

THE CHANGING FACE OF CYBERSECURITY & THE IMPACT ON PROJECT MANAGEMENT

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Intrust IT

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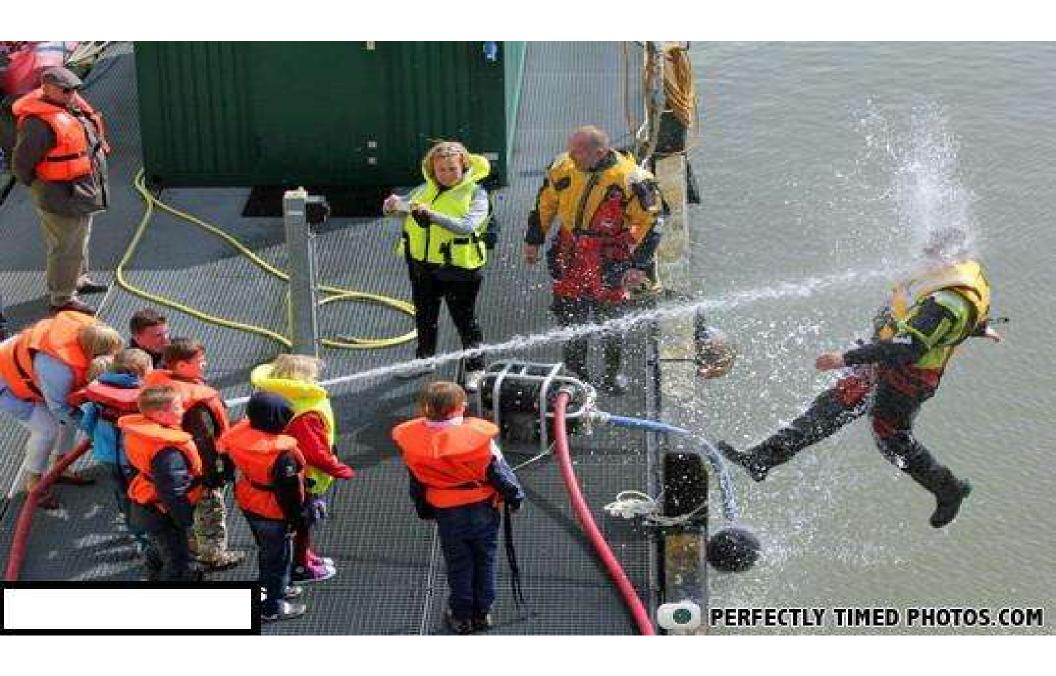
twitter.com/davehatter

www.youtube.com/user/davidlhatter



My goals for today

- Educate you
- Motivate you
- Provide actionable advice





Futurism

Q

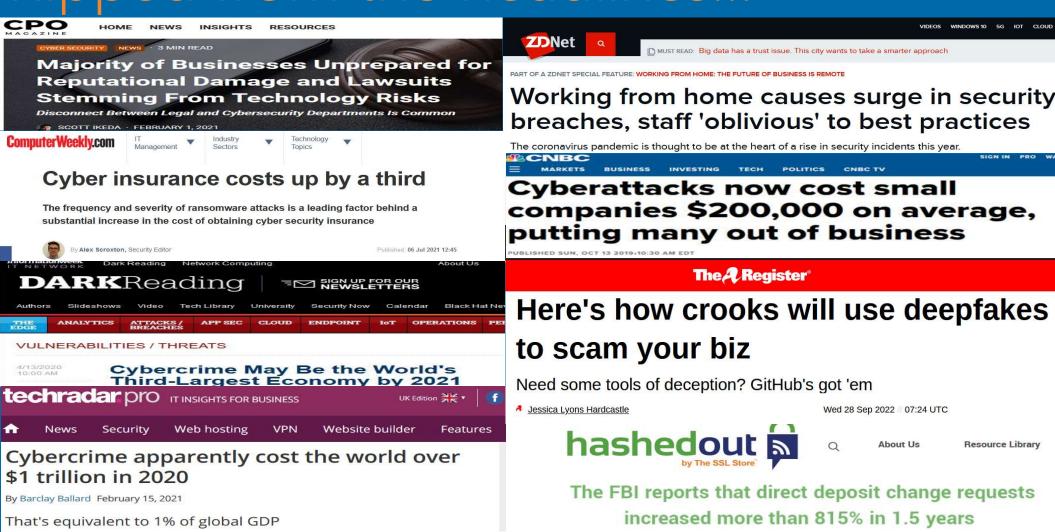
NTENT TO KILL 4:50 PM by VICTOR TANGERMANN

Homeland Security Warns of Cyberattacks Intended to Kill People

"The attacks are increasing in frequency and gravity, and cybersecurity must be a priority for all of us."



Ripped from the headlines...



Ripped from the headlines...



Only 31% of Americans concerned with data security, despite 400% rise in cyberattacks



Bad actors have flooded the enterprise with coronavirus-related attacks, but professionals working from home have other worries, Unisys Security found



Nevada school district refuses to submit to ransomware blackmail, hacker publishes student data



First death reported following a ransomware attack on a German hospital

THE WHITE HOUSE





Q

BRIEFING ROOM

FACT SHEET: Act Now to Protect Against Potential Cyberattacks

MARCH 21, 2022 • STATEMENTS AND RELEASES

Fish in a barrel...

"Small and midsized businesses are now the preferred targets for cybercriminals – not because they are lucrative prizes individually but because

prizes individually but because automation makes it easy to attack them by the thousands, and far too many of them are easy targets."

IRStaxsecurity

⊚IRStaxsecurity

Most cyberattacks are aimed at small businesses with fewer than 100 employees. Take a moment to learn about best security practices on #IRS Identity Theft Central: irs.gov/identitytheft #TaxSecurity

Cyberattacks are a serious threat to small businesses.
Take action to safeguard your systems and data.



irs.gov/identitytheft

1:02 PM - Jan 18, 2022 - Hootsuite Inc.

鄉IRS

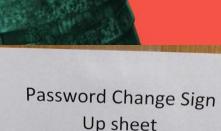
Sorry password must contain a special character

System: Enter password:

Me: ScoobyDoo

System: sorry password must contain a special character

Me: ScoobydooFeaturingBatman



If you'd like to change your password please fill out the form below and we will change your password on the system you indicate.

Kite multiple Committee Co	Full Name	System (Yardi, email, ect.)	Current password	Now
JACK H EWA: 1" PASSWORD PASSWORD BY PASSWORD PAS	Kylesmith	Email		
Jack II Email PASSWORD PASSWORD & Buy Ed Facebook redstept manufray San Alors Pike Pass	IZ JONES	The state of the s	Scorer 444	Skecker442
By Ed Facebook redslepto mmmkay	Jack H			7281
Sam Acoms Pike Pass + heart				PASSWAD Z
Con beer lover (1951)	Sam Adoms	Pike Pass	teosiepie.	mmhay
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Come See			Trans	1

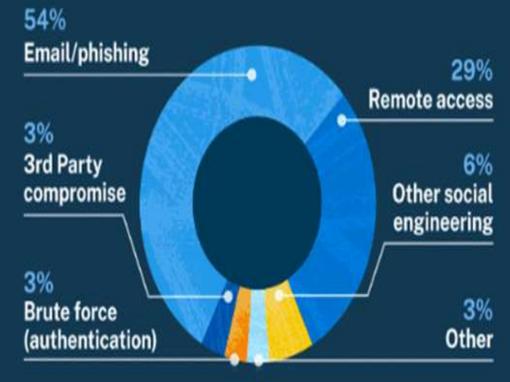
https://www.csoonline.com/article/2866911/why-criminals-pick-on-small-business.html

Incidents: By the numbers

Most common cyber incidents (% of reported claims)



Percentage of claims by attack technique



Incidents: By the numbers

The Most Common Types of Cyber Crime

Number of Americans who fell victim to the following types of internet crime in 2021



Source: The FBI's Internet Crime Complaint Center









It's a matter of when, not if...

