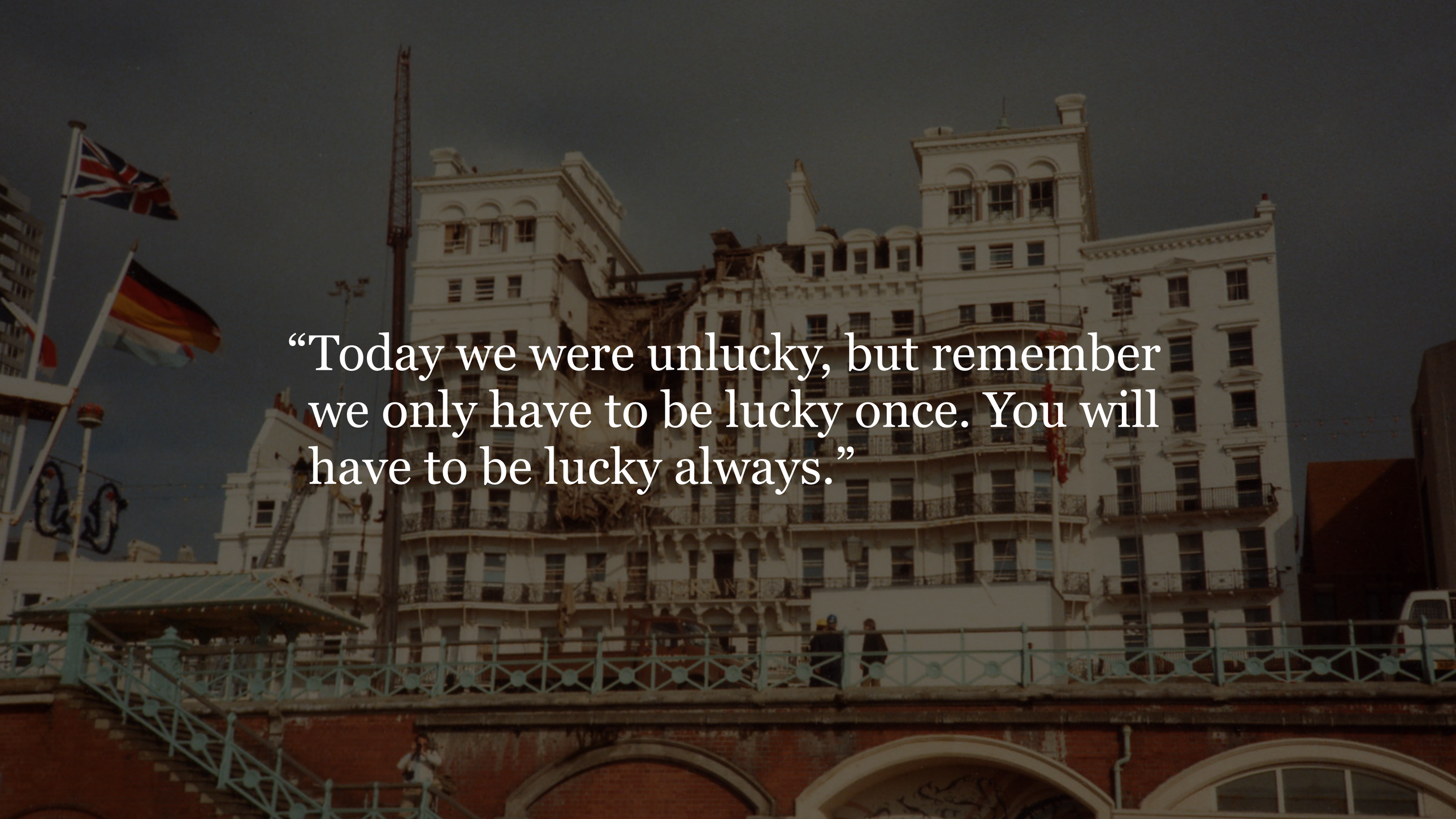
- Airport & transportation
- Corporate
- Food
- Home
- Infrastructure (electricity, roads, rail, hospitals, bridges, power plants, oil, water)
- Physical (facilities & equipment)
- Port/supply chain (transport & logistics of cargo)

Political security

- National (government)
- Public (citizens, organizations, institutions, communities)
- Homeland (natural disasters & man-made events)
- Internal (police & military)
- International (global, international organizations)
- Human (people-centered focus on development & human rights)

Thinking About Security

The Grand Hotel, Brighton, following an IRA bomb attack, 1984



“Today we were unlucky, but remember we only have to be lucky once. You will have to be lucky always.”

Humans are always the weakest link

Southampton Middle School in Virginia security policy states that doors may only be opened by office after visitors are vetted by a new $10,000 CCTV system

An ‘A’ student “opened the door for a woman he knew, who had her hands full”

Student given a one-day suspension for violating school policy

“And yet, what the school fails to understand is that the student was an even BETTER security system! The student has a heart, a brain and hands. This incredible carbon-based security system can open the door when that makes sense!” —Lenore Skenazy, Free Range Kids blog

Security is a *process*, not a product

CIA+

The C.I.A. triangle

» Confidentiality
» Integrity
» Availability

The C.I.A. triangle expanded

» Confidentiality
» Integrity
» Availability

» Privacy
» Identification
» Authentication
» Authorization
» Accountability

Access Control

Confidentiality

Only those with sufficient privileges may access specified information

Integrity

Ensures information is…

» Whole
» Complete
» Uncorrupted

Corruption can occur during…

» Compilation
» Storage
» Transmission

Availability

Information accessible to authorized users without interference or obstruction & in the required format

“Users” can be either people or computers

Privacy

Information is used only for purposes known to the data's owner

Identification

Ability to recognize individual users

User name, for example

Essential to establishing levels of access & authorization

Authentication

User proves their claimed identity

Password or picture ID, for example

3 ways to authenticate:

- Something you know
- Something you have
- Something you are

Authorization

After identity is authenticated, assures that the user has been authorized by the proper authority to access, update, or delete information

“What can I use? What can I do?”

Permissions on a computer, for instance

Accountability

Assurance that every action can be attributed back to a named person or an automated process

Tracking who did what; e.g., logging

Incidents

How can you tell if you have a security incident on your hands?

Possible indicators of a security incident

- Unfamiliar files
- Unknown programs or processes
- Unusual consumption of resources
- Unusual system crashes

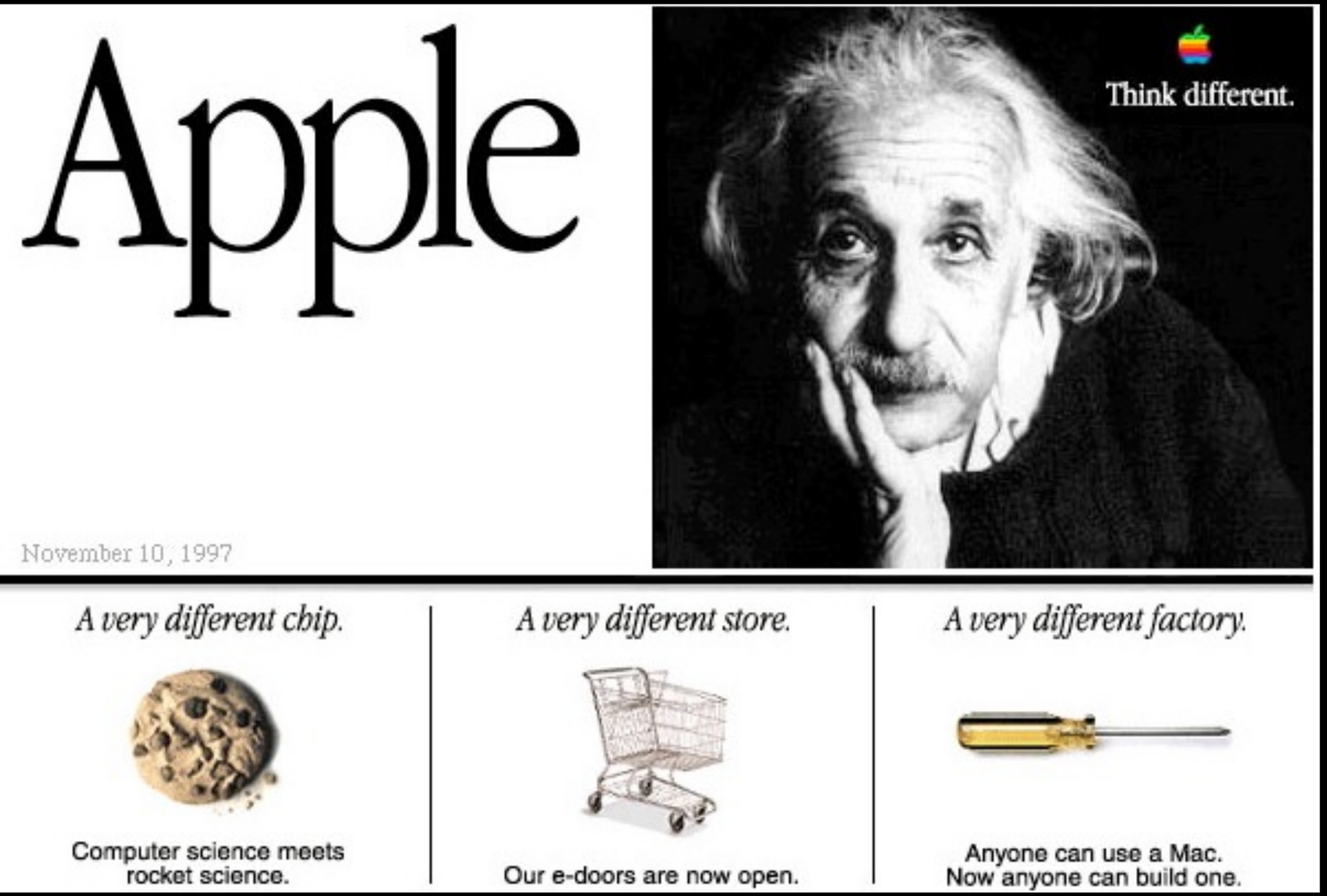
Probable indicators of a security incident

- Activities at weird times
- Presence of new user accounts
- Reported attacks
- Notification from security devices

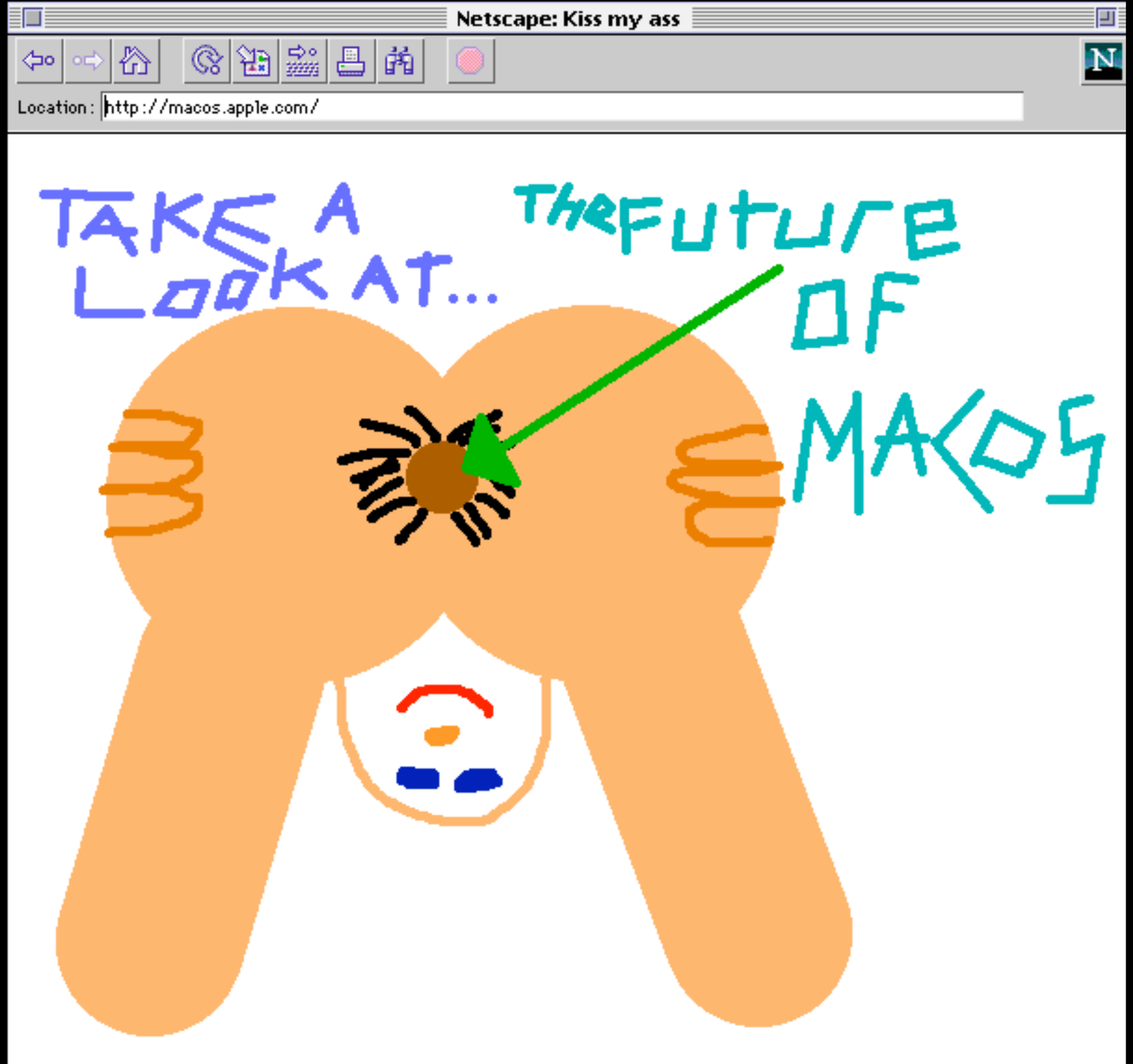
Definite indicators of a security incident

- Use of dormant accounts
- Abnormal changes to logs
- Presence of hacker tools
- Notifications by partner or peer
- Notification by hacker

Apple home page, 1997



Apple home page, 1997



Apple home page, 1997

Malware

People overuse the word “virus” to mean “something bad on a computer”

“*Malware*, short for *malicious software*, is any software used to disrupt computer operation, gather sensitive information, or gain access to private computer systems” —Wikipedia

Virus

Worm

Spyware

Trojan Horse

Rootkit

Ransomware

Virus

Self-replicating

Infects another program & uses that to spread

Alters the way a computer operates

PC: “114,000 known viruses for PCs.”

Mac: “PCs. But not Macs.”

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Mac: “PCs. But not Macs.”

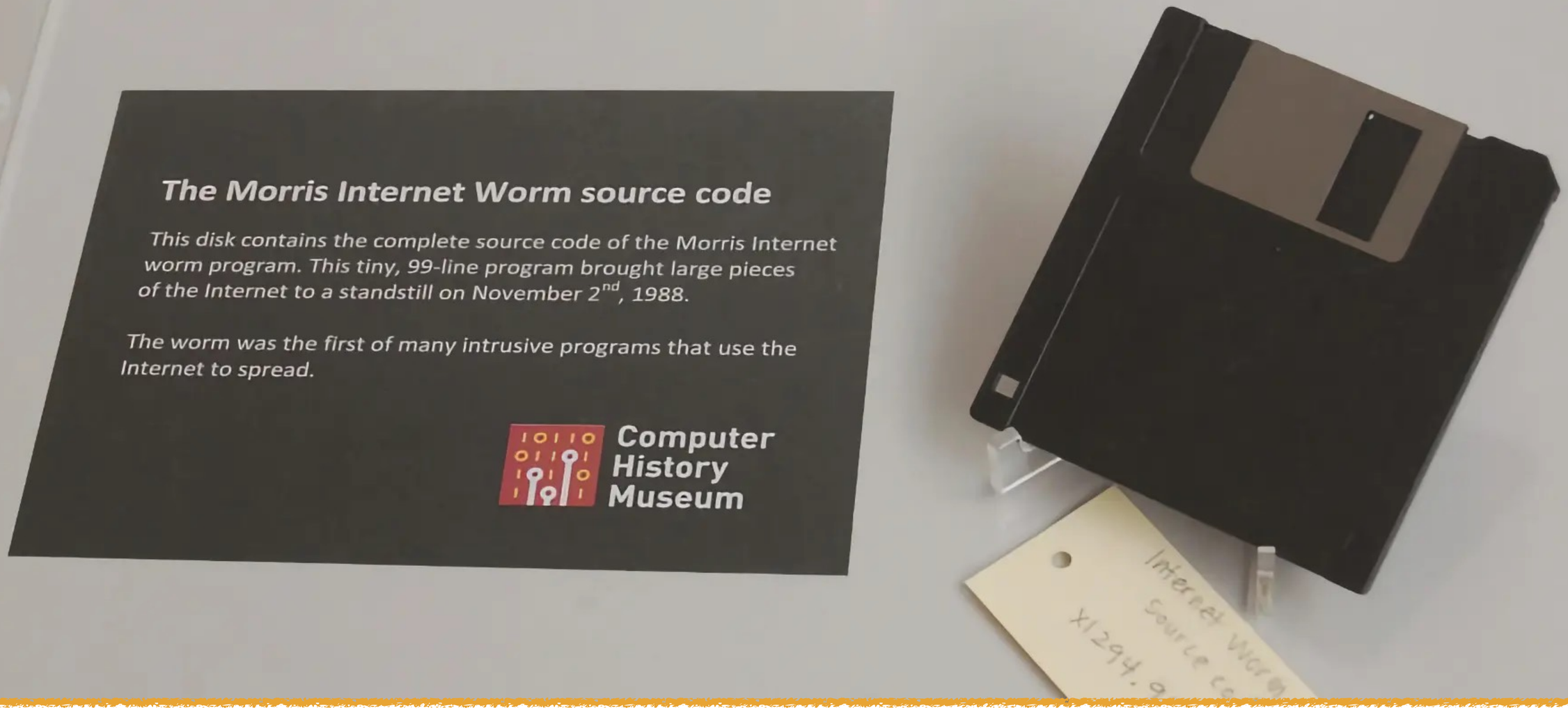
Worm

Self-replicating

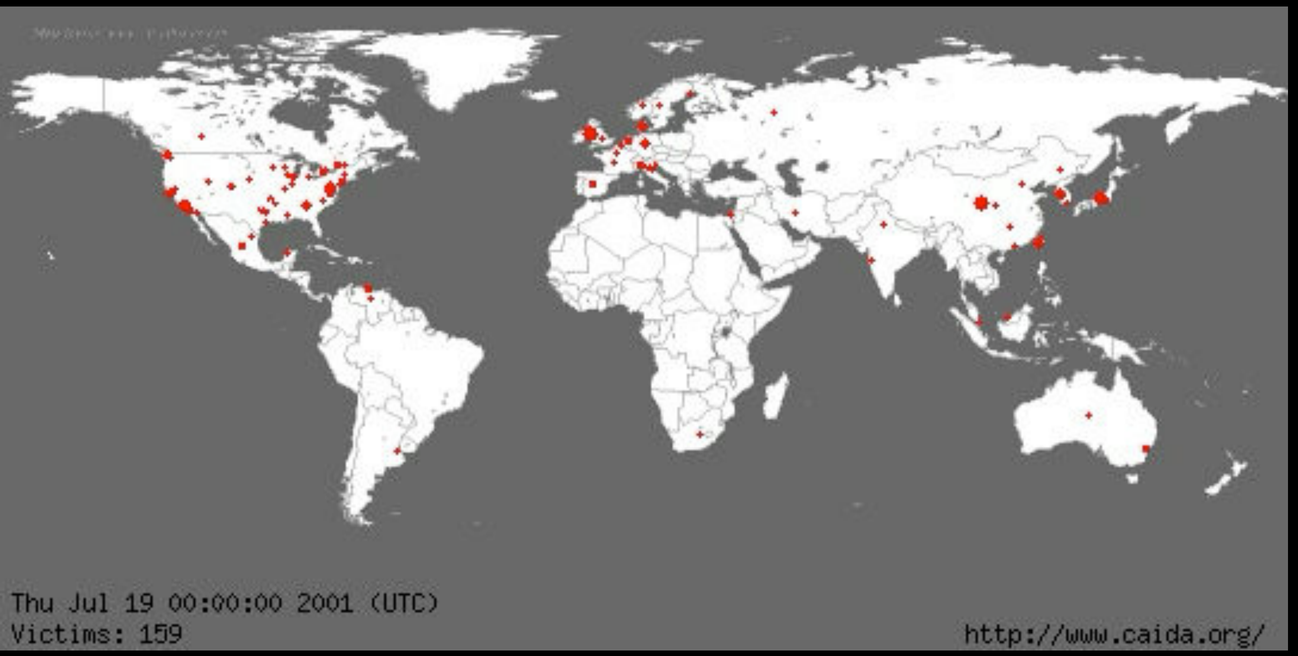
Uses a network to send copies of itself to other computers

Spreads without human intervention

1988: Morris Worm is the 1st worm to spread on the Internet

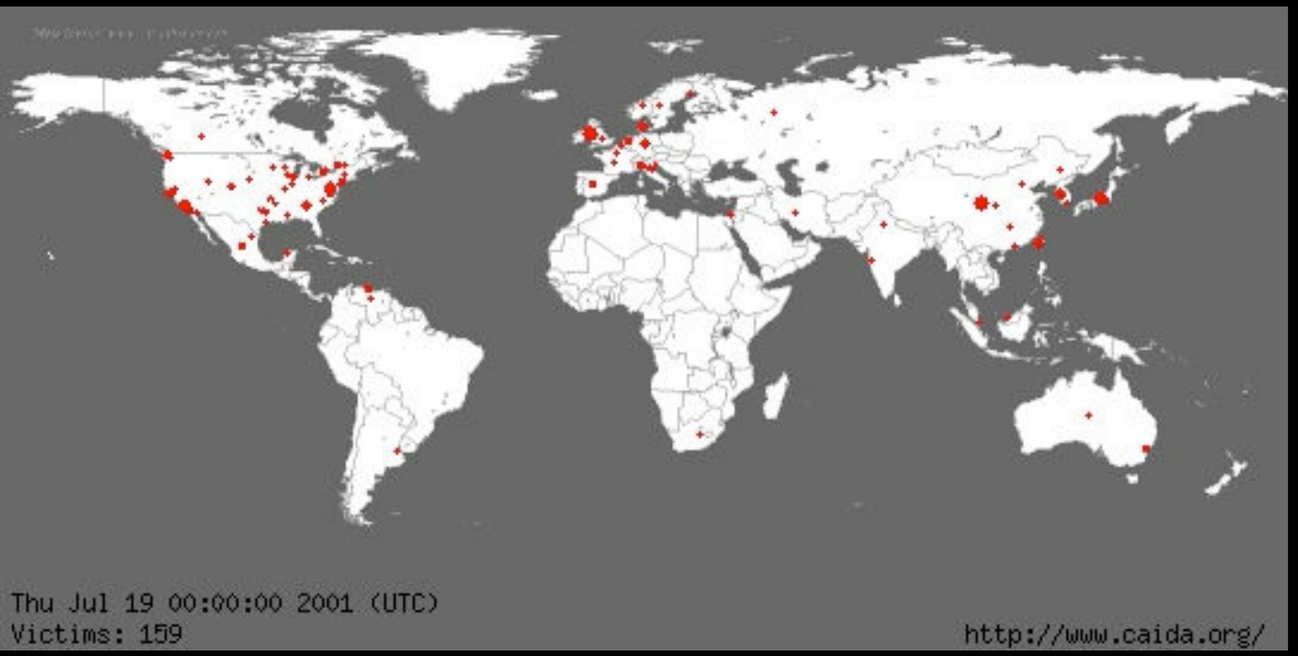


99 lines long • Written by a 22-yr-old whose dad was at the NSA



July 2001: Code Red worm infects 359,000 Microsoft Web servers

Defaces websites to say “HELLO! Welcome to http://www.worm.com! Hacked By Chinese!”



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Spyware

Gathers information about you & your computer use

Transmits information to an external entity without your knowledge or informed consent

Mac: “I run Mac OS X, so I don’t have to worry about your spyware and viruses.”

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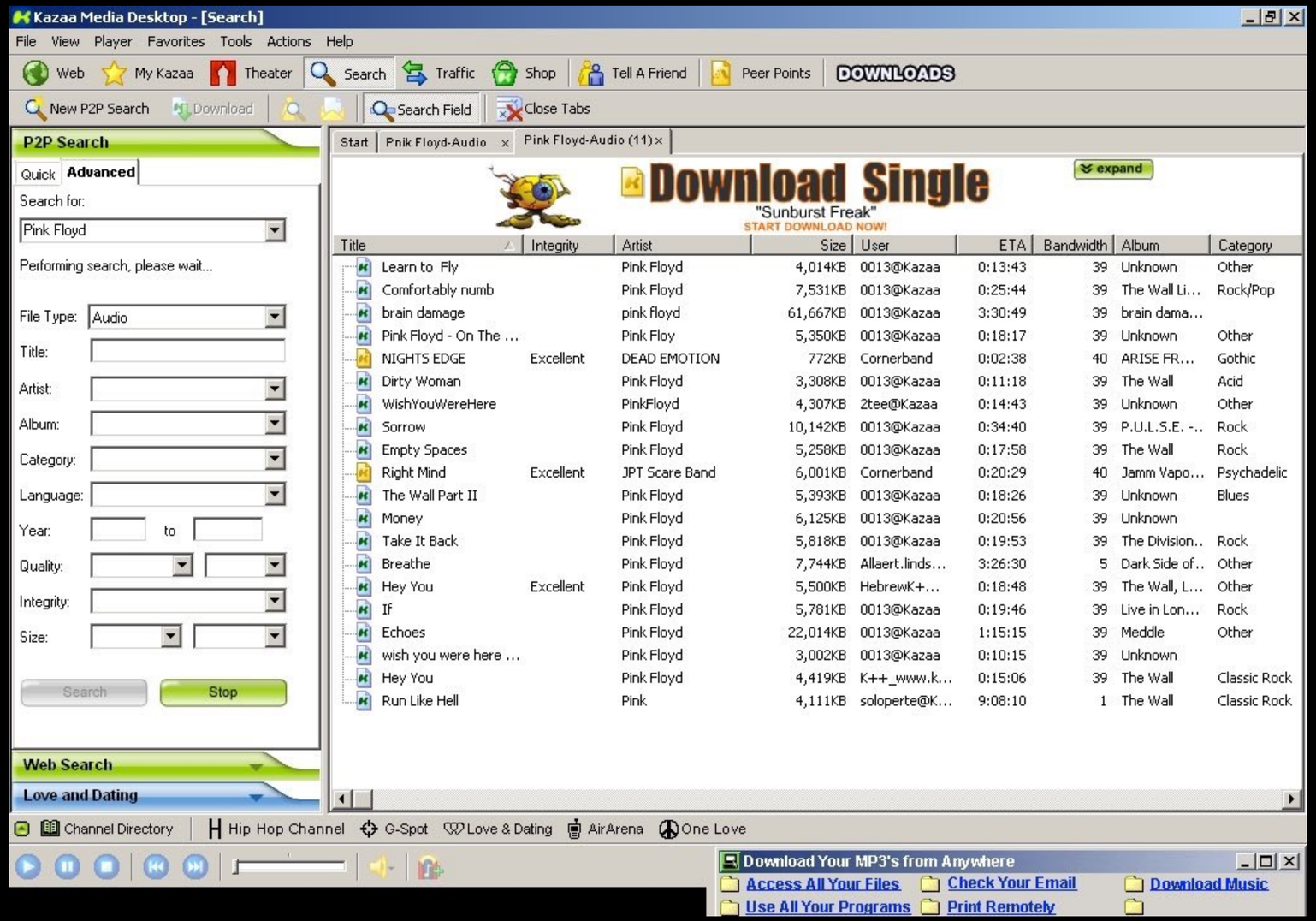
How do you get spyware?

1. You willingly install spyware-laden software
2. Drive-by installs via your Web browser (extremely rare nowadays)


Kazaa Media Desktop - [Search]
File View Player Favorites Tools Actions Help
Web My Kazaa Theater Search Traffic Shop Tell A Friend Peer Points DOWNLOADS
New P2P Search Download Search Field Close Tabs
P2P Search
Quick Advanced
Search for:
Pink Floyd
Performing search, please wait...
File Type: Audio
Title:
Artist:
Album:
Category:
Language:
Year: to
Quality:
Integrity:
Size:
Search Stop
Web Search
Love and Dating
Start Pnik Floyd-Audio Pink Floyd-Audio (11)
Download Single
"Sunburst Freak"
START DOWNLOAD NOW!
expand
Title Integrity Artist Size User ETA Bandwidth Album Category
Learn to Fly Pink Floyd 4,014KB 0013@Kazaa 0:13:43 39 Unknown Other
Comfortably numb Pink Floyd 7,531KB 0013@Kazaa 0:25:44 39 The Wall Li... Rock/Pop
brain damage pink floyd 61,667KB 0013@Kazaa 3:30:49 39 brain dama...
Pink Floyd - On The ... Pink Floy 5,350KB 0013@Kazaa 0:18:17 39 Unknown Other
NIGHTS EDGE Excellent DEAD EMOTION 772KB Cornerband 0:02:38 40 ARISE FR... Gothic
Dirty Woman Pink Floyd 3,308KB 0013@Kazaa 0:11:18 39 The Wall Acid
WishYouWereHere PinkFloyd 4,307KB 2tee@Kazaa 0:14:43 39 Unknown Other
Sorrow Pink Floyd 10,142KB 0013@Kazaa 0:34:40 39 P.U.L.S.E. -.. Rock
Empty Spaces Pink Floyd 5,258KB 0013@Kazaa 0:17:58 39 The Wall Rock
Right Mind Excellent JPT Scare Band 6,001KB Cornerband 0:20:29 40 Jamm Vapo... Psychadelic
The Wall Part II Pink Floyd 5,393KB 0013@Kazaa 0:18:26 39 Unknown Blues
Money Pink Floyd 6,125KB 0013@Kazaa 0:20:56 39 Unknown
Take It Back Pink Floyd 5,818KB 0013@Kazaa 0:19:53 39 The Division.. Rock
Breathe Pink Floyd 7,744KB Allaert.linds... 3:26:30 5 Dark Side of.. Other
Hey You Excellent Pink Floyd 5,500KB HebrewK+... 0:18:48 39 The Wall, L... Other
If Pink Floyd 5,781KB 0013@Kazaa 0:19:46 39 Live in Lon... Rock
Echoes Pink Floyd 22,014KB 0013@Kazaa 1:15:15 39 Meddle Other
wish you were here ... Pink Floyd 3,002KB 0013@Kazaa 0:10:15 39 Unknown
Hey You Pink Floyd 4,419KB K++_www.k... 0:15:06 39 The Wall Classic Rock
Run Like Hell Pink 4,111KB soloperte@K... 9:08:10 1 The Wall Classic Rock
Channel Directory Hip Hop Channel G-Spot Love & Dating AirArena One Love
Download Your MP3's from Anywhere
Access All Your Files Check Your Email Download Music
Use All Your Programs Print Remotely

KaZaA

9.4 Embedded Third Party Software

9.4.1 Cydoor [is an] advertising delivery program, which may display … banner ads, e-commerce offers, news headlines and other value-added content…

9.4.2 TopSearch … regularly downloads an index of available Altnet content … which can be displayed in your search results…

9.4.3 Bullguard P2P … guard[s] your computer from virus attacks by quarantining and deleting files downloaded via P2P that may have a virus…

9.4.4 GAIN AdServer … identifies your interests based on … your computer usage and uses that information to deliver advertising messages to you…

9.4.5 InstaFinder … redirect[s] your URL typing errors to InstaFinder…

Trojan Horse

Malicious program that disguises itself as legitimate software

Looks harmless or useful, but hides something harmful (e.g., a rootkit or ransomware)

Troy (2004)

Rootkit

Malware designed to give remote operator full control over a computer

Masks its existence, often by modifying anti-malware software

Very difficult to detect

Malwarebytes Anti-Rootkit BETA v1.01.0.1021

Malwarebytes

Overview

Introduction

Update

Scan System

Cleanup

Scan System:

Scan Progress:

C:\WINDOWS\Fonts\ega80869.fon

Malware Found: 3

Disk Size: 42949672960 bytes
Sector size: 512 bytes

Scanning physical sectors of unpartitioned space on drive 0 (1-2047-83866080-83886080)...
Sectors 1 - 107 --> [Forged physical sectors]
Done!
Performing system, memory and registry scan...
Infected: c:\Users\Labuser\AppData\Local\Temp\msimg32.dll --> [Rootkit.0Access]

Scan targets:

☑ Drivers ☑ Sectors ☑ System

Cancel

Warning: Malware found!

Previous Next

If you do get a rootkit…

Ransomware

Ransomware

- Malware that restricts access to an infected computer
- Demands that the user pay a ransom to the malware operators via an anonymous payment system (e.g., Bitcoin) so they remove the restriction

CryptoLocker

Your personal files are encrypted!

Private key will be destroyed on
10/20/2013
12:37 PM

Time left
72 : 34 : 50

Your important files **encryption** produced on this computer: photos, videos, documents, etc. Here is a complete list of encrypted files, and you can personally verify this.

Encryption was produced using a **unique** public key RSA-2048 generated for this computer. To decrypt the files you need to obtain the **private key**.

The **single copy** of the private key, which will allow you to decrypt the files, located on a secret server on the Internet; the server will **destroy** the key after a time specified in this window. After that, **nobody and never will be able** to restore files...

To obtain the private key for this computer, which will automatically decrypt files, you need to pay **300 USD** / **300 EUR** / similar amount in another currency.

Click «Next» to select the method of payment.

Any attempt to remove or damage this software will lead to the immediate destruction of the private key by server.

Next >>

CryptoLocker

Payment for private key

bitcoin

- Choose the amount of payment:

2 BTC

- Send coins to the following address:

Attention!

Make sure that you enter the payment information correctly! Each incorrect attempt will reduce the time to destroy the private key in half!

Are you sure you entered your payment information correctly?

Yes | No

Time left

43 : 30 : 40

<< Back | PAY

CryptoLocker

Payment for private key

Private key will be destroyed on
10/13/2013
1:21 PM

Time left
71 : 33 : 17

Choose a convenient payment method and click «Next»:

Bitcoin (most cheap option)

bitcoin

Bitcoin is a cryptocurrency where the creation and transfer of bitcoins is based on an open-source cryptographic protocol that is independent of any central authority. Bitcoins can be transferred through a computer or smartphone without an intermediate financial institution.

You have to send **2 BTC** to Bitcoin address [redacted] and specify the Transaction ID on the next page, which will be verified and confirmed.

Home Page
Getting started with Bitcoin

<< Back

Next >>

CryptoLocker

Files decryption

Your payment information is activated!

Search and recovery of encrypted files!

-> Decrypting previously encrypted files <-

Scanning all disks for encrypted files

C:\Documents and Settings\Administrator\My Documents\My Pictures\...\P1010459.JPG

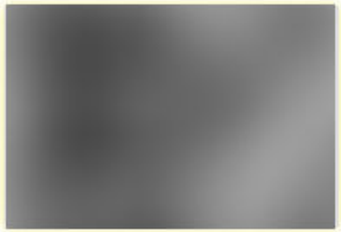
Files scanned:	931
Files recovered:	931
Errors:	0

THE FBI FEDERAL BUREAU OF INVESTIGATION

To unlock your computer and to avoid other legal consequences, you are obligated to pay a release fee of $200.

All activity of this computer has been recorded
If you use a webcam , videos and pictures were saved for identification

Video-recording: ON



You can be clearly identified by resolving your IP address and the associated hostname

Your IP Adress:
Your Hostname:
Location:

Your Computer has been locked!

The work of your computer has been suspended on the grounds of unauthorized cyberactivity.

Described below are possible violations, you have made:

Article 274 – Copyright
A fine or imprisonment for the term of up to 4 years
(The use or sharing of copyrighted files – movies, software)

Article 183 – Pornography
A fine or imprisonment for the term of up to 2 years
(The use or distribution of pornographic files)

Article 184 – Pornography involving children (under 18 years)
Imprisonment for the term of up to 15 years
(The use or distribution of pornographic files)

Article 104 – Promoting Terrorism
Imprisonment for the term of up to 25 years
(You have visited websites of terrorist organizations)

Article 297 – Neglect computer use, entailing serious consequences
A fine or imprisonment for the term of up to 2 years
(Your computer has been infected with a virus, which, in turn, infected other computers)

Article 108 – Gambling
A fine or imprisonment for the term of up to 2 years
(You have been gambling, but according to the law residents of the your country are not allowed gambling in any format)

In connection with the decision of the Government as of August 22, all of the violations described above could be considered as conditional in case of payment of a fine.

