Privacy in a Pandemic

Cypurr Collective

August 2020
Exp. Date 10/20

Who are we?

———

We are…

The Cypurr Collective: A group of folks that organize cybersecurity events, looking to spread knowledge and talk about privacy rights!

Established April 2016

3-4 cryptoparty, discussion, and social events every month in NYC!

Just some folks interested in making safer spaces for others to talk bout their privacy needs

A few rules for this workshop ...

———

Share the space- Step Up Step Back: Ask a question, give a comment, leave room for others to speak

Stack!- Raise your hand and we will put you on the speaking queue

Saf(er) Space- We DO NOT tolerate language or behavior purposefully meant to demean or harm folks based on their identities

No one should be forced to discuss their own experience/threat model/situation

Photo/Video- No photo/video without asking!

Bonus Rule: Try not to invalidate experiences!

Overview

———

- Intro
- Video Conferencing
- Browser Security
- Cybersecurity Outdoors
- Outro

Zoom & the Rise of Remote Work

What are your needs?

— — —

The ideal is that all chat information is end-to-end encrypted:

Unfortunately, no one offered this easily and for at the start of the pandemic.

Zoom added encryption for users on the free tier after major outcry.

How companies can use data from your video chats

Zoom has received its fair share of rightful criticism over its leaky security measures, but a recent Consumer Reports article points out that the teleconferencing apps from Google (Meet, Duo and Hangout), Microsoft (Teams and Skype) and Cisco (WebEx) aren't any better. According to each company's privacy policies, they all can:

- Log the IP address and/or usernames for all participants in a call and how long the call lasted who's on it; and everyone's IP, or internet, address.
- Build consumer profiles based on personal account information that may be sold to advertisers and other businesses.
- Access to audio files if users request transcriptions.
- Use recorded audio of users who opt-in to help improve voice-recognition and, in some cases, do the same with stored video footage.

I basically have to use Zoom because everyone does

___

That's ok! There's stuff you can do.

As the host:

- Enable end-to-end encryption
- Make sure chat auto-saving is off
- Make sure "attention tracking" is off
- Keep the meeting ID private (only send it out right before the meeting starts)
- Set a meeting password
- Have a "waiting room"
- Send the meeting link with the ?pwd at the end and everything after cut off
- Lock down screen sharing
- Lock the meeting to prevent anyone from joining once your participants are in

As a guest:

- Use a virtual background (or make sure a plain wall is behind you)
- Don't put your real full name in the meeting
- Use "burner" accounts and emails with very little/no personal information to join calls
- Join as a "guest" whenever you can
- Don't click on links in public Zoom chats
- Mute/turn off your mic and camera whenever you can, and block built-in cameras with tape or stickers.

https://lifehacker.com/how-to-make-your-video-chats-more-secure-1843242780
https://www.eff.org/deeplinks/2020/04/harden-your-zoom-settings-protect-your-privacy-and-avoid-trolls

Alternatives!

— — —

...that require technical
resources:

Jitsi

-   meet.jit.si

Big Blue Button

-   bigbluebutton.org

Back in early April, when we decided to test
out Big Blue Button, an alternative to Zoom.

Browsers

can't live with em
can't surf the net without em

March 2020

— — —

This scam "involves pointing people to an online map that purports to track COVID-19 cases, but actually steals usernames, passwords and credit card numbers stored in a user's browser." [1]

The malware has a GUI that looks very good and convincing. When running the malware, the GUI window loads information, which pools from the web. [2]

1 https://www.modernhealthcare.com/cybersecurity/hackers-taking-advantage-covid-19-spread-malware
2 https://blog.reasonsecurity.com/2020/03/09/covid-19-info-stealer-the-map-of-threats-threat-analysis-report/

Clearing your history

— — —

The past is immutable

The future is unknowable

But in the present we have the power to make a choice

To forget our past for a while...