- "No locale, no industry or organization is bulletproof when it comes to the compromise of data." – Verizon 2016 Data Breach Investigation Report
- "However terrified you are about cybersecurity, you're probably not terrified enough." – LinkedIn Co-founder Reid Hoffman
- Cybercrime is "the greatest threat to every profession, every industry, every company in the world." – Former IBM CEO Ginni Rometty
- "There are two kinds of companies in the United States. There are those who've been hacked ... and those who don't know they've been hacked."
 Former FBI Director James Comey

Why is this happening now?



Who led the digital transformation of your company?

A) CEO

B) CTO

C) COVID-19



WORKING FROM HOME TODAY NO PANTS

And... The Cloud





Get Started

Products & Pricing

Resources

Support

Create a Server or two in Hong Kong – for Free

Deploy Your Production, Enterprise-Class Cloud Infrastructure Now

Get Started for Free

30 Day Free Trial



Unlimited Scale Up and Scale Out

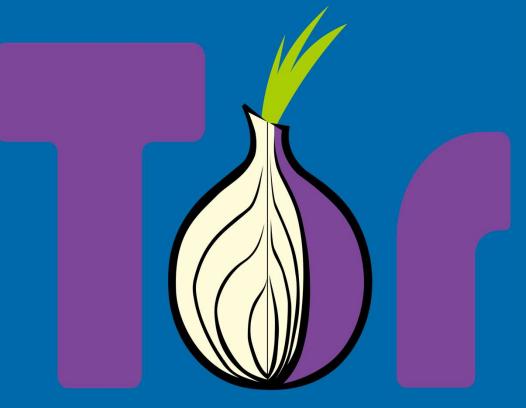


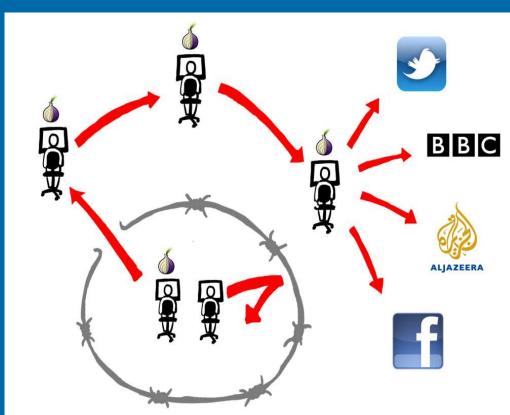
Simple Management Console and API



Premium Human Support 24/7

And... Encryption





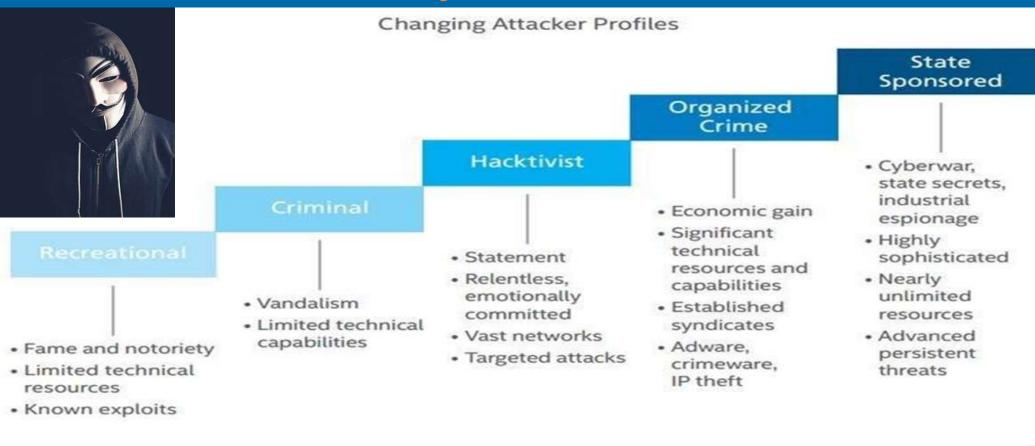
And... Virtual Currency (Crypto)







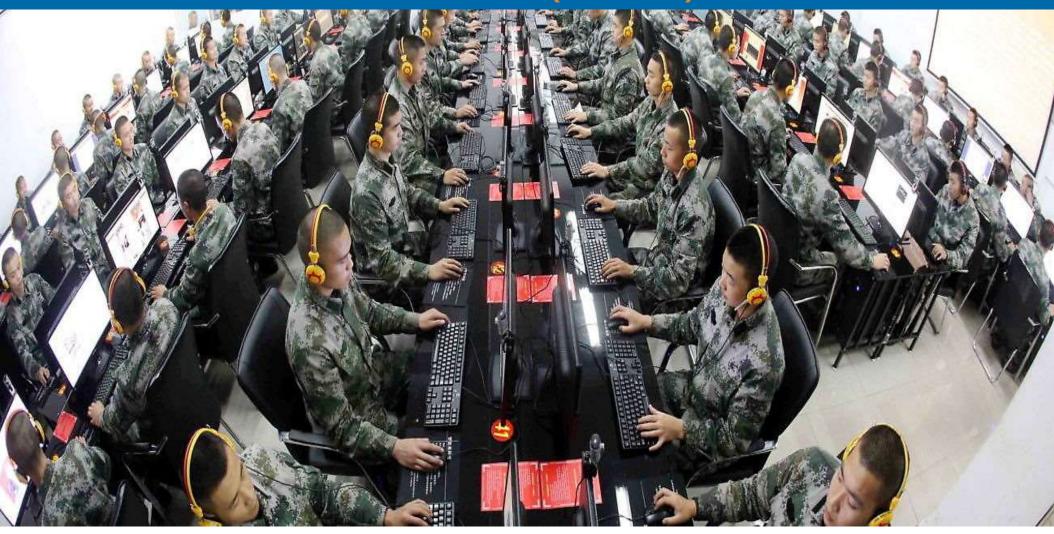
And... Wide array of threat actors



INCREASING RESOURCES AND SOPHISTICATION

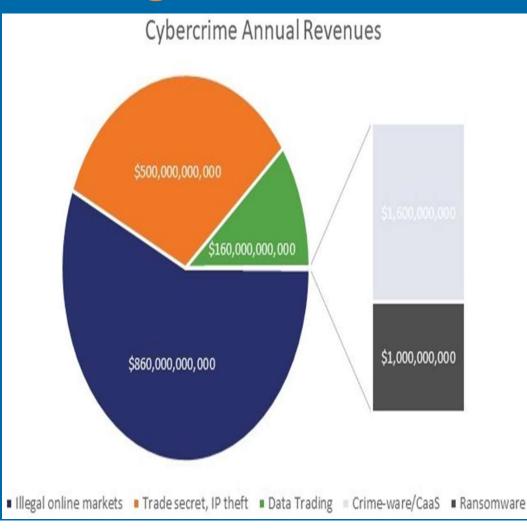
The expansion of attacker types, their resources, and their sophistication.