Amount of the fine is $200. Payment must be made within 48 hours after the discovery of the violation.
If the fine has not been paid, you will become the subject of criminal prosecution.

After paying the fine your computer will be unblocked

1. 2. 3. 4.

green dot MoneyPak

Exchange your cash for a MoneyPak voucher and use your voucher code in form below.

Code:

1 2 3 4 5 6 7 8 9 0

Submit

Where can I buy MoneyPak

7-Eleven, Rite Aid Pharmacy, Kmart, CVS/pharmacy, Walgreens, Walmart (Save money. Live better.)

Please note: This fine may only be paid within 48 hours, if you let 48 hours pass without payment, the possibility of unlocking your computer expires.

In this case a criminal case against you will be initiated automatically.

FRAUD ALERT: Use yor MoneyPak number only with businesses listed at MoneyPak and United States Federal Bureau of Investigation. If anyone else asks for your MoneyPak number? it's probably a scam. If a criminal gets your money, Green Dot is not responsible to pay you back.

100% Secure Payments

YOUR COMPUTER HAS BEEN LOCKED!

This operating system is locked due to the violation of the federal laws of the United States of America! (Article 1, Section 8, Clause 8; Article 202; Article 210 of the Criminal Code of U.S.A. provides for a deprivation of liberty for four to twelve years.)
Following violations were detected:
Your IP address was used to visit websites containing pornography, child pornography, zoophilia and child abuse. Your computer also contains video files with pornographic content, elements of violence and child pornography! Spam-messages with terrorist motives were also sent from your computer.
This computer lock is aimed to stop your illegal activity.

To unlock the computer you are obliged to pay a fine of $200.

You have **72 hours** to pay the fine, otherwise you will be arrested.

OK

You must pay the fine through [redacted]
To pay the fine, you should enter the digits resulting code, which is located on the back of your [redacted] in the payment form and press OK (if you have several codes, enter them one after the other and press OK).

Cryptoviral extortion

- Ransomware that encrypts files on the system's hard drive
- User must pay ~$300 within ~72 hours
- No ransom means the encryption key is deleted, so files are inaccessible forever

41% of victims choose to pay

Different ransomware operators have made between $3–27 million

Social Engineering

Social engineering, AKA, people will tell you anything if you sound authoritative

Ask

What’s the easiest way to get sensitive information from people?

What’s the easiest way to get sensitive information from people?

Just ask

“This is campus IT support. We’ve had a problem, & we need to reset everyone’s passwords on the network. What’s your current username? Good. And your current password? OK, thanks. Your new password will be 123456. Try that in 24 hours after we’ve fixed the problem.”

A woman posts an ad looking for a nanny

References & full resumé required

Nanny responds, sending all info

Woman never responds to nanny

“Oh well,” nanny thinks

Woman turns around & posts an ad looking for a job as a nanny

Look

What’s another easy way to get sensitive information from people?

What’s another easy way to get sensitive information from people?

Look for it

Bank statements

Paycheck stubs

Personal letters

Applications

Transcripts

Org charts

Contact lists

Memos

Reports

Floppies

CDs

Hard drives

Credit card statements

Garbage cans are a gold mine

The old “password on a sticky” trick

Your network admin gets an anonymous call: people are posting passwords on sticky notes

The word goes out to all employees: take down your sticky notes!

…& the office dumpster now overflows with password-filled scraps of paper

Vulnerability Scanning

nmap

nmap.org

Free & open source

Linux, Mac OS X, & Windows

Determines:

» Available computers
» Services running on computers
» Operating systems & versions
» Types of firewalls
» Much more!

```
rsgranne@appolonius:~$
```

```
rsgranne@appolonius:~$
```

Nessus

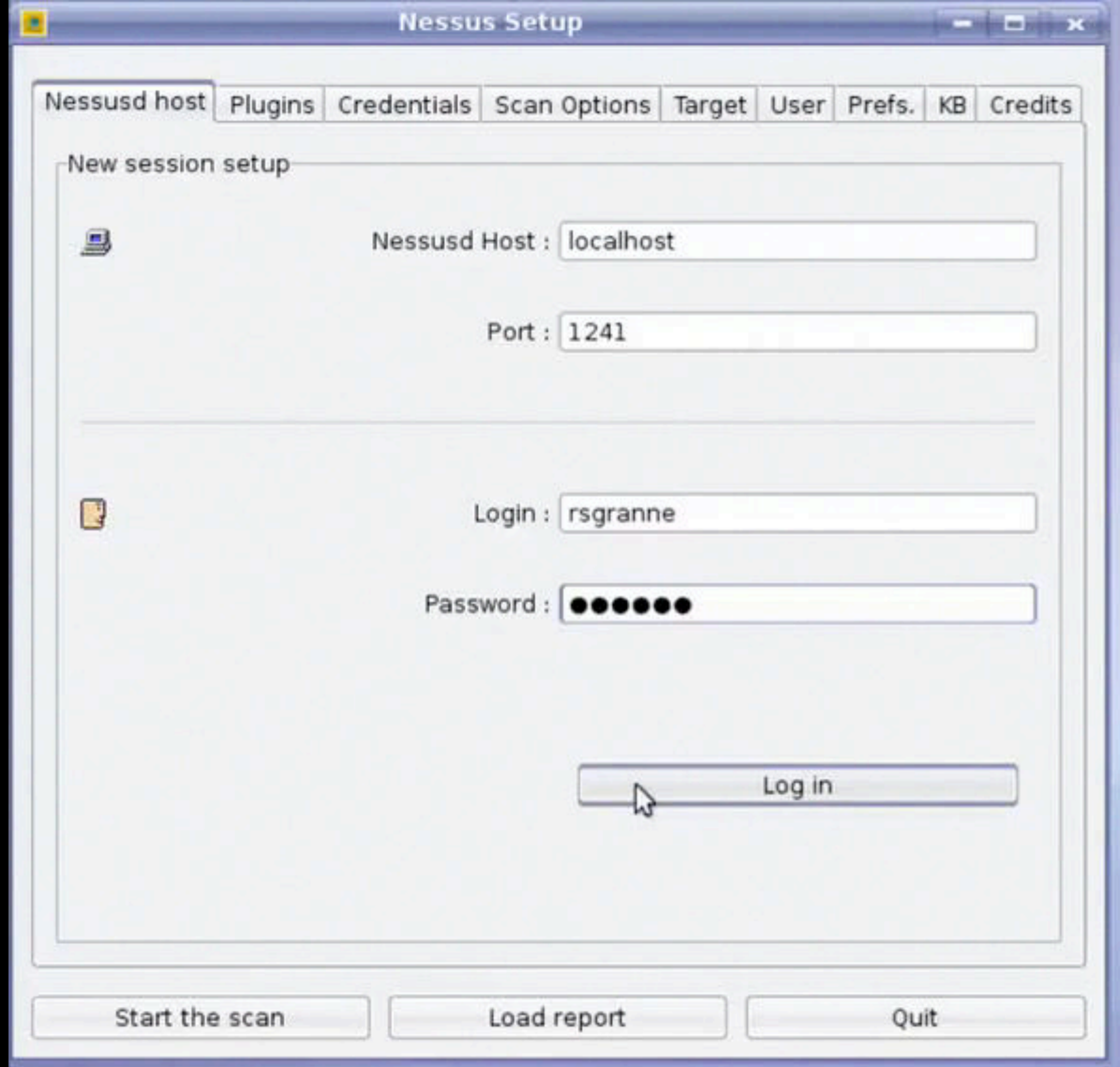
nessus.org

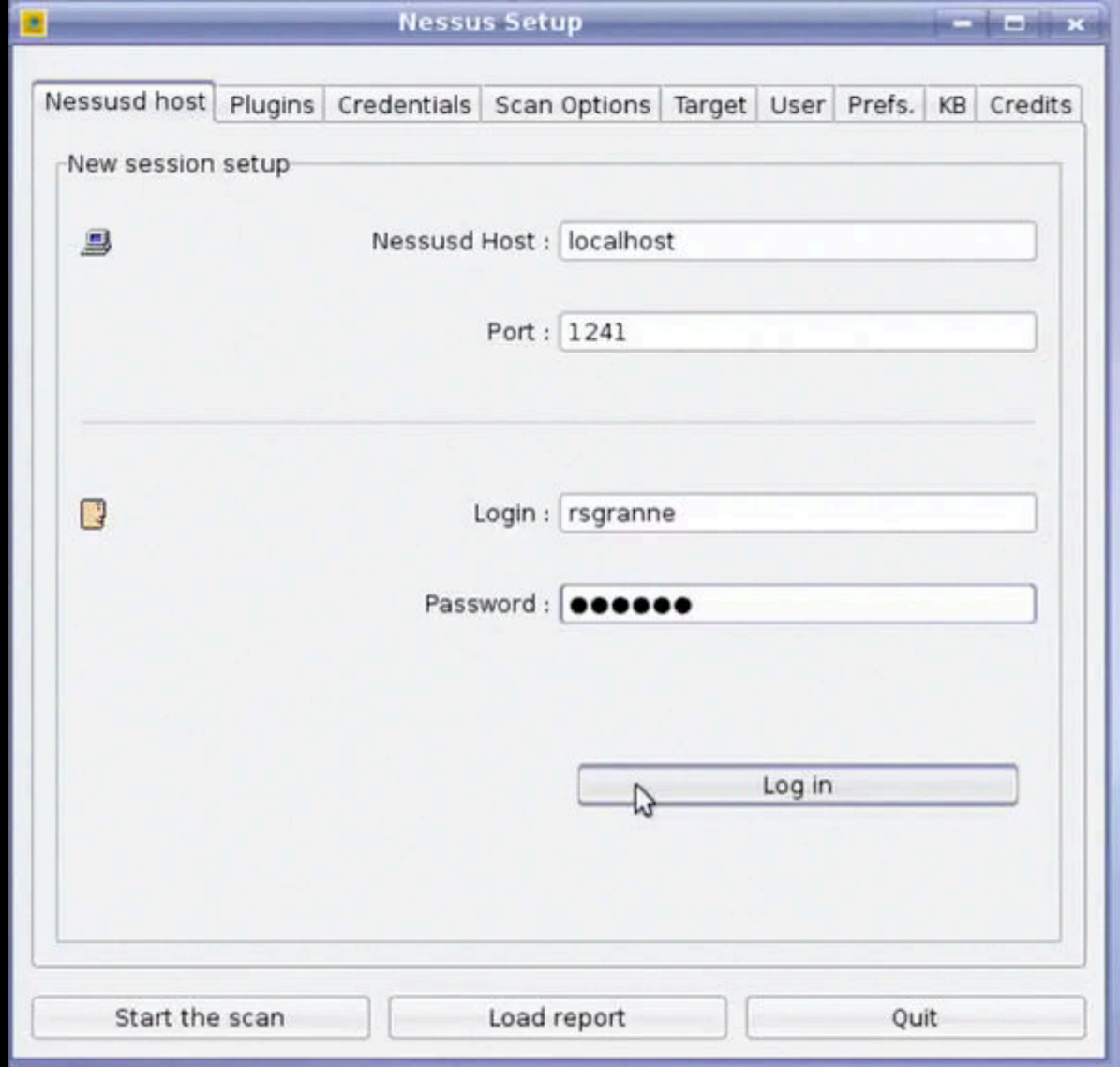
Free & proprietary

Linux, Mac OS X, & Windows

Determines:

- Services running on computers
- Operating systems & versions
- Vulnerabilities
- Misconfigurations
- Default passwords
- Much more!


Nessus Setup
Nessusd host
Plugins
Credentials
Scan Options
Target
User
Prefs.
KB
Credits
New session setup
Nessusd Host :
localhost
Port :
1241
Login :
rsgranne
Password :
Log in
Start the scan
Load report
Quit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localhost
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1241
Login :
rsgranne
Password :
Log in
Start the scan
Load report
Quit

Botnets

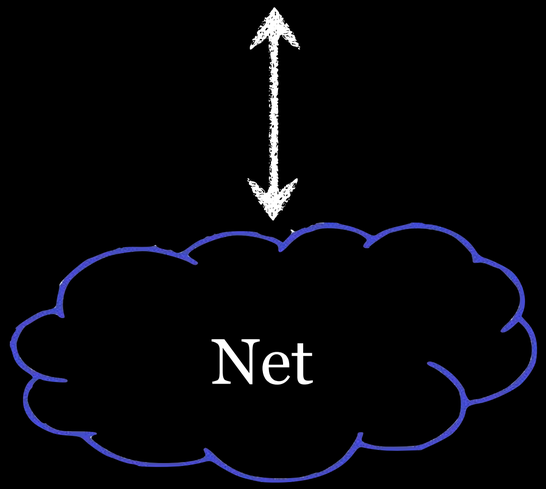
June 2007

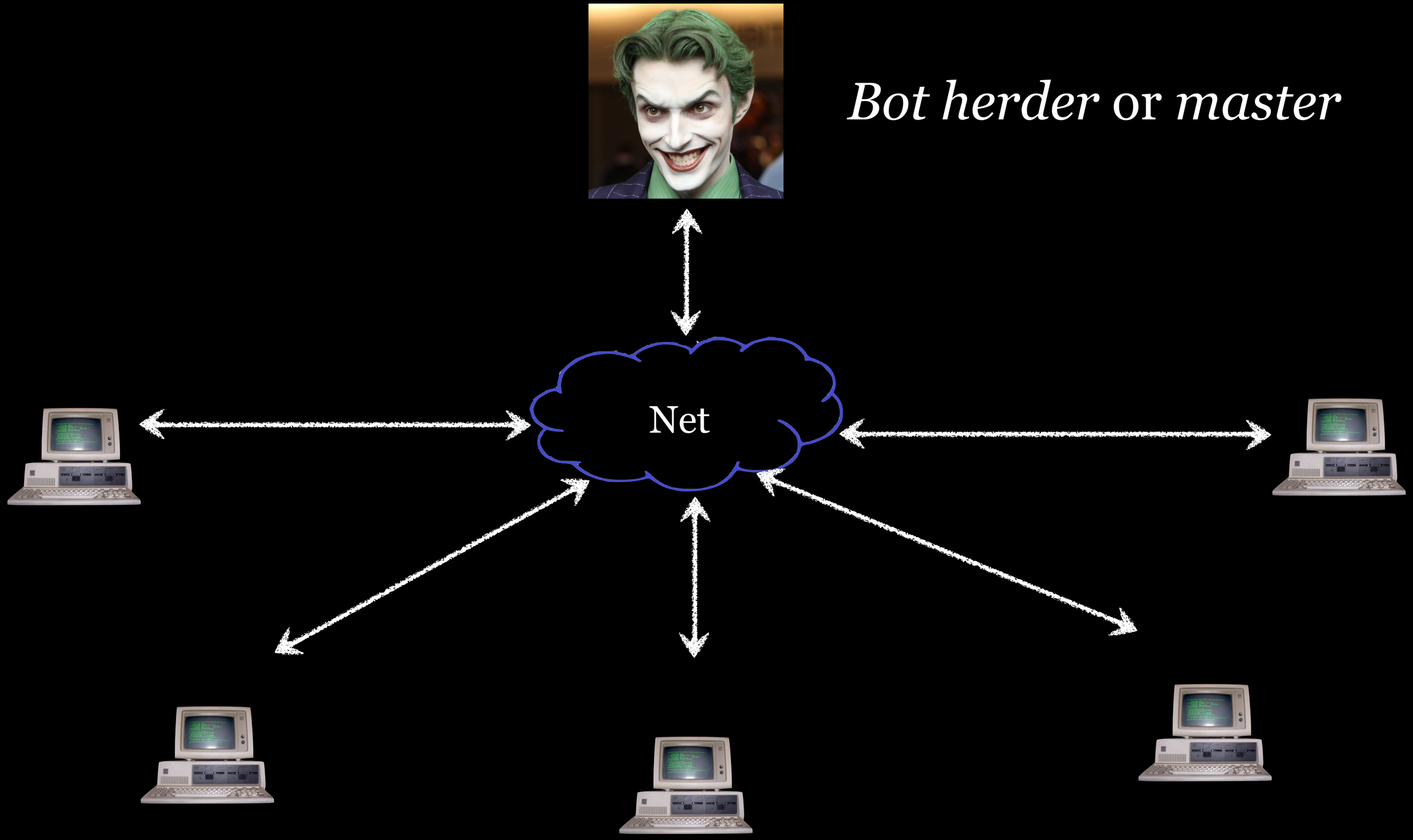
FBI announces botnet containing over 1 million Windows PCs

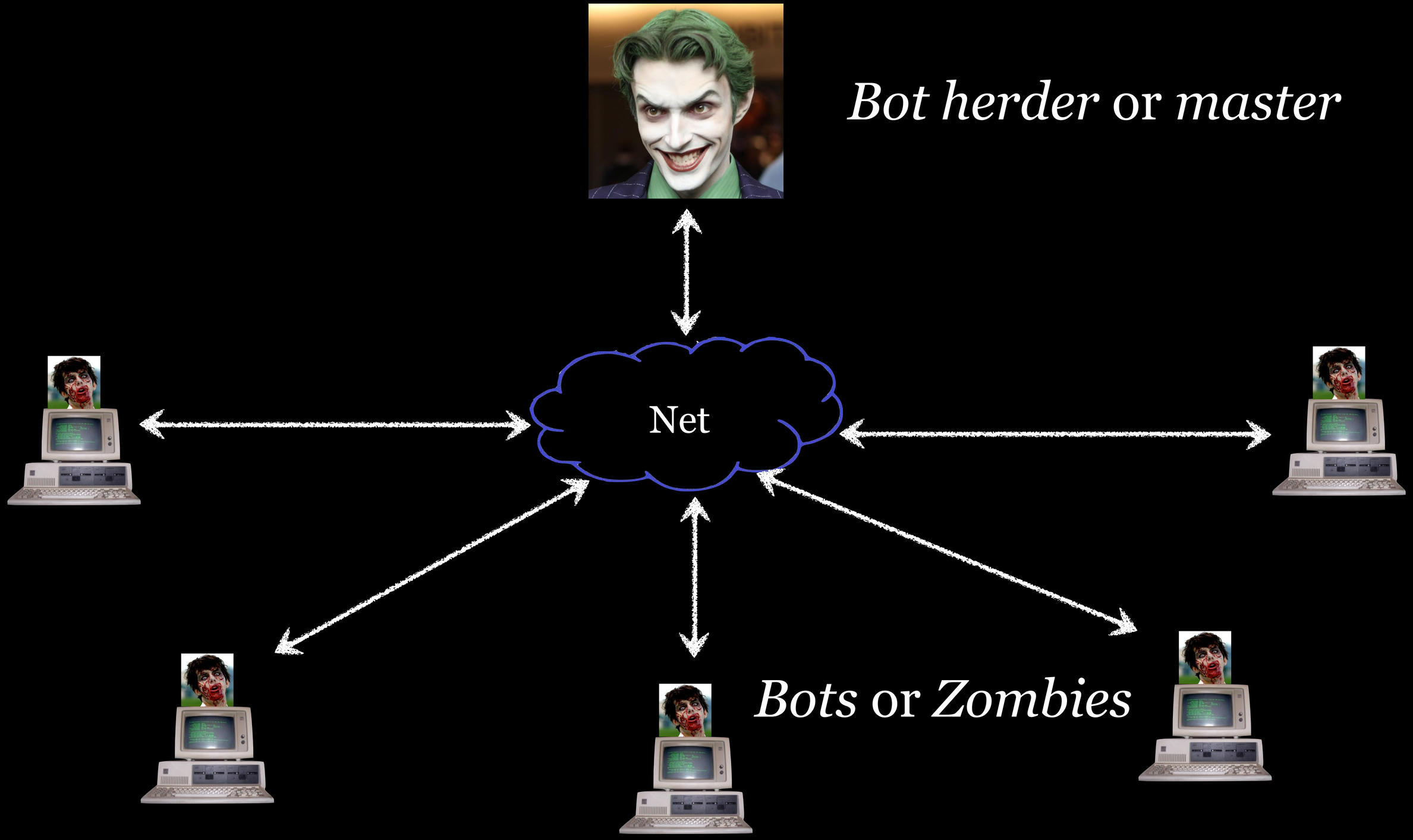
What Botnets Are

“A botnet is a logical collection of internet-connected devices such as computers, smartphones or IoT devices whose security has been breached and control ceded to a third party.” —Wikipedia

Bot herder or *master*




Bot herder or master
Net

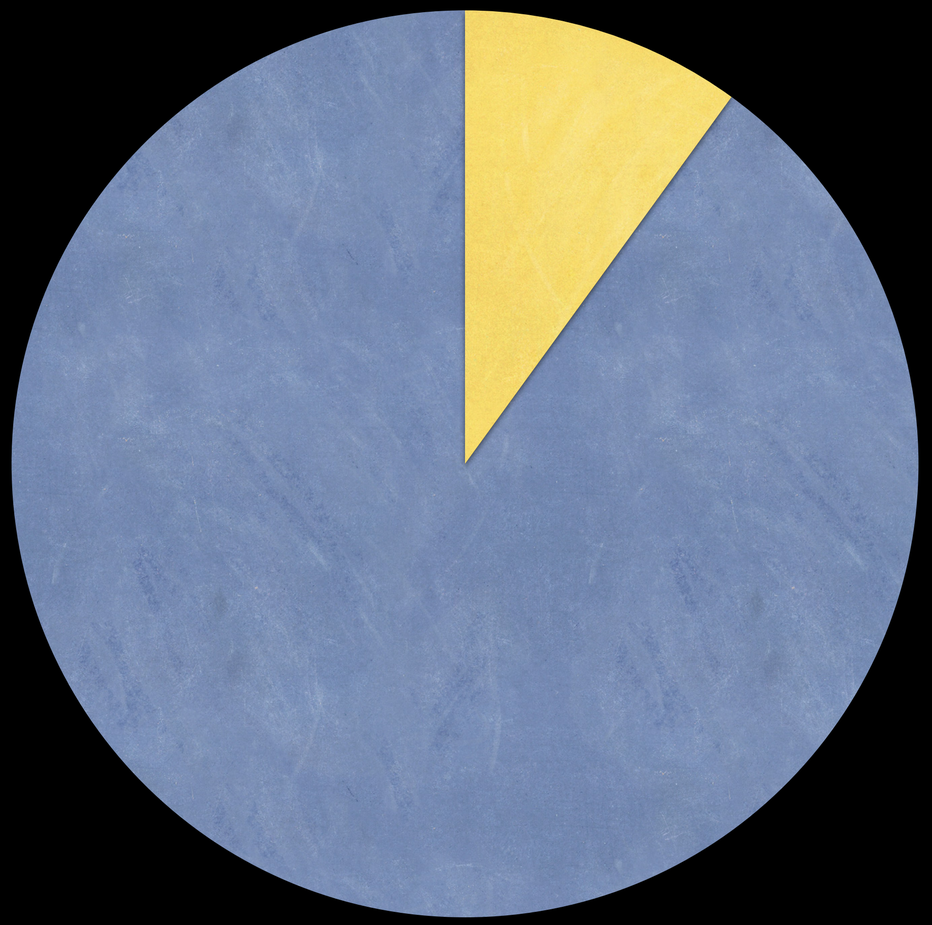

Bot herder or master
Net
Bots or Zombies

How Botnets Spread

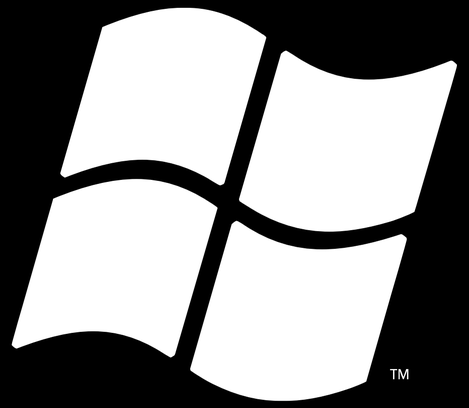
Bot herders gain new zombies via…

- » drive-by downloads
- » exploiting web browser vulnerabilities
- » Trojan horse programs

2007: Google researchers examined 4,500,000 web pages



Malware or Malware Installs
Safe


TM

Storm

Botnet	Dates	Bots	Spam/Day
Bagle	2004–	230,000	5.7 B
Akbot	2007–2008	1,300,000	
Cutwail	2007–	1,500,000	74 B
Zeus	2007–	3,600,000*	
Conficker	2008–	10,500,000	10 B
Ramnit	2011–2015	3,000,000	
Mantis	2014	6,000,000	
Mirai	2016	380,000	
Mantis	2022	5,000	

*U.S. numbers only

Storm

“Professionalized crimeware”

2006?–2008

Controlled up to 50,000,000 Windows PCs

Progenitor of “modern” botnets

Worm
+
rootkit
+
spam relay
+
Trojan

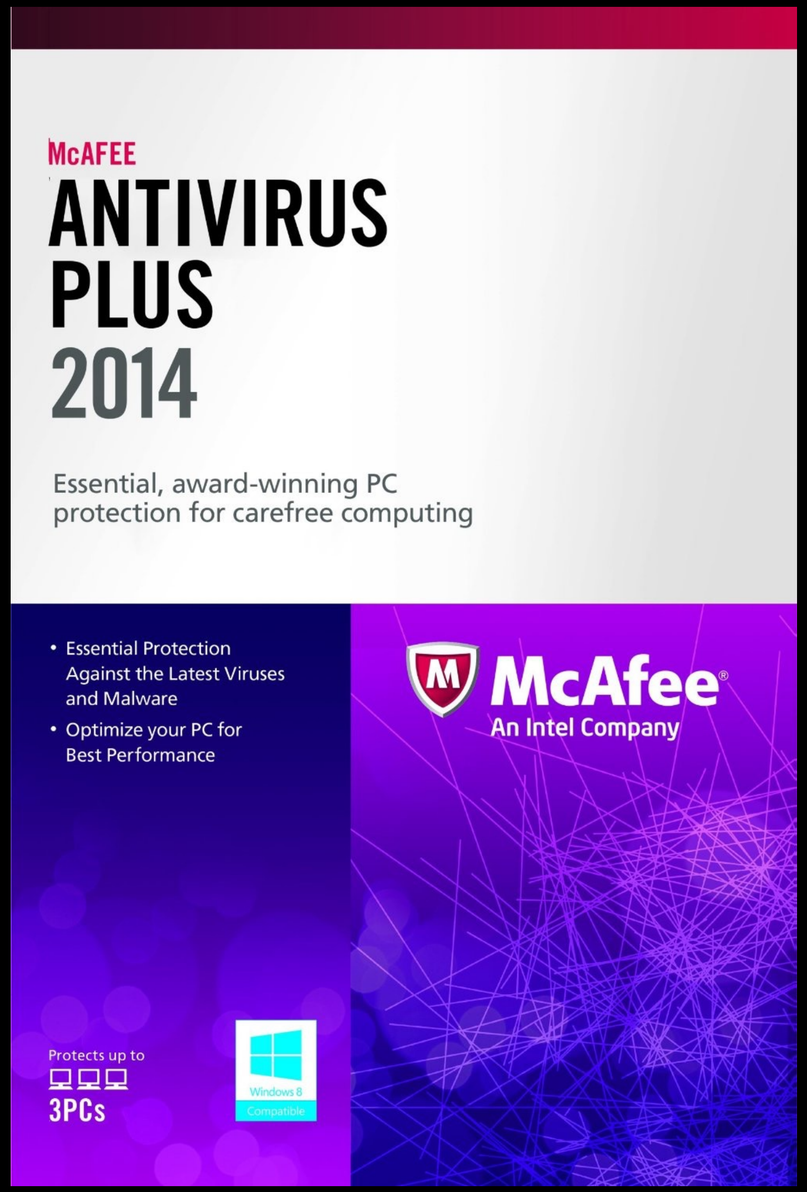
verige
weden
Suomi
Finland
Россия
Russia
Bering
Sea
Беларусь
Belarus
Polska
Poland
Україна
Ukraine
Kazakhstan
Mongolia
Romania

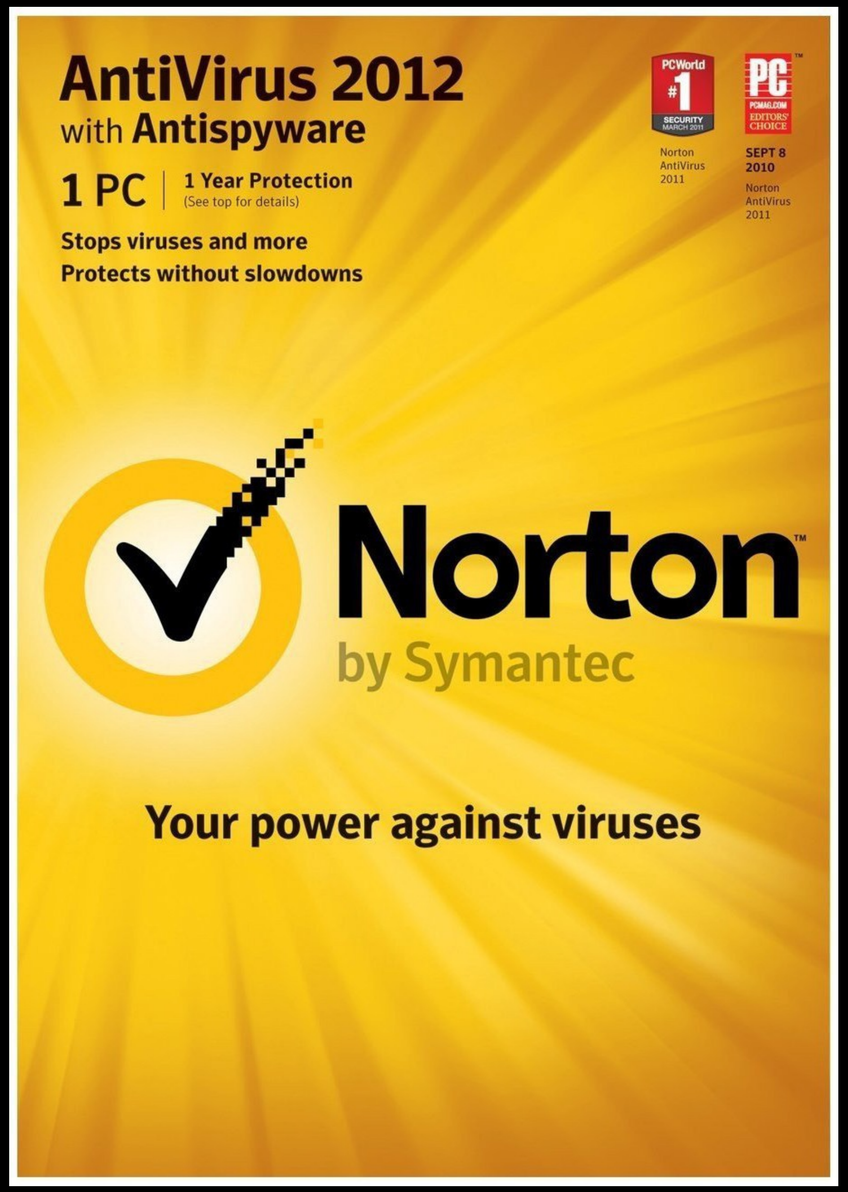
Works like peer-to-peer network

No central location

Zombies connect to a subset of the entire Storm network, so no one command point to take out

Communications encrypted


McAFEE
ANTIVIRUS
PLUS
2014
Essential, award-winning PC protection for carefree computing
• Essential Protection Against the Latest Viruses and Malware
• Optimize your PC for Best Performance
McAfee
An Intel Company
Protects up to
3PCs
Windows 8
Compatible


AntiVirus 2012
with Antispyware
1 PC
1 Year Protection
(See top for details)
Stops viruses and more
Protects without slowdowns
PCWorld #1 SECURITY MARCH 2011
Norton AntiVirus 2011
PC PCMAG.COM EDITORS' CHOICE
SEPT 8 2010
Norton AntiVirus 2011
Norton
by Symantec
Your power against viruses

Storm figures out which researchers are probing its command-&-control servers, & responds with a DDoS, taking them off the Net

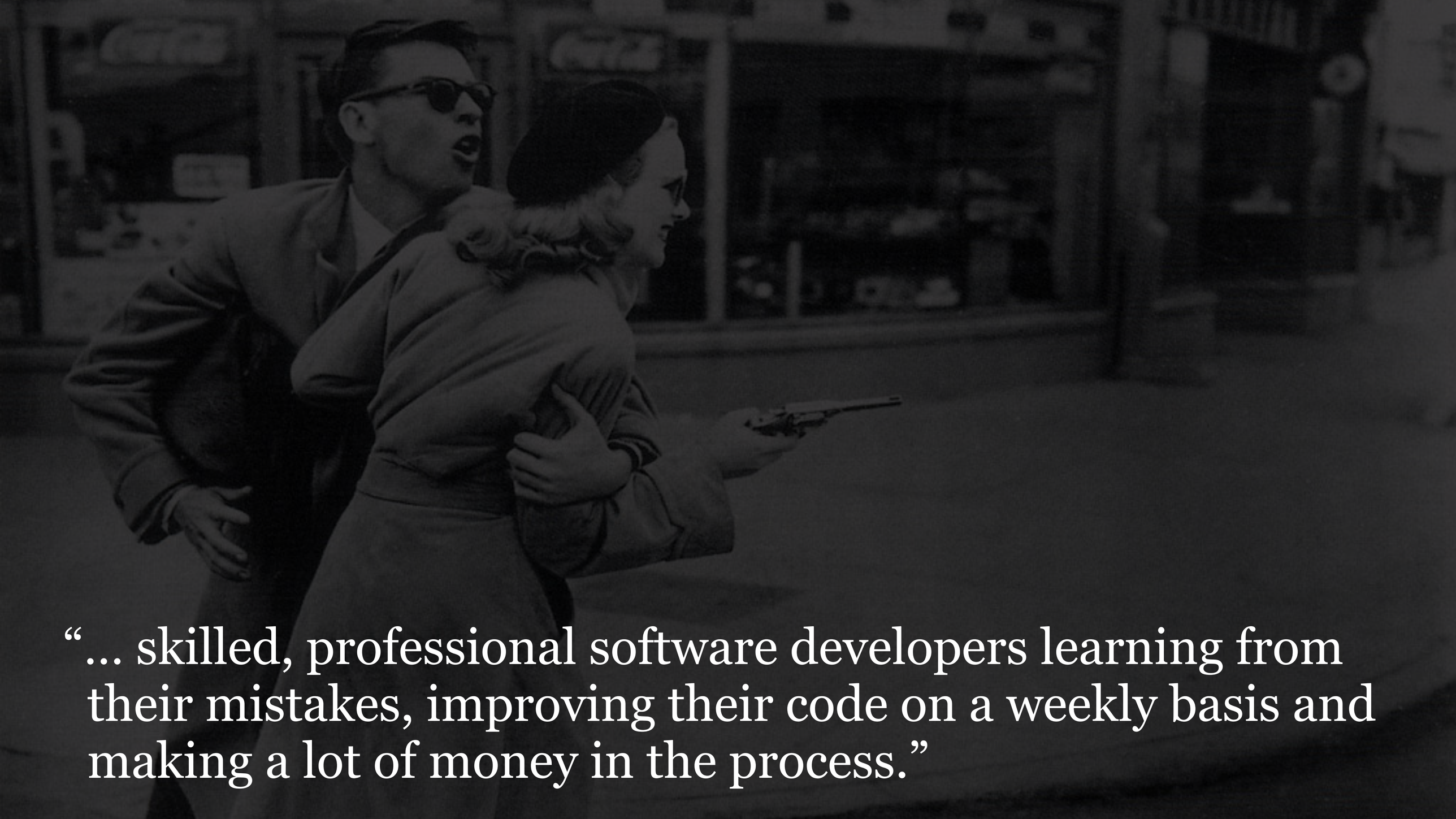
“As you try to investigate Storm, it knows, and it punishes.” —Security researcher

Who?

MGM/UA
ENTERTAINMENT CO.

WARGAMES

UiP



“… skilled, professional software developers learning from their mistakes, improving their code on a weekly basis and making a lot of money in the process.”

Why?

