Zoom Conferencing- Easy, Convenient, and a Security Nightmare

Social distancing, perhaps a novelty for week one or two, initially meant people taking time to figure out the landscape, read a lot of news stories, complete a house project, and purchase toilet paper. But, social distancing a few weeks in equates to work and school from home. Many employers and parents are relying on Zoom for in-person telecommuting and educational opportunities. Additionally, people are socializing more and more over zoom for everything from virtual birthday parties to trivia games and karaoke. It is straightforward, easy to download, with tools that allow administrators to mute participants, separate into private chats, submit written questions, and get together with people in real-time, anywhere in the world.

Zoom went from 10 million users in December 2019 to [200 million](#) in March 2020. Over 90,000 schools from 20 countries have been using the application. This surge in popularity has exposed the breadth of security and privacy risks inherent in the platform. The FBI issued a warning about Zoom meetings being hijacked, with breaches of webcams or ["Zoom bombing."](#) In one instance, a [graduate student](#) was defending his doctoral dissertation when someone began drawing male genitalia on the screen and a racial slur. Zoombombers have hijacked meetings across the country, including [AA meetings](#), Sunday school services, schools, and city council meetings, harassing and intimidating participants.

Don't	Do
Make meetings or classrooms public	Require a meeting password or use the waiting room feature and control the admittance of guests
Do not share a link to the meeting on a public, social media post.	Provide the link directly to specific people
Do not turn over control of the screen	Use the "host-only" screensharing option and transfer control to specific people as needed

Despite recent updates to the software in response to these breaches, Elon Musk banned employees of his rocket company, SpaceX from using the Zoom app due to its "significant privacy and security concerns."

What was originally deemed a few pranks has risen to an orchestrated attack on the platform. The New York Times found thousands of people, using at least 153 Instagram accounts, dozens of Twitter accounts and private chats, and message boards on Reddit and 4Chan are organizing their efforts to breach Zoom.

Motherboard website found Zoom is sharing data with Facebook, even data on people who are not Facebook users. Zoom says that was a mistake but they are facing a class-action lawsuit as a result.

A security researcher, Patrick Wardle, who previously worked at the NSA said, a local attacker can inject malicious code to achieve root privileges, giving so much control that they can assess the underlying MacOS and run malware or spyware without your knowledge. Additionally, while a use needs to give consent for zoom to use the webcam or mic, an attacker could add malicious code to force access. "Zoom's security and privacy track record is rather poor-and these bugs are trivial to exploit," says Wardle. "Really, they are low hanging fruit, meaning that security and secure design was not a consideration when creating this product."

The FBI is threatening jail time for these breaches. Charges can include the disruption of a public meeting, computer intrusion, using a computer to commit a crime, hate crimes, fraud, or transmitting threatening communications.

Zoom CEO, Eric Yuan, said he is working hard to correct these flaws and restore his company's reputation. "I really messed up."

FBI Issues Warning
"You think Zoom bombing is funny?

Let's see how funny it is after you get arrested," stated Matthew Schneider, United States Attorney for Eastern Michigan.

"If you interfere with a teleconference or public meeting..., you could have federal, state, or local law enforcement knocking at your door."

Predictive Models for Coronavirus= Tracking Our Temperature and Social Distancing via Our Cellphones

Crisis: We are in the middle of a worldwide pandemic and people are stepping up, at every level of government, from every country, researchers to healthcare providers, to treat sick people, provide financial relief, shelter homeless, prevent/reduce outbreaks, share supplies including ventilators, work toward a vaccine, and address issues as they arise in extraordinarily stressful conditions with no definitive roadmap for how to proceed.

Unique Data: Managing the spread of this virus has been particularly challenge in that infected persons have no symptoms yet are highly contagious and some individuals never exhibit serious symptoms while others become extremely ill. Forty three states have issued orders for residents to stay home, and only leave their homes to get essential items like groceries, wear a mask or scarf over their faces, and restrict interactions with others to prevent the spread of the virus to prevent hospitals from becoming too overwhelmed to serve patients.

One of the most instructive tools has been the cumulative data presented from Kinsa Health. Kinsa created internet-connect thermometers and has tracked temperatures of individuals both pre and post stay at home orders. They are providing their data for free to researchers.