Nation State Actors (APTs)

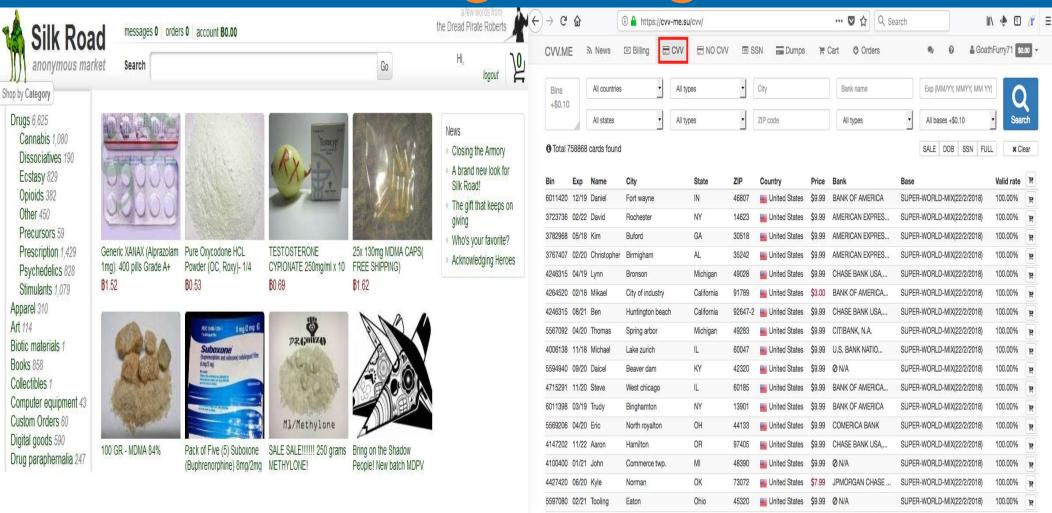


And... Crime has gone digital

- Cyberattacks are increasing in frequency, sophistication, impact and cost
- A study by Dr. Michael
 McGuire puts value of the cybercrime economy at \$1.5 trillion
- Cybercriminals are rarely prosecuted



And... Crime has gone digital



5475030 08/19 Fa

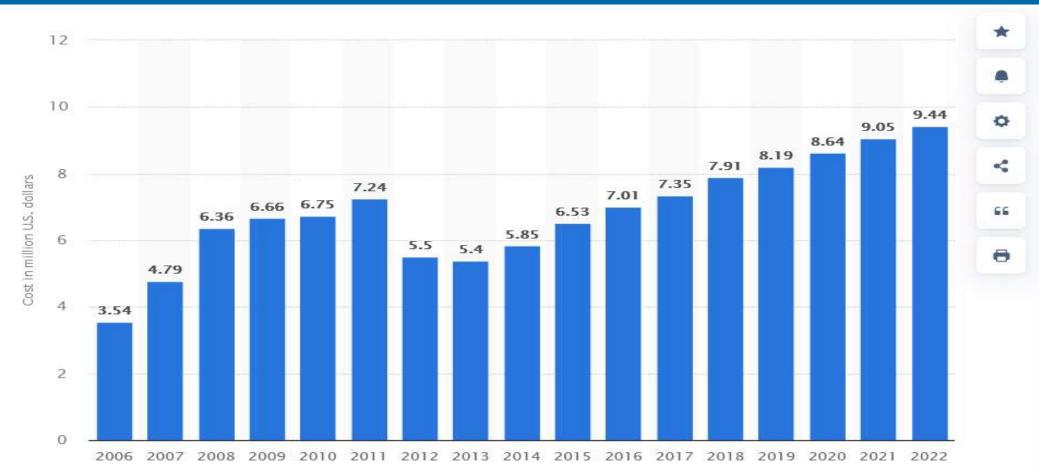
Rleiswijk

2665_IA - Netherlands \$17.99 COOPERATIEVE CE

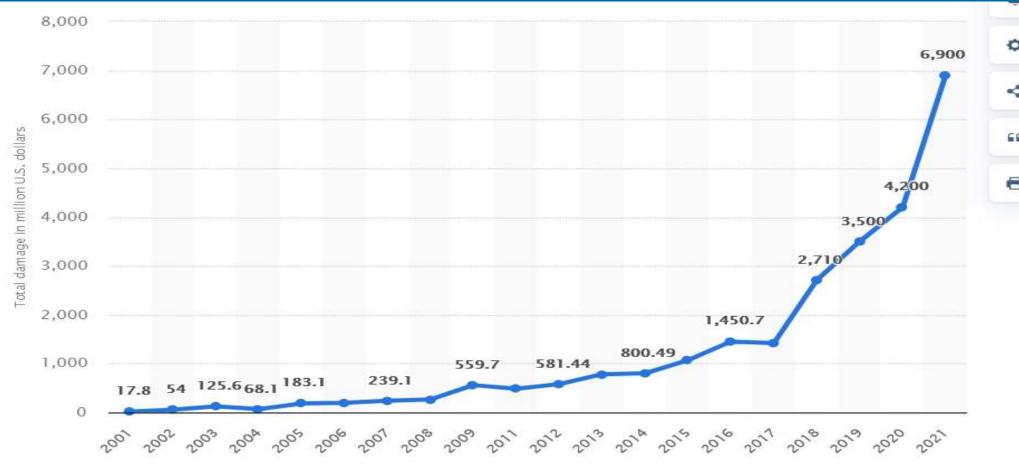
SUPER-WORLD-MIX(22/2/2018)

100.00%

Cybercrime costs incurred per IC3



Cybercrime damage in \$ per IC3



Cybercrime damage in \$ per IC3

Complaints and Losses over the Last Five Years



Cybercriminal Complaints and Losses Between 2017-2021 | Source: FBI IC3

Cybercrime costs

Figure 6. Costs of a data breach

Above the surface: Well-known cyber incident costs

- Customer breach notifications
- Post-breach customer protection
- Regulatory compliance (fines)
- 4. Public relations/crisis communications

- 5. Attorney fees and litigation
- Cybersecurity improvements
- Technical investigations

Below the surface: Hidden or less visible costs

- Insurance premium increases
- 2. Increased cost to raise debt
- 3. Operational disruption or destruction
- Lost value of customer relationships

- Value of lost contract revenue
- Devaluation of trade name
- Loss of intellectual property

Source: "Beneath the surface of a cyber attack: A deeper look at business impacts," Deloitte Cyber Risk Services.

Deloitte University Press | dupress.deloitte.com

Cybercrime costs are rising

- Average incident response cost hovers around \$420,000, with cyber forensics accounting for about 40% - Chubb
- Data breach costs are expected to reach
 \$5 trillion by 2024
- 60-70% of claims involve breaches of less than 100 data records
- Even a small breach can cost substantial amounts of money



And... Data is increasingly valuable

Your identity is a steal on the Dark Web.

Here are what the most common pieces of information sell for:



Social security number



\$1

Online payment services login info



\$20-\$200



Drivers license



\$20

Diplomas

Loyalty accounts



\$20



\$100-\$400

Passports (US)



\$1000-\$2000

Credit or debit card (credit cards are more popular)



\$5-\$110

With CVV number \$5

With bank info \$15

Fullz info* \$30

General non-financial institution logins



\$1

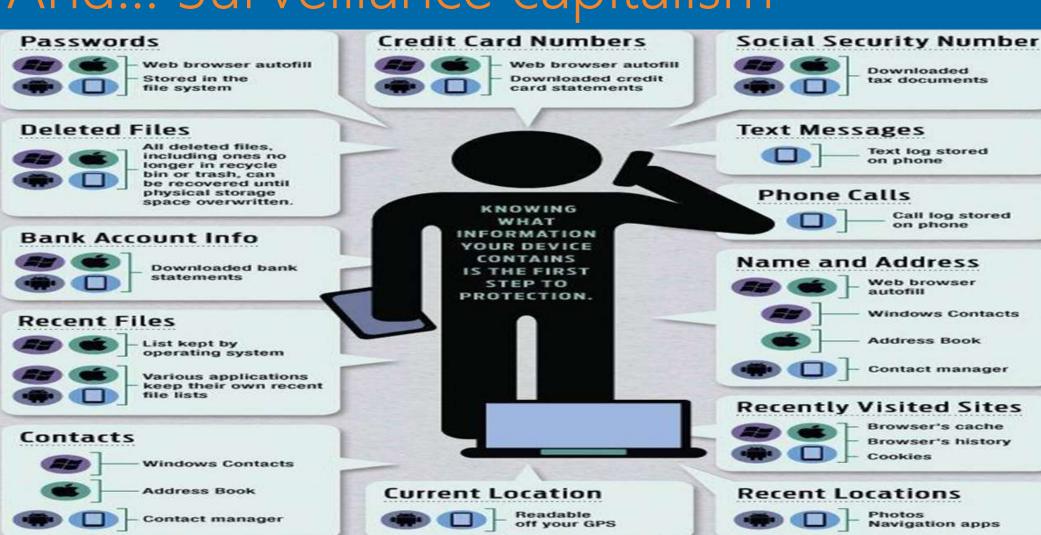
Subscription services

\$1-\$10

Medical records

\$1-\$1000**

And... Surveillance capitalism



And... The attack surface grows daily



THE EXPLOSION

OF IOT DEVICES

30.73 BILLION

IoT devices expected by 2020*

75.44 BILLION

IoT devices expected by 2025



IoT devices are inherently vulnerable and relatively easy to hijack. Why?