Logitech
F1
F2
F3
F12
Prt Scr Sys Rq
Scroll Lock
Insert
Home
Delete
End
Q
W
E
R
T
A
S
D
F
G
Z
X
C
V
B
Alt
Ctrl
WWW
Mail
FEDERAL RESERVE NOTE
CB 90224989E
B2
UNITED STATES OF AMERICA
100
ONE HUNDRED DOLLARS

Spam & phishing
Keylogging
Bitcoin mining
Porn
DDoS
Infiltration

Are you interested in photo clipping path? — Junk Mail (111 messages)

Archive | Move to Junk | Delete | New | Reply | Forward | Thread | Correspondence | Search

MAILBOXES

- All Messages 2498
- Inbox 556
- Archive
- Drafts
- Sent Messages
- Junk 217
- Deleted Messages 3
- Unread 2498
- Flagged 42
- Muted
- Mailing Lists 1512
- Examples
- RSG 2498
- Fail2Ban Problems 3

SOURCES

- admin@websanity 6
- Fastmail 1584
  - Archive
  - Boxer
  - DB
  - Drafts
  - INBOX 538
  - Junk Mail 105
  - LIST
  - Notes
  - PER
  - Sent Items
  - TCH
  - TRAIN

From	Subject	Date Received		SpamSieve Score
Block Carbs / Loose Weigh	*WU-SPAM* [positive]Dr. Oz promotes White Kidney Bean Extract	Yesterday	4:22 AM	
Burial Insurance	Compare burial insurance quotes here	March 22, 2015	12:47 PM	
Business Degrees Online	Jumpstart your future with a Business Degree	Yesterday	10:12 AM	
Business Degrees Online	Apply for your Business Degree Online	Today	6:51 AM	
Canal de comunicação e divulga...	Apps corporativos tentam gerar novos ganhos para as empresa...	March 22, 2015	7:45 PM	73
CBD-Life-Labs	scott, Do you suffer from Pain Inflammation-Treat it naturally w...	Today	2:23 AM	
Cleo Lawson	RE: Hi there	March 22, 2015	4:04 AM	
Cotação de Seguro Auto	Cotação de Seguro Auto	Yesterday	7:54 PM	
CPAacademy.org	Complimentary CPE Webinars (March 23 - 27)	Yesterday	8:22 AM	96
CVS Card Savings	Alert:Your CVS-Card Rewards are about to Expire! Redeem Today	Yesterday	3:01 PM	87
David	need photo retouching today?	Yesterday	3:29 AM	
David	need photo clipping path and retouching?	Yesterday	3:32 AM	
DermaNova	1 weird trick to reduce 10 years of aging	March 22, 2015	1:32 PM	
FirstSing	Anybeauty LCD screen Replacement Display Touch Screen Digiti...	Today	8:30 AM	
Foroni	Quer ir para Orlando ou para o Canadá?	Today	7:39 AM	
Global Finance	Are you financially Squeezed?	March 22, 2015	2:55 PM	
Groupon Rewards	DONT FORGET! You Have $200 in Groupon Rewards Ready to Sp...	Today	5:22 PM	
Harry	Are you interested in photo clipping path?	Today	8:22 AM	
Herpes Medication	*WU-SPAM* [positive]Neat*Trick Permanently Removes-Herpes...	Yesterday	3:06 AM	
Homeland Security Specialization	Hello scott, Help protect America's freedom with a homeland se...	Yesterday	2:08 PM	
Homeland Security Specialization	Hello scott, See how to help the country with a homeland securit...	Yesterday	2:22 PM	
Homeland Security Specialization	Hello scott, Homeland Security Programs	Yesterday	1:52 PM	
Homeland Security Specialization	Hello scott, Safeguard America's life and liberty with a homeland sec...	Yesterday	2:22 PM	
Homeland Security Specialization	Hello scott, Help bolster protection in the US with a homeland s...	Yesterday	2:08 PM	
HomeSphere Events	Last Day to Register for "The Wow Factor" Webinar	Yesterday	3:30 PM	99
Hot CD Annuity	3.05% for 3 YRS	Yesterday	9:26 AM	
InsuranceProtection	Get a $500,000 Term Life Policy for as Low as $27/Month	Today	6:36 AM	96
Jessica Chris	Website Layouts for Gissingchurch.com	Today	8:41 AM	
Jessica Fischer	Job opportunity	Yesterday	12:43 PM	75
Joan Kim	Re: Hello there	Yesterday	6:51 AM	
Jodee Rich	CEOs are Innovators - Ryan Holmes of Hootsuite	Today	6:20 AM	
Joe Iannelli	Capitalize on our New Final Expense Product	Yesterday	10:51 AM	
KaryeriM Dergisi	Yeni mesaj	Today	6:17 PM	

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90%

of email is spam!

That’s phishing with a “ph”

eBay Member Billing Information updates - Message (HTML)

File Edit View Insert Format Tools Actions Help

Reply | Reply to All | Forward

From: SecretService@ebay.com Sent: Sat 10/25/2003 1:50 PM
To:
Cc:
Subject: eBay Member Billing Information updates

My eBay Need Help?

Dear eBay Member,

We at eBay are sorry to inform you that we are having problems with the billing information of your account. We would appreciate it if you would visit our website eBay Billing Center and fill out the proper information that we are needing to keep you as an eBay member.

If you think you have received this email as an error, please visit our website and fill out the necessary information. That way we can make sure that everything is up to date! Again here is the link to our website. eBay Billing Center

****
Please Do Not Reply To This E-Mail As You Will Not Receive AResponse
****

Thank you
Accounts Management

As outlined in our User Agreement, eBay will periodically send you information about site changes and enhancements. Visit our Privacy Policy and User Agreement if you have any questions.

Announcements | Register | Safe Trading Tips | Policies | Feedback Forum | About eBay

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Designated trademarks and brands are the property of their respective owners.
Use of this Web site constitutes acceptance of the eBay User Agreement and Privacy Policy.

reviewed by TRUSTe site privacy statement

http://211.56.245.66:7301/ - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Media

Address http://211.56.245.66:7301/

Links Weednet IME Login Phone List Extranet TMWD Website Earthlink WebEx TMW

ebay

Security Update

Need Help?

For security reasons the following information must be confirmed.

eBay User ID

You can also use your registered email.

Password

Please re-enter your email Address:

Please re-enter your Social Security Number (SSN)
(The SSN consists of nine digits, commonly written as three fields separated by hyphens: AAA-GG-SSSS)

Important:In order to prevent any fraudulent activity from occurring we strongly advise you to specify an alternative eBay password. This process allows us to give back sole control of the account to you in case something goes wrong with instructions regarding the account and its future safety.

Alternative password (6 character minimum)

Please note that when choosing a password we strongly recommend that you choose a password that can be easily remembered.

Please confirm your credit or debit card on file to help verify your identity. Your information is kept safe and private.

Please make sure your card expiration date is correct.
If your card has expired, please enter another one.

Full Name on Credit Card:

Credit Card Billing Address:

City:

State/Province: - Select here if country is US or Canada -

Province if not US/Canada:

Zip/Postal Code:

Phone Number:

Fax Number:

Country: - Please Select Country -

Important: If necessary, please edit the above information to match your credit card billing information.

Card Type: Visa

Visa, Mastercard, American Express, or Discover
Your card will notbe charged!

Card Number:

Expiry (mm/yyyy): 11 2003

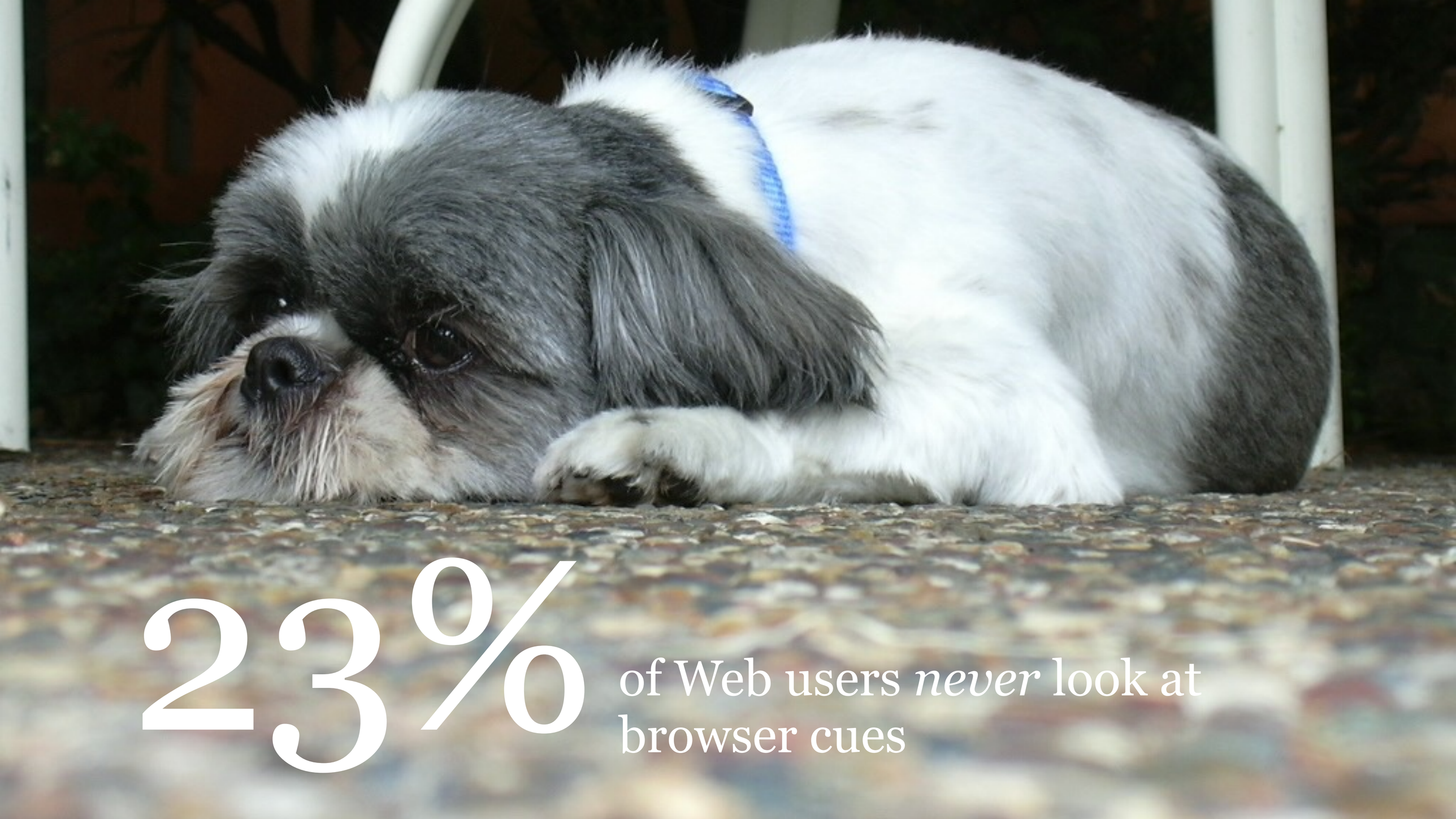
CVV2 code

The CVV2 code is the three-digit code on the back of the card following your credit card number.

ATM PIN (Bank Verification) #:

Submit

Done


23%
of Web users *never* look at
browser cues

PayPal - Log In - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Media

Address Go Links

PayPal®

Sign Up | Log In | Help

Welcome | Send Money | Request Money | Merchant Tools | Auction Tools

Member Log In

Secure Log in

Registered users log in here. Be sure to protect your password.

Email Address:

Password: Forget your password?

New users sign up here! It only takes a minute.

Log In

About | Accounts | Fees | Privacy | Security Center | User Agreement | Developers | Referrals | Shops | Mass Pay

an eBay Company

Copyright © 1999-2004 PayPal. All rights reserved.

Information about FDIC pass-through insurance

PayPal - Log In - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Media

Address https://www.paypal.com/cgi-bin/webscr?cmd=_login-run Go Links

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Information about FDIC pass-through insurance

Internet

PayPal - Login - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

Go anti-phishing

Getting Started Latest Headlines

PayPal

Sign Up | Log In | Help

Welcome | Send Money | Request Money | Merchant Tools | Auction Tools

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About | Accounts | Fees | Privacy | Security Center | Contact Us | User Agreement | Developers | Jobs | Mobile | Plus Card | Referrals | Shops | Mass Pay

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Information about FDIC pass-through insurance

Done

PayPal - Login - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

https://www.paypal.com/cgi-bin/webscr?cmd=_login-run

Go

anti-phishing

Getting Started Latest Headlines

PayPal

Sign Up | Log In | Help

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Forgot your email address?

Password:

Forgot your password?

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Log In

About | Accounts | Fees | Privacy | Security Center | Contact Us | User Agreement | Developers | Jobs | Mobile | Plus Card | Referrals | Shops | Mass Pay

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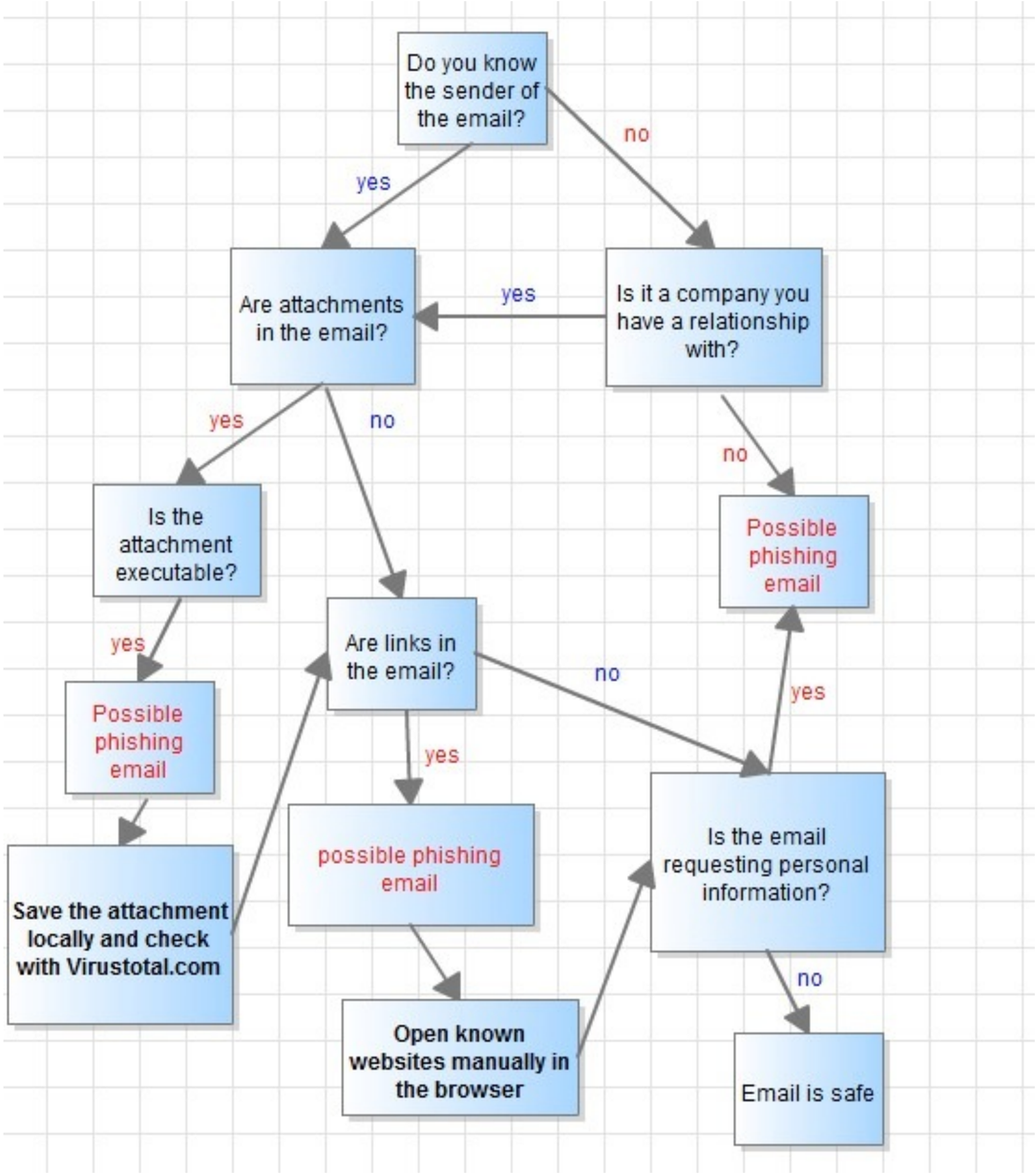
Information about FDIC pass-through insurance

Done

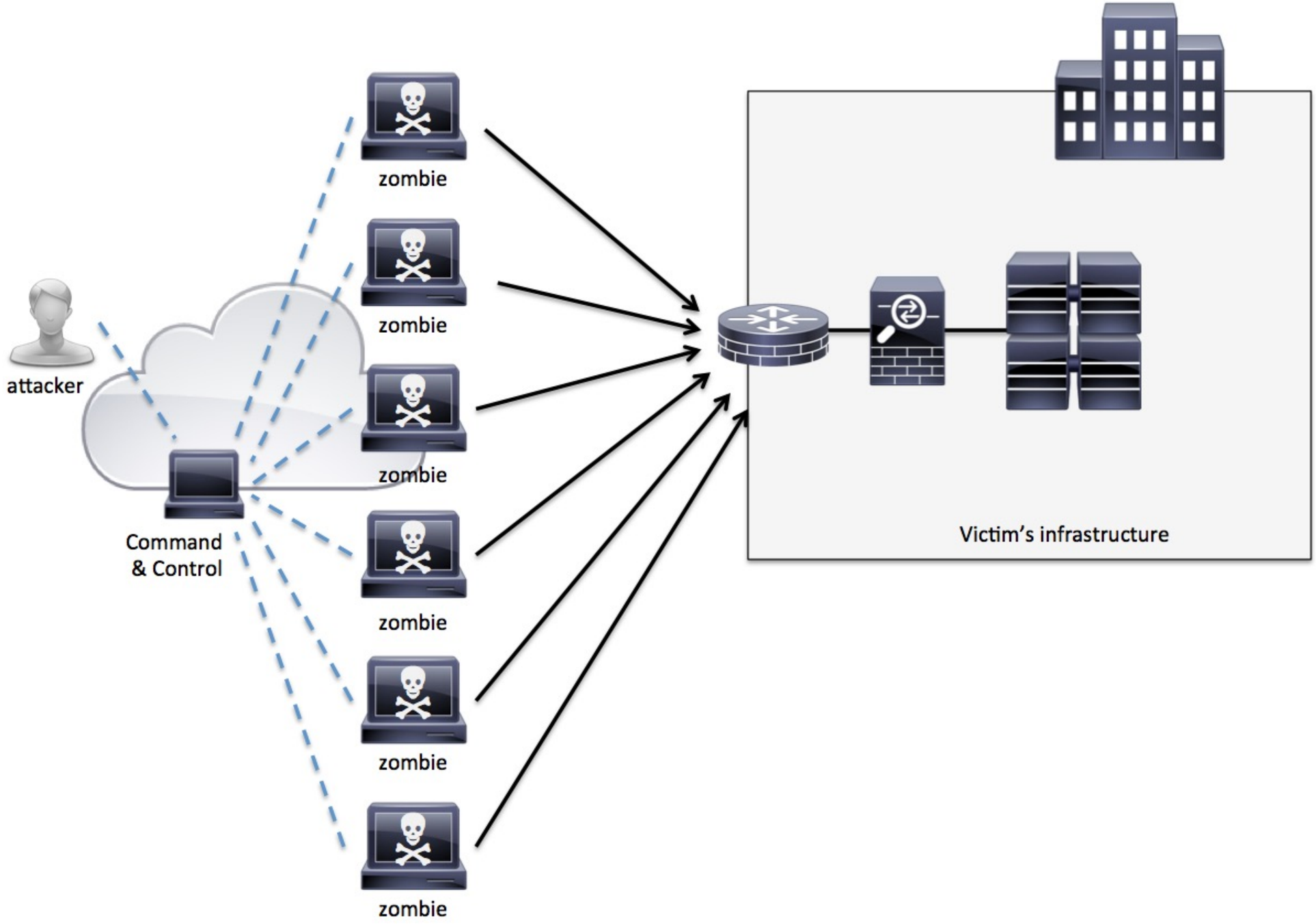
www.paypal.com



Use this simple, handy chart to know if an email is phishing or not

↑
Sarcasm

Bot herders use computers under their control to mine Bitcoin & other crypto-currencies


zombie
zombie
zombie
zombie
zombie
zombie
zombie
attacker
Command
& Control
Victim's infrastructure

16,800 daily DDoS attacks

Digital Attack Map

Top daily DDoS attacks worldwide

Map · Gallery · Understanding DDoS · FAQ · About

March 24

2015

Showing All Countries

Show Attacks

Large | Unusual | Combined

Large attacks on Brazil, United States, Malaysia, + 10 others

Color Attacks By

Type | Source Port | Duration | Dest. Port

- TCP Connection
- Volumetric
- Fragmentation
- Application

Size (Bandwidth, in Gbps)

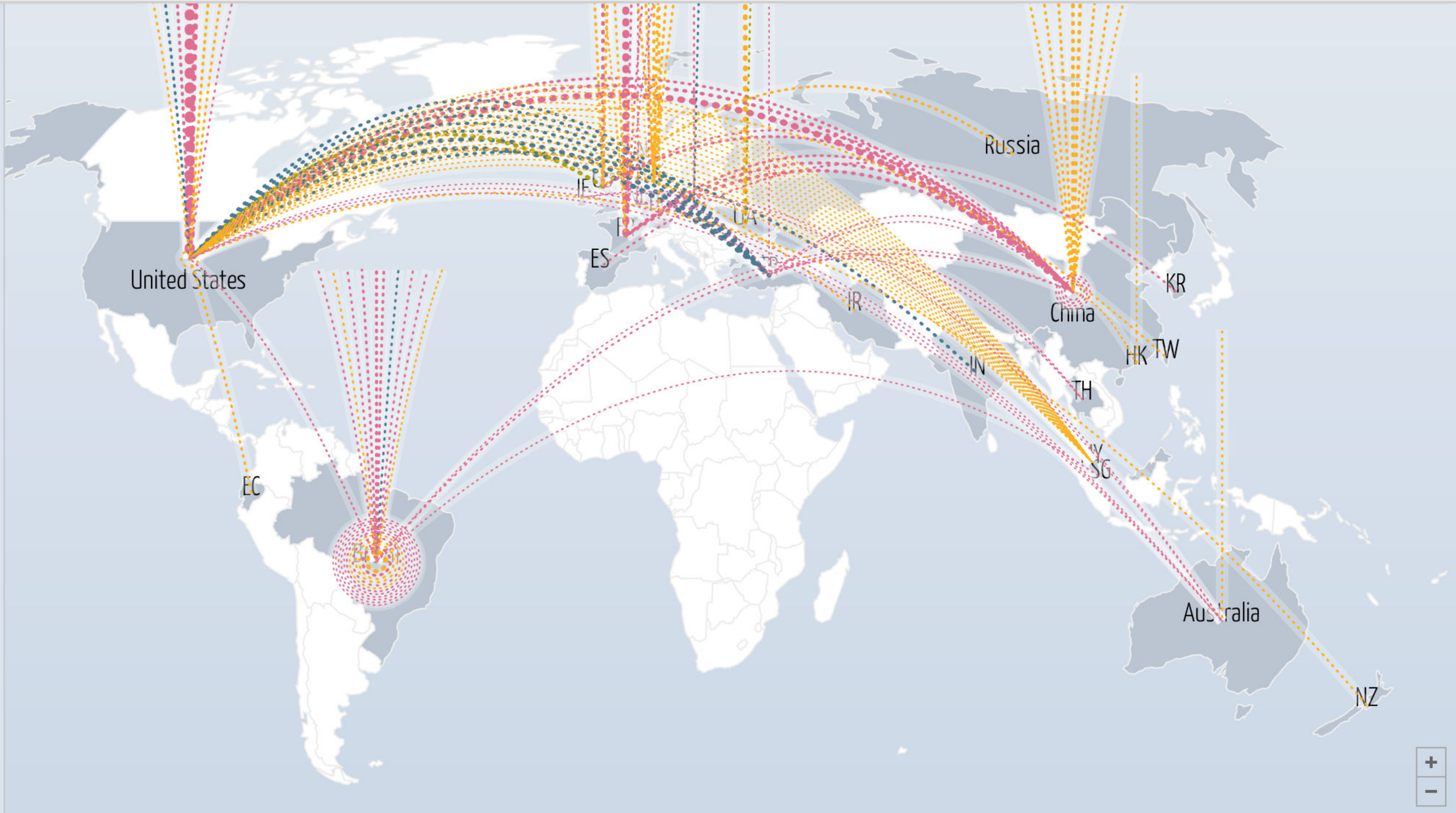
25 5 1

Shape (source + destination)

between two countries

internal

either source or dest. unknown



Attack Bandwidth (All Countries), Gbps

Dates are shown in GMT

Data shown represents the top ~2% of reported attacks

400

Mar 24

Digital Attack Map

Top daily DDoS attacks worldwide

Map · Gallery · Understanding DDoS · FAQ · About

March 26

2019

Showing All Countries

Show Attacks

Large | Unusual | Combined

Large attacks on China, Saudi Arabia, and 2 others

Color Attacks By

Type

Duration

- TCP Connection
- Volumetric
- Fragmentation
- Application

Source	United States
Destination	Australia
Max Mbps	30,133
Start (GMT)	Mar 26 2019, 00:13
End (GMT)	Mar 26 2019, 00:22
Duration	9 minutes
Source Ports	0-1,123-124,...
Dest. Ports	0,25075,...
Class	Fragmentation
Subclass	IP Fragment

Size (Bandwidth, in Gbps)

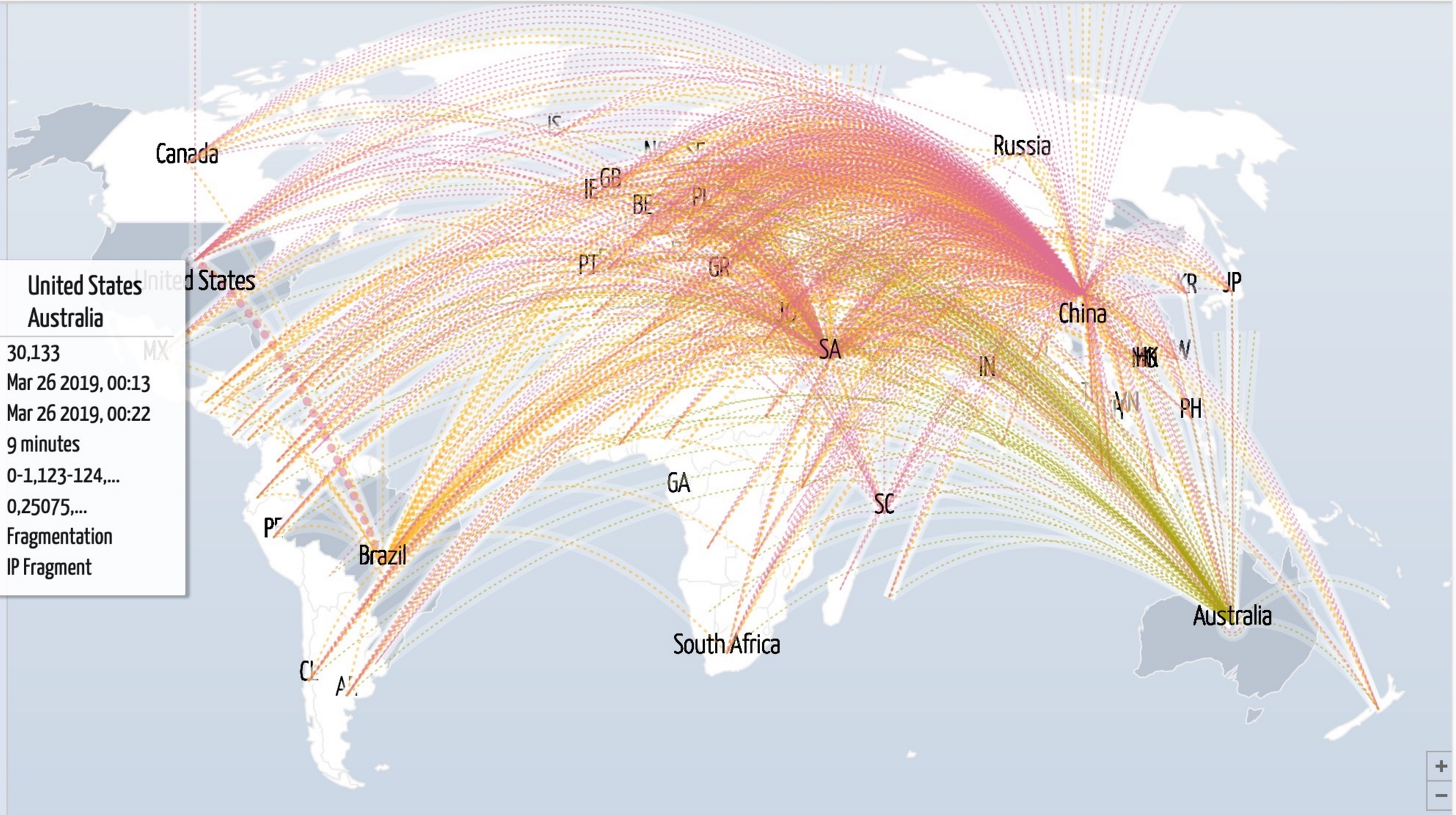
25 5 1

Shape (source + destination)

between two countries

internal

either source or dest. unknown



Attack Bandwidth (All Countries), Gbps Dates are shown in GMT Data shown represents the top ~.1% of reported attacks. Graph below is capped at 10k Gbps

Presented by Jigsaw

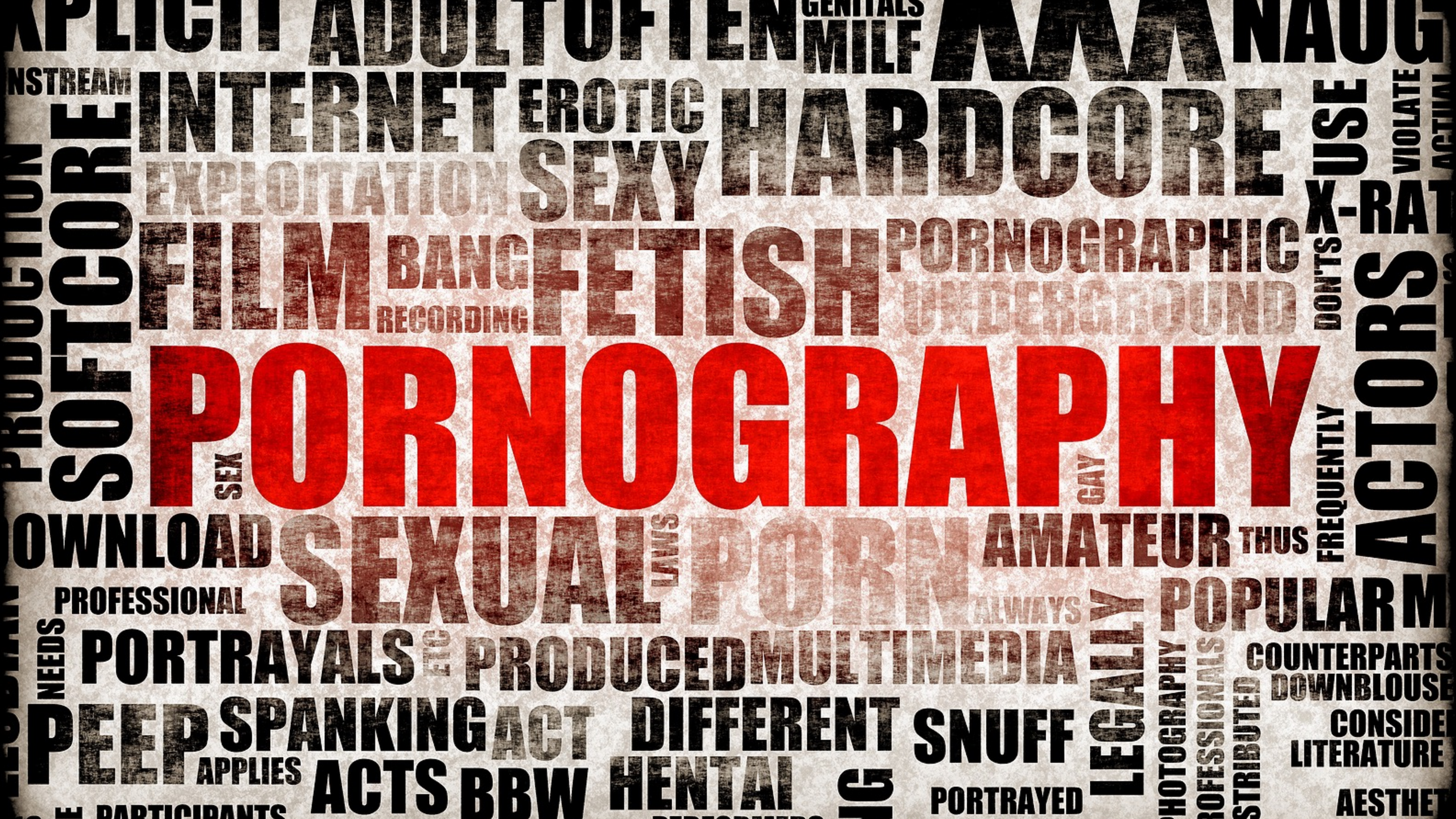
“*Keystroke logging*, often referred to as *keylogging* or *keyboard capturing*, is the action of recording (logging) the keys struck on a keyboard, typically covertly, so that person using the keyboard is unaware that their actions are being monitored. Data can then be retrieved by the person operating the logging program. A *keylogger* can be either software or hardware.” —Wikipedia

Types of info collected by a keylogger

- All keystrokes
- Passwords
- Credit card info
- URLs
- Running apps
- Instant messages
- Sent emails
- Screencaptures

Hardware keylogger

VideoGhost, a video keylogger that takes screenshots every few seconds & stores them

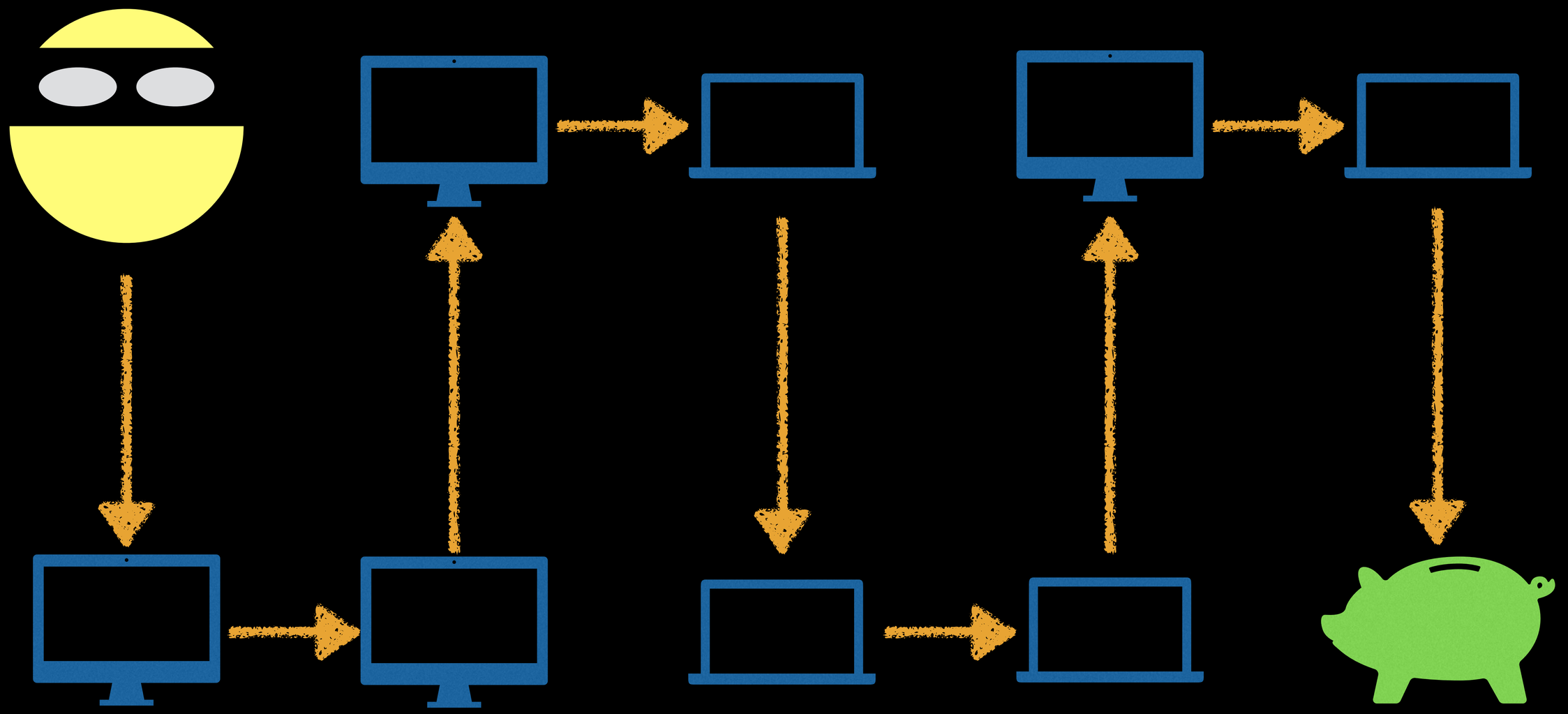

XPLICIT
ADULT
OFTEN
GENITALS
MILF
XXX
NAUG
NSTREAM
INTERNET
EROTIC
HARDCORE
USE
VIOLATE
ACTUAL
PRODUCTION
SOFTCORE
EXPLOITATION
SEXY
X-RAT
FILM
BANG
RECORDING
FETISH
PORNOGRAPHIC
UNDERGROUND
DON'TS
ACTORS
PORNOGRAPHY
SEX
GAY
FREQUENTLY
OWNLOAD
SEXUAL
LAWS
PORN
AMATEUR
THUS
PROFESSIONAL
ALWAYS
POPULAR
M
NEEDS
PORTRAYALS
ETC
PRODUCED
MULTIMEDIA
LEGALLY
PHOTOGRAPHY
PROFESSIONALS
DISTRIBUTED
COUNTERPARTS
DOWNBLOUSE
PEEP
SPANKING
ACT
DIFFERENT
SNUFF
CONSIDE
LITERATURE
APPLIES
ACTS
BBW
HENTAI
PORTRAYED
AESTHET
PARTICIPANTS

Child porn

AmerenUE

Bank of America

citibank



Botnets hired out to perform services

Mirrors legitimate commercial software industry

Services & software advertised

0x-booter | Dashboard

https://0x-booter.pw/panel/home.php#

0x-booter

Discord

Dashboard

PAGES

Tools

Status

Servers

Products

HELP CENTER

FAQ

Tickets

ADMINISTRATORS

Dashboard

Welcome ricknox

NETWORK SPEED	BOTS CONNECTED	RUNNING ATTACKS	TOTAL ATTACKS
GB/S		1	530

UPDATES

Posted: 05-12

Good News

0x-booter is now 100% operating

Posted: 01-12

Network problem on Bushido

we don't know in how much time this issue are resolve

Sorry about this unavailability.