Clear browsing data

Basic	Advanced

Time range   All time ▼

☑ Browsing history
65 items

☑ Download history
None

☑ Cookies and other site data
From 12 sites

☑ Cached images and files
77.3 MB

☐ Passwords and other sign-in data
None

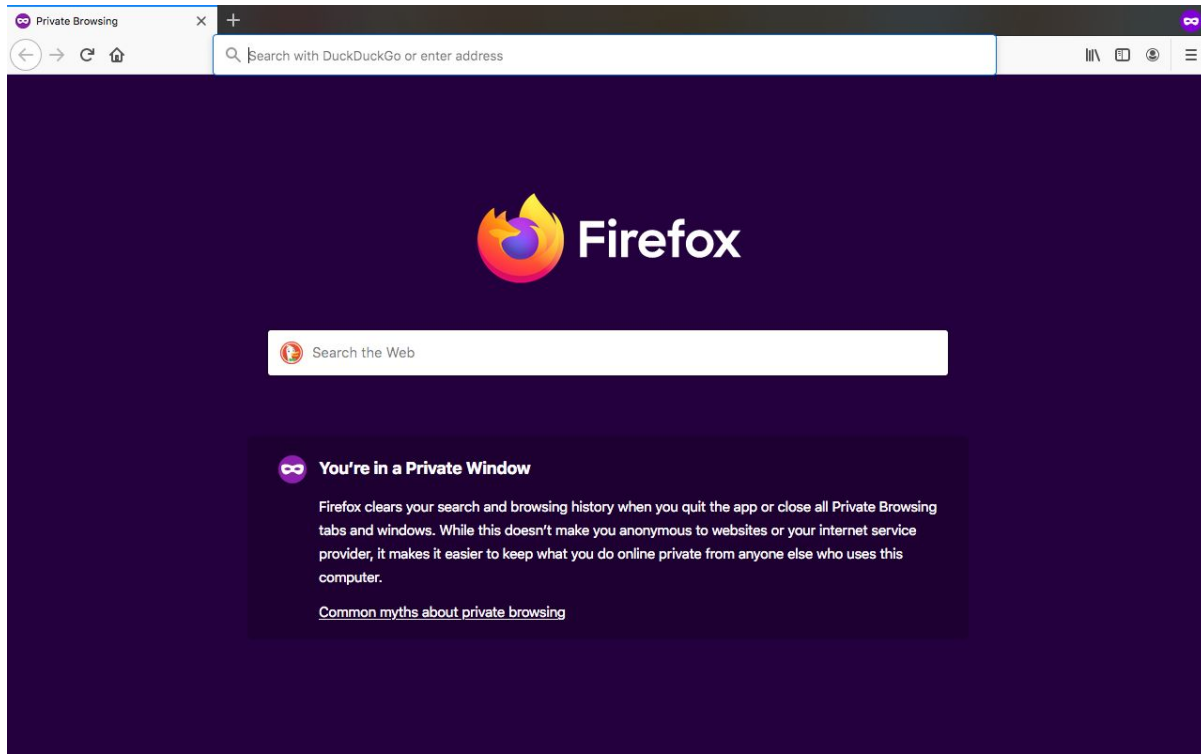☑ Autofill form data
None

Cancel   Clear data

Incognito
— — —

It's the mode all your
friends are talking about!

Never need to clear your
browser history!

No one with access to your
computer can know where
you've been... (unless they're a
forensic engineer)

* Your ISP will still know
what sites you've been to *

Fingerprinting
___

Am I Unique?

https://www.amiunique.org/

Spoiler alert… you're probably not!

Going Outside, Cybersecurity, & You

Ahhhhh!!!

the suuuuun!

it burrnsss...

Contact Tracing

Charlotte Observer

Charlotte, NC contact tracing: Where does COVID-19 come from?

in Charlotte and North Carolina, little is known about where most people are getting COVID-19. Coronavirus contact tracing programs aren't ...

23 hours ago

The New York Times

Coronavirus Contact Tracing Chaos After Our Backyard Dinner

When my husband's cousin tested positive, all of the months of pandemic headlines converged.

1 day ago

KOMO News

Not feeling sick, man tests positive for COVID-19 only after contact tracing

The idea of contact tracing, even with the intention of saving lives, does not sit well with everyone. Many worry about "Big Brother" growing ...
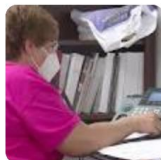
1 day ago

NPR

Virginia Unveils App To Aid Contact Tracing : Coronavirus Live Updates

Virginia is rolling out a new app designed to aid in contact tracing during the coronavirus pandemic. Virginia Gov. Ralph Northam said ...

17 hours ago

KSLA

State health leaders say contact tracing is not working for Louisiana

Dr. Alexander Billioux, assistant secretary for the Louisiana Office of Public Health, said the state has enough contact tracers, but now it's facing ...

13 hours ago

The Journal News / Lohud.com

Reopening schools: Districts seek more clarity on how to handle COVID contact tracing, closures

Gov. Andrew Cuomo is set to make a decision on reopening schools this week, and districts are busy fine-tuning every possible method to keep ...

5 hours ago

Contact Tracing: Do your part to keep your family, friends, and community safe.

WHAT YOU CAN EXPECT TO HAPPEN DURING CONTACT TRACING IF YOU HAVE BEEN DIAGNOSED WITH COVID-19.

1 **If you have been diagnosed with COVID-19,** a public health worker will call you to check on your health.

They will ask you who you've been in contact with and where you spent time while you were sick and may have spread COVID-19 to others.

Any information you share with public health workers is **CONFIDENTIAL.**

This means that your personal and medical information will be kept private.