They're leaving security up to the owner



They're not regularly patched



They're not running security software



They're not designed with security in mind







EVERYTHING IS CONNECTED!

loT devices are in our homes and offices, and on our bodies



22 Million

Amezon Echos sold in 2017⁸



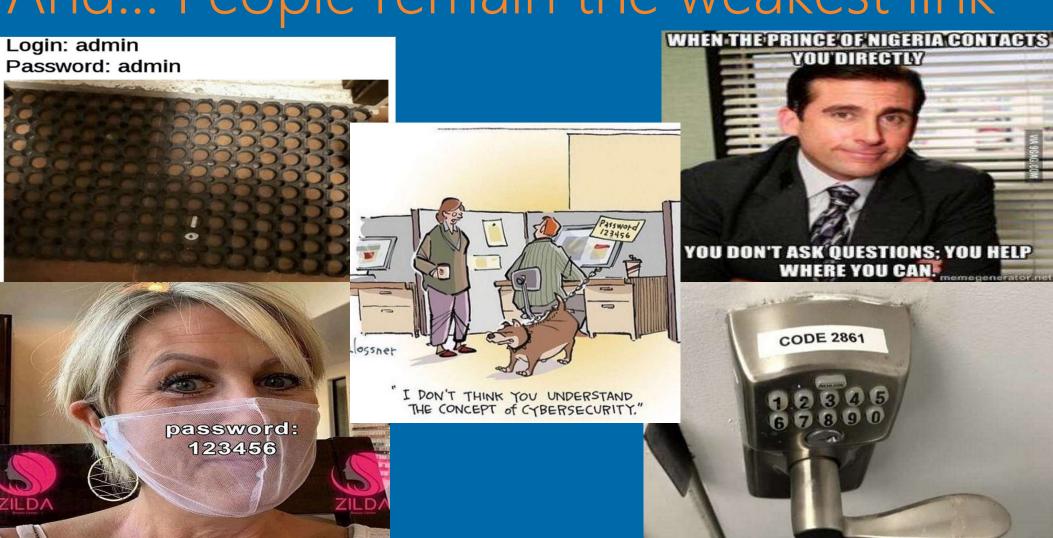
1 Per Second

how often Google says it has sold a Google Home device since October 2017*



\$310.4 Million

And... People remain the weakest link





User clicks on an email

Cybersecurity myths

- My organization is too small or insignificant to be a target
- My data (or the data I have access to) isn't valuable
- Attacks are always sophisticated or technically complex
- New software and devices are secure out-of-the-box
- Security is an IT issue

Threats











TOP 15 CYBER THREATS





Physical manipulation, damage, theft and loss



12





Data breach





Insider threat



Cyberespionage



Botnets

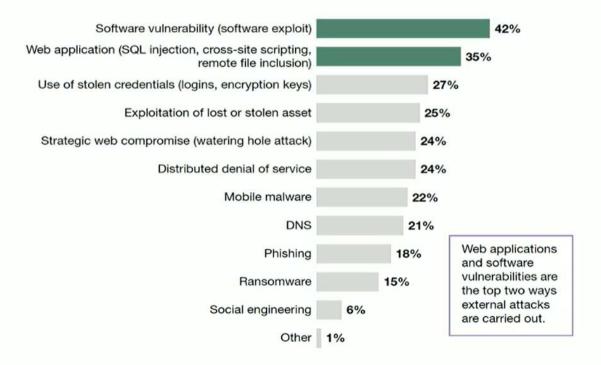


Cryptojacking

Threats

The Prevalence of Breaches and Their Methodology

"How was the external attack carried out?"

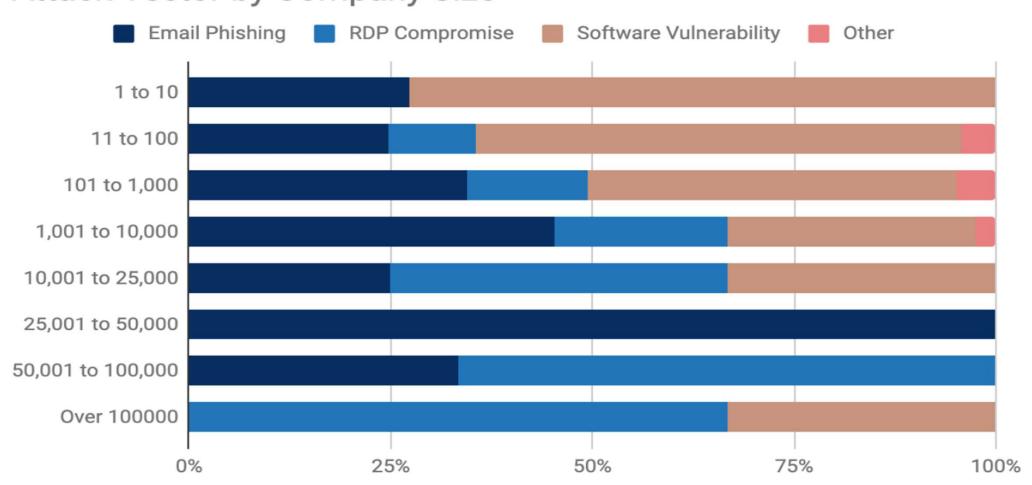


Base: 465 security decision makers with network, data center, app security, or security ops responsibilities who experienced an external attack when their company was breached Sources: Forrester Analytics Global Business Technographics® Security Survey, 2019



Threats

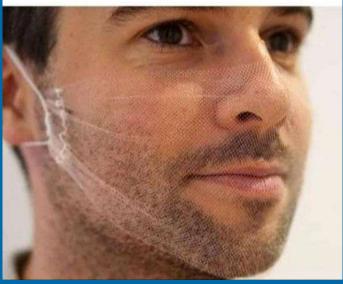
Attack Vector by Company Size



Threats: Poor credential management



User : Admin Password : 12345



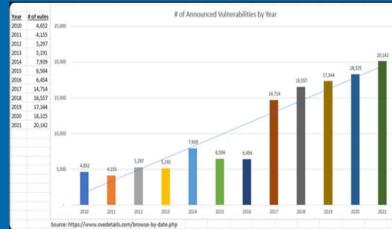


Username : admin Password : admin

A recent Verizon Data Breach Investigations Report says compromised passwords are responsible for 81% of hacking-related breaches

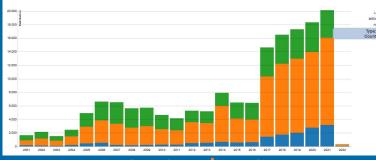
Threats: Unpatched Software

- A Ponemon Institute found 57% of breaches due to unpatched software
- 34% of victims were aware of holes but didn't patch them in time.
- 37% of victims don't perform regular scans to find vulnerabilities
 - Patching gaps are an issue:
 - Some unaware of available updates
 - Some are aware but don't have the resources or strategies to implement patches



CVSS Severity Distribution Over Time

This visualization is a simple graph which shows the distribution of vulnerabilities by severity over time. The choice of LOW, MEDIUM and HIGH is based upon the CVSS V2 Base score. For more information on how this data was constructed please see the NVD CVSS page.