You can check network status here : https://0x-booter.pw/panel/status.php

Posted: 28-11

0x-booter Come Back

Hello,

RICKNOX

Welcome to our site, if you need help simply reply to this message, we are online and ready to help.

Customer Support 12 minutes ago

Type here and press enter..

0 Concurrents

0 Max Boot Time

Online

1

0x-booter | Status

https://0x-booter.pw/panel/status.php

0x-booter

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ADMINISTRATORS

Zull

SUPPORTS

Haxw00xBLF

Monitors

Status	Last 7 Days		Type	18 Dec	17 Dec	16 Dec	15 Dec	14 Dec	13 Dec	12 Dec
	99.840%	0x-booter Website	http	100.00%	100.00%	99.809%	99.791%	99.443%	100.00%	100.00%
	19.540%	Bushido	ping	0.000%	0.000%	0.000%	0.000%	14.003%	35.834%	69.811%
	100.00%	Deucalion	ping	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Overall Uptime

66.667% (last 24 hours)
(468 minutes of downtime)

73.127% (last 7 days)
(7343 minutes of downtime)

79.112% (last 30 days)
(26462 minutes of downtime)

Latest Downtime

It was recorded (for the monitor 0x-booter Website) on 2018-12-16 09:22:47 and the downtime lasted for 0 hrs, 1 mins.

Quick stats

1 monitors down
Refreshing in 23 secs

Up	2
Down	1
Paused	0

Online

0x-booter | Products

https://0x-booter.pw/panel/products.php

0x-booter

Discord

Dashboard

PAGES

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HELP CENTER

FAQ

Tickets

ADMINISTRATORS

Zull

SUPPORTS

Haxw00xBLF

VIP NETWORK

NAME	PRICE	ATTACK TIME	CONCURRENTS	LENGTH	ACTIONS
VIP Bronze	$100	1800sec	2	1 Months	
VIP Silver	$120	3600sec	2	1 Months	
VIP Gold	$150	7200sec	2	1 Months	

DEUCALION - MONTH

You need package for use Deucalion

Price: $50

Buy with CoinPayments!

HOST BLACKLIST - MONTH

Host

http://example.com

If you bought it and your domain isn't in blacklist list open ticket and put transaction-

Price: $20

Buy with CoinPayments!

HOST BLACKLIST - LIFETIME

Host

http://example.com

If you bought it and your domain isn't in blacklist list open ticket and put transaction-

Price: $200

Buy with CoinPayments!

Online

March 2007

Gozi Trojan steals data, encrypts it, & sends back to owners $1000-$2000 for basic version

Add-ons start at $20

2012

DDoS attack? $150/week

1 day of call flooding? $20–$50

SMS flooding (1000 text messages)? $15

1 million spam messages? $200

1 million phishing messages? $500

2017

IoT botnet sellers advertise simple set-up services

Minimum orders are 50–100 hosts

$0.25–$1 per host

2019

DDoS attacks rented out for about $25 per hour

2007

- Credit card & CVV: $1
- Credit card, CVV, & SSN: $10
- Full bank account: $50

2019

- SSN: $1
- Credit card & CVV: $5
- Verified by VISA + ID: $15
- Driver's license: $20
- Online payment info: $20–$200
- *Fullz* (name, SSN, birth date, credit card, CVV, & account numbers): $30–$110

Everything can be outsourced

- Buy hosts for phishing site
- Buy spam services to lure victims
- Buy drops to send money to
- Pay cashier to cash out accounts

Revenues (2007): $150,000,000 per year

Glavmed operation (2007–2010): $150,000,000

Affking operation (2010): $500,000/month

SpamIt operation (2008–2012): $150,000,000

ATLANTA
BREAD
COMPANY
BAKERY CAFE
intel inside
pentium 4
Designed for
Microsoft
Windows XP

Wi-Fi

Sniffers

DISCOVERY &
HEALTH SECTION
WHAT'S SHAKIN' IN THE
PET EVENT CENTRE?

What's a *packet sniffer*?

A program and/or device that captures the data passing through a network

» Where data is coming from
» Where data is going
» What the data is

WIRESHARK

www.wireshark.org

(Untitled) - Ethereal

File Edit View Go Capture Analyze Statistics Help

Filter: imap contains LOGIN | Expression... | Clear | Apply

No.	Time	Source	Destination	Protocol	Info
392	46.193576	66.39.82.33	192.168.2.111	IMAP	Response: * OK [CAPABILITY IMAP4REV1 LITERAL+ SASL-IR LOGIN-REFERRALS AUTH=LOGIN] g
395	46.254800	66.39.82.33	192.168.2.111	IMAP	Response: * CAPABILITY IMAP4REV1 LITERAL+ IDLE NAMESPACE MAILBOX-REFERRALS BINARY U
396	46.260155	192.168.2.111	66.39.82.33	IMAP	Request: 1 LOGIN "[redacted]" "[redacted]"

- Frame 396 (98 bytes on wire, 98 bytes captured)
- Ethernet II, Src: 00:02:2d:2b:e7:34, Dst: 00:0f:3d:84:d4:37
- Internet Protocol, Src Addr: 192.168.2.111 (192.168.2.111), Dst Addr: 66.39.82.33 (66.39.82.33)
- Transmission Control Protocol, Src Port: 50527 (50527), Dst Port: imap2 (143), Seq: 15, Ack: 371, Len: 32
- Internet Message Access Protocol

```
0000  00 0f 3d 84 d4 37 00 02  2d 2b e7 34 08 00 45 00   ..=..7.. -+.4..E.
0010  00 54 fc 1e 40 00 40 06  e7 25 c0 a8 02 6f 42 27   .T..@.@. .%...oB'
0020  52 21 c5 5f 00 8f 90 7f  de ed f1 34 df ce 80 18   R!._.... ...4....
0030  07 cc cd 8f 00 00 01 01  08 0a 00 29 23 9d 8e 64   ........ ...)#..d
0040  5f 10 31 20 4c 4f 47 49  4e 20 22 73 63 6f 74 74   _.1 LOGI N "[redacted]
0050  22 20 22 5c 5c 30 37 29  69 4f 54 61 26 5c 5c 22   " "[redacted]"
0060  0d 0a                                              ..
```

File: (Untitled) 1185 KB 00:01:51 Drops: 0 | P: 1711 D: 3 M: 0

20100511.pcap - Wireshark

File Edit View Go Capture Analyze Statistics Telephony Tools Help

Filter: http contains facebook | Expression... | Clear | Apply

No.	Time	Source	Destination	Protocol	Info
13	6.294614	192.168.1.114	66.220.145.13	HTTP	GET /ajax/intent.php?__a=1&filter=h&pending=true&request_type=1
168	106.564880	192.168.1.114	69.63.176.174	HTTP	GET /x/3806658556/false/p_504568267=3 HTTP/1.1
364	272.187522	192.168.1.114	69.63.176.174	HTTP	GET /x/2004290339/false/p_504568267=3 HTTP/1.1
4334	298.940663	192.168.1.139	66.220.145.35	HTTP	GET /p HTTP/1.1
4336	299.056349	192.168.1.139	66.220.145.35	HTTP	GET /x/1262269691/false/p_1158900097=29 HTTP/1.1
4349	299.223074	192.168.1.139	69.63.189.34	HTTP	GET /ajax/presence/reconnect.php?__a=1&reason=0&iframe_loaded=t
4432	299.514930	192.168.1.139	66.220.145.35	HTTP	GET /x/3366637175/false/p_1158900097=0 HTTP/1.1
4433	299.515794	192.168.1.139	66.220.145.35	HTTP	[TCP Out-Of-Order] GET /x/3366637175/false/p_1158900097=0 HTTP/
4444	299.732803	192.168.1.139	69.63.189.34	HTTP	POST /ajax/chat/buddy_list.php?__a=1 HTTP/1.1 (application/x-w
4760	302.490790	192.168.1.139	69.63.189.34	HTTP	GET /ajax/chat/history.php?__a=1&id=1348823550 HTTP/1.1
5088	305.877586	192.168.1.114	69.63.189.31	HTTP	GET /ajax/intent.php?__a=1&filter=h&pending=true&request_type=1
6639	324.403128	192.168.1.139	77.67.87.122	HTTP	GET /hprofile-ak-sf2p/hs649.snc3/27486_100000479785789_586_q.jp
7053	335.333305	192.168.1.139	77.67.87.122	HTTP	GET /hprofile-ak-sf2p/hs309.ash1/23244_883125579_9824_q.jpg HTT

```
Keep-Alive: 115\r\n
Connection: keep-alive\r\n
X-SVN-Rev: 244938\r\n
Referer: http://www.facebook.com/profile.php?id=504568267&v=wall&story_fbid=118384834861439\r\n
[truncated] Cookie: __utma=87286159.1316193368.1226010709.1257630126.1257734728.87; datr=1233161259-6735bad27950d744d1218866ad8da792d7b1eb02acc1c4
\r\n
```

```
01b0  35 39 2d 31 2c 75 74 66  2d 38 3b 71 3d 30 2e 37   59-1,utf -8;q=0.7
01c0  2c 2a 3b 71 3d 30 2e 37  0d 0a 4b 65 65 70 2d 41   ,*;q=0.7 ..Keep-A
01d0  6c 69 76 65 3a 20 31 31  35 0d 0a 43 6f 6e 6e 65   live: 11 5..Conne
01e0  63 74 69 6f 6e 3a 20 6b  65 65 70 2d 61 6c 69 76   ction: k eep-aliv
01f0  65 0d 0a 58 2d 53 56 4e  2d 52 65 76 3a 20 32 34   e..X-SVN -Rev: 24
0200  34 39 33 38 0d 0a 52 65  66 65 72 65 72 3a 20 68   4938..Re ferer: h
0210  74 74 70 3a 2f 2f 77 77  77 2e 66 61 63 65 62 6f   ttp://ww w.facebo
0220  6f 6b 2e 63 6f 6d 2f 70  72 6f 66 69 6c 65 2e 70   ok.com/p rofile.p
0230  68 70 3f 69 64 3d 35 30  34 35 36 38 32 36 37 26   hp?id=50 4568267&
0240  76 3d 77 61 6c 6c 26 73  74 6f 72 79 5f 66 62 69   v=wall&s tory_fbi
0250  64 3d 31 31 38 33 38 34  38 33 34 38 36 31 34 33   d=118384 83486143
0260  39 0d 0a 43 6f 6f 6b 69  65 3a 20 5f 5f 75 74 6d   9..Cooki e: __utm
0270  61 3d 38 37 32 38 36 31  35 39 2e 31 33 31 36 31   a=872861 59.13161
0280  39 33 33 36 38 2e 31 32  32 36 30 31 30 37 30 39   93368.12 26010709
0290  2e 31 32 35 37 36 33 30  31 32 36 2e 31 32 35 37   .1257630 126.1257
```

HTTP Referer (http.referer),... | Packets: 52773 Displayed: 133 Marked: 0 | Profile: Default

20100511.pcap - Wireshark

File Edit View Go Capture Analyze Statistics Telephony Tools Help

Filter: http contains facebook | Expression... | Clear | Apply

No.	Time	Source	Destination	Protocol	Info
13	6.294614	192.168.1.114	66.220.145.13	HTTP	GET /ajax/intent.php?__a=1&filter=h&pending=true&request_type=1
168	106.564880	192.168.1.114	69.63.176.174		e/p_504568267=3 HTTP/1.1
364	272.187522	192.168.1.114	69.63.176.174		e/p_504568267=3 HTTP/1.1
4334	298.940663	192.168.1.139	66.220.145.35		
4336	299.056349	192.168.1.139	66.220.145.35		e/p_1158900097=29 HTTP/1.1
4349	299.223074	192.168.1.139	69.63.189.34		onnect.php?__a=1&reason=0&iframe_loaded=t
4432	299.514930	192.168.1.139	66.220.145.35		e/p_1158900097=0 HTTP/1.1
4433	299.515794	192.168.1.139	66.220.145.35		/x/3366637175/false/p_1158900097=0 HTTP/
4444	299.732803	192.168.1.139	69.63.189.34		list.php?__a=1 HTTP/1.1 (application/x-w
4760	302.490790	192.168.1.139	69.63.189.34		.php?__a=1&id=1348823550 HTTP/1.1
5088	305.877586	192.168.1.114	69.63.189.31		_a=1&filter=h&pending=true&request_type=1
6639	324.403128	192.168.1.139	77.67.87.122		hs649.snc3/27486_100000479785789_586_q.jp
7053	335.333305	192.168.1.139	77.67.87.122		hs309.ash1/23244_883125579_9824_q.jpg HTT

Mark Packet (toggle)
Set Time Reference (toggle)
Apply as Filter
Prepare a Filter
Conversation Filter
Colorize Conversation
SCTP
Follow TCP Stream
Follow UDP Stream
Follow SSL Stream
Copy
Decode As...
Print...
Show Packet in New Window

```
Keep-Alive: 115\r\n
Connection: keep-alive\r\n
X-SVN-Rev: 244938\r\n
Referer: http://www.facebook.com/profile.php?id=504568267&v=wall&story_
[truncated] Cookie: __utma=87286159.1316193368.1226010709.1257630126.1
\r\n
```

```
0000  00 21 29 c8 71 84 00 1f  5b d0 be 27 08 00 45 00   .!).q... [..'..E.
0010  04 cf 51 22 40 00 40 06  4f 03 c0 a8 01 72 42 dc   ..Q"@.@. O....rB.
0020  91 0d e8 25 00 50 a8 01  8d a8 55 fa 64 2e 80 18   ...%.P.. ..U.d...
0030  ff ff 7b af 00 00 01 01  08 0a 2e 40 90 e4 89 1b   ..{..... ...@....
0040  8d f1 47 45 54 20 2f 61  6a 61 78 2f 69 6e 74 65   ..GET /a jax/inte
0050  6e 74 2e 70 68 70 3f 5f  5f 61 3d 31 26 66 69 6c   nt.php?_ _a=1&fil
0060  74 65 72 3d 68 26 70 65  6e 64 69 6e 67 3d 74 72   ter=h&pe nding=tr
0070  75 65 26 72 65 71 75 65  73 74 5f 74 79 70 65 3d   ue&reque st_type=
0080  31 20 48 54 54 50 2f 31  2e 31 0d 0a 48 6f 73 74   1 HTTP/1 .1..Host
0090  3a 20 77 77 77 2e 66 61  63 65 62 6f 6f 6b 2e 63   : www.fa cebook.c
00a0  6f 6d 0d 0a 55 73 65 72  2d 41 67 65 6e 74 3a 20   om..User -Agent:
00b0  4d 6f 7a 69 6c 6c 61 2f  35 2e 30 20 28 4d 61 63   Mozilla/ 5.0 (Mac
00c0  69 6e 74 6f 73 68 3b 20  55 3b 20 49 6e 74 65 6c   intosh;  U; Intel
00d0  20 4d 61 63 20 4f 53 20  58 20 31 30 2e 35 3b 20    Mac OS  X 10.5;
```

Ready to load or capture | Packets: 52773 Displayed: 133 Marked: 0 | Profile: Default

Follow TCP Stream

Stream Content

```
GET /ajax/intent.php?__a=1&filter=h&pending=true&request_type=1 HTTP/1.1
Host: www.facebook.com
User-Agent: Mozilla/5.0 (Macintosh; U; Intel Mac OS X 10.5; en-US; rv:1.9.2.3) Gecko/20100401 Firefox/3.6.3
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-us,en;q=0.5
Accept-Encoding: gzip,deflate
Accept-Charset: ISO-8859-1,utf-8;q=0.7,*;q=0.7
Keep-Alive: 115
Connection: keep-alive
X-SVN-Rev: 244938
Referer: http://www.facebook.com/profile.php?id=504568267&v=wall&story_fbid=118384834861439
Cookie: __utma=87286159.1316193368.1226010709.1257630126.1257734728.87;
datr=1233161259-6735bad27950d744d1218866ad8da792d7b1eb02acc1c44d0580c; lxe=yunicornechu%40yahoo.com; xs=6937dd979d5f3e2ae4e4ae22912f65c9;
lo=hExjWSXqWGyly5VASXeUeQ; lxr=1; locale=en_US; c_user=504568267; sct=1272591608; sid=3; x-referer=http%3A%2F%2Fwww.facebook.com%2F%3Fref%
3Dlogo%23%2Fprofile.php%3Fid%3D504568267%26v%3Dwall%26story_fbid%3D118384834861439;
presence=DJ273608322G14H0L504568267A3BF273608325110WMblcMsndPBbloMbvtP273590669BctP273604456BsbPBtA_7bQBuctP273608321BsA0QBblADacA29V27360
8222Z284BlcPBcvrADrA0.96BtsP273588495QQQ; cur_max_lag=2; e=n

[12968 bytes missing in capture file]Ys....x.....
m..Z.......ek.-!
J*%.k..........I.....W..!
.,...!D5...d.k.z.x..2.gv!..0.......|."..+.
... S....e.......b..+..M....~B..-......>.6..tEu,..f..K/.._z...2w...a.....Q...#6..t..0.$......r.......l..
.......K..w.p..,.......a(........].>
```

Find | Save As | Print | Entire conversation (10512 bytes) | ○ ASCII ○ EBCDIC ○ Hex Dump ○ C Arrays ◉ Raw

Help | Filter Out This Stream | Close

Follow TCP Stream

Stream Content

```
GET /ajax/intent.php?__a=1&filter=h&pending=true&request_type=1 HTTP/1.1
Host: www.facebook.com
User-Agent: Mozilla/5.0 (Macintosh; U; Intel Mac OS X 10.5; en-US; rv:1.9.2.3) Gecko/20100401 Firefox/3.6.3
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-us,en;q=0.5
Accept-Encoding: gzip,deflate
Accept-Charset: ISO-8859-1,utf-8;q=0.7,*;q=0.7
Keep-Alive: 115
Connection: keep-alive
X-SVN-Rev: 244938
Referer: http://www.facebook.com/profile.php?id=504568267&v=wall&story_fbid=118384834861439
Cookie: __utma=87286159.1316193368.1226010709.1257630126.1257734728.87
datr=1233161259-6735bad27950d744d1218866ad8da792d7b1eb02acc1c44d0580c; lxe=yunicornechu%40yahoo.com; xs=6937dd979d5f3e2ae4e4ae22912f65c9;
lo=hExjWSXqWGyly5VASXeUeQ; lxr=1; locale=en_US; c_user=504568267; sct=1272591608; sid=3; x-referer=http%3A%2F%2Fwww.facebook.com%2F%3Fref%
3Dlogo%23%2Fprofile.php%3Fid%3D504568267%26v%3Dwall%26story_fbid%3D118384834861439;
presence=DJ273608322G14H0L504568267A3BF273608325110WMblcMsndPBbloMbvtP273590669BctP273604456BsbPBtA_7bQBuctP273608321BsA0QBblADacA29V27360
8222Z284BlcPBcvrADrA0.96BtsP273588495QQQ; cur_max_lag=2; e=n

[12968 bytes missing in capture file]Ys....x.....
m..Z.......ek.-!
J*%.k..........I.....W..!
.,...!D5...d.k.z.x..2.gv!..0.......|."..+.
... S....e.......b..+..M....~B..-......>.6..tEu,..f..K/.._z...2w...a.....Q...#6..t..0.$......r.......l..
.......K..w.p..,.......a(........].>
```

Find | Save As | Print | Entire conversation (10512 bytes) | ○ ASCII ○ EBCDIC ○ Hex Dump ○ C Arrays ◉ Raw

Help | Filter Out This Stream | Close

facebook Search Home Profile Account

View Photos of Kathryn (936)
View Videos of Kathryn (3)
Send Kathryn a Message

And when things start to happen, don't worry. Don't stew. Just go right along. You'll start happening too.

Information

Networks:
Washington University in St. Louis '09
Vanderbilt Grad Student '12

Relationship Status:
Married to
Rebecca Estee

Birthday:
November 25, 1986

Current City:
Saint Louis, MO

Friends

464 friends See All

Kathryn Austin

Add as Friend

Wall Info

Kathryn only shares some of her profile information with everyone. If you know Kathryn, send her a message or add her as a friend.

About Me

Basic Info

Sex:	Female
Birthday:	November 25, 1986
Siblings:	Jay Austin
Parents:	Gene Austin
Relationship Status:	Married to Rebecca Estee
Anniversary:	August 20, 2005
Current City:	Saint Louis, Missouri
Hometown:	Austin, Texas
Religious Views:	everything and nothing, including but not limited to: DDR

Bio

There is always a reason to celebrate.

Favorite Quotations

How very special are we,
for just a moment to be,
part of life's eternal rhyme,
how very special are we,
to have on our family tree,
Mother Earth and Father Time.
-Charlotte's Web

Work and Education

Grad School Vanderbilt University '12 M.Ed.

Create an Ad

St Louis Bucket List
Things to do in St Louis before you die. One huge coupon emailed daily.
Like

Aspiring Photographer?
Earn your degree 100% online. Over 40 courses to choose from. Request FREE Information Today!
Like

Self-Publish Your Book
New book design, editing & marketing programs available to help you successfully self-publish. Click for 555 free book promotion tips.
Like

More Ads

Chat (43)

Raymond Colletti

Mario Treto Jr.

Tony Renner

Amy Trummer

Andy Doy

Jennifer Serendipitous Minkowitz

Report/Block this Person

Share

Work and Education

Grad School	**Vanderbilt University '12** M.Ed. Human Development Counseling
College	**Washington University in St. Louis '09**
High School	**Westlake High School '05**

Likes and Interests

Activities	Mentoring, Singing, Geocaching	Mentoring
Interests	Complexity, Simplicity	Complexity
Music	More Fools than Wise, The Bright Light Social Hour, Beastpower	More Fools than Wise
Books	Oh, the Places You'll Go!	Oh, the Places You'll Go!
Television	SpongeBob SquarePants, Degrassi	SpongeBob SquarePants

Show other Pages

Chat (43)

Report/Block this Person

Share

Activities	Mentoring, Singing, Geocaching	Mentoring
Interests	Complexity, Simplicity	Complexity
Music	More Fools than Wise, The Bright Light Social Hour, Beastpower	More Fools than Wise
Books	Oh, the Places You'll Go!	Oh, the Places You'll Go!
Television	SpongeBob SquarePants, Degrassi	SpongeBob SquarePants

Show other Pages

Contact Information

Contact Info	Mobile Number:	5126951475
	Website:	http://fools.wustl.edu
	Facebook Profile:	http://www.facebook.com/austin.kathryn

Firesheep

Appeared October 27, 2010

Firefox extension

Makes *cookie sidejacking* easy

hide | Link to this page | Add to Widget | Add to aStore | Share on Twitter | Your Earnings Summary | What's New | Discussion Boards | amazonassociates
Settings

The All-New Kindle: $139

amazon.com Prime

Hello, Ralph S. Granneman. We have recommendations for you. (Not Ralph?)

Ralph's Amazon.com | Today's Deals | Gifts & Wish Lists | Gift Cards

Your Account | Help

Shop All Departments | Search | All Departments | GO | Cart | Your Lists

- Books
- Movies, Music & Games
- Digital Downloads
- Kindle
- Computers & Office
- Electronics
- Home, Garden & Pets
- Grocery, Health & Beauty
- Toys, Kids & Baby
- Clothing, Shoes & Jewelry
- Sports & Outdoors
- Tools & Home Improvement
- Automotive & Industrial

Outfit Your Kindle

Colorful new covers and sleeves. Shop now

Inspired by Your Shopping Trends

Fight the Cold
Visit Our Winter Warm-Up Store
Shop now

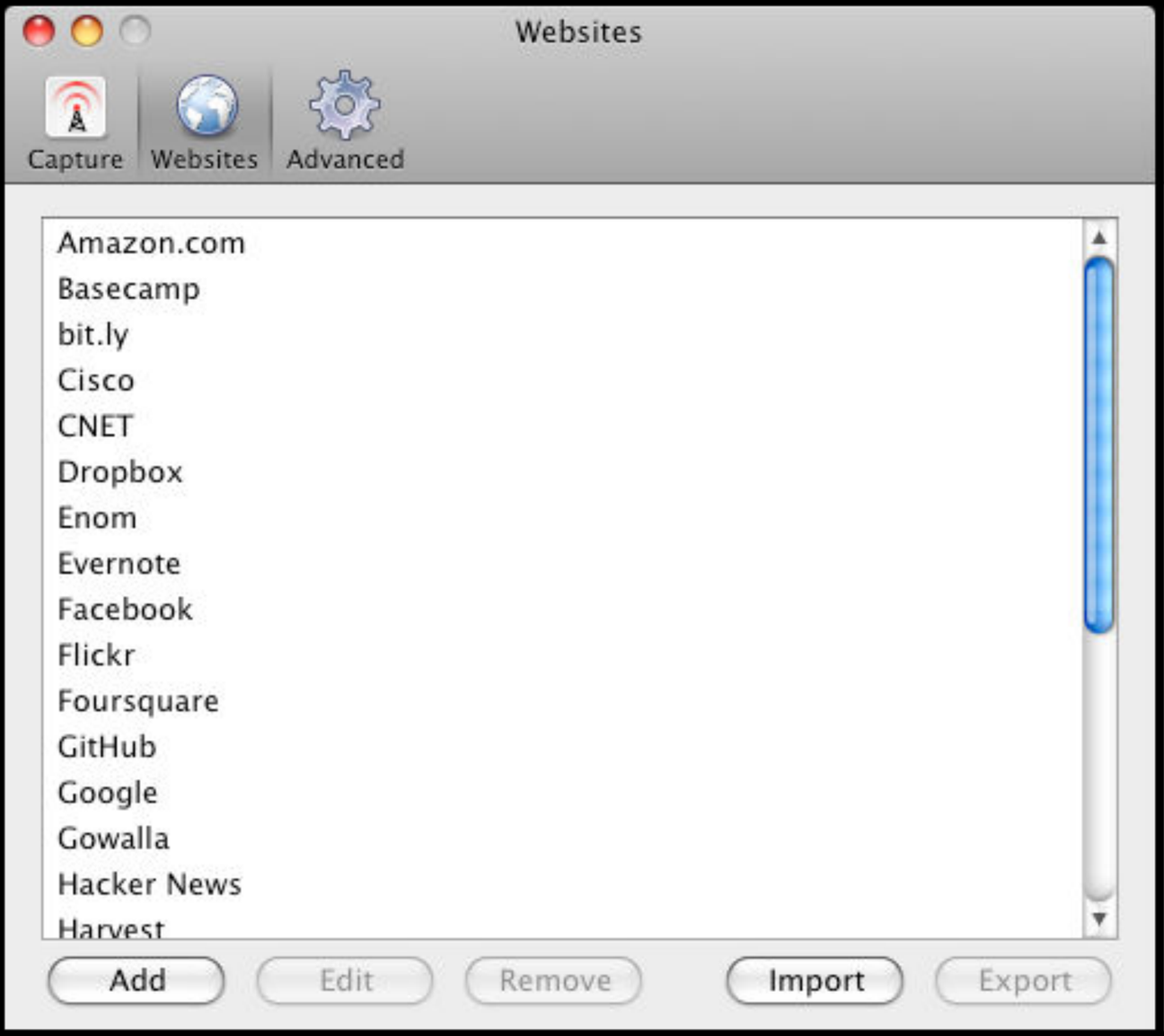
Something for Everyone
Shop Gifts & Wish Lists

Great Features, Low Prices
HDTVs under $499
Shop now

Amazon Windowshop for iPad
Explore and shop like never before
Learn more

Get a Free Gund Bear

For a limited time, when you


Websites
Capture
Websites
Advanced
Amazon.com
Basecamp
bit.ly
Cisco
CNET
Dropbox
Enom
Evernote
Facebook
Flickr
Foursquare
GitHub
Google
Gowalla
Hacker News
Harvest
Add
Edit
Remove
Import
Export

Websites
Capture
Websites
Advanced
Foursquare
GitHub
Google
Gowalla
Hacker News
Harvest
Windows Live
New York Times
Pivotal Tracker
ToorCon: San Diego
Slicehost SliceManager
tumblr.com
Twitter
Wordpress
Yahoo
Yelp
Add
Edit
Remove
Import
Export

Firesheep

Start Capturing

Denise Lieberman
Facebook

Kelly Moffatt
Facebook

scottgranneman
Twitter

John
Yahoo

scott@granneman.com
Google

Scott Granneman
Facebook

Kellymoffattmsw@gmail.com
Google

Adam Shriver
Facebook

stlactivisthub
Twitter

Kelly Moffatt
Facebook

Alice, or perhaps Bob
Windows Live

WashUPeaceCoalition@gmail.com
Google

Google

Web Images Videos Maps News Shopping Gmail more ▾ iGoogle | Search settings | Sign in

Google

Advanced Search
Language Tools

Google Search I'm Feeling Lucky

Find out where to vote today with Google Maps.

Advertising Programs Business Solutions About Google

© 2010 - Privacy

Change background image

Firesheep

Start Capturing

Denise Lieberman
Facebook
Kelly Moffatt
Facebook
scottgranneman
Twitter
John
Yahoo
scott@granneman.com
Google
Scott Granneman
Facebook
Kellymoffattmsw@gmail.com
Google
Adam Shriver
Facebook
stlactivisthub
Twitter
Kelly Moffatt
Facebook
Alice, or perhaps Bob
Windows Live
WashUPeaceCoalition@gmail.com
Google

Google | Hotmail - carlaallen11@hotmai... | Facebook (5)

facebook 5 | Search | Home | Profile | Account

Adam Shriver
Edit My Profile

News Feed
Messages 5,489
Events 111
Friends 586

Responsible Publ... 22
STACS (Student A...
Liberals/Progres... 4
PROGRESSIVES 3
Create Group...
See All

Game Requests 49
Application Requests 48
More 12

You are currently offline. To chat with your friends, go online.

Today is Election Day
What's this? • close

Find your polling place on the U.S. Politics Page and click the "I Voted" button to tell your friends you voted.

Thanks for voting!

0734721 1
People on Facebook Voted

Amy Graham, Laura Weis, and 712 other friends have voted.

News Feed
Top News · Most Recent 300+

Share: Status Question Photo Link Video

Emily Smith Lecuyer and 16 other friends like a link.

WTF has Obama done so far?
whatthefuckhasobamadonesofar.com

9 hours ago · Share

Stephen Bolen A lot, actually.
9 hours ago · 9 7 · Comment · Like

Adam David Scott pardon the address language...still an informative/entertaining site for those okay with strong language.
9 hours ago · 3 1 · Comment · Like

Events See All
What are you planning?
111 event invitations
VOTE to help MedZou Clini... Happening Now
Random Acts of Kindness Happening Now
Boycott the Maya Cafe in... Happening Now
See More
Birthdays: Andy Semler, Brian Hammond, Charles Purnell, Courtney Stirrat, Jenny Vukson, Jeremy Grossberg, Nikki Spencer Show all (9)

Sponsored Create an Ad
Access Exclusive Benefits
Like American Express to be in-the-know about Cardmember events, offers, and more.
Scott Intagliata, Amie E. Needham, and Stacy Domagalski like American Express.
Like

Questions See All
What h

Chat (Offline)

Firesheep

Start Capturing

- Denise Lieberman — Facebook
- Kelly Moffatt — Facebook
- scottgranneman — Twitter
- John — Yahoo
- scott@granneman.com — Google
- Scott Granneman — Facebook
- Kellymoffattmsw@gmail.com — Google
- Adam Shriver — Facebook
- stlactivisthub — Twitter
- Kelly Moffatt — Facebook
- Alice, or perhaps Bob — Windows Live
- WashUPeaceCoalition@gmail.com — Google

Google | Hotmail - carlaallen11@hotmai...

Windows Live™ Hotmail Messenger Office Photos | MSN

Carla Allen

profile | sign out

Hotmail

New Delete Junk Sweep Mark as Move to

Options

Inbox (16)

Folders

- **Junk (405)**
- Drafts (4)
- Sent
- **Deleted (565)**
- **Adjunct Teaching Mate**
- Arlington Grove
- ARM
- B. Willis re Unpaid Invoice
- Best Buy
- Brenda Joyce Dissolution
- **Business Expenses (1)**
- Casino Night
- **City of Wellston (3)**
- Client Files
- Delta Academy
- Delta Dues Confirmation
- Discover
- **DST-SLMAC (4)**
- **FACC Jr. Board (1)**
- Family Pictures
- **FTMBC (1)**
- **General (2)**
- Harris Stowe

Inbox

Search email bing

Show: All | Unread | From contacts » Arrange by

Brandi Byrd Lamar	[sfig] Referral - Arkansas Real Estate Issue	5:08 PM
Gregg Larson	Re: [sfig] FAM: Wife Ousts Husband from RE Holdi	5:05 PM
Shelby_Watson@unigrou	Speaker Opportunity	5:01 PM
P. Seigfreid	RE: [sfig] My law practice disappears and I really	5:01 PM
Rob Pennell	Re: [sfig] *POL* Senators	5:00 PM
Charles McCloskey	RE: [sfig] New lawyer and new member - book ke	4:50 PM
Gaston, Sheree S	RE: Oct Deposits	4:34 PM
sgardner@gardnerlawfir	Re: [sfig] *POL* Senators	4:24 PM
Paul Storment	Re: [sfig] NLS-Test	4:23 PM
Joe DeWoskin	[sfig] Structural Engineer or Architect as an exper	4:18 PM
Rob Pennell	Re: [sfig] *POL* Senators	3:58 PM
Rita Holmes-Bobo	Re: ROP	3:57 PM
Natalie Foster, BarackOb	Carla -- how many calls can you make right now?	3:54 PM
Kirsten Staples	Election Protection Hotline Reports	3:23 PM
Johnson, Mark	Karrie Flowers MV Report	10:23 AM
Trina Dyan Clark James	Financial reports- November 11, 2010 Jamaa Lean	8:57 AM
ms.hamilton8@gmail.com	Contract Case	11/01/10
G S	FW: 2010 Homecoming Line Up (Please Forward)	11/01/10
M A Lynom	Re: E-Script Donor Transfers	10/28/10

Windows Live

Firesheep

Start Capturing

Denise Lieberman
Facebook
Kelly Moffatt
Facebook
scottgranneman
Twitter
John
Yahoo
scott@granneman.com
Google
Scott Granneman
Facebook
Kellymoffattmsw@gmail.com
Google
Adam Shriver
Facebook
stlactivisthub
Twitter
Kelly Moffatt
Facebook
Alice, or perhaps Bob
Windows Live
WashUPeaceCoalition@gmail.com
Google

Google | Twitter / Home

Pssst... the new version of Twitter is here. Try it now!

twitter

Home Profile Find People Settings Help Sign out

What's happening? 140

New! Add a location to your tweets. Turn it on - No thanks

Tweet

Latest: 1 less blue dog & 1 less blanche in our government: http://www.dailykos.com/storyonly/2010/11/2/916298/-Election-Night-Thread-#9 #upside about 3 hours ago

Home

aschrager 6% points in U.S. Senate race going to 3rd party candidates. Double what usually happens. 2% going to Green, 1% going to Libertarian #covote
3 minutes ago via web
Retweeted by kaymoh114 and 3 others

thereidreport RT @BeachPeanuts Sestak loses. Ugh. / Sestak made it very close. Now PA should get the outsourcing they voted for.
2 minutes ago via Twitterrific
Retweeted by Lehigh389

loriguffey i never thought i'd say this but THANK YOU GEORGE W BUSH for using the executive order with such wild abandon. @BarackObama, take note. #p2
half a minute ago via web

TheKochtopus So we lost #Prop23, big deal. We'll just lobby & buy our way around pollution restrictions like we

stlactivisthub
6,387 tweets

1,090 following | 1,356 followers | 197 listed

Who to follow

coreywoodruff
coreywoodruff
Follow

pitchforkmedia
Pitchfork
Follow

view all

Home
@stlactivisthub
Direct Messages 295
Favorites
Retweets

Search

Lists
people
New list | View all

Don’t feel overwhelmed

Backup

You will lose forever your papers, photos, contacts, music, movies...