According to Kinsa, the [map](#) shows you how much influenza-like illness above the normal expected levels they have detected since March 1. The time series chart allows you to compare Kinsa's observations of the influenza-like illness level in the U.S., in orange and red, against where we'd expect them to be, in blue, and see how that relationship has changed over the past few weeks

Kinsa has more than over one million thermometers in circulation and has been getting up to [162,000 daily temperature](#)


Look up influenza-like illness near you:

Search zip code or county name

Cumulative Atypical Illness ⦿

N/A   None   Low   Mild   Moderate   High

Atypical ▼
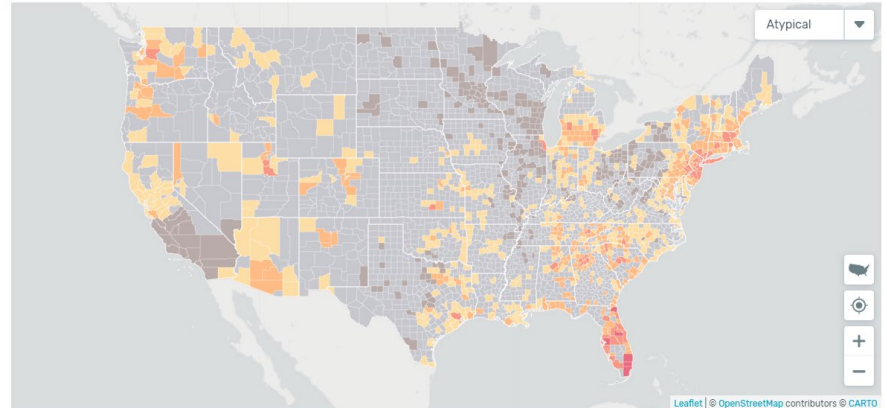
Last updated: **April 7, 2020**

readings since Covid-19 began spreading in the United States. Kinsa initially used the data to track the spread

Rick Rojas and Lauren Leatherby   April 2, 2020

Outlined areas had known stay-at-home orders before March 27

Where people were still traveling
Percent change in average travel for the week of March 23, compared with travel before the coronavirus outbreak.

No travel   Half of normal   Normal travel   Closer to normal travel →

of the flu. Their [predictions](#) have routinely been two to three weeks ahead of those of the CDC. However, to identify clusters of coronavirus infections, Kinsa adapted its software to detect spikes of "atypical fever" that do not correlate with historical flu patterns in an attempt to track the coronavirus.
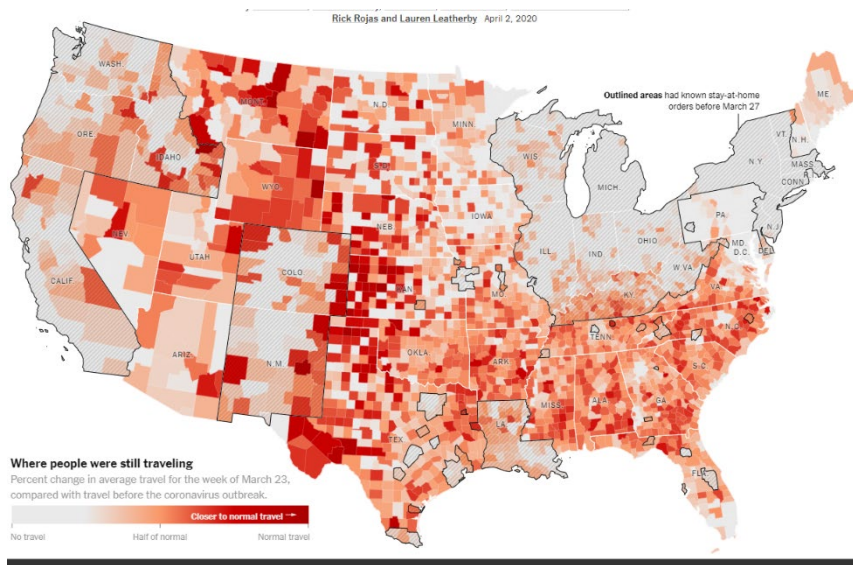
Researchers are able to look at how well a city or community is sheltering in place based on [cellphone data](#) for 15 million people, tracking locations and capturing the number of people are congregating in a given location.

Problem: How do hospitals with limited supplies and governments with thin resources address the desire of large groups of people to defy the stay at home orders? Do we limit who gets resources? How does that impact other communities/states who need those supplies?