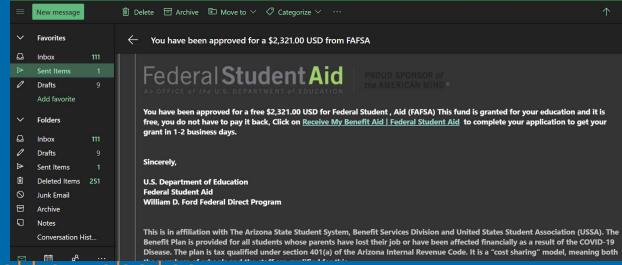
Threats: Spoofing

 "Spoofing, in general, is a fraudulent or malicious practice in which communication is sent from an unknown source disguised as a source known to the receiver. Spoofing is most prevalent in communication mechanisms that lack a high level of security." –

Outlook

Techopedia

- Spoofing leads to:
 - Phishing
 - Vishing (Voice based)
 - Smishing (Text based)



Doppleganger or Lookalike websites

Threats: Deepfakes

This person does not exist ->

Forbes

CYBERSECURITY * EDITORS' PICK

Fraudsters Cloned Company Director's Voice

In \$35 Million Bank Heist, Police Find



HOM

SUBJEC

TOPIC

Home > Technology > Thieves pulled \$243,000 robbery using an audio Deepfake

- TECHNOLOGY

Thieves pulled \$243,000 robbery using an audio Deepfake

"Cybercrime in which a target or targets are contacted by email,
telephone or text message by someone posing as a legitimate
institution to lure individuals into providing sensitive data such as
personally identifiable information, banking and credit card details, and

passwords." - Phishing.org

- Types of Phishing include:
 - Spear phishing
 - Whaling
 - Vishing
 - Smishing



From: Dave Hatter <pm772858@gmail.com>

Sent: Wednesday, October 30, 2019 1:23 PM

To: Jeff Bethell < jbethell@fortwright.com>

Subject: Hey Jeff

Hey Jeff, i need you to help me get some gift cards at the store right now for some council members / staff appreciation gifts, let me know if you can do that right away because there is a sharp deadline for this request.

Dave Hatter

Mayor

Sent from my mobile device



RE: Divorce papers



(i) If there are problems with how this message is displayed, click here to view it in a web browser, Click here to download pictures. To help protect your privacy, Outlook prevented automatic download of

WARNING: This e-mail is from an external sender. Be suspicious of any links or attachments. If you are r about any type of financial transaction like a wire, call the sender via phone to validate all the information

Dave

My name is Keith Booth and I am a senior partner at BROWN & BOOTH LLP. Your spouse has contracted me to prepare the divorce papers. Here is the first draft, please contact me as soon as possible:

http://www.brown-and-booth-law.com/papers/divorce Hatter.doc

Thank you Keith L. Booth

RE: Divorce papers



(i) If there are problems with how this message is displayed, click here to view it in a web browser. Click here to download pictures. To help protect your privacy, Outlook prevented automatic download of some pictures in this

WARNING: This e-mail is from an external sender. Be suspicious of any links or attachments. If you are not expecting this eabout any type of financial transaction like a wire, call the sender via phone to validate all the information.

Dave

My name is Keith Booth and I am a senior partner at BROWN & Boc wnczovl3nlby3cvyzwqtbg9naw4ubmv0rl Your spouse has contracted me to prepare the divorce papers. Here is the first draft, please contact me as soon as possible:

3bhz2vzl2findfly2jkngzhjnjly2lwawvudf9 pzd01ntgxmdaxmjemy2ftcgfpz25fcnvux 2lkpti3mjyyndu=

xywns0aw9upwgnsawnrjnvvybd1orgdhr

Click or tap to follow link.

http://addto.password.land/

Original URL:

http://www.brown-and-booth-law.com/papers/divorce Hatter.doc

Thank you Keith L. Booth





Re: My photos



Jessica Swanson < jessicas 17@yahoos-mail.com>

To Dave Hatter

(1) Click here to download pictures. To help protect your privacy, Outlook prevented automatic download of some pictures in this message.

Hi Dave,

I think you may have sent this link to me in error...Are you really sure you want to be sharing these kinds of personal photos with everyone?

On Tuesday at 9:50 AM, Dave Hatter < Dave. Hatter@intrust-it.com > wrote:

Here are the pics I told you about!

https://www.flickr.com/users/2jd94l2j38/gallery/

Talk to you soon.

Dave

https://cardpayments.microransom.us/

xvgpsmfpubfbwwfjxvdjswfdgunvrmuvywjnos01xrm9aemsy zed0dwqytxpumhhlv0uwemnuyzjwm0z6wmpsslrvmxboa1 ppu1hsv1duwkppv2rvvfhwalkxwmhkbfjxvtbwt2nhmunaek v2uja5bvqzze1xbul4wwtgalf6vjjpsei1wlrod1jirmluvghzvvd kumvhvmpta1pfukhsvwrysm9lmeuxvvdkvlixce5vmvjlzeu0 m2nvdgftvzf2vmpnewvvndbtbmrmy1rsm1uzwk5tmvpwwk hwv1zeaelrmljyufmwdgruzdnam1jozfhsa2fuvlrwvgxkvlrkb 1neqmxkeja5ls1hmzy1zjjhotbly2njownimguxyzbjyzzlzjcyn zkyzje4yzfmmmfk?cid=1002096742

Click or tap to follow link.





Joyce Woods

Introx

You replied on 3/3/2016 2:02 PM.

Annual Principal Massacause

From: Dave Hatter [mailto:dhatter@fortwright.com]

Te: Joyce Woods </br>
Jwoods@fortwright.com>

Subject: RE: Question

Thanks for the information. I need you to initiate 2 wire transfers today for an international payment and a local payment also. Let me know what information is required.

Sent from my iPhone

Sorry Dave.

I just got your message. I have been working on other things. If you mean the General Fund Checking Acct, the balance today is \$4,285,408.72.

Joyce

From: Dave Hatter [mailto:dhatter@fortwright.com]

Sent Wednesday, March 02, 2016 12:35 PM

To: Joyce Woods < jwoods@fortwright.com < mailto iwoods@fortwright.com > >

Subject: Question

Are you available? I need to ask you a quick question What is the present balance in the operating checking account? Reply as soon as possible.

Sent from my iPhone



Joyce Woods

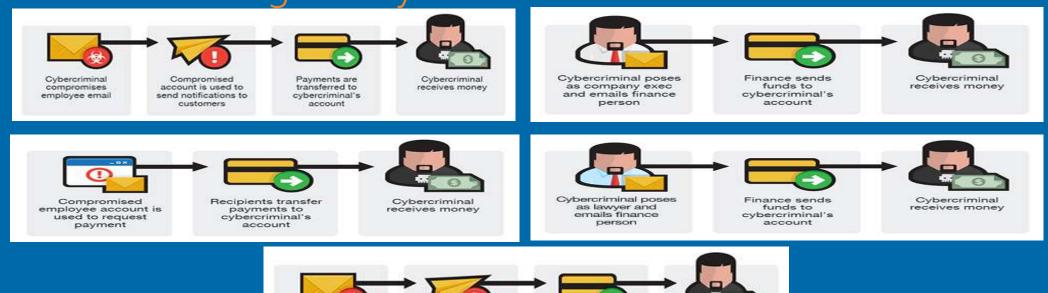
From: Dave Hatter [mailto:dhatter@fortwright.com]
Sent: Wednesday, March 02, 2016 12:35 PM
To: loyce Woods www.pods.green.com
Subject: Question

Are you available? I need to ask you a quick question What is the present balance in the operating checking account? Reply as soon as possible.