A problem has been detected and windows has been shut down to prevent damage
to your computer.

DRIVER_IRQL_NOT_LESS_OR_EQUAL

If this is the first time you've seen this Stop error screen,
restart your computer, If this screen appears again, follow
these steps:

Check to make sure any new hardware or software is properly installed.
If this is a new installation, ask your hardware or software manufacturer
for any windows updates you might need.

If problems continue, disable or remove any newly installed hardware
or software. Disable BIOS memory options such as caching or shadowing.
If you need to use Safe Mode to remove or disable components, restart
your computer, press F8 to select Advanced Startup Options, and then
select Safe Mode.

Technical information:

*** STOP: 0x000000D1 (0x0000000C,0x00000002,0x00000000,0xF86B5A89)

*** gv3.sys - Address F86B5A89 base at F86B5000, DateStamp 3dd991eb

Beginning dump of physical memory
Physical memory dump complete.
Contact your system administrator or technical support group for further
assistance.

Oops.

3-2-1 Rule of Backups

3 copies of important files (e.g., an original on your computer, a copy on a local hard drive, & another copy online)

2 types of media backing up the files (e.g., computer + hard drive, or hard drive + online)

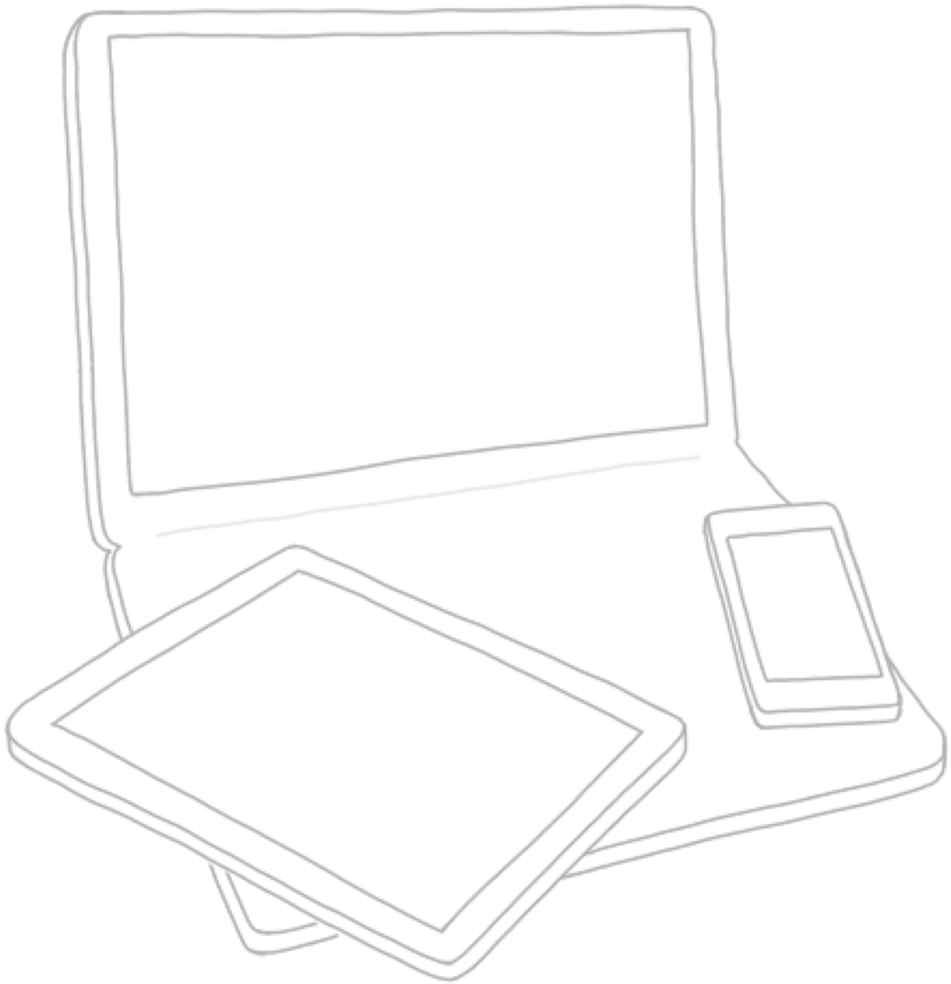
1 copy offsite

When developing your backup plan, figure out the following:

- your budget & the cost of backup method(s), e.g., service, software, hardware, storage
- efficiency & speed of backup process
- effort & cost required to restore your data

Online

Download



Your stuff, anywhere

Sign up

or Sign in

Learn more

Dropbox

www.getdropbox.com

Drew Houston
beta@getdropbox.com

Dropbox

www.getdropbox.com

Drew Houston
beta@getdropbox.com

iOS

128-bit SSL encryption during transport

Data encryption using 256-bit AES

New & changed files automatically uploaded

30 day archive

Service	Space	Users	Cost
Basic	2 GB	1	Free
Plus	2 TB	1	$120/yr
Family	2 TB shared	1–6	$200/yr
Professional	3 TB	1	$200/yr
Standard	5 TB shared	3+	$180/user/yr
Advanced	∞	3+	$288/user/yr

Good for backup

Great for collaboration & syncing

If you decide to sign up, please use this link

https://db.tt/I4EbATZ

I get 1 GB of free space & you get an extra 500 MB!

iCloud • Google Nearline & Coldline • Amazon Drive • Google Drive • Amazon Glacier • SpiderOak • Acronis True Image • ElephantDrive • Carbonite • CrashPlan • Zoolz Cloud Archive • Depositit • SOS • iBackup • Dolly Drive • MozyHome • SugarSync • JustCloud • & many more!

Cloud storage that's astonishingly easy and low-cost.

750 Petabytes stored & over 35 billion files recovered (and counting):

4 0 , 0 4 4 , 1 6 8 , 9 4 3

Personal Backup

Business Backup

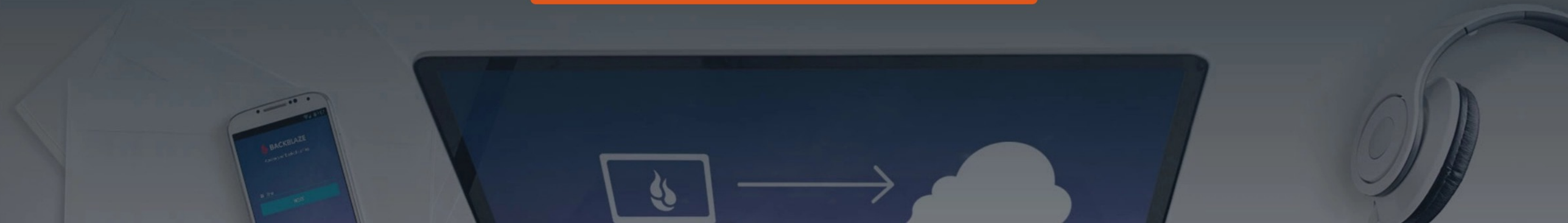
B2 Cloud Storage

Simple Pricing, Unlimited Data

Prices are per computer. Plus applicable taxes.

$6	$60	$110
MONTH	YEAR	2-YEAR
	(Save $12)	(Save $34)

Try it Free



Backblaze Backup

Search

jk@alt.cc

You are backed up as of: 9/7/17, 12:04 AM

Currently backing up newer files

Pause Backup

Restore Options...

Selected for Backup: 1,502,499 files / 874,019 MB

Backup Schedule: Continuously

Remaining Files: 309 files / 439,506 MB

Transferring: Part 16 of IMG_0933.MOV

Settings...

What is being backed up?

How long will my first backup take?

View files and manage account at: https://www.backblaze.com

?

View/Restore Files

Choose Method:

Download Zip (Free)
You will receive an email once your files are ready to restore.
Your files will be put into a zip format and available for download.

USB Flash Drive ($99) up to 128 GB max (110,000 MB of data)
Your files will be sent on a USB Flash Drive.
(You will receive a drive large enough to contain your data.) You can keep the restore drive, or send it back to us within 30 days for a refund. Please see our **Restore Return Refund** page for more information.

USB Hard Drive ($189) up to 4 TB max (3,500,000 MB of data)
Your files will be sent on an external USB hard drive.
(You will receive a drive large enough to contain your data.)
You can keep the restore drive, or send it back to us within 30 days for a refund.
Please see our **Restore Return Refund** page for more information.

Continue with Restore

Backblaze actually offers 3 services

1. Personal Backup: software + cloud storage
2. Business Backup: software + cloud storage
3. B2 Cloud Storage: cloud storage *only*

BACKBLAZE

Personal Backup | Business Backup | **B2 Cloud Storage** | Blog | Help | Sign In

How B2 Works | Pricing | Docs | Integrations | Case Studies | Solutions | Contact Sales | Sign Up

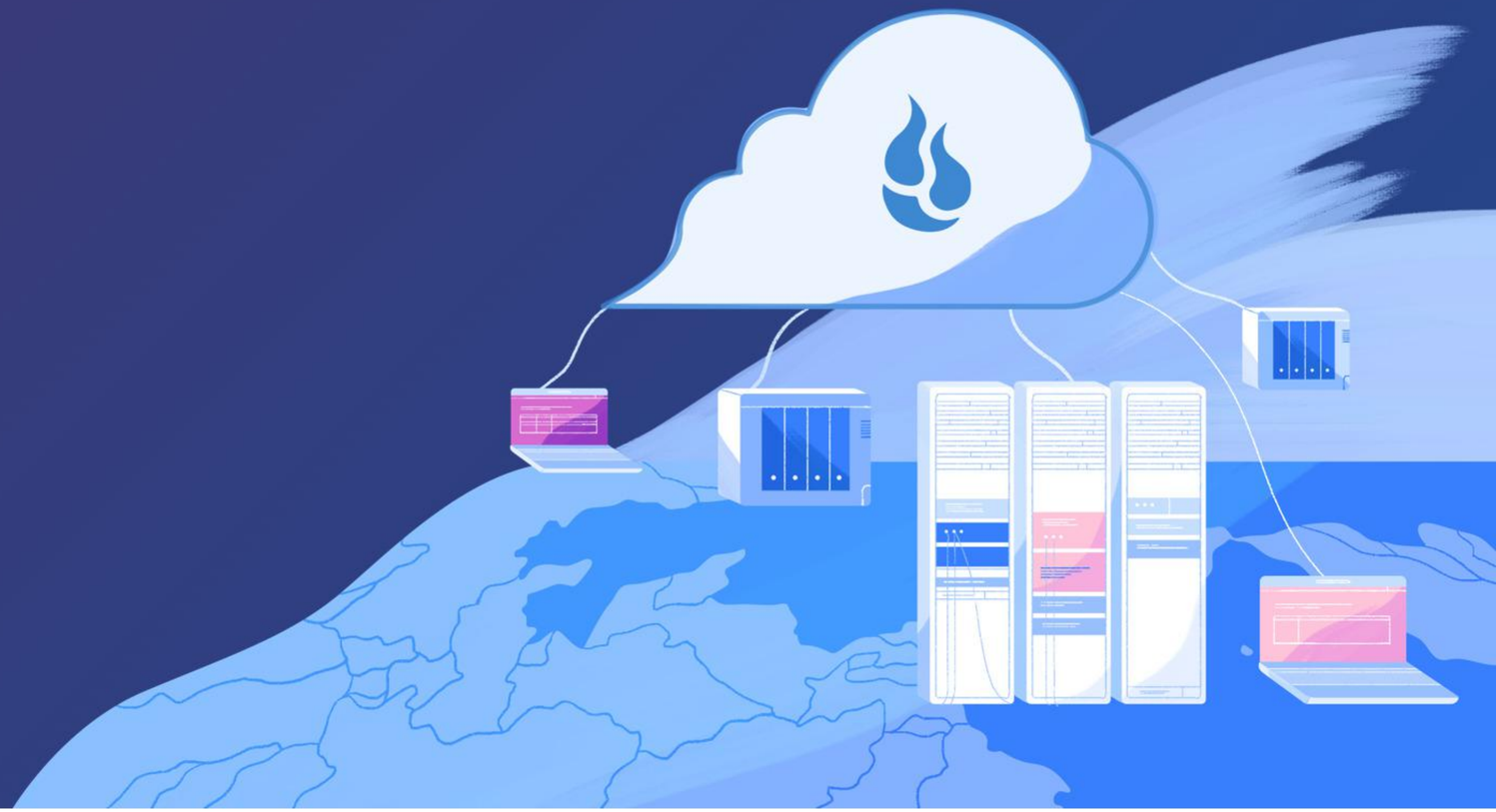
Storage only — you get data here yourself

Backblaze B2 Cloud Storage

High Performance Cloud Storage at ¼ the Price. 10+ years experience. 750+ Petabytes under management.

Sign up today →

The first 10 GB of storage is free.



Nice features of Backblaze B2

- Order USB drive of your data for restoration
- Restore multiple older versions files
- Automatic or scheduled backups
- Locate missing or stolen computers
- Auto threading & throttling or set your own upload limit to conserve bandwidth
- File sharing via Backblaze B2 to share files you've backed up

How do you actually back up data to Backblaze B2?

Backs up all your computers. Simple. Awesome.

Arq® is backup software for your Mac or PC.
It backs up your files securely to your cloud account or NAS.

Download Arq

Free 30-Day Trial

Latest Arq release for Mac: **5.16** Shipped 19 February, 2019 **Release Notes**

Latest Arq release for Windows: **5.16.0** Shipped 19 February, 2019 **Release Notes**

Backs up all files automatically, including external drives or network shares

Back up hourly or daily

Prevent backup on specific Wi-Fi networks or while on battery power

Custom file & folder exclusion rules

Everything encrypted before it leaves your computer with a password you set (do *not* lose this password!)

Keeps multiple versions of your files

Use Arq software or cloud.arqbackup.com to download your files

Arq software

 or ⊞

www.arqbackup.com

$50 (no subscription)

Arq 5

CONFIGURE BACKUPS

- To Wasabi
  - rsgranne

RESTORE FILES

- From Wasabi
  - ScottBook Pro (rsgranne)
    - rsgranne

Search

rsgranne

Reveal in Finder

UUID: 151304C4-1BA1-4274-8DBA-0835EEC3B8F6

Location: /Users/rsgranne

Detach... Relocate...

Storage Type: Wasabi

Excluding 117 items, 1 pattern

Skip if volume is not mounted

Edit backup selections...

Remove from backups...

Arq 5

CONFIGURE BACKUPS

- To Wasabi
  - rsgranne
    - Apr 10, 2019 at 11:14 AM
    - Apr 10, 2019 at 9:17 AM
    - Apr 10, 2019 at 7:10 AM
    - Apr 10, 2019 at 5:10 AM
    - Apr 10, 2019 at 3:09 AM
    - Apr 10, 2019 at 1:43 AM
    - Apr 9, 2019 at 11:09 PM
    - Apr 9, 2019 at 9:10 PM
    - Apr 9, 2019 at 8:32 PM
    - Apr 9, 2019 at 5:11 PM
    - Apr 9, 2019 at 3:09 PM
    - Apr 9, 2019 at 1:08 PM
    - Apr 9, 2019 at 9:09 AM
    - Apr 9, 2019 at 7:09 AM
    - Apr 9, 2019 at 5:09 AM
    - Apr 9, 2019 at 3:09 AM
    - Apr 9, 2019 at 1:09 AM
    - Apr 8, 2019 at 11:08 PM
    - Apr 8, 2019 at 10:35 PM
    - Apr 8, 2019 at 8:21 PM
    - Apr 8, 2019 at 5:15 PM
    - Apr 8, 2019 at 3:36 PM
    - Apr 8, 2019 at 11:08 AM
    - Apr 8, 2019 at 9:08 AM
    - Apr 8, 2019 at 7:08 AM
    - Apr 8, 2019 at 5:08 AM
    - Apr 8, 2019 at 3:08 AM
    - Apr 8, 2019 at 1:09 AM
    - Apr 7, 2019 at 11:09 PM

Search

/Users/rsgranne as of Apr 10, 2019 at 11:14 AM

Delete...

Excluding 118 items

Show Excluded Items...

Item	Change	Contents Last Modified	Size
.notable.json		2019-01-14, 3:15 PM	195 bytes
.profile		2018-05-02, 8:24...	36 bytes
.s3cfg		2017-01-23, 6:38...	1.9 KB
▶ .s3conf			154 bytes
▶ .sip_v1			6.5 KB
▶ .ssh			154.9 KB
.vim		2018-05-02, 8:24...	32 bytes
▶ .vimoutliner			11.5 KB
.vimrc		2018-05-02, 8:24...	34 bytes
.vimrc-warehouse		2018-05-02, 8:24...	44 bytes
▶ Applications (Parallels)			32 bytes
▶ bin			90.9 MB
▶ Creative Cloud Files			32 bytes
▶ Desktop	Modified		94.6 MB
▶ Documents			52.9 MB
▶ Downloads	Modified		3.393 GB
▶ Dropbox	Modified		317.320 GB
▶ Library	Modified		59.308 GB
▶ Movies			336.8 MB
▶ Music			11.321 GB
▶ OmniPresence			754.3 KB
▶ Parallels	Modified		69.3 MB
▶ Pictures	Modified		60.315 GB

Drag and drop any item to the Desktop or a Finder window to restore to that location.

Restore...

Preferences

Destinations Network Email Advanced

Type	Host	Budget	Schedule
Wasabi	s3.wasabisys.com	None	Every 2 hours

Edit... Clear Cache...

Select the destination for your backups:

- Amazon Drive
- AWS (S3 and Glacier)
- Backblaze B2
- Dropbox
- Google Drive
- Google Cloud Storage
- OneDrive
- SharePoint
- Wasabi
- Other S3-Compatible Service
- SFTP
- A folder on your NAS or hard drive

Which destination is best for me?

Cancel Continue

Introducing the Media Innovation Cloud Alliance.

wasabi

Disruption Starts Here

Enterprise class cloud storage, 1/5th the price of traditional cloud vendors and up to 6x faster. No hidden fees for egress or API requests.

START YOUR FREE TRIAL

$6 TB ($.0059 GB)/month

Free ingress, egress, & API requests

Fast speeds up & down

STORAGE IAM Root User CREATE BUCKET

Object Storage

Search Buckets

All Buckets /

Different users & different computers, each in their own *bucket*

Bucket Name	Owner	Region	Public Access	Created On	Actions
granne-audio-video	scott	us-east-1	Default	Dec 10, 2018 9:49 PM	
granne-mbp-backup	scott	us-east-1	Default	Aug 30, 2017 4:55 PM	
granne-mini-backup	scott	us-east-1	Default	Oct 14, 2017 7:26 PM	
granne-software-backups	scott	us-east-1	Default	Sep 18, 2017 11:08 AM	
woltman-mbp-backup	scott	us-east-1	Default	Nov 15, 2018 5:51 PM	

There are 2 Arq tools

1. Arq software + 1 or more other cloud backup services
2. Arq Cloud Backup service (which uses its own customized software)

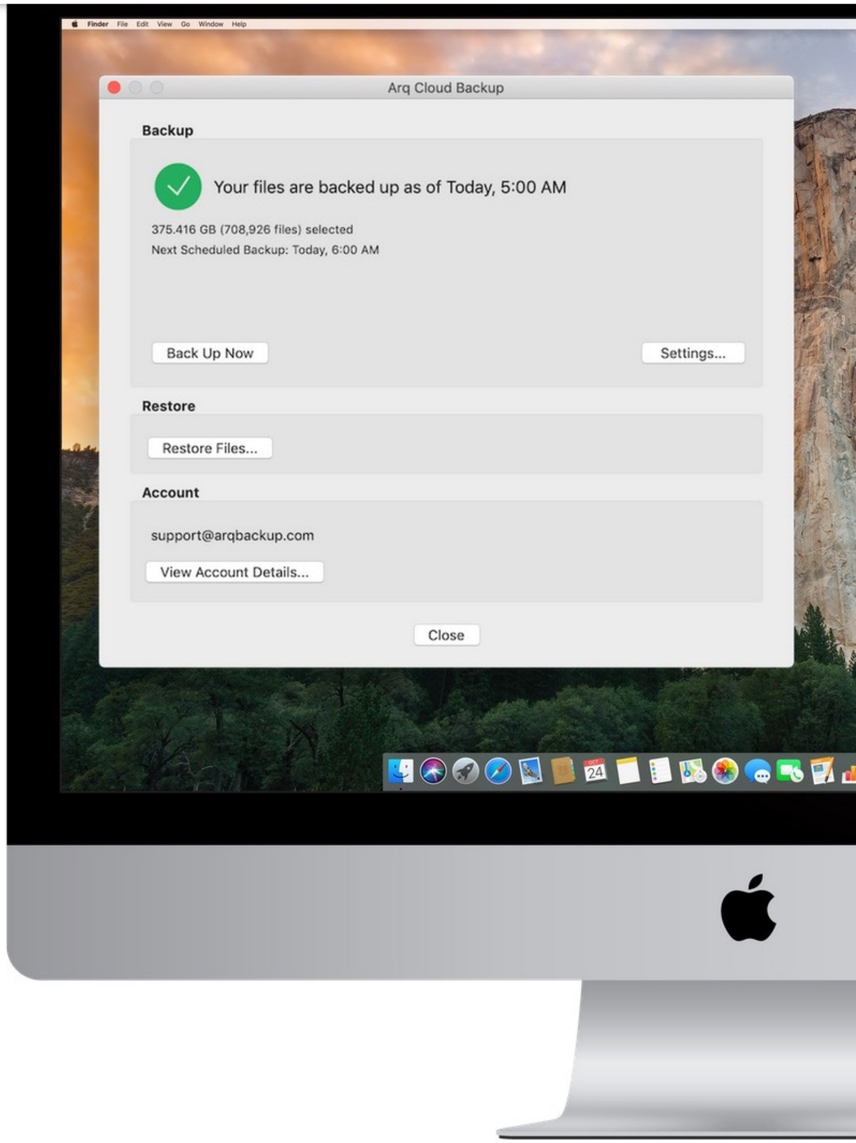
Arq Cloud Backup

Backs up all your files automatically.
Installs in 1 minute.

Stop worrying about losing files:

Try It Free

30-day free trial
$5.99/month or $59.99/year
Unlimited computers
1 TB storage included
(additional TBs $5.99/month each)
Mac only (Windows coming soon)



30-day free trial

$6/month or $60/year

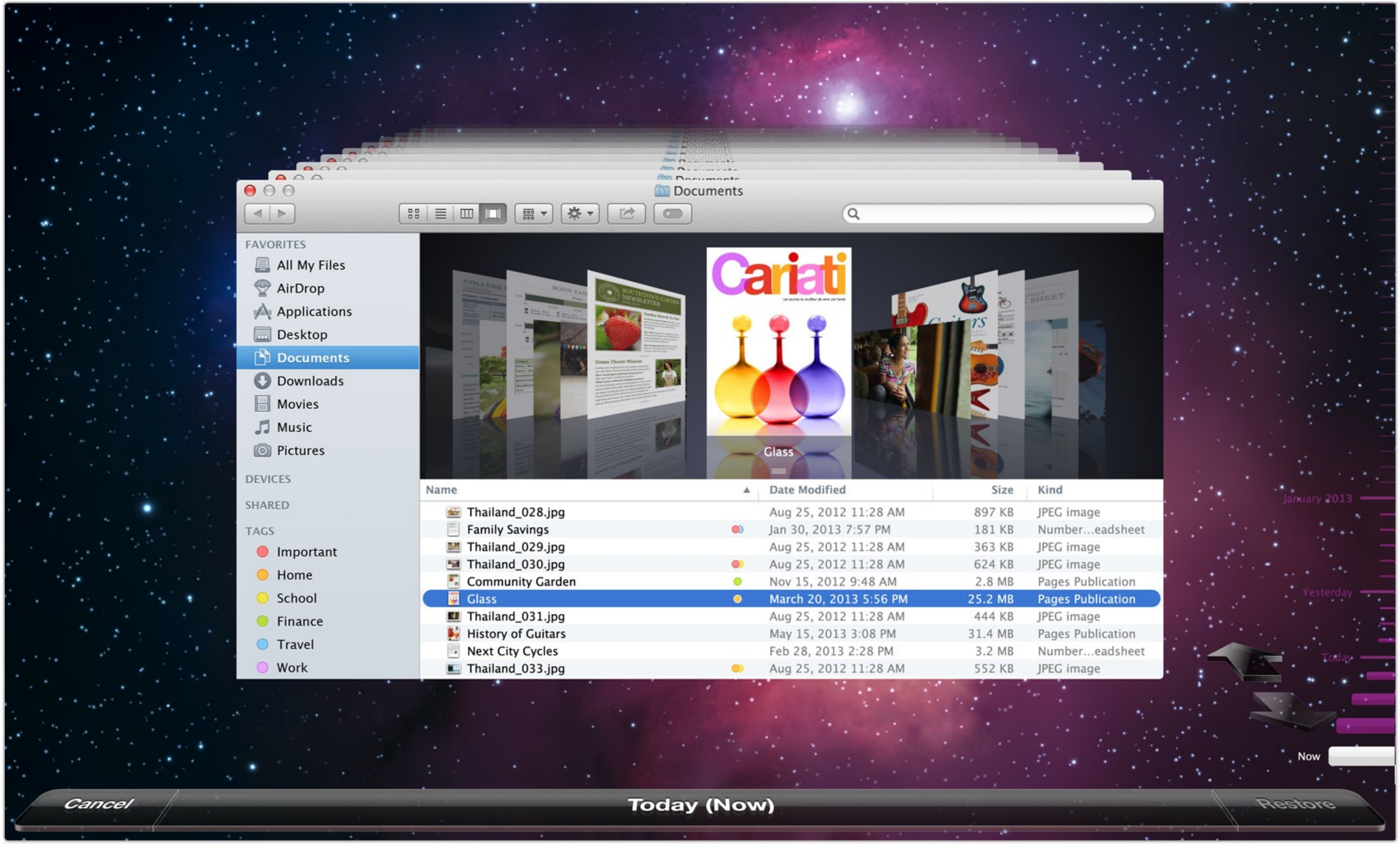
Unlimited computers

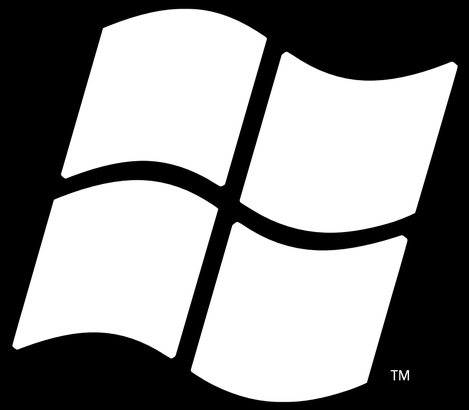
1 TB storage included, with additional TBs $6/month each

Download your files using Arq Cloud Backup software *or* cloud.arqbackup.com

(BTW — Arq Cloud Backup uses Wasabi on the back end)

Local


Documents
FAVORITES
All My Files
AirDrop
Applications
Desktop
Documents
Downloads
Movies
Music
Pictures
DEVICES
SHARED
TAGS
Important
Home
School
Finance
Travel
Work
Cariati
Glass
Name
Date Modified
Size
Kind
Thailand_028.jpg Aug 25, 2012 11:28 AM 897 KB JPEG image
Family Savings Jan 30, 2013 7:57 PM 181 KB Number...eadsheet
Thailand_029.jpg Aug 25, 2012 11:28 AM 363 KB JPEG image
Thailand_030.jpg Aug 25, 2012 11:28 AM 624 KB JPEG image
Community Garden Nov 15, 2012 9:48 AM 2.8 MB Pages Publication
Glass March 20, 2013 5:56 PM 25.2 MB Pages Publication
Thailand_031.jpg Aug 25, 2012 11:28 AM 444 KB JPEG image
History of Guitars May 15, 2013 3:08 PM 31.4 MB Pages Publication
Next City Cycles Feb 28, 2013 2:28 PM 3.2 MB Number...eadsheet
Thailand_033.jpg Aug 25, 2012 11:28 AM 552 KB JPEG image
January 2013
Yesterday
Today
Now
Cancel
Today (Now)
Restore


TM

Control Panel ▸ System and Security ▸ Backup and Restore

Search Control Panel

Control Panel Home

Turn off schedule

Create a system image

Create a system repair disc

Back up or restore your files

Backup

Location: Win7 Backup (F:)

373.09 GB free of 500.00 GB

Backup size: 126.80 GB

Manage space

Back up now

Next backup: 9/26/2009 11:00 PM

Last backup: 9/25/2009 10:26 AM

Contents: Files in selected folders

Schedule: Every Saturday at 11:00 PM

Change settings

Restore

You can restore your files that were backed up on the current location.

Restore my files

Restore all users' files

Select another backup to restore files from

Recover system settings or your computer

See also

Action Center

Windows Easy Transfer

Windows 7 & 10

Settings

Home

Find a setting

Update & Security

- Windows Update
- Windows Security
- Backup
- Troubleshoot
- Recovery
- Activation
- Find my device
- For developers
- Windows Insider Program

Backup

Back up using File History

Back up your files to another drive and restore them if the originals are lost, damaged, or deleted.

Add a drive

More options

Looking for an older backup?

If you created a backup using the Windows 7 Backup and Restore tool, it'll still work in Windows 10.

Go to Backup and Restore (Windows 7)

Back up your stuff

To have Windows back up your files to a safe place, choose where you want files to go—to OneDrive, an external storage device, or a network.

Learn more about backup

Have a question?

Get help

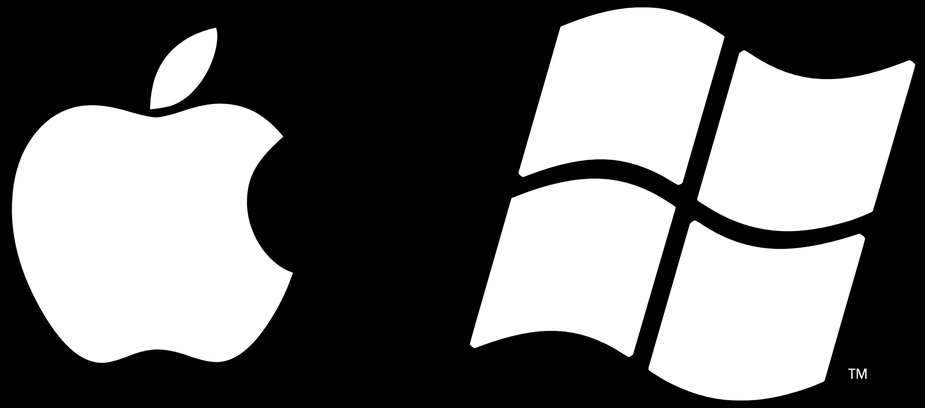
Make Windows better

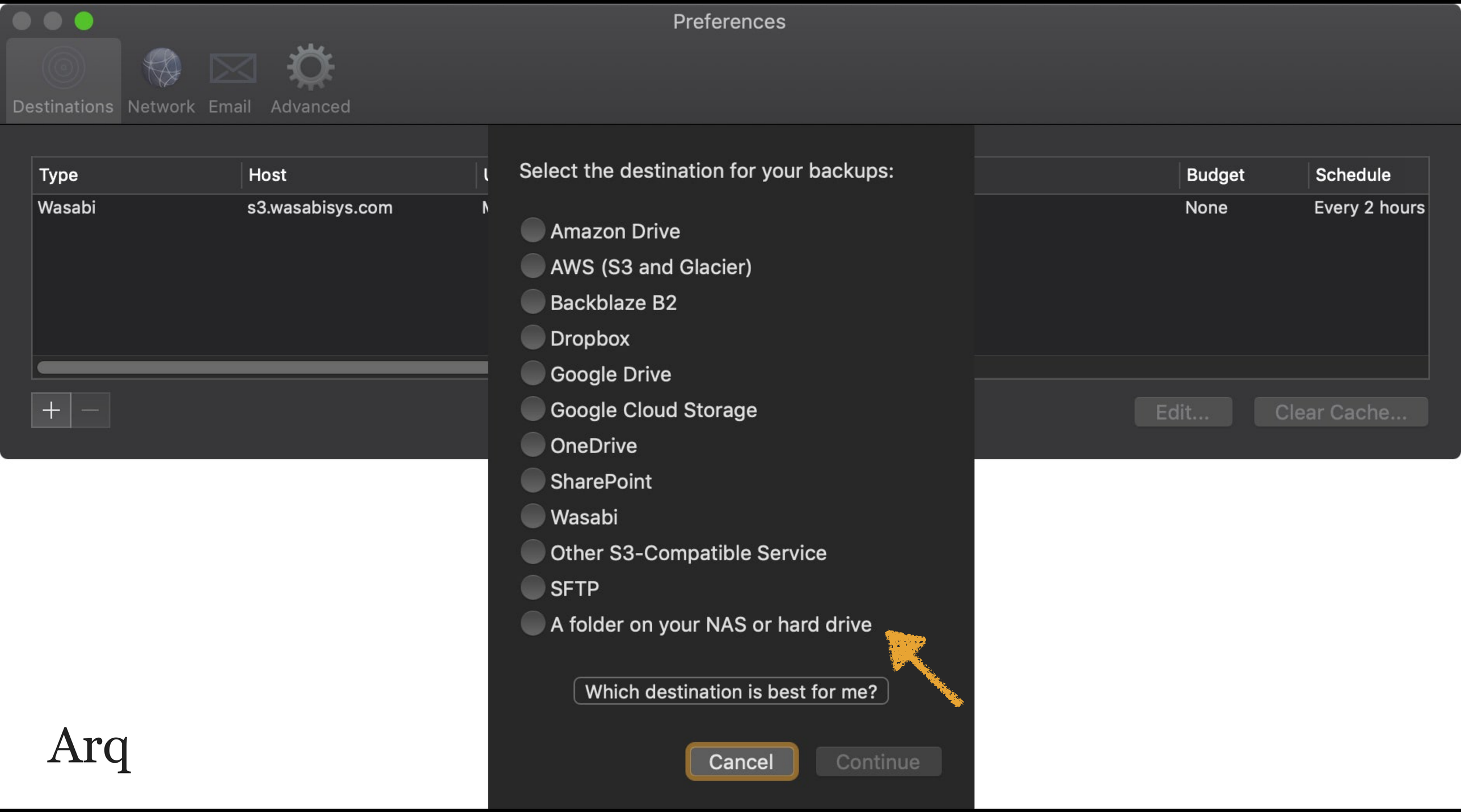
Give us feedback

Type here to search

Games

11:53 AM
4/10/2019


TM


Preferences
Destinations
Network
Email
Advanced
Type
Host
Budget
Schedule
Wasabi
s3.wasabisys.com
None
Every 2 hours
Edit...
Clear Cache...
Select the destination for your backups:
Amazon Drive
AWS (S3 and Glacier)
Backblaze B2
Dropbox
Google Drive
Google Cloud Storage
OneDrive
SharePoint
Wasabi
Other S3-Compatible Service
SFTP
A folder on your NAS or hard drive
Which destination is best for me?
Cancel
Continue

Arq

Clone

“Disk cloning is the process of copying the contents of one computer hard drive to another disk … A cloned drive can replace the original, rather than simply containing backup copies of files.” —Wikipedia

Why clone?

- Full system backup, even hidden or in-use files
- Quickly restore a wiped drive after a security incident or data problem
- Quickly upgrade to a new drive

A clone is not the same as a backup!