Privacy: It is an emergency, so anything goes, right? Does tracking your movement via cellphone bother you? Or. tracking your temperature? Obviously, users signed off to capture of that data when they purchased thermometers. And, I don't think any of us are naïve enough to think that data is not available—but to what degree and for what purpose? **Where** you go? **What** you say via text or cellphone call regarding your intentions to comply or not comply with shelter in place orders or anything else? How much tracking is okay? Helpful? Permissive? **Invasive**? Maybe it is okay if they track people "generally" but not people "**personally**"?

Privacy? Maybe we gave up that privacy between [Facebook](#) and [Alexa](#).

Examples of how biometric technology is evolving during the COVID crisis:

In China, tablets affixed to the back of bus drivers' seats record passengers' body temperatures and take snapshots of their faces. The photos are used later for contact tracing if a passenger tests positive for coronavirus.

In the US, Athena Security offers "Fever Detection COVID19 Screening System." It deploys "artificially intelligent thermal cameras" to detect fevers and alert customers to the presence of someone who may be carrying the coronavirus. Athena is pitching its product to be used in grocery stores, hospitals and voting locations and is currently deploying it at government agencies, airports and companies.

Dermalog, a German biometrics company that makes fingerprint, iris and facial recognition technology, has now added a feature to determine temperature and is pitching it as a new security feature to companies. The Thai government is already using Dermalog's technology as part of its border control system.

Telpo is launching temperature-sensing systems as part of its facial recognition technology, which works even if individuals are wearing masks.

Chinese company Wisesoft says it has developed a 3D facial recognition in conjunction with Sichuan University that can identify people wearing masks with 98% accuracy and collect their body temperatures. One hospital in Chengdu has already deployed 140 units of the company's product.

Another Chinese company, Hanvon, has developed technology that can detect faces through masks and also collects body temperatures.

OPCDE- Cybersecurity Virtual Summit on The Future of Cybersecurity https://youtu.be/P8H65CnTxUA
Keynote- Ryan Naraine, Intel
Discussions- Disinformation about Disinformation- the Grugq, Sara-Jayne Terp, Brian Pendleton, Matt Suiche
Catching APTs@home- Home to Tap Your Home Internet- Costin Raiu
The "S" in Zoom, Stands for Security- Patrick Wardle, @Jamf

It's April- Wash Your Hands!: When they said to wash your hands to a song, they probably did not mean a song like April, by Deep Purple at 12 minutes long. Classic song, though. Enjoy. Still falls the April rain here in otherwise sunny Southern California.

Upcoming 2020 Security Events

Virtual Portland Cybersecurity Summit- April 16

Keynote- Theresa Masse, DHS- CISA. Panelists include Steve White, VMWare; Hadas Cassorla, Scale Security Group; Neil Simon, B&S Europe, Jon Washburn, Stoel Rives; Michel Romanino, Cabia Health Solutions, Richard Appleyard, Oregon Secretary of State

Sessions- Critical Start; Michael Mayes, Armor; RSA; Reblaze

[Virtual Des Moines Cybersecurity Summit](#)- April 21

Keynote- JD Henry, US Department of Homeland Security- CISA. Panelists include Jeff Franklin, Chief Cybersecurity Officer, State of Iowa; Leigh White, Myriad Advisor Solutions; Matt Ireland, NTT; Ryan Mulhall, Iowa Communications Network

Sessions- Zerto; Check Point; Mimecast; IP Pathways

[Virtual Chicago Cybersecurity Summit](#)- April 30

Panelists include Dr. Michael Chahino, Elgin Community College, Ryan Pikas, RJW Logistics Group, Jim Serr, Joliet Junior College; Kenneth Townsend, R1 RCM, Adeola Adeoti, Teasy Mobile International

Sessions- baramundi and Michael Landewe, Avanan

The G2M Research 2020 Webinar Schedule is here!

If you missed our March 31 webinar "Advanced NVMe™ SSDs –Addressing the Blast Radius Problem" with sponsors are [LightBits](#), [Kioxia](#) and [Intel](#), you can see it [here](#). Interested in Sponsoring a webinar? Contact **us** for a prospectus. Interested in attending our webinars? Register by clicking below on the dates of interest.