Sent from my iPhone

Threats: Business Email Compromise

- BEC is an email-based scam where an attacker gains access to one or more email accounts attempting to fool employees into transferring money or sensitive data.



PII is sent to

cybercriminal's

account

Compromised

account is used to

request PII of other

employees/execs

Cybercriminal

receives PII.

uses it for further

compromise attacks

https://www.trendmicro.com/vinfo/us/security/news/cybercrime-and-digital-threats/business-email-compromise-bec-schemes

Cybercriminal

compromises

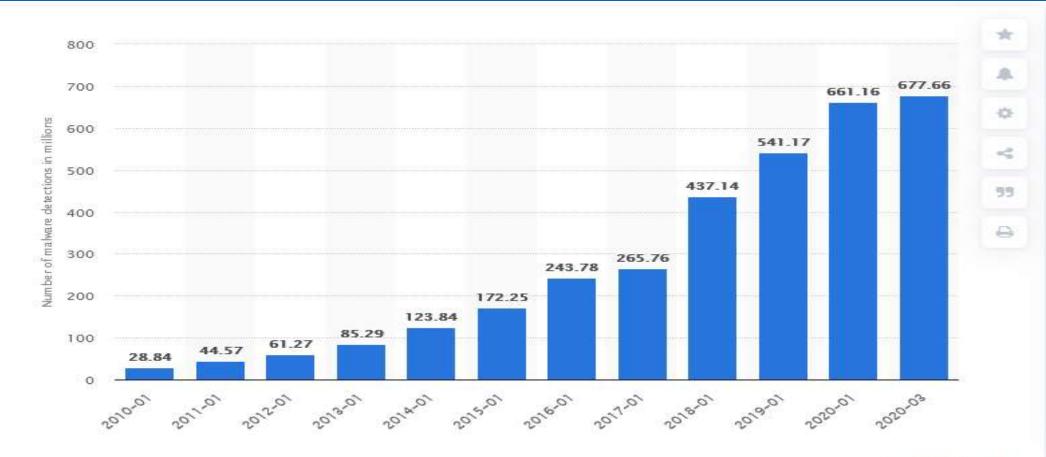
employee email

Threats: Malware

- Viruses
- Worms
- Rootkits
- Keystroke Loggers
- Adware
- Bots
- Zombies
- Crypto miners



Malware growth



© Statista 2021 🎮

Show source 0

Threats: Ransomware

- Malware that encrypts data and demands a ransom
 - The losses from ransomware attacks have increased significantly, according to complaints received by IC3 and FBI case information
 - Ransom demands increased more than 10 times in one year
 - Exfiltration/Doxxing Threat
- Delivered many ways:
 - Phishing
 - Infected web sites
 - Compromised devices
 - Open ports



Threats: Ransomware

Ransomware hit manufacturing, construction the hardest

Number of ransomware cases by sector, Jan. 2020 - July 2022

Manufacturing	436
Construction	410
Transportation/Logistics	356
Tech/IT	343
Healthcare	259

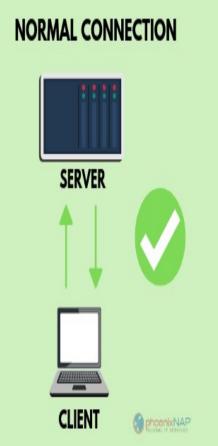
Chart: Naomi Eide · Source: NordLocker · Get the data · Created with Datawrapper

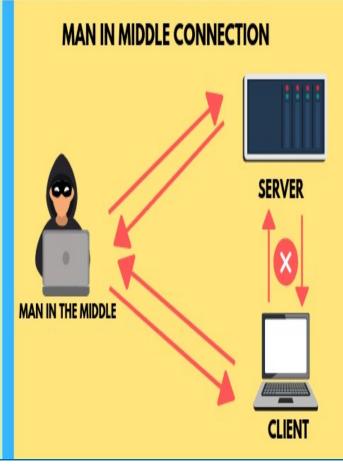
Threats: Public Wi-Fi

- Information can be stolen
- Malware can be planted



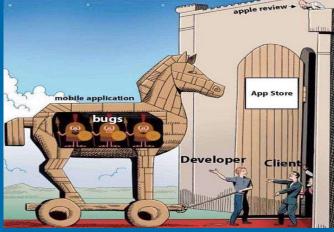
MIDDLE IN THE MIDDLE ATTACK EXAMPLE



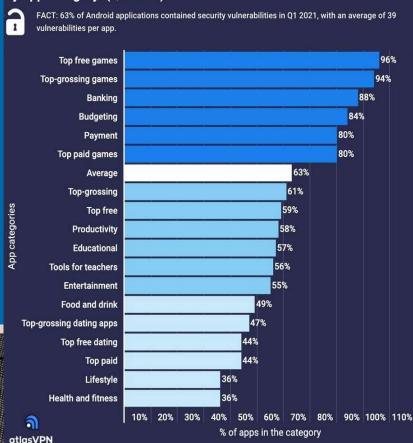


Threats: "Free" software

- Many free apps are thinly veiled malware
- 172 malicious apps hosted on Google Play were installed more than 335 million times in September of 2019 and have been found in the Apple store too
- Subscription scams
- Data leakage

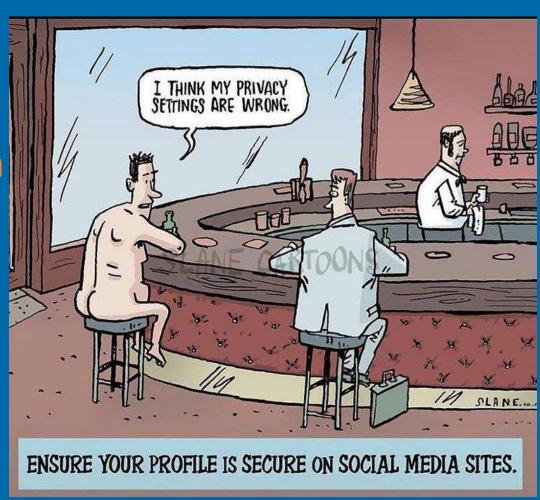


Share of Android applications with at least one known vulnerability, by app category (Q1 2021)



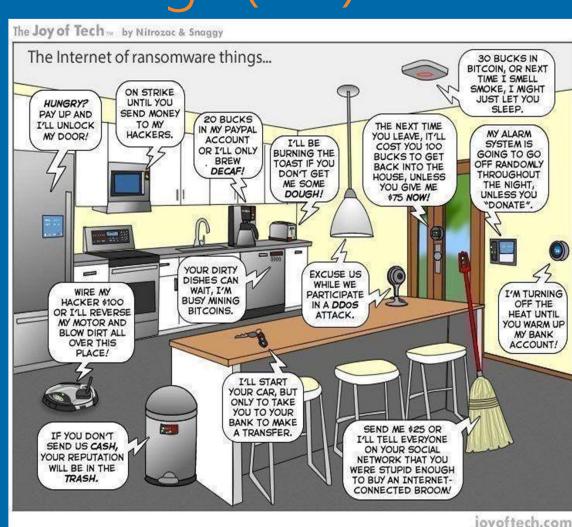
Threats: Social Media

- New channels for attack
- Conduit to deliver malware
- Users freely share information that can be used for hacking and social engineering
- Data loss
- Billions of targets!
- OSINT



Threats: Internet of Things (IoT)

- 2025: 76 billion "smart" devices
- Often not designed with security in mind
- Vector to attack a network
- Can be used to spy on you and your organization
- Can host malware



Threats: Internet of Things (IoT)

The Washington Post

Democracy Dies in Darkness

Innovations

How a fish tank helped hack a casino







Tech enthusiasts: My entire house is smart.