A clone is only as up-to-date as the last time it ran

A clone does not contain multiple versions of files

A clone backs up all files on a computer

Carbon Copy Cloner

Carbon Copy Cloner

Hide Sidebar | Preferences | New Task | History

TASKS

MBP to Clone
On Reconnect: Macintosh HD → Clone

VOLUMES

BOOTCAMP
300 GB PCI Volume

Macintosh HD
699 GB PCI Volume

Clone
749 GB USB Volume

Fun
250 GB USB Volume

Task Plan for "MBP to Clone"

CCC will clone **Macintosh HD** to **Clone**. Only items that have been modified since the last backup task will be copied.
Barring any hardware compatibility problems, **the destination volume should be bootable**.
Next Run: This task will run **the next time the source or destination disk is reattached** if both volumes are present.
Last Run: Never

SOURCE

Macintosh HD
513.37 GB used

DESTINATION

Clone
26.73 GB free

SCHEDULE

Run on disk appearance

Clone: All files

SafetyNet: ON

Modified and deleted files will be cached as space allows on the destination.

Email: Don't send email

? Use Advanced Settings

Save

www.bombich.com

$40 (30-day free trial)

Paragon Backup & Recovery™ 14 Free

Paragon Backup & Recovery™ 14 Free

Backup to Virtual Disk

Restore from Virtual Disk

Log Saver

User Manual

BACKUP & RECOVERY
SWITCH TO FULL SCALE LAUNCHER

Incremental Backup to Virtual Disk

REGISTER PRODUCT TO:
- GET THE LATEST UPDATES
- BE INFORMED ABOUT PRODUCT NEWS
- HAVE BENEFIT OF ADDITIONAL INFO

Manage Backup Capsule

RECOVERY MEDIA BUILDER
BUILD RECOVERY ENVIRONMENT

Upgrade to
Hard Disk Manager 15
Suite

save 20%

GET 20+ PREMIUM TOOLS

www.paragon-software.com/home/br-free/

$0

Remember...

Backup locally & off-site

iRobot
Roomba
iRobot
Roomba
DAY
HOUR
MINUTE
DIRT DETECT
SPOT
CLEAN
HOLD FOR DEMO
SCHEDULE
CLOCK

Automate

Encrypt

Test!

Passwords

Most people use the same password on multiple sites

If one site gets hacked, your password for multiple sites is in the hands of criminals

A lot of people put passwords on sticky notes or in text files

They're easy for others to see

A lot of people choose poor passwords

Those can be cracked in a ridiculously short time

Pick a good password

John the Ripper & *Cain & Abel* will make mincemeat of poor passwords

root@Sandbox:~

File Edit View Terminal Tabs Help

```
Sandbox ~ # john
John the Ripper password cracker, version 1.7.2
Copyright (c) 1996-2006 by Solar Designer and others
Homepage: http://www.openwall.com/john/

Usage: john [OPTIONS] [PASSWORD-FILES]
--single                  "single crack" mode
--wordlist=FILE --stdin   wordlist mode, read words from FILE or stdin
--rules                   enable word mangling rules for wordlist mode
--incremental[=MODE]      "incremental" mode [using section MODE]
--external=MODE           external mode or word filter
--stdout[=LENGTH]         just output candidate passwords [cut at LENGTH]
--restore[=NAME]          restore an interrupted session [called NAME]
--session=NAME            give a new session the NAME
--status[=NAME]           print status of a session [called NAME]
--make-charset=FILE       make a charset, FILE will be overwritten
--show                    show cracked passwords
--test                    perform a benchmark
--users=[-]LOGIN|UID[,..] [do not] load this (these) user(s) only
--groups=[-]GID[,..]      load users [not] of this (these) group(s) only
--shells=[-]SHELL[,..]    load users with[out] this (these) shell(s) only
--salts=[-]COUNT          load salts with[out] at least COUNT passwords only
--format=NAME             force ciphertext format NAME: DES/BSDI/MD5/BF/AFS/LM/NT/PO/raw-MD5/IPB2/raw-sha1/md5a/KRB5/bfegg/ns
cash/lotus5/DOMINOSEC/NETLM/NETNTLM
--save-memory=LEVEL       enable memory saving, at LEVEL 1..3
Sandbox ~ # john --test
Benchmarking: Traditional DES [128/128 BS SSE2-16]... DONE
Many salts:     2231K c/s real, 2235K c/s virtual
Only one salt:  1956K c/s real, 1956K c/s virtual

Benchmarking: NT LM DES [128/128 BS SSE2-16]... DONE
Raw:    12498K c/s real, 12523K c/s virtual

Benchmarking: NT MD4 [X86-64 SSE2 8x]...
```

(Mostly bad) guidelines for a good password

1. Don’t use easy passwords ← that one’s good advice
2. Mix of 3 of these 4: `A a 1 #` ← length, not complexity!
3. At least 8 characters ← at least 12; I try to use 35
4. Easy to remember & hard to guess ← *not* memorable!
5. Change it every 90 days ← terrible advice

“Your password must contain at least 8 letters, a capital, a plot, a protagonist with good character development, a twist & a happy ending.”

“The time it takes to crack a password is the only real way to determine its strength and value.”—Cameron Morris

None of the tricks you think make your password more secure work

Dictionary words, e.g., `persnickety` or `memoryquilt`

Misspelled dictionary words, e.g., `persnicketee` or `memoreekwilt`

Dictionary words backwards, e.g., `ytekcinsrep` or `tliuqyromem`

Dictionary wo[illegible] `persnickety` [illegible] `moryquilt`

Misspelled [illegible]onary w[illegible] e.g., `persn[illegible]etee` or `memoreekwi[illegible]`

Dictionary w[illegible] backwards, e[illegible] `tek[illegible]srep` or `tliuqyromem`

Dictionary words with insertions, e.g., `persnick-ity` or `mem&oryquilt`

Dictionary words with leetspeak, e.g., `per5n1ckety` or `mem0ryqu11t`

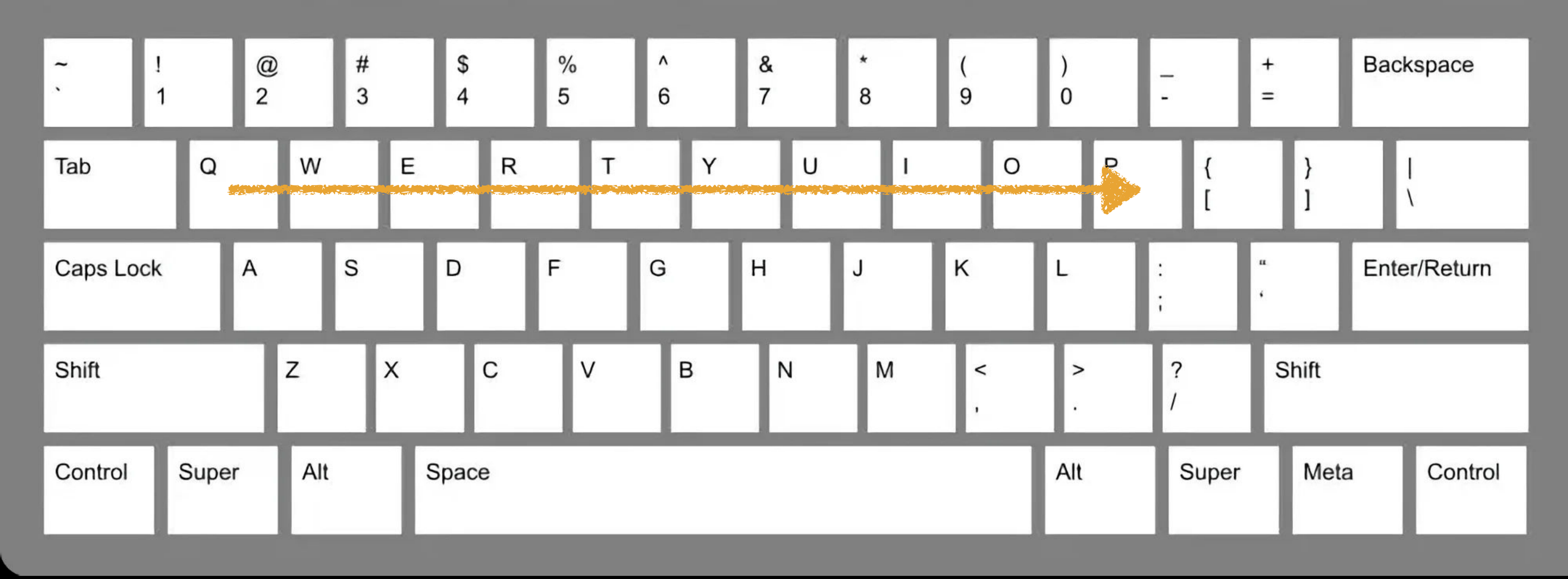
Dictionary words from foreign languages, e.g., `ballon-chasseur` or `formalizamos` or `жонглировать`

Dictionary wo insertions, e.g rsnick-ity or mem&oryquil

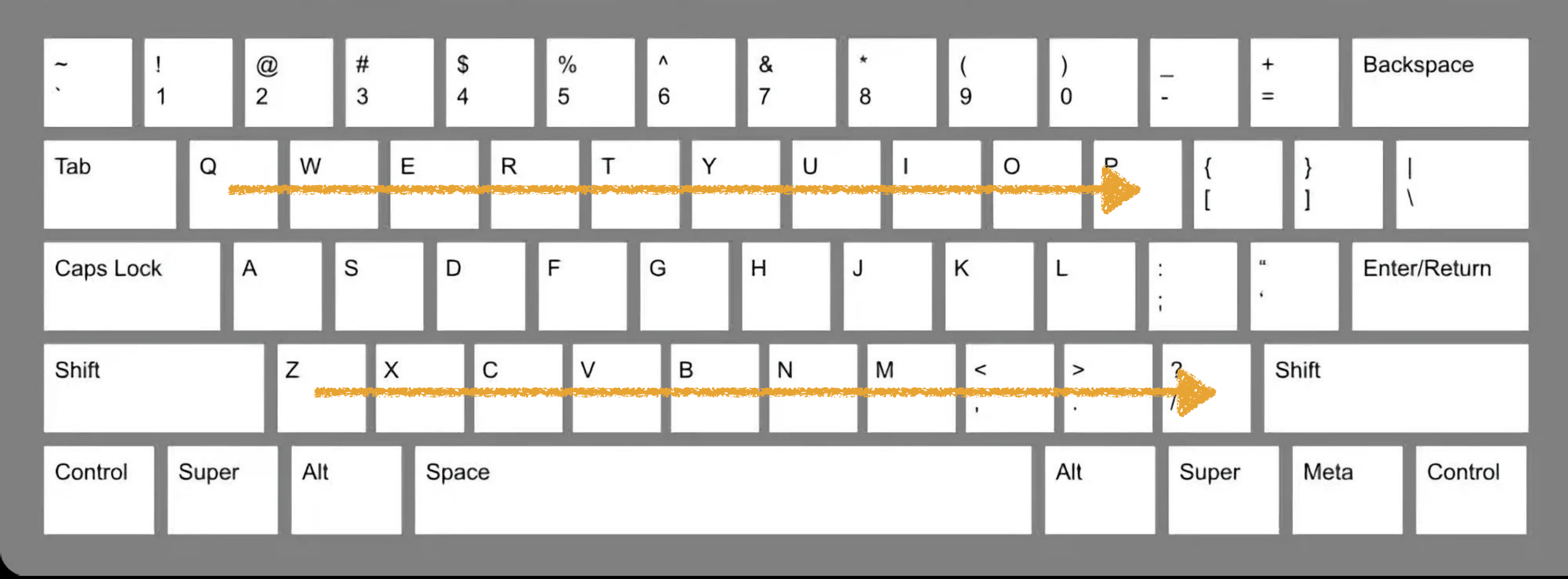
Dictionary s with le ak, e.g., pe 1ckety or mem0ryqu11

Dictionary w from foreign e.g., ballon-chasseur or fo izamos or жон ать

Horizontal key sequences, e.g., `Qwertyuiop` or `zxcvbnm,./` or `ZXCVBNM<>?`



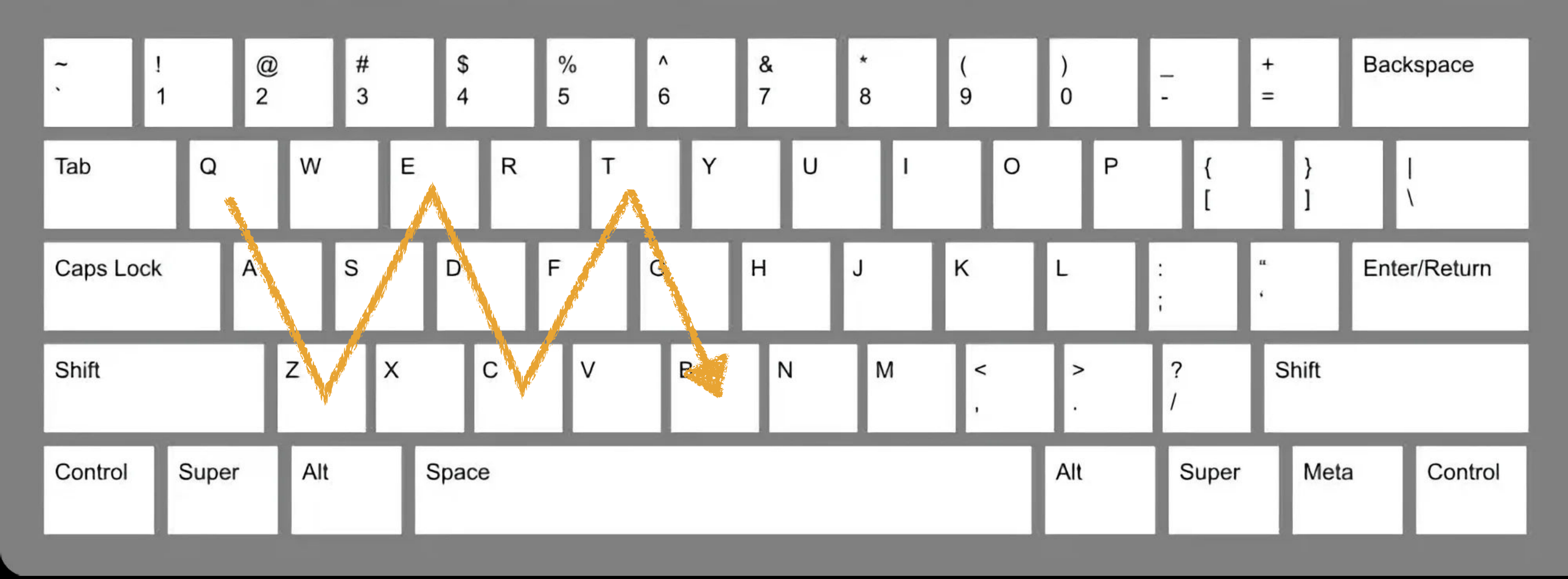
Horizontal key sequences, e.g., `Qwertyuiop` or `zxcvbnm,./` or `ZXCVBNM<>?`



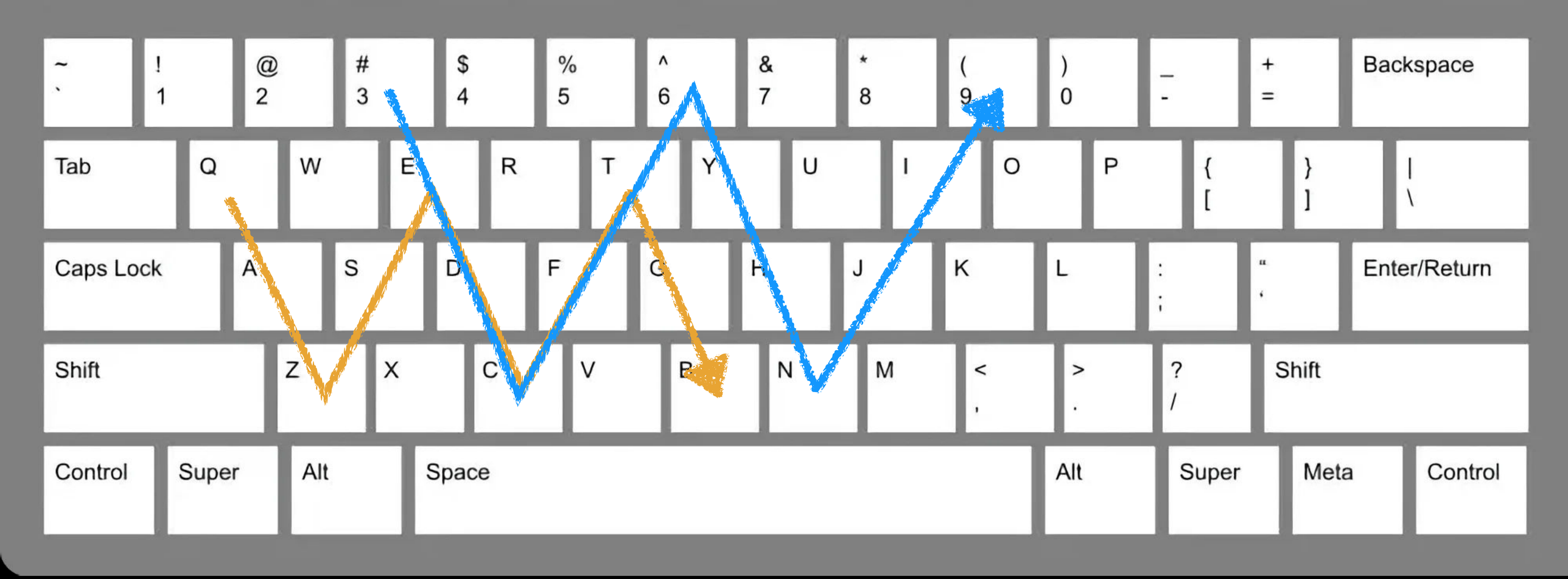
Horizontal key sequences, e.g., `Qwertyuiop` or `zxcvbnm,./` or `ZXCVBNM<>?`

Horizontal key s es, e.g. diop or
zxcvbnm,./ or ZXCV

Diagonal key sequences, e.g., `qazsedcftgb` or `3EDCFT6YHNJI9`



Diagonal key sequences, e.g., `qazsedcftgb` or `3EDCFT6YHNJI9`



Diagonal key sequences, e.g., `qazsedcftgb` or `3EDCFT6YHNJI9`

Diagonal key seq e.g. qa tgb or
3EDCFT6YHNJI9

Safely Test Your Password Strength.

Enter Password Here

Hide password

Password Strength Test

Safely Test Your Password Strength.

STLCardinals

Hide password

Score: 2

Length of time to crack your password:

Throttled Online Attack	Unthrottled Online Attack	Offline Attack, Slow Hashing	Offline Attack, Fast Hashing
100 / Hour	**10 / second**	**10k / second**	**10B / second**
Time to crack: 14 years	Time to crack: 15 days	Time to crack: 21 minutes	Time to crack: less than a second

Safely Test Your Password Strength.

r8^jC0q+

☐ Hide password

Score: 2

Length of time to crack your password:

Throttled Online Attack	Unthrottled Online Attack	Offline Attack, Slow Hashing	Offline Attack, Fast Hashing
100 / Hour	**10 / second**	**10k / second**	**10B / second**
Time to crack: centuries	Time to crack: 4 months	Time to crack: 3 hours	Time to crack: less than a second

Here’s a method for picking a good password:

1. Select a poem, song, or saying that you know
2. Isolate the first letter of each word
3. Keep any punctuation

W

Help

What Is My IP?

Tools

“Where it began, I can’t begin to know when,
But then I know it’s growin’ strong”

Safely Test Your Password Strength.

Wib,lcbtk,BtIkigs

Hide password

Score: 4

Length of time to crack your password:

Throttled Online Attack	Unthrottled Online Attack	Offline Attack, Slow Hashing	Offline Attack, Fast Hashing
100 / Hour	**10 / second**	**10k / second**	**10B / second**
Time to crack: centuries	Time to crack: centuries	Time to crack: centuries	Time to crack: 4 months

W

Help

What Is My IP?

Tools

“Where it began, I can’t begin to know when,
But then I know it’s growin’ strong”

Safely Test Your Password Strength.

Wib,lcbtk,BtIkigs

Hide password

Score: 4

Length of time to crack your password:

Throttled Online Attack	Unthrottled Online Attack	Offline Attack, Slow Hashing	Offline Attack, Fast Hashing
100 / Hour	**10 / second**	**10k / second**	**10B / second**
Time to crack: centuries	Time to crack: centuries	Time to crack: centuries	Time to crack: 4 months

Safely Test Your Password Strength.

Anwyccdfyawycdfyc

☐ Hide password

Score: 4

Length of time to crack your password:

Throttled Online Attack	Unthrottled Online Attack	Offline Attack, Slow Hashing	Offline Attack, Fast Hashing
100 / Hour	**10 / second**	**10k / second**	**10B / second**
Time to crack: centuries	Time to crack: centuries	Time to crack: centuries	Time to crack: 3 months

Anwyccdfyawycdfyc

Anwyccdfyawycdfyc

“I’m gonna fight ‘em off,
A seven nation army couldn’t hold me back,
They’re gonna rip it off”

What Is My IP?

Help

Tools

Safely Test Your Password Strength.

lgfeo,A7nachmb,Tgrio

Hide password

Score: 4

Length of time to crack your password:

Throttled Online Attack	Unthrottled Online Attack	Offline Attack, Slow Hashing	Offline Attack, Fast Hashing
100 / Hour	**10 / second**	**10k / second**	**10B / second**
Time to crack: centuries	Time to crack: centuries	Time to crack: centuries	Time to crack: centuries

“I’m gonna fight ‘em off,
A seven nation army couldn’t hold me back,
They’re gonna rip it off”

What Is My IP?

Help

Tools

Safely Test Your Password Strength.

lgfeo,A7nachmb,Tgrio

Hide password

Score: 4

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100 / Hour	**10 / second**	**10k / second**	**10B / second**
Time to crack: centuries	Time to crack: centuries	Time to crack: centuries	Time to crack: centuries

“I’m gonna fight ‘em off,
A seven nation army couldn’t hold me back,
They’re gonna rip it off”
↓
`Igfeo,A7nachmb,Tgrio`

“I’m gonna fight ‘em off,
A seven nation army couldn’t hold me back,
They’re gonna rip it off”
↓
`Igfeo,A7nachmb,Tgrio`

“There’s a lady who’s sure all that glitters is gold and she’s buying a stairway to heaven”

Led Zeppelin IV came out in 1971

What Is My IP?

Help

Tools

19Talwsatgigasbasth71

Hide password

Score: 4

Length of time to crack your password:

Throttled Online Attack	Unthrottled Online Attack	Offline Attack, Slow Hashing	Offline Attack, Fast Hashing
100 / Hour	10 / second	10k / second	10B / second
Time to crack: centuries	Time to crack: centuries	Time to crack: centuries	Time to crack: centuries

“There’s a lady who’s sure all that glitters is gold and she’s buying a stairway to heaven”

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What Is My IP?

Help

Tools

19Talwsatgigasbasth71

Hide password

Score: 4

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100 / Hour	10 / second	10k / second	10B / second
Time to crack: centuries	Time to crack: centuries	Time to crack: centuries	Time to crack: centuries

“I said a hip, hop, the hippie, the hippie
To the hip hip-hop, and you don’t stop
The rock it to the bang-bang, boogie say ‘up jump’
The boogie to the rhythm of the boogie the beat.”
↓
`IsahhthhTohhhaydsTrittbbbsupTbttrotbtb`

“I said a hip, hop, the hippie, the hippie
To the hip hip-hop, and you don’t stop
The rock it to the bang-bang, boogie say ‘up jump’
The boogie to the rhythm of the boogie the beat.”
↓
`IsahhthhTohhhaydsTrittbbbsupTbttrotbtb`

“Hot hot hot hot stuff hot hot hot”

↓

`Hhhhshhh`

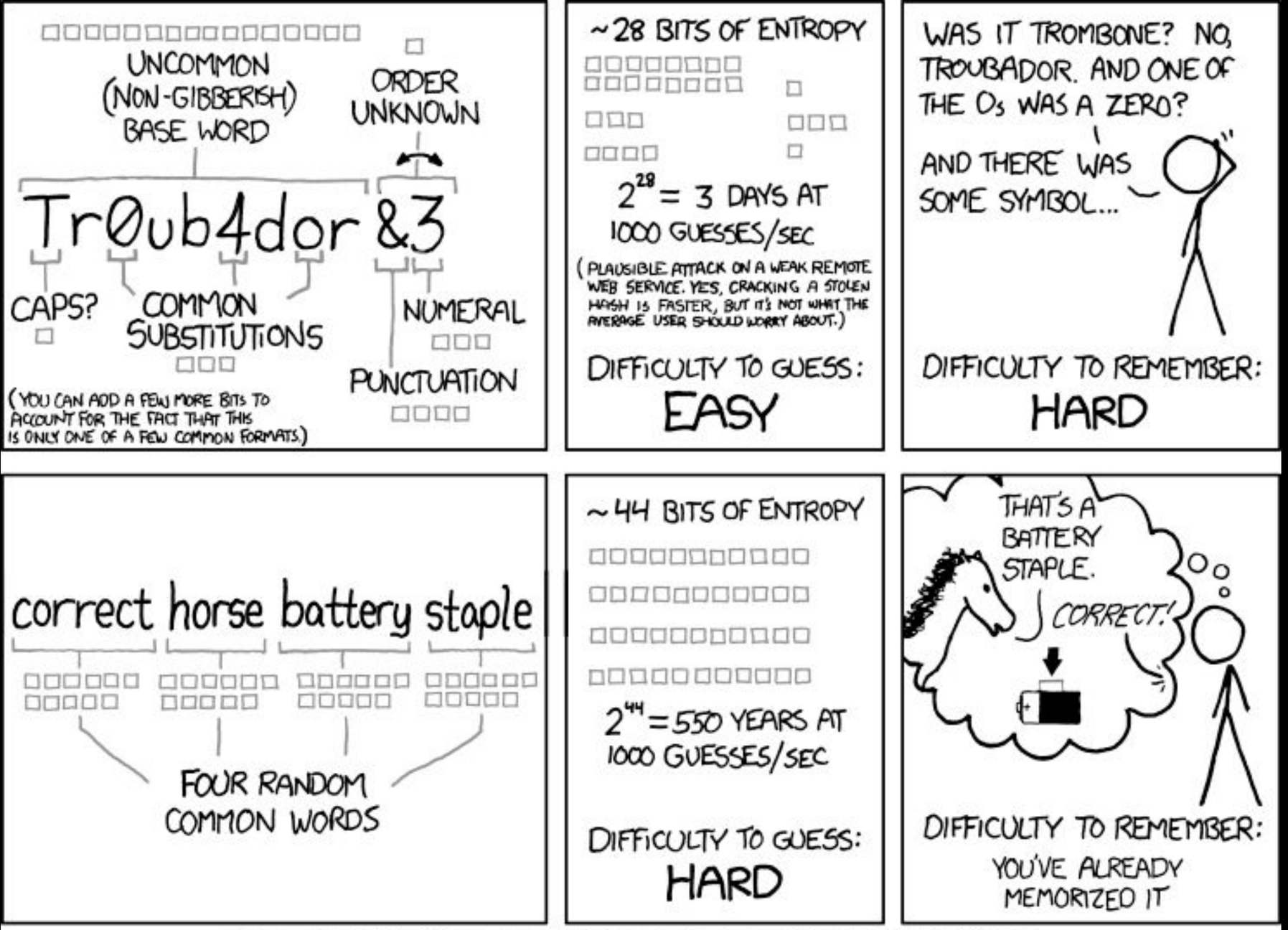
“Hot hot hot hot stuff hot hot hot”

↓

`Hhhhshhh`

Another method for picking a good password:

1. Look around your room, or out the window, or in a magazine
2. Choose 3 or 4 random items
3. Separate those items with a special character, e.g., - or + or $



This is very good advice!

Safely Test Your Password Strength.

puppy-flannel-tissue

☐ Hide password

Score: 4

Length of time to crack your password:

Throttled Online Attack	Unthrottled Online Attack	Offline Attack, Slow Hashing	Offline Attack, Fast Hashing
100 / Hour	**10 / second**	**10k / second**	**10B / second**
Time to crack: centuries	Time to crack: centuries	Time to crack: centuries	Time to crack: 6 days

Safely Test Your Password Strength.

puppy-flannel-tissue-puzzle

☐ Hide password

Score: 4

Length of time to crack your password:

Throttled Online Attack	Unthrottled Online Attack	Offline Attack, Slow Hashing	Offline Attack, Fast Hashing
100 / Hour	**10 / second**	**10k / second**	**10B / second**
Time to crack: centuries	Time to crack: centuries	Time to crack: centuries	Time to crack: centuries

Another method for picking a good password: use a *passphrase*, basically a sentence with spaces in it

WhatIsMyIP.com Search.. Pricing API Sign Up Login Help

What Is My IP? Tools

Spaces don’t magically make a passphrase good

Safely Test Your Password Strength.

Alexander the Great

Hide password

Score: 4

Length of time to crack your password:

Throttled Online Attack	Unthrottled Online Attack	Offline Attack, Slow Hashing	Offline Attack, Fast Hashing
100 / Hour	**10 / second**	**10k / second**	**10B / second**
Time to crack: centuries	Time to crack: 80 years	Time to crack: 30 days	Time to crack: 3 seconds

https://www.whatismyip.com/api/

Safely Test Your Password Strength.

Hey Jude, don't make it bad

☐ Hide password

Score: 4

Length of time to crack your password:

Throttled Online Attack	Unthrottled Online Attack	Offline Attack, Slow Hashing	Offline Attack, Fast Hashing
100 / Hour	**10 / second**	**10k / second**	**10B / second**
Time to crack: centuries	Time to crack: centuries	Time to crack: centuries	Time to crack: centuries

Safely Test Your Password Strength.

Hey Jude, don't make it bad

☐ Hide password

Score: 4

Length of time to crack your password:

Throttled Online Attack	Unthrottled Online Attack	Offline Attack, Slow Hashing	Offline Attack, Fast Hashing
100 / Hour	**10 / second**	**10k / second**	**10B / second**
Time to crack: centuries	Time to crack: centuries	Time to crack: centuries	Time to crack: centuries

Safely Test Your Password Strength.

I used to read Word Up! magazine

☐ Hide password

Score: 4

Length of time to crack your password:

Throttled Online Attack	Unthrottled Online Attack	Offline Attack, Slow Hashing	Offline Attack, Fast Hashing
100 / Hour	**10 / second**	**10k / second**	**10B / second**
Time to crack: centuries	Time to crack: centuries	Time to crack: centuries	Time to crack: centuries

Safely Test Your Password Strength.

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☐ Hide password

Score: 4

Length of time to crack your password:

Throttled Online Attack	Unthrottled Online Attack	Offline Attack, Slow Hashing	Offline Attack, Fast Hashing
100 / Hour	**10 / second**	**10k / second**	**10B / second**
Time to crack: centuries	Time to crack: centuries	Time to crack: centuries	Time to crack: centuries

Safely Test Your Password Strength.

Juicy by The Notorious B.I.G.

☐ Hide password

Score: 4

Length of time to crack your password:

Throttled Online Attack	Unthrottled Online Attack	Offline Attack, Slow Hashing	Offline Attack, Fast Hashing
100 / Hour	**10 / second**	**10k / second**	**10B / second**
Time to crack: centuries	Time to crack: centuries	Time to crack: centuries	Time to crack: centuries

Use a *password safe* or *password manager*

Generate lengthy, difficult passwords

Securely store passwords & other sensitive data

You only need to memorize 1 password—the one that opens your password safe

Lots of password managers

1Password • B-Folders • Bitwarden • Dashlane • Enpass • KeePassXC • Keeper • ~~LastPass~~ • mSecure • Password Safe

Do not use LastPass 🚫💩👎🤬🔪

Very spotty security record with several breaches, including one in which user records were completely compromised, including passwords!

KeePassXC

Fork of KeePassX, which was a fork of KeePass

www.keepassx.org

Free & open source

KeePassXC - Cross-Platform Password Manager

Never forget a password again.

Securely store passwords using industry standard encryption, quickly auto-type them into desktop applications, and use our browser extension to log into websites.

Download | Learn More | Donate

Encrypted

Complete database encryption using industry standard 256-bit AES. Fully compatible with KeePass Password Safe formats. Your password database works offline and requires

Cross-Platform

Every feature looks, feels, works, and is tested on Windows, macOS, and Linux. You can expect a seamless experience no matter which operating system you are using.

Open Source

The full source code is published under the terms of the GNU General Public License and made available on GitHub. Use, inspect, change, and share at will; contributions by

: DMG installer or Homebrew

⊞: Microsoft Store, Installer (10/11), Legacy (7/8/8.1), Portable, Chocolatey, Windows Package Manager

🐧: AppImage, Snap, Flatpak / Arch, Debian, Fedora, Gentoo, OpenSUSE, RHEL 8, Ubuntu

Browser extensions: Chromium-based browsers (e.g., Chrome, Brave, Vivaldi, Edge) & Firefox

demo.kdbx [Locked] - KeePassXC

Database Entries Groups Tools View Help

Search (Ctrl+F)...

Unlock KeePassXC Database

C:\demo\demo.kdbx

Enter Password:

Enter Additional Credentials (if any):

Key File: ? Browse...

Hardware Key: ? Refresh

OK Cancel

demo.kdbx [Locked] - KeePassXC

Database Entries Groups Tools View Help

Search (Ctrl+F)...

Unlock KeePassXC Database

C:\demo\demo.kdbx

Enter Password:

Enter Additional Credentials (if any):

Key File: ? Browse...

Hardware Key: ? Refresh

OK Cancel

Demo Passwords - KeePassXC

Database Entries Groups Tools View Help

Search (Ctrl+F)...

- Passwords
  - Internet
    - Coding
    - Gaming
    - Shopping
    - Social
  - My Computer
  - Real world
  - Recycle Bin

Title	Username	URL	Notes	Modified
Apple	john.doe@icloud.com	https://www.icloud.c...	Username is the Ap...	5/29/2020 2:25 PM
Dropbox	john.doe@example....	http://www.dropbox...		5/29/2020 2:25 PM
Example Login ...	john.doe@example....	https://www.w3scho...		6/13/2020 5:58 PM
Google	johndoe@gmail.com	https://google.com		5/29/2020 2:27 PM
IFTTT	johndoe	https://ifttt.com		5/29/2020 2:25 PM
Netflix	john.doe@example....	https://www.netflix.c...		5/29/2020 2:25 PM
Nextcloud	john.doe	https://apps.nextclo...		5/29/2020 2:25 PM
Pocket	john.doe	http://getpocket.co...		5/29/2020 2:25 PM

Passwords / Internet / Apple

General Advanced Autotype

Username john.doe@icloud.com

URL https://www.icloud.com

Password ••••••

Expiration Never

Notes Username is the Apple ID

Demo Passwords - KeePassXC

Database Entries Groups Tools View Help

A

Search (Ctrl+F)...

- Passwords
  - Internet
    - Coding
    - Gaming
    - Shopping
    - Social
  - My Computer
  - Real world
  - Recycle Bin

Title	Username	URL	Notes	Modified
Apple	john.doe@icloud.com	https://www.icloud.c...	Username is the Ap...	5/29/2020 2:25 PM
Dropbox	john.doe@example....	http://www.dropbox...		7/3/2020 10:47 AM
Example Login ...	john.doe@example....	https://www.w3scho...		6/13/2020 5:58 PM
Google	johndoe@gmail.com	https://google.com		5/29/2020 2:27 PM
IFTTT	johndoe	https://ifttt.com		5/29/2020 2:25 PM
Netflix				7/3/2020 10:46 AM
Netflix - Clone				7/3/2020 9:31 AM
Pocket				5/29/2020 2:25 PM

Copy Username Ctrl+B
Copy Password Ctrl+C
Copy Attribute
TOTP
Perform Auto-Type Ctrl+Shift+V
Edit Entry... Ctrl+E
Clone Entry... Ctrl+K
Delete Entry... Del
New Entry... Ctrl+N
Open URL Ctrl+Shift+U
Download Favicon Ctrl+Shift+D

B

Passwords / Int

General Advanced

Username john.doe@e

Password •••

Notes

RL https://www.netflix.com/

on Never

Demo Passwords* - KeePassXC

Database Entries Groups Tools View Help

Search (Ctrl+F)...

Internet • Netflix • Edit entry

Entry

Advanced

Icon

Auto-Type

Title: Netflix

Username: john.doe@example.com

Password: ••••••••••••••••

URL: https://www.netflix.com/

Expires: 6/20/2019 8:49 AM

Presets

Notes:

OK Cancel Apply

KeePassXC

Database Entries Groups Tools View Help

Search (Ctrl+F)...

cinch mangy thousand wind illicitly spoof quintuple

Password Quality: Good

Entropy: 90.47 bit

Password Passphrase

Word Count: 7

Word Separator:

Word Case: lower case

Close

KeePassXC

Database Entries Groups Tools View Help

Search (Ctrl+F)...