- **[April 28](#)**: Will Storage Systems and Storage Networks Keep Pace with NVMe-oF™?
- **[May 19](#)**: Utilizing HPC-Scale Storage and AI for Business Intelligence
- **[June 23](#): Storage Security: Using AI to Stop the Bad Guys' AI**
- **[July 21](#)**: AV, Self-Driving Cars, and Advanced Storage
- **[August 18](#)**: Creating Multi-Cloud and Hybrid Cloud Storage Solutions
- **[September 15](#)**: Edge Computing/Storage – Get (and Keep) Your Data Off Of My Cloud
- **[October 20](#)**: AI and Storage Use Cases in Healthcare
- **[November 17](#)**: NVMe-oF™ - Using Telemetry to Improve Network Latency

Effective Marketing & Communications
with Quantifiable Results

Endpoint Security Newsfeed

[At 8.79% CAGR, Endpoint Security Market Size Set to Register 21.18 Billion USD by 2025](#)
The MarketWatch News Department was not involved in the creation of the content. Apr 01, 2020 (AB Digital via COMTEX) -- Endpoint Security Market: Global Size, Trends, Competitive, Historical & ...

[MarketWatch](#)7d

[Okta Strengthens Connection between Identity and Devices Through Strategic Endpoint Protection and Management Partnerships with VMware Carbon Black, CrowdStrike, and Tanium](#)

SAN FRANCISCO--(BUSINESS WIRE)--Okta, Inc. (NASDAQ:OKTA), the leading independent provider of identity for the enterprise, today at Oktane20 Live announced new strategic partnerships with leading ...

[Business Wire](#)8d

[Guide: Making the financial case for outsourcing endpoint protection](#)

Outsourcing your endpoint protection can deliver positive returns by improving operational efficiency and minimizing risk, ...

[Help Net Security](#)7d

[CRITICALSTART, SentinelOne Team Up to Offer Free Remote Work Security Solutions](#)

"I challenged our executive team to deliver our security orchestration platform and endpoint protection to organizations ...

[PR Newswire](#)2d

[A Frictionless Approach to Endpoint Protection](#)

SecureITsource partnered with the institution to implement CyberArk's Endpoint Privilege Manager solution to take control of ...

[Computerworld](#)6d

[Increase in Remote Working and Coronavirus Related Threats Creating Perfect Storm of Security Challenges for Organizations, New Survey Finds](#)

and 55% felt that remote access security needed improving. 49% are concerned about the need to scale-up endpoint security. "Cybercriminals will always seek to capitalize on the latest trends to try ...

[YAHOO!](#)1d

[BullGuard Makes Its Small Office Security Platform Freely Available to Support Small Businesses](#)

The BullGuard Small Office Security platform supports up to 50 Windows, Mac and Android devices and provides robust endpoint cybersecurity protection for desktops, laptops, tablets and smartphones, ...

[PR Newswire](#)2d

[Cyber Security Market Growth, Ongoing Trends, Technological Innovation, Opportunities and Forecast to 2025](#)

New York, April 02, 2020: The scope of the report includes a detailed study of global and regional markets for various ...

[MarketWatch](#)7d

[Industrial Control Systems Security Software Market Will Hit Big Revenues In Future | IBM, Cisco, Honeywell](#)

Advance Market Analytics released a new market study on Global Industrial Control Systems Security Software Market with 100+ ...

[Digital Journal](#)20h

[IGEL integrates Fujitsu palm vein recognition to boost endpoint security](#)

Edge OS provider IGEL Technology now offers support for Fujitsu's PalmSecure technology to improve the speed and security of ...

[Biometric Companies](#)23h

[Cyber Security in Healthcare Market to See New Growth Level : GE, IBM, CISCO](#)

It's vital you keep your market knowledge up to date segmented by Applications [Cloud Security, Content Security, Endpoint ...

[SBWire](#)5d

[Securing Democracy: Supporting Integrated and Effective Election Security](#)

Such a strategy integrates a next-generation firewall (NGFW) with identity management and access control, software-defined wide-area networking (SD-WAN) capabilities to support precinct and field ...

[California Techwire](#)2d

[Considerations for Addressing Additional Security Needs for Remote Workers](#)

Home networks rarely if ever provide the same degree of protection that a corporate network can provide. In addition to whatever endpoint device your remote teleworker is using, the network they are ...

[CSOonline](#)9d

[Global Adaptive Security Market (2020-2025) – Understanding The Key Product Segments | Solution, Services](#)

Mar 27, 2020 (Eon Market Research via COMTEX) -- Global Adaptive Security Market-Consumption Potential by Volume and Output Value Product Type (Solution, Services), By End User Application (Endpoint ...

[MarketWatch](#)13d

[Axonius raises $60 million to automate device security management](#)

Its cybersecurity capabilities are bolstered further by support for third-party apps and services — Axonius integrates with ...