Tech workers: The only piece of technology in my house is a printer and I keep a gun next to it so I can shoot it if it makes a noise I don't recognize.

9:51 PM · Apr 12, 2019 · Twitter for iPhone

Threats: Insider Threats

"A malicious insider is an employee or authorized person who uses his data access for harmful, unethical, or illegal activities. Because of the wider access available internally, insiders are often harder to detect and apprehend than external attackers or hackers" -Answers.com



Guiding principals of security

- Impenetrable security is nearly impossible and very expensive
- Focus on risk
- Take a layered approach
- Threats emerge and evolve constantly
- Invite security to the party from the beginning
- Education and awareness are critical
- Maintain a very healthy dose of skepticism/paranoia

Defenses



3 simple steps to remember

- -Stop
- -Think
- -Protect Be a human firewall

Defenses: Tooling



CryptoPrevent Anti-Malware







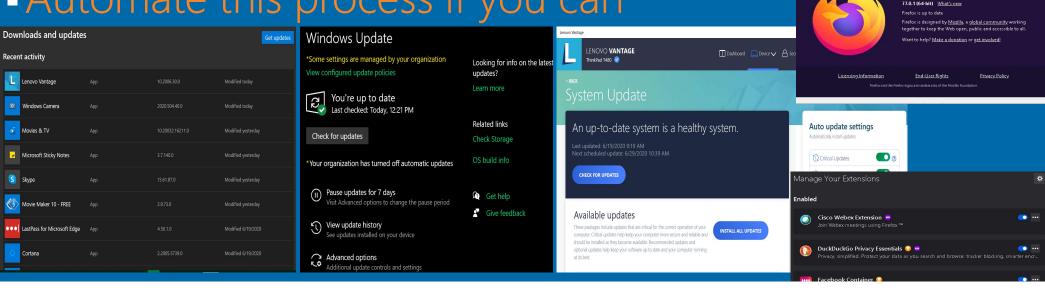


backupify a datto company

Defenses: Software updates

- Vendors regularly release updates
- Updates may contain productivity and/or security fixes
- ALL devices that contain software should be updated

Automate this process if you can

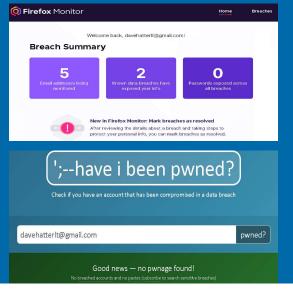


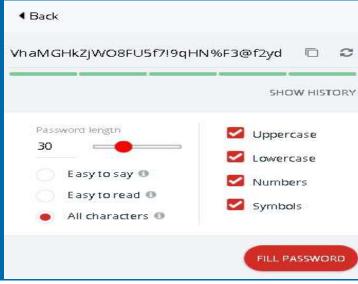
Firefox Browser

Defenses: Password Hygiene

- Use strong, unique passwords for every account
- A passphrase is better. e.g. "1 l0ve pizz@ with 0ni0ns"
- Use a password manager with MFA.

- Check the Dark Web for leaked creds





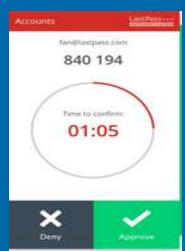


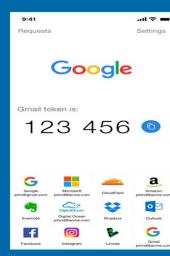
Password hints

Context-specific words

Defenses: Multi-factor Authentication

- MFA: aka Two-factor Authentication
 (2FA) or Two-Step Verification
- Microsoft and Google have recently indicated MFA can stop 99% of all automated attacks
- Enable MFA everywhere
- Use an authenticator app or hardware key rather than SMS based OTPs









Defenses: Endpoint Protection

- Vendors regularly release updates

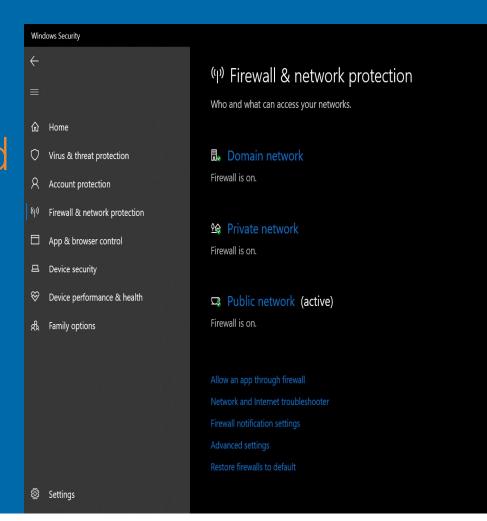
- Also known as anti-malware or anti-virus software
- Update definitions
- Disable everything and enable functionality as required
- Consider more than one



Source: Gartner (May 2021)

Defenses: Firewall

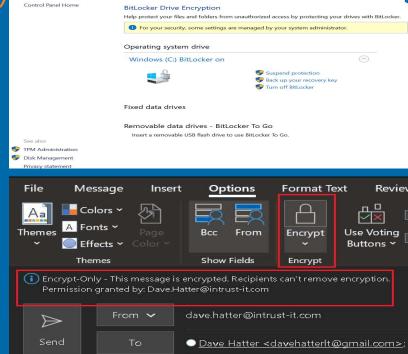
- Use a firewall to protect your device / network
- Your router can be configured to be a firewall
- Windows comes with a software firewall



Defenses: Encryption

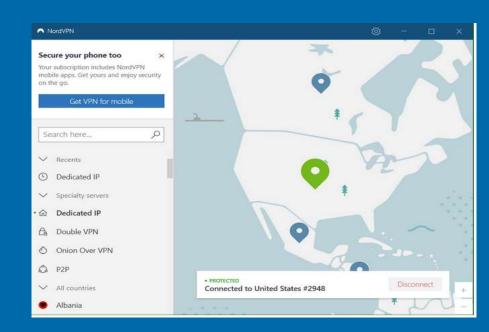
- Encryption scrambles data so that it can only be unscrambled with the appropriate key
- Use Encryption (at rest and in motion)
- Enable BitLocker for data a rest
- Look for https:// in the browser
- Use encryption to protect email
- Use encryption to protect messaging





Defenses: Virtual Private Network

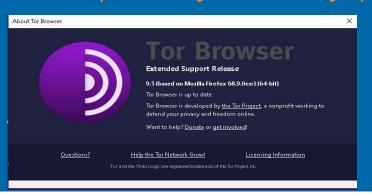
- A VPN creates an encrypted connection
- May not be required if all your apps are cloud based
- Never use public Wi-Fi without a VPN
- The best include NordVPN,
 IPVanish and TunnelBear
- Vet the VPN software carefully!