2 You will also be asked to **stay at home and self-isolate,** if you are not doing so already.

Self-isolation means **staying at home in a specific room away from other people and pets, and using a separate bathroom, if possible.**

Self-isolation helps slow the spread of COVID-19 and can keep your family, friends, and community safe.

3 Continue to monitor your health. **If your symptoms worsen or become severe, you should seek medical care.** Severe symptoms include trouble breathing, persistent pain or pressure in the chest, confusion, inability to wake or stay awake, or bluish lips or face.

If you need support or assistance while self-isolating, the health department or a local community organization **may be able to provide assistance.**

cdc.gov/COVID19

CONTACT TRACING: WHAT TO EXPECT IF YOU MAY HAVE BEEN EXPOSED TO SOMEONE WITH COVID-19

1 **If you have been in close contact with someone who has COVID-19,** a public health worker will call you to inform you that you may have been exposed to COVID-19.

Any information you share with public health workers is **CONFIDENTIAL.** This means that your personal and medical information will be kept private.

2 **You should stay at home and self-quarantine for 14 days,** starting from the last day you were possibly exposed to COVID-19.

Self-quarantine means **staying home, monitoring your health, and maintaining social distancing** (at least 6 feet) from others at all times.

3 The **public health worker can provide information** about COVID-19 testing in your area.

If you need support or assistance with self-quarantine, your health department or community organizations may be able to provide assistance.

4 **You should take your temperature twice a day,** watch for fever and other symptoms of COVID-19, and notify your health department if you develop symptoms.

5 **If you become ill during the 14 days of self-quarantine,** you should notify the health department and seek medical care if your symptoms worsen or become severe. Emergency warning signs include **trouble breathing, persistent pain or pressure in the chest, confusion, inability to wake or stay awake, or bluish lips or face.**

We can all work together to help slow the spread of COVID-19.

Do your part to keep your family and your community safe: **Answer the call to slow the spread.**

CS317837-A

Critical Questions for Users

———

Ceiling Cat approves of this.

- **Consent-** Can I opt in/out?
- **Amount**- How much info do they *need* to collect?
- **Access**- Who has access to my info?
- **Transparency-** How secure is the app? (open source?)
- **Use/Storage-** How is my info being handled? How is it being used?
- **Expiration-** When will they lose my info?

Cypurr's Smart Phone Fast 4 Tips!
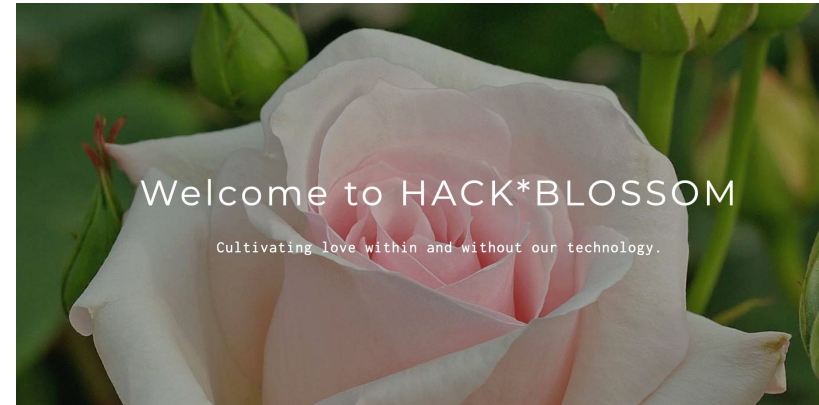
———

1. **Signal**
2. **Phone Lock-** letter/number, 6 or more characters
3. **Be aware of apps/uses**
4. **Be aware of phone services**
   a. Wifi
   b. Bluetooth
   c. Location
   - **BONUS**: Faraday Cases

Surveillance

- **EFF Street Level Surveillance**
  - Body Cameras
    - IMSI Capture
    - Recognition Tech
- **EFF Atlas of Surveillance**
    - "...database of the surveillance technologies deployed by law enforcement in communities across the United States. This includes drones, body-worn camera, automated license plate readers, facial recognition, and more."
- **Popular Mechanics-** *How to Spot Police Surveillance Tools, June 2020*
- **Cypur-** *Fighting Back Against Stalkers Online-* @ HOPE 2020

Welcome to HACK*BLOSSOM

Cultivating love within and without our technology.

Outro Q&A

Further Resources

———

Crash Override-
http://www.crashoverridenetwork.com/

Heartmob- https://iheartmob.org/

Data Detox- https://www.datadetoxkit.org/

EFF SSD- https://ssd.eff.org/

Cypurr Collective- cypurr.nyc

Without My Consent-
https://withoutmyconsent.org/

Hackblossom- https://hackblossom.org/