[VentureBeat](#)9d

[The Global Security Analytics Market is expected...](#)

On the basis of Application, the Global Security Analytics Market is studied across Application Security Analytics, Endpoint Security Analytics, Network Security Analytics, and Web Security Analytics.

[Benzinga.com](#)7d

[Security threats, attacks on enterprises surge amid coronavirus outbreak: Survey](#)

55 per cent felt remote access security needed improving while 49 per cent expressed concern over the need to scale-up endpoint security. A whopping 95 per cent of respondents said they are facing ...

[Yahoo! News](#)1d

[Security by Sector: Kaspersky Makes Security Products Free for Healthcare Institutions Amid #COVID19 Pandemic](#)

Do some do a better job of keeping data secure, and if so, how and why? Security vendor Kaspersky has become one of the ...

[Infosecurity-magazine.com](#)8d

[Security Warning: Antivirus Firm Thirtyseven4 Alerts Coronavirus Scams Increasing](#)

Be skeptical of unsolicited phone calls. · Maintain regular software updates. · Don't download apps from unknown sources · Install strong antivirus/endpoint security protection. · Use Common Sense "If ...

[PR](#)8d

[Hunters.AI Now Available in CrowdStrike Store, Offering Users 'XDR' Capabilities and Extending Threat Detection Beyond the Endpoint](#)

LEXINGTON, Mass. and TEL AVIV, Israel, March 26, 2020 (GLOBE NEWSWIRE) -- Hunters, an Israeli cybersecurity pioneer in autonomous threat hunting, announced CrowdStrike, a leader in cloud-delivered ...

[Associated Press](#)13d

[HP brings advanced threat protection to SMBs and remote workers](#)

HP Pro Security Edition provides SMBs with advanced application isolation and deep learning endpoint protection on Windows 10 ...

[TechRadar on MSN.com](#)12d

[Global Endpoint Security Market 2017-2026| Symantec, McAfee, Trend Micro, AVG Technologies, Sophos](#)

The report involves insightful data on the main sectors of the Global Endpoint Security Market. The report has segmented ...

[galusaustralis.com](#)11d

[HP advances PC security with cutting edge innovations](#)

HP Pro Security Edition is the world's most advanced application isolation and deep learning endpoint protection on Windows ...

[Philippine Daily Inquirer](#)6d

[BullGuard offers Small Office Security for free to businesses disrupted by Coronavirus](#)

The BullGuard Small Office Security platform supports up to 50 Windows, Mac and Android devices and provides robust endpoint ...

[PCR](#)1d

[Okta launches passwordless technology to bring biometric security to enterprise access control](#)

A number of the platform's services then power FastPass through the Okta Verify mobile app. "This enables Okta Identity Cloud ...

[Biometric Companies](#)7d

[How Much Will Security, IT Management Software Sales Fall?](#)

For some context, remember that BlackBerry's core businesses include Unified Endpoint Management (UEM) and Unified Endpoint ...

[ChannelE2E](#)7d

[BitDefender IT security tool made free to hospitals worldwide](#)

Picture: Maura Hickey. BitDefender, an IT security tool, has made its enterprise-grade antivirus product available to workers ...

[The Sunday Business Post](#)4d

[Endpoint Security Market Insights By Size Growth, Industry Share, Leading Players and Regional Forecast by 2026](#)

As per a recent report, organizations have reported more than 15% of endpoint attacks as compared to the last year.

[MarketWatch](#)17d

[Endpoint Security Software Market Segmentation, Parameters and Prospects 2020 to 2026 Market Research Report](#)

Global Endpoint Security Software Industry New Industry Study On "2020-2026 Endpoint Security Software Market Global ...

[MarketWatch](#)17d

[Delta Risk Releases Research Report on 2020 Endpoint Security Trends and Challenges](#)

Most Organizations See Substantial Increase in Endpoint Security Risks in Past Year Security and IT professionals are battling new and increasingly sophisticated threats to mobile devices ...

[YAHOO!](#)27d

[WatchGuard Buys Panda Security for Endpoint Security Tech](#)

Wi-Fi security, and multifactor authentication, today confirmed plans to acquire endpoint security provider Panda Security for an undisclosed amount. The deal is expected to close in the second ...

[Dark Reading](#)1mon

[Seattle-based WatchGuard to acquire endpoint protection provider Panda Security](#)

Seattle-based Watchguard Technologies announced Monday that it will acquire Panda Security, a 30-year-old Madrid-based company that sells endpoint protection software. "In the short term ...

[GeekWire](#)1mon