FTj"Z2Pf,uiX[iqh8US)

Password Quality: Excellent

Entropy: 121.25 bit

Password Passphrase

Length: 20 Advanced

Character Types

A-Z 0-9 .,:; <*+!?= #$%&@^`~

a-z {[(" ' _|-/ ExtendedASCII

Also choose from:

Do not include: Hex

- [x] Exclude look-alike characters
- [x] Pick characters from every group

Close

KeePassXC developers do not make mobile apps, but they recommend some

iOS: Strongbox & KeePassium

🤖: KeePassDX & KeePass2Android

1Password

1password.com

An excellent cross-platform password manager with a deep bench of cryptographers & security experts

iOS

Choose a plan

Annually | Monthly | USD

All Plans | Business | Personal

Individual

Take control of your online security.

$2.99 USD

per month. Paid annually.

Try FREE for 14 days →

- Password generator
- Login autofill and sharing
- Use on all of your devices
- Watchtower security breach checker
- Friendly email support

Families

Peace of mind for your entire family.

$4.99 USD

per month. Paid annually.

Try FREE for 14 days →

Everything from individual plan plus:

- 5 family members
- Simple admin controls

1Password for 1 person: $36/yr

- Unlimited passwords & 1 GB document storage
- Email support
- 365 day item history to restore deleted passwords
- Travel Mode

1Password Families: $60/yr for 5 people

- Additional member are $12/yr
- Shared vaults
- Recover accounts for locked-out members

A *vault* is a collection of passwords, serial numbers, credit card numbers, & other secured data

With 1Password Families, every user gets her own private vault, & she can create other private or shared vaults

The family also gets 1 vault that is shared among everybody

Choose a plan

Annually | Monthly | USD

All Plans

Business

Personal

Teams Starter Pack

Protect up to 10 team members.

$19.95 USD

up to 10 users per month. Paid annually.

Try FREE for 14 days →

Secure your small team with:

- Simple, secure sharing
- Actionable security alerts
- 1Password Developer

Business

Security that adapts to your business.

$7.99 USD

per user, per month. Paid annually.

Talk to sales →

Try FREE for 14 days →

Everything from Teams Starter Pack, plus:

- Integrates with Okta, Entra ID, OneLogin, Duo, and more
- Advanced reporting, granular admin controls, end-to-end encryption

Enterprise

Protect everyone in your organization with enterprise-level security.

Contact sales for custom pricing.

Get a quote →

Everything from Business plan, plus:

- Dedicated account manager, onboarding and customer success manager for accounts with 75+ users
- Tailored onboarding and training

Search in Demo!

+ New Item

Demo!

All Accounts

GranneTeam

WebSanity

All NOT (Warehouse | Demo)

Demo!

Manage Collections...

Manage Accounts...

Set Up Another Device...

Settings...

Lock

Documents

Bank Accounts

Databases

Driver Licenses

Emails

All Categories

Amazon
hp@lovecraft.com

Bank Check - Void.jpg
89 KB

Bazquz
scott@granneman.com

Big Heartless Bank
tom@okie.com

c5_bigcorp
dbms.websanity.com

Coca-Cola Recipe
Base

Commerce
Commerce Bank

Coventry Health Care [Me...

Demo!

All Items
Favorites
Watchtower

CATEGORIES

GRANNETEAM

TAGS

Archive
Recently Deleted

Search in Demo!

New Item

All Categories

A

Amazon
hp@lovecraft.com

B

Bank Check - Void.jpg
89 KB

Bazquz
scott@granneman.com

Big Heartless Bank
tom@okie.com

C

c5_bigcorp
dbms.websanity.com

Coca-Cola Recipe
Base

Commerce
Commerce Bank

Coventry Health Care [Me...

Search in Demo!

New Item

Demo!

All Items

Favorites

Watchtower

CATEGORIES

Logins

Secure Notes

Credit Cards

Identities

Passwords

Documents

Bank Accounts

Databases

Driver Licenses

Emails

Logins

A

Amazon
hp@lovecraft.com

B

Bazquz
scott@granneman.com

Big Heartless Bank
tom@okie.com

F

Foobar
scott@granneman.com

G

Google
hp@lovecraft.com

M

Microcenter
finn@gabefinn.com

Demo!

All Items
Favorites
Watchtower

CATEGORIES

Logins
Secure Notes
Credit Cards
Identities
Passwords
Documents
Bank Accounts
Databases
Driver Licenses
Emails

Search in Demo!

+ New Item

Logins

A

Amazon
hp@lovecraft.com

B

Bazquz
scott@granneman.com

Big Heartless Bank
tom@okie.com

F

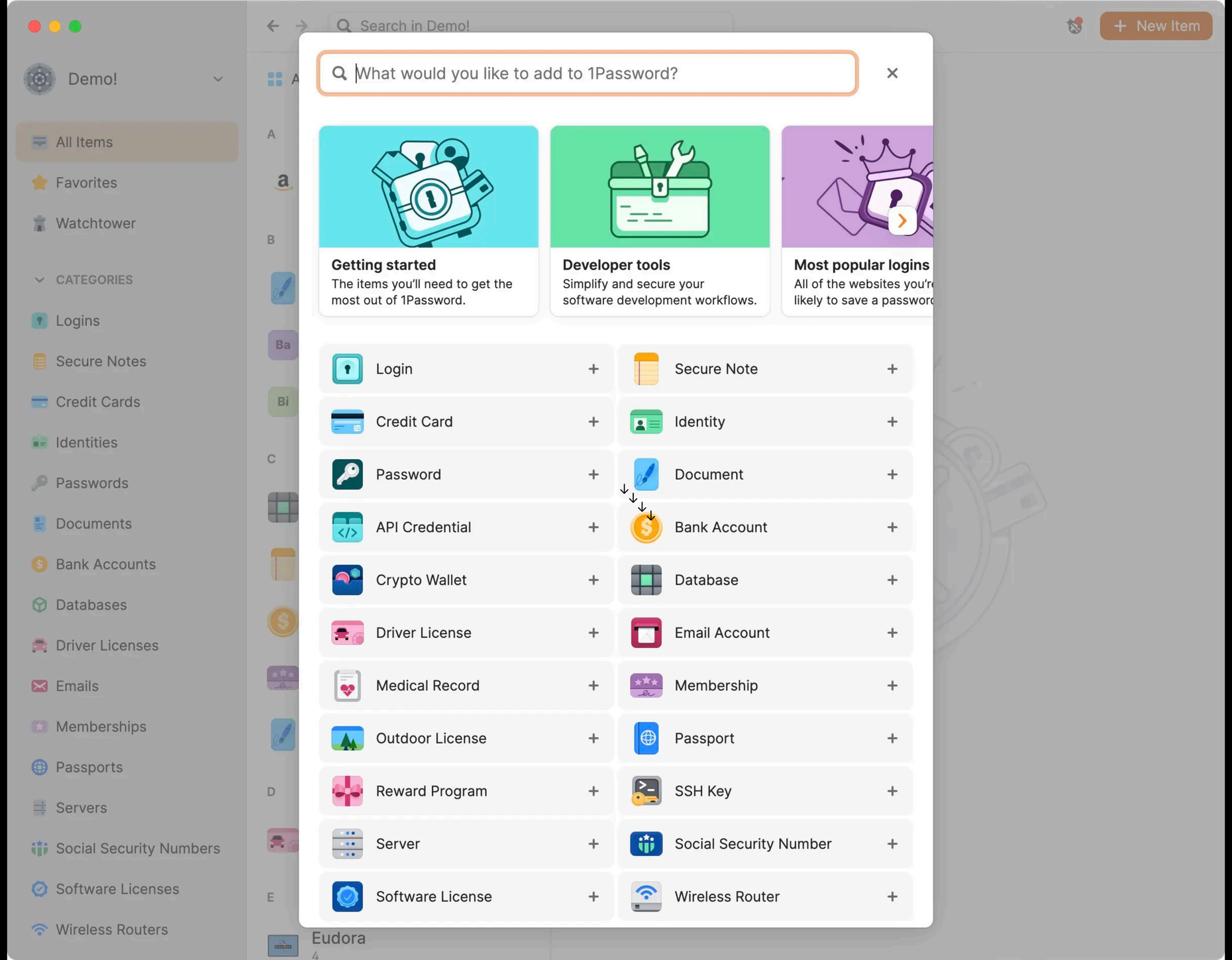
Foobar
scott@granneman.com

G

Google
hp@lovecraft.com

M

Microcenter
finn@gabefinn.com


Search in Demo!
New Item
Demo!
All Items
Favorites
Watchtower
CATEGORIES
Logins
Secure Notes
Credit Cards
Identities
Passwords
Documents
Bank Accounts
Databases
Driver Licenses
Emails
Memberships
Passports
Servers
Social Security Numbers
Software Licenses
Wireless Routers
What would you like to add to 1Password?
Getting started
The items you'll need to get the most out of 1Password.
Developer tools
Simplify and secure your software development workflows.
Most popular logins
Login
Secure Note
Credit Card
Identity
Password
Document
API Credential
Bank Account
Crypto Wallet
Database
Driver License
Email Account
Medical Record
Membership
Outdoor License
Passport
Reward Program
SSH Key
Server
Social Security Number
Software License
Wireless Router
Eudora

Search in Demo!

+ New Item

Demo!

All Items
Favorites
Watchtower

CATEGORIES

GRANNETEAM +

TAGS

Archive
Recently Deleted

All Categories

A

Amazon
hp@lovecraft.com

B

Bank Check - Void.jpg
89 KB

Bazquz
scott@granneman.com

Big Heartless Bank
tom@okie.com

C

c5_bigcorp
dbms.websanity.com

Coca-Cola Recipe
Base

Commerce
Commerce Bank

Coventry Health Care [Me...

GranneTeam | Demo

Edit

Big Heartless Bank

username
tom@okie.com

password
yQydLdPNHAZAPWhbLoq2A493CFXBxhCipv6

Fantastic

website
bigheartlessbank.com

SECURITY QUESTIONS

What is your mother's maiden name?
dimmer joist dusty

modified: 7/4/2022, 3:02:08 PM
created: 7/4/2022, 3:02:08 PM

Login

Search in Demo!

+ New Item

Demo!

All Items

Favorites

Watchtower

CATEGORIES

GRANNETEAM +

TAGS

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dbms.websanity.com

Coca-Cola Recipe
Base

Commerce
Commerce Bank

Coventry Health Care [Me...

GranneTeam | Demo

Edit

Two-Factor authentication available

You can save your two-factor authentication codes for this account in 1Password. Learn how to turn on two-factor authentication.

Scan QR Code | Ignore

Amazon

username
hp@lovecraft.com

password
rgrtvcsq4PhWWEzCEgq2EpMipj44gq3TqjWisqmBXie
Fantastic

website
amazon.com

modified: 6/29/2022, 1:25:24 PM
created: 3/10/2021, 11:11:55 AM

Login

Demo!

All Items
Favorites
Watchtower

CATEGORIES

GRANNETEAM

TAGS

Archive
Recently Deleted

Search in Demo!

+ New Item

All Categories

FinnyPhone
5/30/2017, 6:25:19 PM

Foobar
scott@granneman.com

G

Google
hp@lovecraft.com

H

How to summon Cthulhu
*Ph'nglui mglw'nafh Cthulhu R'lyeh ...

M

Mastercard
1234 **** 1234

Microcenter
finn@gabefinn.com

Milton [Web]
root

GranneTeam | Demo

Edit

Vulnerable Password

This password appears on a list of exposed passwords. Change your password. Learn more about the haveibeenpwned.com service.

Ignore

FinnyPhone

password
738291

Weak

notes
2017-05-30: 4125

modified: 4/18/2019, 9:54:09 PM
created: 5/30/2017, 6:25:19 PM

Password

Search in Demo!

+ New Item

Demo!

All Items

Favorites

Watchtower

CATEGORIES

GRANNETEAM +

TAGS

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All Categories

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C

c5_bigcorp
dbms.websanity.com

Coca-Cola Recipe
Base

Commerce
Commerce Bank

Coventry Health Care [Me...

GranneTeam | Demo

Edit

Coca-Cola Recipe

Base

- 1 oz (28 g) caffeine citrate
- 3 oz (85 g) citric acid
- 1 US fl oz (30 ml) vanilla extract
- 1 US qt (946 ml) lime juice
- 2.5 oz (71 g) "flavoring" (i.e., "Merchandise 7X")
- 30 lb (14 kg) sugar
- 4 US fl oz (118.3 ml) fluid extract of coca leaves (flavor essence of the coca leaf)
- 2.5 US gal (9.5 l; 2.1 imp gal) water
- caramel sufficient to give color

Flavoring (Merchandise 7X):

- 1 qrt alcohol
- 80 oil orange
- 40 oil cinnamon
- 120 oil lemon
- 20 oil coriander
- 40 oil nutmeg
- 40 oil neroli

"Let stand 24 hours."

Instructions

Notes

Demo!

All Items
Favorites
Watchtower

CATEGORIES

GRANNETEAM

TAGS

Archive
Recently Deleted

Search in Demo!

New Item

All Categories

How to summon Cthulhu
*Ph'nglui mglw'nafh Cthulhu R'lyeh ...

M

Mastercard
1234 **** 1234

Microcenter
finn@gabefinn.com

Milton [Web]
root

Mom
BettySue

Mom's Secure Keybox
3/10/2021, 11:07:38 AM

My id_rsa secret key
-----BEGIN RSA PRIVATE KEY-----

P

Passport: Scott
444624621

GranneTeam | Demo

Edit

Mastercard

cardholder name
H. P. Lovecraft

type
Mastercard

number
1234 1234 1234 1234

verification number
000

expiry date
01/2200

CONTACT INFORMATION

issuing bank
First Bank of Dunwich

modified: 3/10/2021, 11:05:30 AM
created: 3/10/2021, 11:05:30 AM

Credit Card

Search in Demo!

+ New Item

Demo!

All Items
Favorites
Watchtower

CATEGORIES

GRANNETEAM +

TAGS

Archive
Recently Deleted

All Categories

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*Ph'nglui mglw'nafh Cthulhu R'lyeh ...

M

Mastercard
1234 **** 1234

Microcenter
finn@gabefinn.com

Milton [Web]
root

Mom
BettySue

Mom's Secure Keybox
3/10/2021, 11:07:38 AM

My id_rsa secret key
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444624621

GranneTeam | Demo

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Mastercard

cardholder name
H. P. Lovecraft

type
Mastercard

number
1234 1234 1234 1234

verification number
000

expiry date
01/2200

CONTACT INFORMATION

issuing bank
First Bank of Dunwich

modified: 3/10/2021, 11:05:30 AM
created: 3/10/2021, 11:05:30 AM

Credit Card

Search in Demo!

New Item

Demo!

All Items
Favorites
Watchtower

CATEGORIES

Logins
Secure Notes
Credit Cards
Identities
Passwords
Documents
Bank Accounts
Databases
Driver Licenses
Emails

All Categories

D

Driver's License (Scott Gra...
V987654321

E

Eudora
4

F

FinnyPhone
5/30/2017, 6:25:19 PM

Foobar
scott@granneman.com

G

Google
hp@lovecraft.com

H

How to summon Cthulhu
*Ph'nglui mglw'nafh Cthulhu R'lyeh ...

Editing

Cancel

Save

Mastercard

cardholder name
H. P. Lovecraft

type
Mastercard

number
1234123412341234

verification number
••••••••••

expiry date
1 / 2200

valid from
-- / ----

+ add another field

Contact Information

issuing bank
First Bank of Dunwich

phone (local)

Demo!

All Items
Favorites
Watchtower

CATEGORIES

Logins
Secure Notes
Credit Cards
Identities
Passwords
Documents
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Databases
Driver Licenses
Emails

Search in Demo!

New Item

All Categories

D

Driver's License (Scott Gra...
V987654321

E

Eudora
4

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FinnyPhone
5/30/2017, 6:25:19 PM

Foobar
scott@granneman.com

G

Google
hp@lovecraft.com

H

How to summon Cthulhu
*Ph'nglui mglw'nafh Cthulhu R'lyeh ...

Editing

Cancel

Save

Contact Information

issuing bank
First Bank of Dunwich

phone (local)
text

phone (toll free)
text

phone (intl)
text

website
text

+ add another field

Additional Details

PIN
password

credit limit
text

cash withdrawal limit
text

interest rate

Demo!

All Items
Favorites
Watchtower

CATEGORIES

Logins
Secure Notes
Credit Cards
Identities
Passwords
Documents
Bank Accounts
Databases
Driver Licenses
Emails

Search in Demo!

New Item

All Categories

D

Driver's License (Scott Gra...
V987654321

E

Eudora
4

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FinnyPhone
5/30/2017, 6:25:19 PM

Foobar
scott@granneman.com

G

Google
hp@lovecraft.com

H

How to summon Cthulhu
*Ph'nglui mglw'nafh Cthulhu R'lyeh ...

Editing

Cancel

Save

Additional Details

PIN
password

credit limit
text

cash withdrawal limit
text

interest rate
text

issue number
text

+ add another field

+ add more

notes
Add any notes about this item here.

tags
+ Add tag

Demo!

All Items
Favorites
Watchtower

CATEGORIES

GRANNETEAM

TAGS

Archive
Recently Deleted

Search in Demo!

New Item

All Categories

P

Passport: Scott
444624621

S

scott.granneman@foobar....
scott.granneman@foobar.com

Solar Winds
admin@solarwinds.com

SSN: Betty Sue Simonson
Betty Sue Simonson

V

VISA
1234 **** 1234

W

WebSanity (Scott Granne...
Scott Granneman

27 Items

GranneTeam | Demo

Edit

WebSanity (Scott Granneman)

IDENTIFICATION

first name
Scott

last name
Granneman

gender
Male

company
WebSanity

ADDRESS

address
1610 S. Big Bend Blvd.
Saint Louis MO 63117
United States

cell
314-555-5555

business

Identity

Search in Demo!

+ New Item

Demo!

All Items

Favorites

Watchtower

CATEGORIES

GRANNETEAM +

TAGS

Archive

Recently Deleted

All Categories

A

Amazon
hp@lovecraft.com

B

Bank Check - Void.jpg
89 KB

Bazquz
scott@granneman.com

Big Heartless Bank
tom@okie.com

C

c5_bigcorp
dbms.websanity.com

Coca-Cola Recipe
Base

Commerce
Commerce Bank

Coventry Health Care [Me...
Betty Sue Simonson

GranneTeam | Demo

Edit

Bank Check - Void.jpg

Bank Check - Void.jpg

Preview

file size
86 KB

modified: 3/9/2021, 4:51:12 PM
created: 3/9/2021, 4:51:11 PM

Document

Search in Demo!

+ New Item

Demo!

All Items
Favorites
Watchtower

CATEGORIES

GRANNETEAM +

TAGS

Archive
Recently Deleted

All Categories

A

Amazon
hp@lovecraft.com

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89 KB

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dbms.websanity.com

Coca-Cola Recipe
Base

Commerce
Commerce Bank

Coventry Health Care [Me...
Betty Sue Simonson

GranneTeam | Demo

Edit

Bank Check - Void.jpg

Bank Check - Void.jpg

Preview

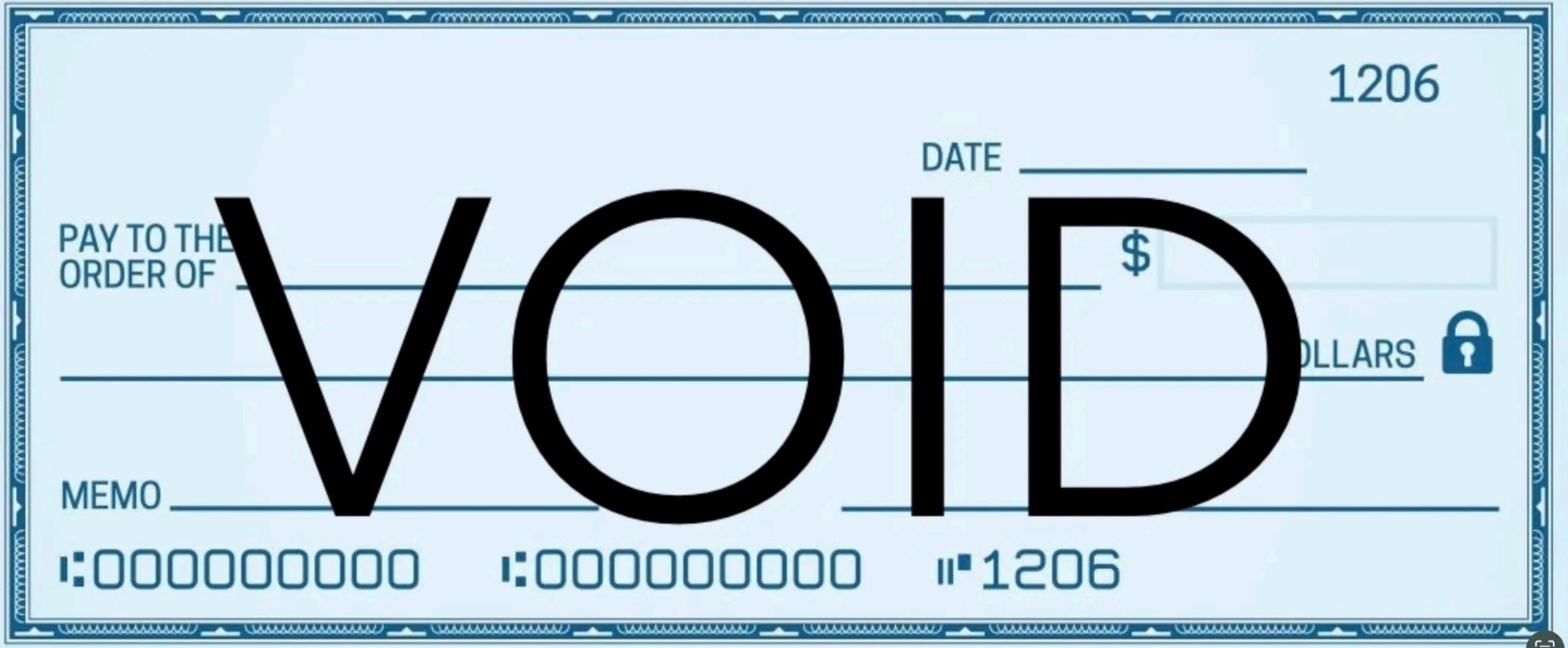
file size
86 KB

modified: 3/9/2021, 4:51:12 PM
created: 3/9/2021, 4:51:11 PM

Document

/var/folders/wd/5ts0thz50pzbpfw66jnhsyt00000gn/T/1Password/previews/Bank Check - Void.jpg

Open with Preview



Demo!

All Items
Favorites
Watchtower

CATEGORIES

GRANNETEAM

TAGS

Archive
Recently Deleted

Search in Demo!

New Item

All Categories

c5_bigcorp
dbms.websanity.com

Coca-Cola Recipe
Base

Commerce
Commerce Bank

Coventry Health Care [Me...
Betty Sue Simonson

Cthulhu.jpg
353 KB

D

Driver's License (Scott Gra...
V987654321

E

Eudora
4

F

FinnyPhone
5/30/2017, 6:25:19 PM

GranneTeam | Demo

Edit

Commerce

bank name
Commerce Bank

name on account
R. Scott Granneman

type
Checking

routing number
012345678
Copy

account number
987654321

PIN
1111

RELATED ITEMS

Bank Check - Void.jpg
89 KB

tags

Bank Account

Search in Demo!

+ New Item

Demo!

All Items
Favorites
Watchtower

CATEGORIES

GRANNETEAM +

TAGS

Archive
Recently Deleted

All Categories

A

Amazon
hp@lovecraft.com

B

Bank Check - Void.jpg
89 KB

Bazquz
scott@granneman.com

Big Heartless Bank
tom@okie.com

C

c5_bigcorp
dbms.websanity.com

Coca-Cola Recipe
Base

Commerce
Commerce Bank

Coventry Health Care [Me...

GranneTeam | Demo

Edit

c5_bigcorp

type
MySQL

server
dbms.websanity.com

database
foocorp

username
foocorp_admin

password
9KSgy64RZUQMY9b4hKAXpeUXY

modified: 3/9/2021, 1:22:21 PM
created: 6/12/2012, 1:55:17 PM

Database

Demo!

All Items
Favorites
Watchtower

CATEGORIES

GRANNETEAM

TAGS

Archive
Recently Deleted

Search in Demo!

New Item

All Categories

Coca-Cola Recipe
Base

Commerce
Commerce Bank

Coventry Health Care [Me...
Betty Sue Simonson

Cthulhu.jpg
353 KB

D

Driver's License (Scott Gra...
V987654321

E

Eudora
4

F

FinnyPhone
5/30/2017, 6:25:19 PM

Foobar
scott@granneman.com

GranneTeam | Demo

Edit

Driver's License (Scott Granneman)

full name
Ralph Scott Granneman

address
39 Summit Pl, Webster Groves, MO 63119

date of birth
1985-07-04

gender
male

height
6'2"

number
V987654321

license class
F

conditions / restrictions
T

state
Missouri

Driver’s License

Demo!

All Items
Favorites
Watchtower

CATEGORIES

GRANNETEAM

TAGS

Archive
Recently Deleted

Search in Demo!

+ New Item

All Categories

P

Passport: Scott
444624621

S

scott.granneman@foobar....
scott.granneman@foobar.com

Solar Winds
admin@solarwinds.com

SSN: Betty Sue Simonson
Betty Sue Simonson

V

VISA
1234 **** 1234

W

WebSanity (Scott Granne...
Scott Granneman

27 Items

GranneTeam | Demo

Edit

scott.granneman@foobar.com

type
IMAP

username
scott.granneman@foobar.com

server
imap.gmail.com

port number
993

password
6DscKmmsnBV7PA8NDC2f3UVT9oM2JHupsbW

security
TLS

SMTP

SMTP server
smtp.gmail.com

port number
465

Email

Demo!

All Items
Favorites
Watchtower

CATEGORIES
GRANNETEAM
TAGS

Archive
Recently Deleted

Search in Demo!

New Item

All Categories

Coca-Cola Recipe
Base

Commerce
Commerce Bank

Coventry Health Care [Me...
Betty Sue Simonson

Cthulhu.jpg
353 KB

D

Driver's License (Scott Gra...
V987654321

E

Eudora
4

F

FinnyPhone
5/30/2017, 6:25:19 PM

Foobar
scott@granneman.com

GranneTeam | Demo

Edit

Coventry Health Care [Medicare for Mom]

group
1234567890

telephone
800-555-5555

member name
Betty Sue Simonson

member since
01/2018

member ID
987654321-01

prior authorizations
877-555-4321

plan
Advantra Freedom Plus (PPO)

RELATED ITEMS

Missing Item
This item has been moved or deleted

Membership

Search in Demo!

+ New Item

Demo!

All Items
Favorites
Watchtower

CATEGORIES

GRANNETEAM +

TAGS

Archive
Recently Deleted

All Categories

Microcenter
finn@gabefinn.com

Milton [Web]
root

Mom
BettySue

Mom's Secure Keybox
3/10/2021, 11:07:38 AM

My id_rsa secret key
-----BEGIN RSA PRIVATE KEY-----

P

Passport: Scott
444624621

S

scott.granneman@foobar....
scott.granneman@foobar.com

Solar Winds
admin@solarwinds.com

SSN: Betty Sue Simonson

GranneTeam | Demo

Edit

Expired

This Passport expired on Oct 19, 2018. If you've renewed it, enter your updated information.

Ignore

Passport: Scott

type
P

issuing country
United States of America

number
444624621

full name
Ralph Scott Granneman

gender
male

nationality
United States of America

issuing authority
United States of America

Passport

Demo!

All Items
Favorites
Watchtower

CATEGORIES

GRANNETEAM

TAGS

Archive
Recently Deleted

Search in Demo!

New Item

All Categories

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finn@gabefinn.com

Milton [Web]
root

Mom
BettySue

Mom's Secure Keybox
3/10/2021, 11:07:38 AM

My id_rsa secret key
-----BEGIN RSA PRIVATE KEY-----

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Passport: Scott
444624621

S

scott.granneman@foobar....
scott.granneman@foobar.com

Solar Winds
admin@solarwinds.com

SSN: Betty Sue Simonson

GranneTeam | Demo

Edit

Milton [Web]

URL
bors.websanity.com

username
root

password
AijPhTa3QH9JTdgcntjvNuAcnC8rUxfC4mF

public IPv4 address
23.235.84.202

public IPv6 address
2600:3c00::0013:91ff:9c7d:4ed9

private IPv4 address
192.168.43.88

private IPv6 address
fe80::f03c:0ee4:b6f8:81a5

HOSTING PROVIDER

name
Linode

Server

Demo!

All Items
Favorites
Watchtower

CATEGORIES
GRANNETEAM
TAGS

Archive
Recently Deleted

Search in Demo!

New Item

All Categories

P

Passport: Scott
444624621

S

scott.granneman@foobar....
scott.granneman@foobar.com

Solar Winds
admin@solarwinds.com

SSN: Betty Sue Simonson
Betty Sue Simonson

V

VISA
1234 **** 1234

W

WebSanity (Scott Granne...
Scott Granneman

27 Items

GranneTeam | Demo

Edit

SSN: Betty Sue Simonson

name
Betty Sue Simonson

number
123-45-6789

tags
Mom

modified: 3/9/2021, 5:11:56 PM
created: 3/15/2010, 5:45:02 PM

Social Security Number

Demo!

All Items
Favorites
Watchtower

CATEGORIES

GRANNETEAM

TAGS

Archive
Recently Deleted

Search in Demo!

New Item

All Categories

Coca-Cola Recipe
Base

Commerce
Commerce Bank

Coventry Health Care [Me...
Betty Sue Simonson

Cthulhu.jpg
353 KB

D

Driver's License (Scott Gra...
V987654321

E

Eudora
4

F

FinnyPhone
5/30/2017, 6:25:19 PM

Foobar
scott@granneman.com

GranneTeam | Demo

Edit

Eudora

version
4

license key
216818560774

CUSTOMER

licensed to
Scott Granneman

registered email
scott@granneman.com

PUBLISHER

download page
qualcomm

retail price
$40

Software License

Search in Demo!

+ New Item

Demo!

All Items
Favorites
Watchtower

CATEGORIES

GRANNETEAM +

TAGS

Archive
Recently Deleted

All Categories

Microcenter
finn@gabefinn.com

Milton [Web]
root

Mom
BettySue

Mom's Secure Keybox
3/10/2021, 11:07:38 AM

My id_rsa secret key
-----BEGIN RSA PRIVATE KEY-----

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Passport: Scott
444624621

S

scott.granneman@foobar...
scott.granneman@foobar.com

Solar Winds
admin@solarwinds.com

SSN: Betty Sue Simonson

GranneTeam | Demo

Edit

Mom

base station password
Spatt-Uv-Iko

network name
BettySue

wireless security
WPA2 Personal

wireless network password
Scooby-Doo

pin
34436011

notes
Old: hvp4kiyeacnpc

tags
Mom

modified: 3/9/2021, 5:11:
created: 8/12/2015, 1:51:

Wi-Fi Router

Mark items as Favorites

Demo!

All Items
Favorites
Watchtower

CATEGORIES
GRANNETEAM
TAGS

Archive
Recently Deleted

Search in Demo!

New Item

All Categories

P

Passport: Scott
444624621

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scott.granneman@foobar....
scott.granneman@foobar.com

Solar Winds
admin@solarwinds.com

SSN: Betty Sue Simonson
Betty Sue Simonson

V

VISA
1234 **** 1234

W

WebSanity (Scott Granne...
Scott Granneman

27 Items

GranneTeam | Demo

Edit

Open Item in New Window
Add to Favorites
Move...
Duplicate...
Share...
Copy Private Link
only for you
Archive
Delete

scott.granneman@foobar.com

type
IMAP

username
scott.granneman@foobar.com

server
imap.gmail.com

port number
993

password
6DscKmmsnBV7PA8NDC2f3UVT9oM2JHupsbW

security
TLS

SMTP

SMTP server
smtp.gmail.com

port number
465

Demo!

All Items
Favorites
Watchtower

CATEGORIES

GRANNETEAM

TAGS

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Recently Deleted

Search in Demo!

New Item

All Categories

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Passport: Scott
444624621

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scott.granneman@foobar....
scott.granneman@foobar.com

Solar Winds
admin@solarwinds.com

SSN: Betty Sue Simonson
Betty Sue Simonson

V

VISA
1234 **** 1234

W

WebSanity (Scott Granne...
Scott Granneman

27 Items

GranneTeam | Demo

Edit

scott.granneman@foobar.com

type
IMAP

username
scott.granneman@foobar.com

server
imap.gmail.com

port number
993

password
6DscKmmsnBV7PA8NDC2f3UVT9oM2JHupsbW

security
TLS

SMTP

SMTP server
smtp.gmail.com

port number
465

Demo!

All Items

Favorites

Watchtower

CATEGORIES

GRANNETEAM

TAGS

Archive

Recently Deleted

Search in Demo!

New Item

All Categories

G

Google
hp@lovecraft.com

S

scott.granneman@foobar....
scott.granneman@foobar.com

2 Items

Move items from one vault to another

Demo!

All Items
Favorites
Watchtower

CATEGORIES
GRANNETEAM
TAGS

Archive
Recently Deleted

Search in Demo!

New Item

All Categories

P

Passport: Scott
444624621

S

scott.granneman@foobar....
scott.granneman@foobar.com

Solar Winds
admin@solarwinds.com

SSN: Betty Sue Simonson
Betty Sue Simonson

V

VISA
1234 **** 1234

W

WebSanity (Scott Granne...
Scott Granneman

27 Items

GranneTeam | Demo

Edit

1

Open Item in New Window
Remove from Favorites
2 Move...
Duplicate...
Share...
Copy Private Link
only for you
Archive
Delete

scott.granneman@foobar.com

type
IMAP

username
scott.granneman@foobar.com

server
imap.gmail.com

port number
993

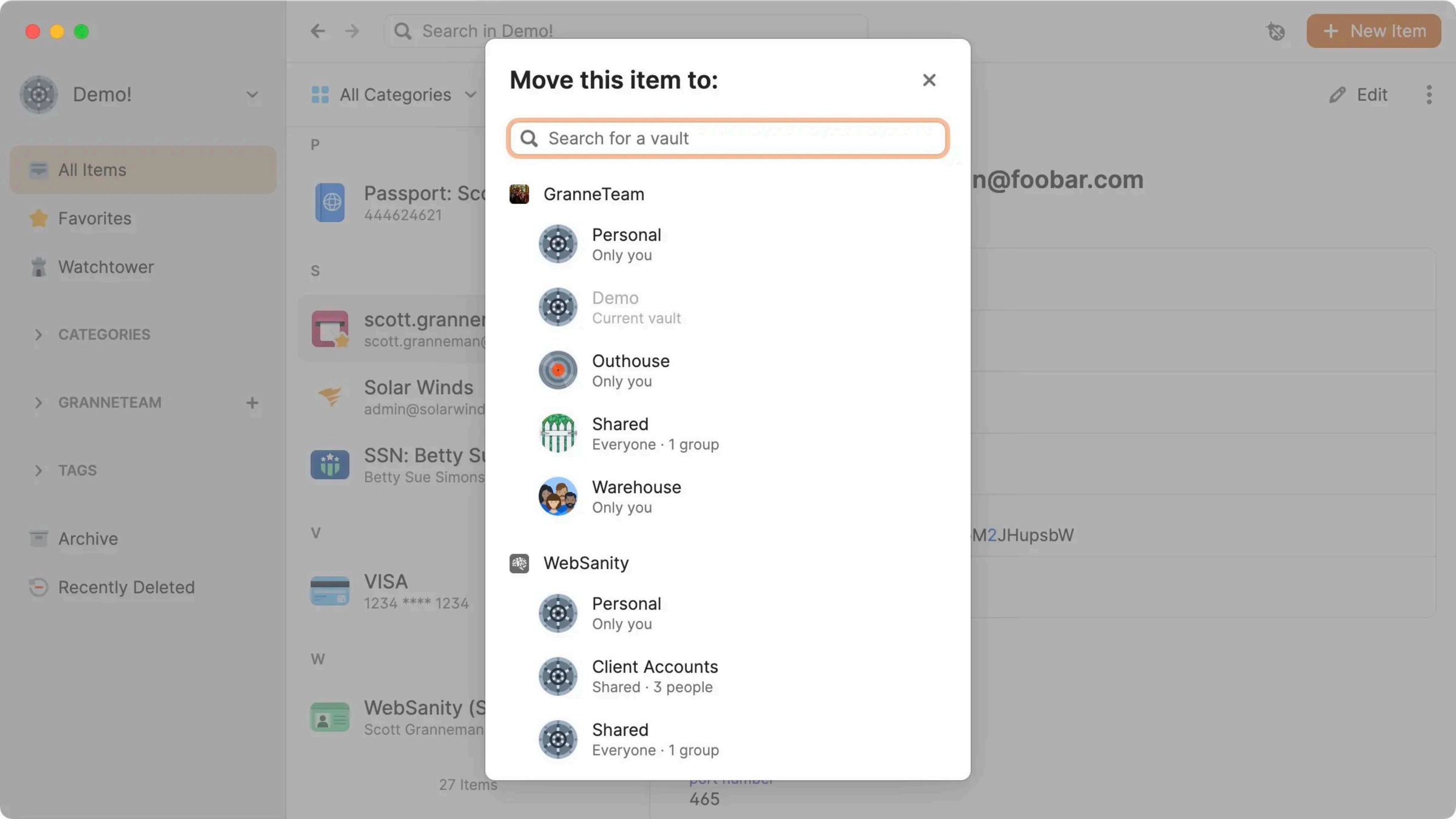
password
6DscKmmsnBV7PA8NDC2f3UVT9oM2JHupsbW

security
TLS

SMTP

SMTP server
smtp.gmail.com

port number
465


Search in Demo!
New Item
Demo!
All Categories
Edit
All Items
Favorites
Watchtower
CATEGORIES
GRANNETEAM
TAGS
Archive
Recently Deleted
P
Passport: Sc
444624621
S
scott.granner
scott.granneman
Solar Winds
admin@solarwind
SSN: Betty Su
Betty Sue Simons
V
VISA
1234 **** 1234
W
WebSanity (S
Scott Granneman
27 Items
n@foobar.com
M2JHupsbW
465
Move this item to:
Search for a vault
GranneTeam
Personal
Only you
Demo
Current vault
Outhouse
Only you
Shared
Everyone · 1 group
Warehouse
Only you
WebSanity
Personal
Only you
Client Accounts
Shared · 3 people
Shared
Everyone · 1 group

So how do I use 1Password?

Preferences

- General
- Appearance
- Security
- Privacy
- Browser
- Advanced
- Developer
- About

Connect with 1Password in the browser

When you connect the 1Password app and browser extension, it makes it easier to unlock and fill your passwords.

Get 1Password for Your Browser

Preferences

- General
- Appearance
- Security
- Privacy
- Browser
- Advanced
- Developer
- About

Unlock

- [x] Touch ID
- [x] Apple Watch

Learn more about Touch ID and Apple Watch security.

Require password Every 2 weeks

Auto-lock

- [x] Lock on sleep, screensaver, or switching users

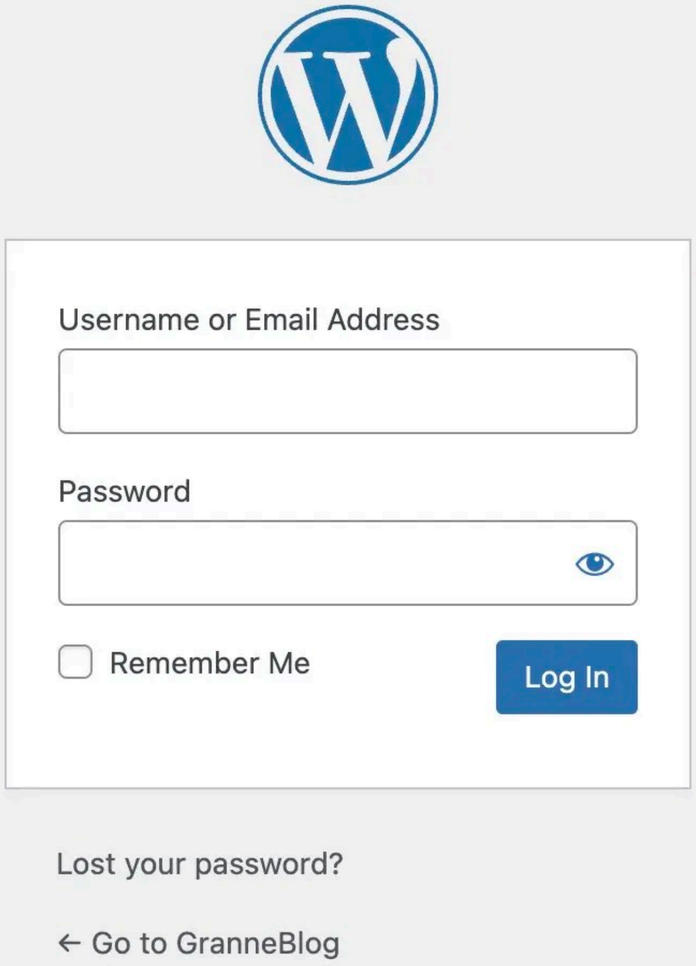
Lock after the computer is idle for 10 minutes

Clipboard

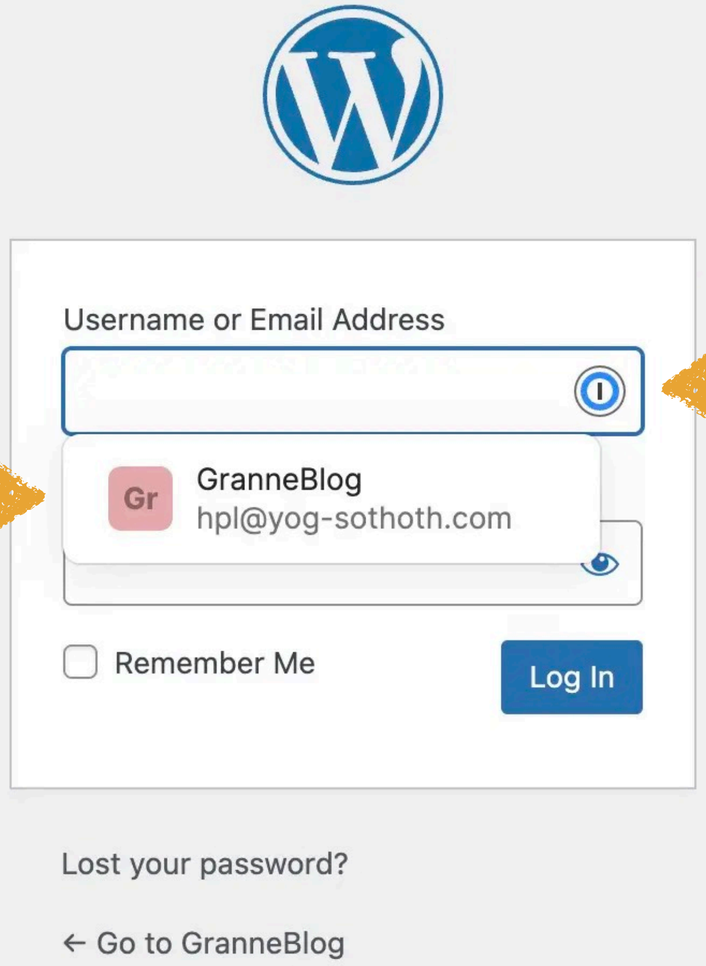
- [x] Remove copied information and authentication codes after 90 seconds
- [ ] Use Universal Clipboard to copy to other devices

Concealed Fields

- [x] Always show passwords and full credit card numbers

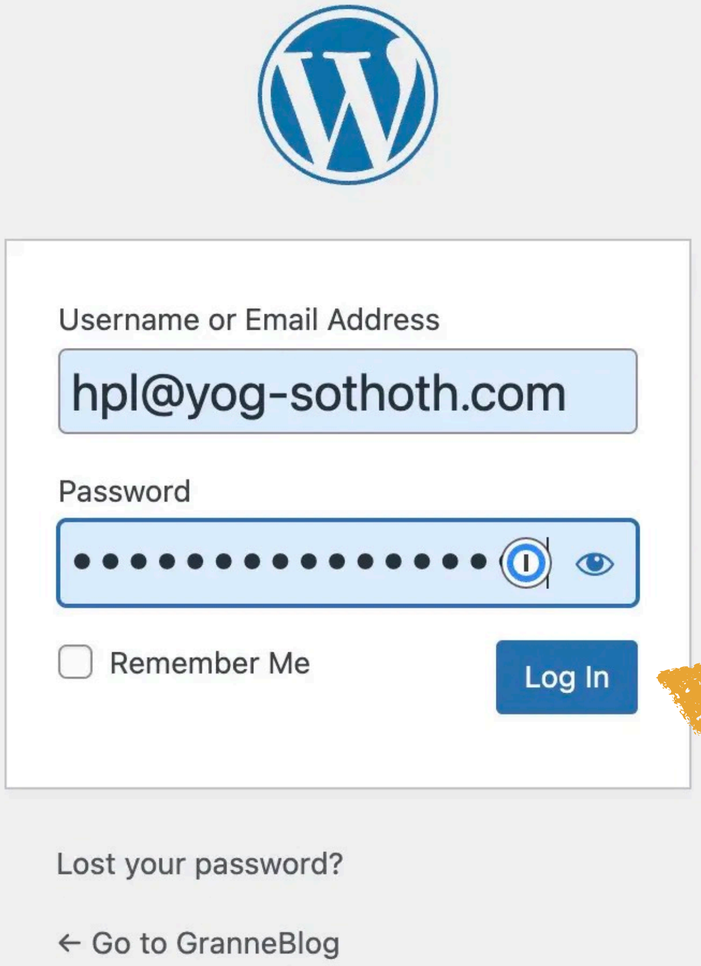


Click into the Username or Password field...

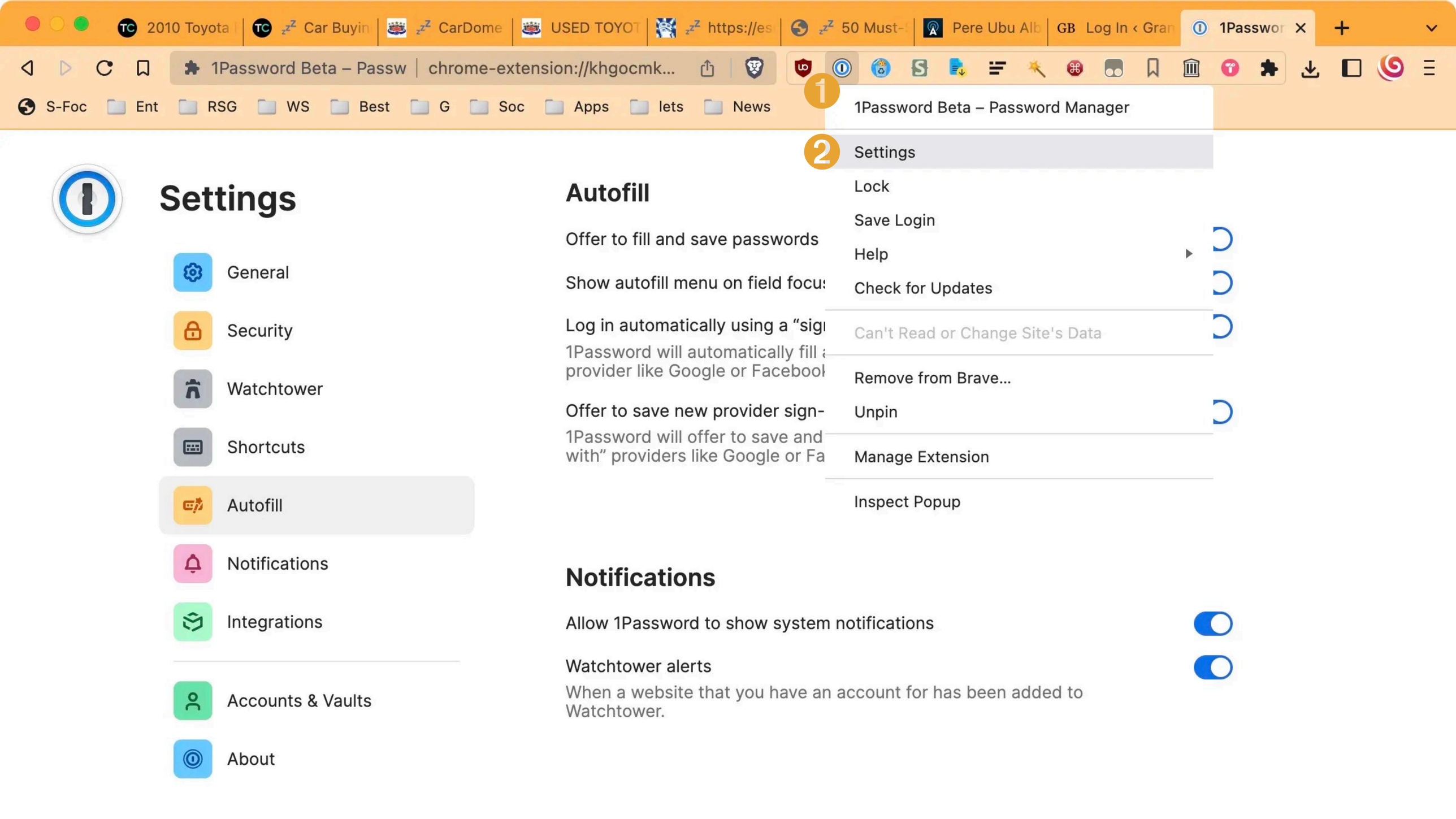


1Password icon

List of logins that match the domain (in this case, only 1)



Just press Log In (or set 1Password to automatically do that for you)


1Password Beta – Passw
chrome-extension://khgocmk...
1
1Password Beta – Password Manager
2
Settings
Lock
Save Login
Help
Check for Updates
Can't Read or Change Site's Data
Remove from Brave...
Unpin
Manage Extension
Inspect Popup
Settings
General
Security
Watchtower
Shortcuts
Autofill
Notifications
Integrations
Accounts & Vaults
About
Autofill
Offer to fill and save passwords
Show autofill menu on field focus
Log in automatically using a "sig
1Password will automatically fill a
provider like Google or Facebook
Offer to save new provider sign-
1Password will offer to save and
with" providers like Google or Fa
Notifications
Allow 1Password to show system notifications
Watchtower alerts
When a website that you have an account for has been added to Watchtower.

Settings

- General
- Security
- Watchtower
- Shortcuts
- Autofill
- Notifications
- Integrations
- Accounts & Vaults
- About

Autofill

Offer to fill and save passwords

Show autofill menu on field focus

Log in automatically using a “sign in with” provider

1Password will automatically fill and submit forms when you use a provider like Google or Facebook to log in to other sites.

This setting is fine for most people, but I prefer to leave it off & manually create a new login item in which I paste in the domain name (e.g., `hpl.com`) & generate a password

When a website that you have an account for has been added to Watchtower.

Integrations

Create and save unique virtual payment cards, Masked Emails, and more with services you connect to 1Password.

Manage Integrations

Choose account

What if you need to enter information in an app?

Or for some reason, 1Password can’t detect what webpage you are on?

Or you just need info stored in 1Password?

Preferences

- General
- Appearance
- Security
- Privacy
- Browser
- Advanced
- Developer
- About

Keep 1Password in the menu bar

1Password will be available in the menu bar even when the main window is closed.

Click the icon to: Show a menu

Start at login

Format secure notes using Markdown

Learn more about using Markdown.

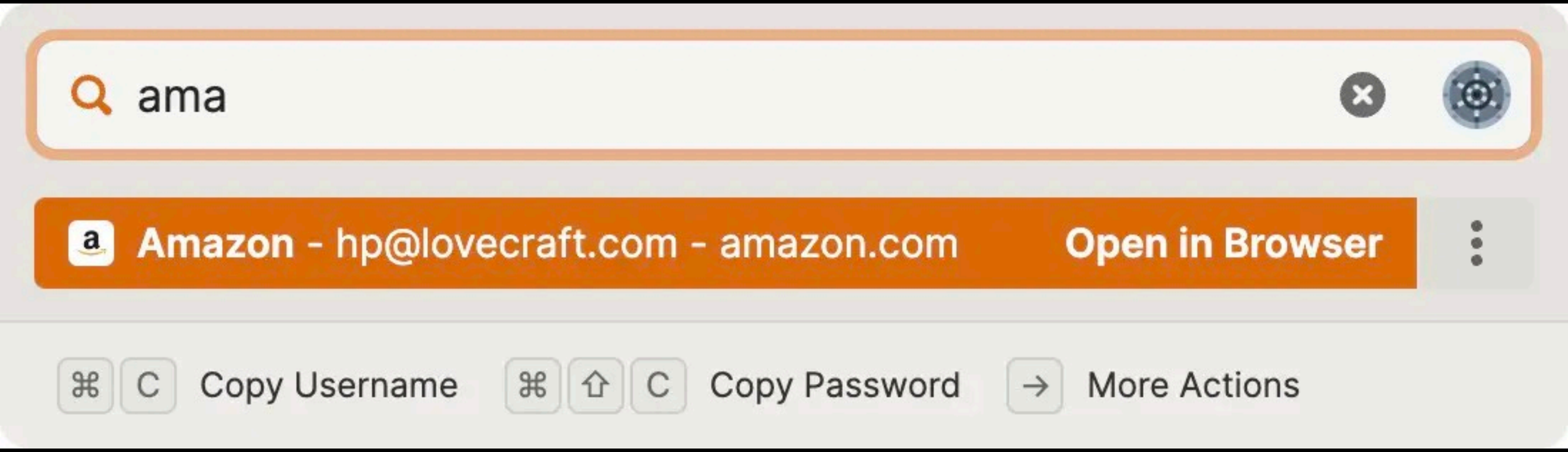
Autosubmit forms after filling with Quick Access

Keyboard Shortcuts

Show 1Password:	Enter shortcut
Show Quick Access:	⇧⌘Space
Lock 1Password:	⇧⌘L
Autofill:	⌘\

Search 1Password

⇧ ⌘ Space Show Quick Access ⌘ / Keyboard Shortcuts



I can now use ↩/`Enter` to autofill fields in browsers or apps

Or use key commands to copy specific data

ama

Amazon
hp@lovecraft.com - amazon.com

Copy Username	⌘C
Copy Password	⌘⇧C
Open Item In New Window	⌘O
Open In Browser	⌥Return
Autofill	⇧Return
Open In 1Password	⇧⌘O

Located In GranneTeam | Demo

Watchtower protects you

Search in Demo!

+ New Item

Demo!

All Items

Favorites

Watchtower

CATEGORIES

GRANNETEAM +

TAGS

Archive

Recently Deleted

Watchtower

Get alerts for any security issues that affect you. Your score gives an overall idea of how safe your data is. Take action on the flagged items to level up your security.

Share My Score

1059

FANTASTIC

Overall Password Strength

This view only shows security issues for the selected collection, which may not include all your vaults.

3

Vulnerable Passwords

These passwords were found in a database of breached passwords from haveibeenpwned.com. Change them to keep your accounts safe.

Show Items

3

Weak Passwords

Weak passwords are easier to guess. Generate strong passwords to keep your accounts safe.

Show Items

1

Unsecured Websites

Websites that use HTTP URLs aren't secure. Try changing the URL to use HTTPS to secure your connection to the site.

Show Items

Demo!

All Items
Favorites
Watchtower

CATEGORIES

GRANNETEAM

TAGS

Archive
Recently Deleted

Search in Demo!

New Item

Overall Password Strength

This view only shows security issues for the selected collection, which may not include all your vaults.

3

Vulnerable Passwords

These passwords were found in a database of breached passwords from haveibeenpwned.com. Change them to keep your accounts safe.

Show Items

3

Weak Passwords

Weak passwords are easier to guess. Generate strong passwords to keep your accounts safe.

Show Items

1

Unsecured Websites

Websites that use HTTP URLs aren't secure. Try changing the URL to use HTTPS to secure your connection to the site.

Show Items

2

Inactive two-factor authentication

Sites that have two-factor authentication available but you haven't set it up yet.

Show Items

1

Expiring

These items have expired or are expiring soon.

Show Items

Search in Demo!

+ New Item

Demo!

All Items

Favorites

Watchtower

CATEGORIES

GRANNETEAM +

TAGS

Archive

Recently Deleted

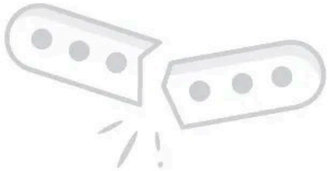
Vulnerable Passwords

FinnyPhone
5/30/2017, 6:25:19 PM

Solar Winds
admin@solarwinds.com

Mom's Secure Keybox
3/10/2021, 11:07:38 AM

3 Items



Vulnerable Passwords

This is where you'll see any vulnerable passwords that have been exposed in a data breach found in the haveibeenpwned.com database.
If a leaked password is used for multiple accounts, just one compromised account puts the others at risk.
Learn more

For a vulnerable password, use the password generator to create a new, stronger password.

Demo!

All Items
Favorites
Watchtower

CATEGORIES

GRANNETEAM

TAGS

Archive
Recently Deleted

Search in Demo!

New Item

Weak Passwords

TERRIBLE

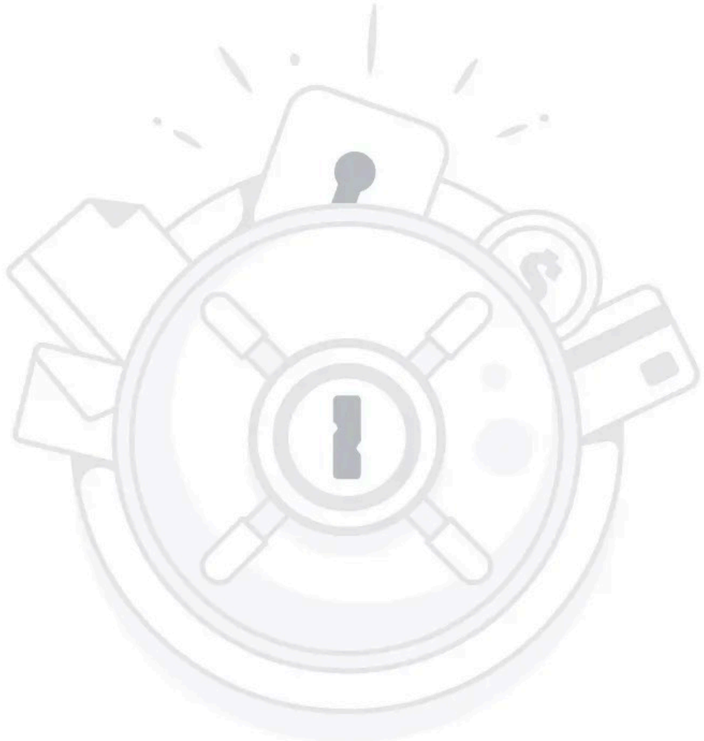
Solar Winds
admin@solarwinds.com

Mom's Secure Keybox
3/10/2021, 11:07:38 AM

WEAK

FinnyPhone
5/30/2017, 6:25:19 PM

3 Items

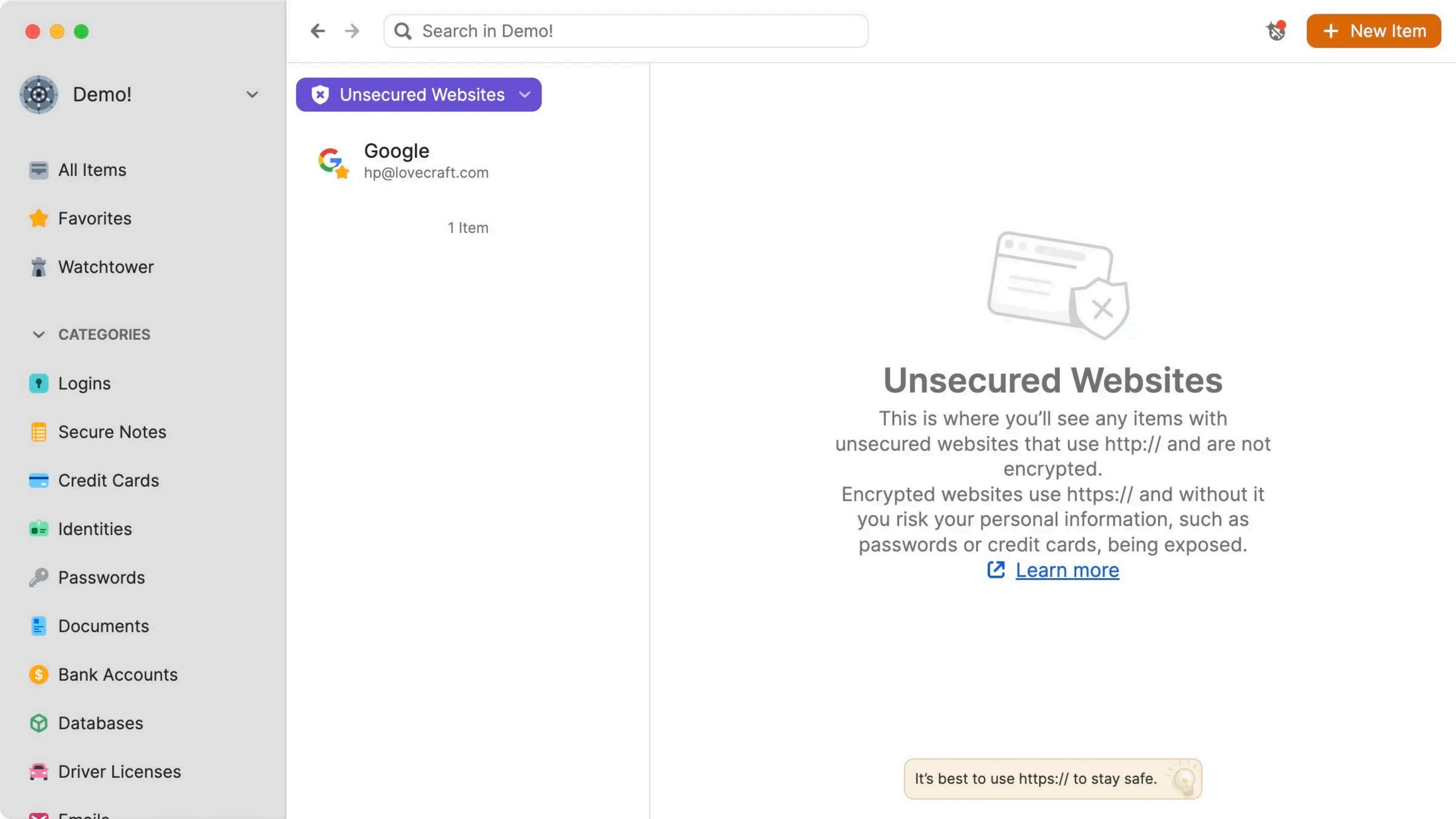


Weak Passwords

This is where you'll see any weak passwords that are in danger of being hacked. Weak passwords can be easy to guess, too short, or have personal information (like a birthday or name of a family member).

Learn more

For a weak password, use the password generator to create a new, unique password to keep your accounts safe.


Search in Demo!
New Item
Demo!
All Items
Favorites
Watchtower
CATEGORIES
Logins
Secure Notes
Credit Cards
Identities
Passwords
Documents
Bank Accounts
Databases
Driver Licenses
Unsecured Websites
Google
hp@lovecraft.com
1 Item
Unsecured Websites
This is where you'll see any items with unsecured websites that use http:// and are not encrypted.
Encrypted websites use https:// and without it you risk your personal information, such as passwords or credit cards, being exposed.
Learn more
It's best to use https:// to stay safe.

Search in Demo!

+ New Item

Demo!

All Items

Favorites

Watchtower

CATEGORIES

Logins

Secure Notes

Credit Cards

Identities

Passwords

Documents

Bank Accounts

Databases

Driver Licenses

Emails

Unsecured Websites

Google
hp@lovecraft.com

1 Item

GranneTeam | Demo

Edit

Unsecured Website

This item can be filled on an http:// page, which is not secure. Use https:// if the website supports it.

Use HTTPS | Ignore

Google

username
hp@lovecraft.com

password
J28kWgse4BAwDcDbD4XPCrXyWPeLXkwmUhU
Fantastic

website
http://google.com

Pro-Tip: Leave off `http://` & `https://` & just use the domain, e.g., `google.com` or `docs.google.com`

Search in Demo!

+ New Item

Demo!

All Items
Favorites
Watchtower

CATEGORIES

GRANNETEAM +

TAGS

Archive
Recently Deleted

All Categories

A

Amazon
hp@lovecraft.com

B

Bank Check - Void.jpg
89 KB

Bazquz
scott@granneman.com

Big Heartless Bank
tom@okie.com

C

c5_bigcorp
dbms.websanity.com

Coca-Cola Recipe
Base

Commerce
Commerce Bank

Coventry Health Care [Me...

GranneTeam | Demo

Edit

Two-Factor authentication available

You can save your two-factor authentication codes for this account in 1Password. Learn how to turn on two-factor authentication.

Scan QR Code | Ignore

Amazon

username
hp@lovecraft.com

password
rgrtvcsq4PhWWEzCEgq2EpMipj44gq3TqjWisqmBXie
Fantastic

website
amazon.com

modified: 6/29/2022, 1:25:24 PM
created: 3/10/2021, 11:11:55 AM

Demo!

All Items
Favorites
Watchtower

CATEGORIES

GRANNETEAM

TAGS

Archive
Recently Deleted

Search in Demo!

New Item

All Categories

Microcenter
finn@gabefinn.com

Milton [Web]
root

Mom
BettySue

Mom's Secure Keybox
3/10/2021, 11:07:38 AM

My id_rsa secret key
-----BEGIN RSA PRIVATE KEY-----

P

Passport: Scott
444624621

S

scott.granneman@foobar....
scott.granneman@foobar.com

Solar Winds
admin@solarwinds.com

SSN: Betty Sue Simonson

GranneTeam | Demo

Edit

Expired

This Passport expired on Oct 19, 2018. If you've renewed it, enter your updated information.

Ignore

Passport: Scott

type
P

issuing country
United States of America

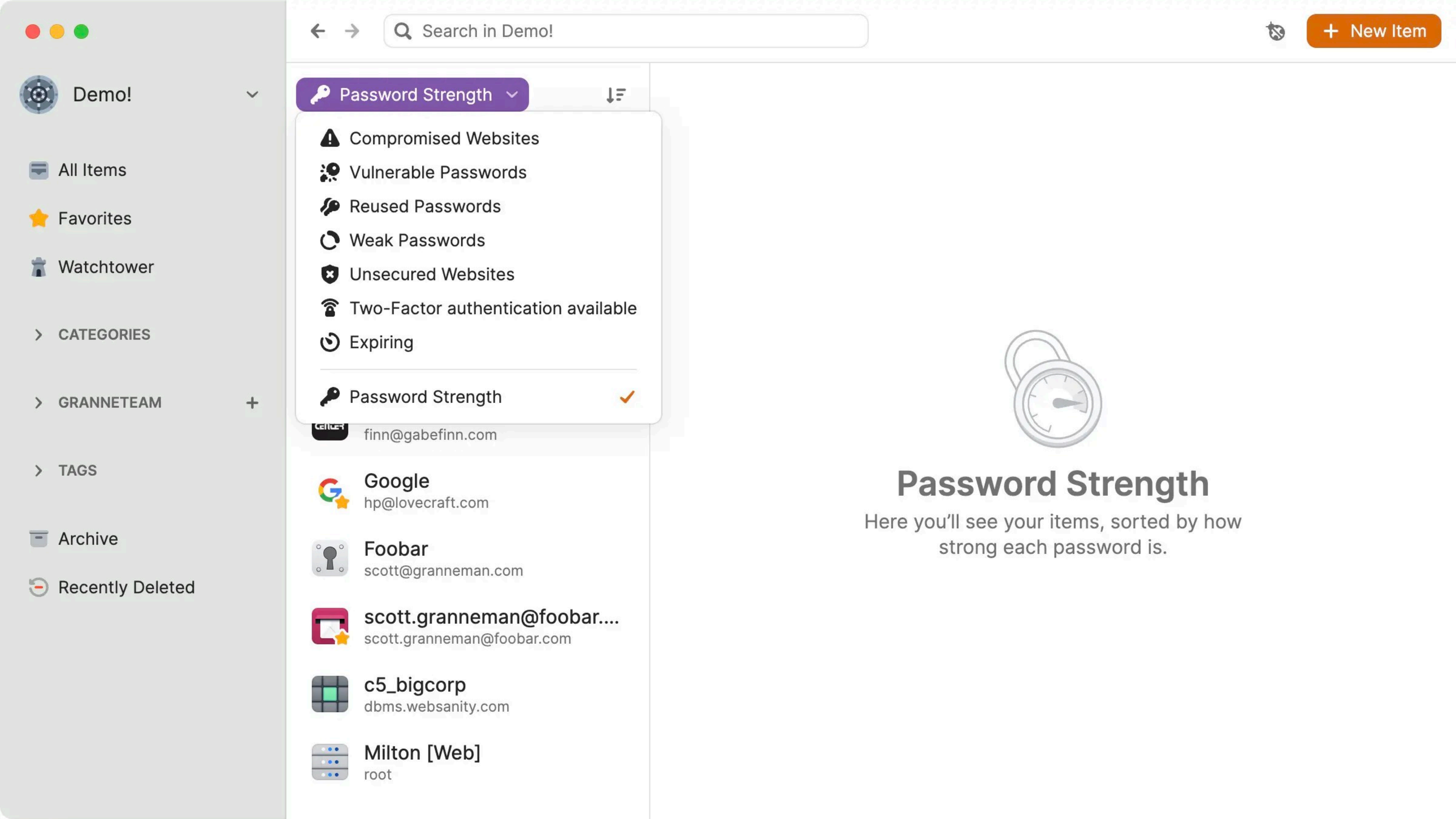
number
444624621

full name
Ralph Scott Granneman

gender
male

nationality
United States of America

issuing authority
United States Department of State


Search in Demo!
New Item
Demo!
All Items
Favorites
Watchtower
CATEGORIES
GRANNETEAM
TAGS
Archive
Recently Deleted
Password Strength
Compromised Websites
Vulnerable Passwords
Reused Passwords
Weak Passwords
Unsecured Websites
Two-Factor authentication available
Expiring
Password Strength
finn@gabefinn.com
Google
hp@lovecraft.com
Foobar
scott@granneman.com
scott.granneman@foobar....
scott.granneman@foobar.com
c5_bigcorp
dbms.websanity.com
Milton [Web]
root
Password Strength
Here you'll see your items, sorted by how strong each password is.

Demo?

Don’t forget to change the default administrator password on your router!

Default passwords are well known

D-Link DI-704: - & admin

Intel Wireless 2011: - & Intel

Netgear RT311: admin & 1234

SonicWall: admin & password

TP-LINK: admin & admin

Find your Router Password

Select your Router Manufacturer

2Wire

Find Password

Router Passwords is officially the most updated default router password repository on the internet. To find the default password of your router select the manufacturer from the drop-down and click the Find Password Button.

TOP STORIES OF THE DAY

RouterPasswords.com

Welcome to the internets largets and most updated default router passwords database,

Select Router Manufacturer:

LINKSYS

Find Password

Manufacturer	Model	Protocol	Username	Password
LINKSYS	WAP11	MULTI	n/a	(none)
LINKSYS	DSL	TELNET	n/a	admin
LINKSYS	ETHERFAST CABLE/DSL ROUTER	MULTI	Administrator	admin
LINKSYS	LINKSYS ROUTER DSL/CABLE	HTTP	(none)	admin
LINKSYS	BEFW11S4 *Rev. 1*	HTTP	admin	(none)
LINKSYS	BEFSR41 *Rev. 2*	HTTP	(none)	admin
LINKSYS	WRT54G	HTTP	admin	admin
LINKSYS	WAG54G	HTTP	admin	admin
LINKSYS	LINKSYS DSL		n/a	admin

Conclusions

Educate yourself
(& others!)

You can be secure!*

* If you use your head, act carefully, & understand that security is a continuous process that never ends

Thank you!

scott@granneman.com
www.granneman.com
@scottgranneman

Security Vulnerabilities & Solutions

Heads Up!

R. Scott Granneman

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Changelog

2025-01-20 1.7: Updated screenshots & details for 1Password

2024-04-08 1.6: Updated theme to Granneman 1.13; minor fixes & corrections; got rid of Passfault slides & replaced with WhatIsMyIP.com’s Password Strength Test; completely reorganized & improved advice for creating a good password; reorganized 1Password section a bit; added songs where lyrics where mentioned

Changelog

2022-11-16 1.5: Updated theme to Granneman 1.7; fixed minor errors; updated many images & screenshots; added many citations (but many remain to do); improved content in many places; completely re-did 1Password; replaced KeePassX with KeePassXC; updated a few logos

2021-03-10 1.4: Added further considerations under *3-2-1 Rule of Backups*; added details re: 1Password pricing;

Changelog

2019-04-15 1.3: Updated theme to Granneman 1.5; fixed minor formatting errors; updated *Online* to remove CrashPlan, mention other services, & add Backblaze & Arq; updated *Local* to add Windows 10, remove CrashPlan, & add Arq; updated *Botnets*; changed title to add *& Solutions*; added *3-2-1 Rule of Backups* section

2017-03-14 1.2: Added details to *CIA+*; new slide on Dropbox pricing

2015-03-25 1.1: Moved content to new format

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