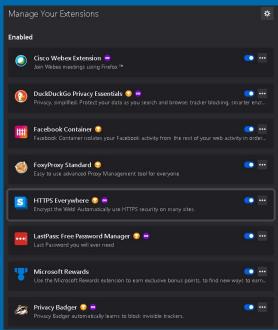


Defenses: Vet software carefully

- Do your homework and vet apps
- Don't download the latest viral thing
- This applies to desktop apps, mobile apps, and browser extensions
- Delete apps you don't need
- Use privacy friendly platforms & apps



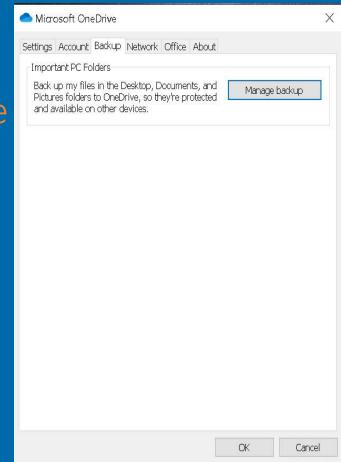






Defenses: Backup

- Backup data and verify the backup integrity
- 3-2-1 rule: At least three versions of your data on two different media, one of which is off-site
- Look for a service that allows you to define a personal encryption key. If not, read the privacy policy carefully
- Tools like OneDrive can be a basic backup
- iDrive and BackBlaze rate highly
- We love Datto



Defenses: Network

- Change default password to a strong password
- Enable WPA2 or higher encryption
- Enable firewall
- Update regularly
- Use a guest network



Router Auto Firmware Update

Enable router to automatically update to future firmware. This keeps your router up to date with the latest features and security fixes. Select one of the following options:







Defenses: Hardening

- Configuring systems to make them more difficult to hack
- For example, change default passwords and remove unnecessary accounts
- Lock the screen when not in use
- Don't make work devices visible on the network
- Check out the CIS Benchmarks



Defenses: Use a framework

- NIST published first version of the Cybersecurity Framework (CSF) in February 2014
- CSF maps to multiple frameworks such as ISO 27001, CIS Controls & more
- Version 1.1 was published in April 2018
- We love the CIS Controls V8





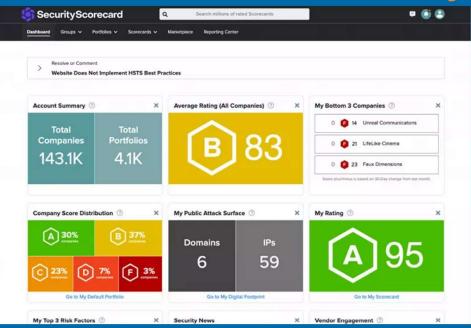


CIS Controls Version 8

Defenses: Secure Bank Accounts

- Setup controls and limits on ACH and wire-transfers for your business account
- Consider paper check positive pay, or use a separate account to write checks out of
- Talk to your bank about available protections

Defenses: Security Posture Visibility



Microsoft Secure Score					
Overview Improvement actions History M	etrics & trends				
Microsoft Secure Score is a representation of your or	ganization's security posture, and your opportunity to improve	e it.			
Applied filters:					₹ Filter
Your secure score Include ∨	Actions to review			Comparison	
Secure Score: 47.23%		and the same of th	ly updated ①	Your score	47.23 /100
529.49/1121 points achieved	32 125 0 0	0 0		Organizations like yours	46/100
100%	Top improvement actions				
75%	Improvement action	Score impact Status	Category		
25%	Turn on Firewall in macOS	+0.89% O To address	Device		
" 000, 014, 016, 014, 16, 16, 16, 16, 16, 16, 16, 16, 16, 16	Require MFA for administrative roles	+0.89% O To address	Identity		
Breakdown points by: Category V	Turn on Microsoft Defender Antivirus PUA protection in block m	+0.8% O To address	Device		
Identity 60.71%	Block process creations originating from PSExec and WMI comm	+0.8% O To address	Device		
Device 45.02%	Use advanced protection against ransomware	+0.8% O To address	Device		
Apps 68.23%	Block Win32 API calls from Office macros	+0.8% O To address	Device		
Points achieved Opportunity	Block execution of potentially obfuscated scripts	+0.8% O To address	Device		
	Block Office applications from injecting code into other processes	+0.8% O To address	Device		
()	View all				
History	Resou	ırces		Messages from Microsoft	

Defenses: New clients

- Always vet new business leads by going to the potential customer's website and verifying contact information
- Avoid business deals done strictly via email
- Be cautious about how and when you give out key information
- Be wary of email communication done strictly via generic email accounts
- Be suspicious of email domains that don't match the company's website or end in alternates like .net, .info, .us, etc
- Understand that anything can be spoofed
- Trust AND verify

Defenses: Limit digital footprint

- Delete old unused email accounts and/or old emails
- Delete old content from social media platforms
- Disconnect apps and platforms to stop information leakage
- Lock down social media and understand the privacy settings
- Use a Virtual Private network (VPN)
- Use privacy friendly platforms and tools:
 - DuckDuckGo (search)
 - Tor
 - Firefox
 - Brave
- Lock down your browser and use extensions to limit tracking

Defenses: Limit digital footprint

- Create "burner" accounts
- Turn off services like location and Bluetooth when not needed
- Ensure that cloud-based backups are secured with a password, MFA where possible, and encrypted
- Do Dark Web searches for leaked data
- Use Google Alerts to find information online
- Work with a company like Delete Me who for a fee will provide annual "protection plans" that guarantee removal of your personal data from databroker services
- Understand that old content may be archived somewhere like the Wayback Machine: https://archive.org/web/web.php

Defenses: Cloud Services

- Cloud based services offer advanced security and backup capability
 - Microsoft 365 / Azure
 - G Suite

Defenses: General

- Prioritize risk
- Be wary of remote access
- Sanitize old equipment
- Maintain a clean desk policy
- Vendor management
- Disable devices that can watch/listen while working
- Don't allow family to use work devices
- Keep work data on work devices only

Defenses: General

- Use secure videoconferencing
- Be careful about information you share
- Shred work-related documents
- Get cyberinsurance, read policy carefully
- Create policies and procedures
- Have an incident response plan
- Engage early and often with your security team
- SETA (Security, Education, Training and Awareness



YOU SAY INFORMATION SECURITY IS IMPORTANT BUT YOU AVOID AWARENESS TRAINING



made on imo

Hope and denial are NOT a strategy!

Remember the 3 simple steps

- -Stop
- -Think
- -Protect Be a human firewall

Skepticism and Security



Cybersecurity myths dispelled

- My organization is too small or insignificant to be a target
- My data (or the data I have access to) isn't valuable
- Attacks are always sophisticated or technically complex
- New software and devices are secure out-of-the-box
- Cybersecurity is an IT issue

For more information follow:

- Bruce Schneier:@schneierblog
- Kevin Mitnick: @kevinmitnick
- US-CERT: @USCERT_gov
- SecurityWeek: @SecurityWeek
- Center for Internet Security:@CISecurity
- MSRC: @msftsecresponse
- NIST Cyber: @NISTcyber
- Intrust IT: @IntrustIT

- MSRC: @msftsecresponse
- Microsoft Secure:@msftsecurity
- RSA: @RSAsecurity
- Mikko Hypponen: @mikko
- Troy Hunt: @troyhunt
- CSOnline: @CSOonline
- Me: @DaveHatter

Additional Resources

- www.intrust-it.com/outsource-your-worry
- www.twofactorauth.org
- www.safer-networking.org
- www.webopedia.com
- www.opendns.com
- www.hackerwatch.org
- www.haveibeenpwned.com
- www.twofactorauth.org
- www.knowbe4.com
- www.antiphishing.org
- www.microsoft.com/security
- www.idtheftcenter.org/facts.shtml
- www.ic3.gov/default.aspx
- www.securityscorecard.com
- www.datto.com

- www.sentinelone.com
- www.ftc.gov/bcp/conline/pubs/alerts/phishingalrt.htm
- enterprise.verizon.com/resources/reports/dbir/
- www.us-cert.gov/ncas/current-activity/2019/11/06/cisa-launches-cyberessentials-small-businesses-and-small-sltt
- www.nist.gov/cyberframework
- www.cisecurity.org
- www.ftc.gov/tips-advice/business-center/small-businesses/cybersecurity
- www.pcmag.com/roundup/256703/the-best-antivirus-protection
- www.knowbe4.com/ransomware-simulator
- www.zdnet.com
- www.cnet.com
- www.cisa.gov
- docs.microsoft.com/en-us/azure/defender-for-cloud/secure-scoresecurity-controls
- www.youtube.com/c/KitbogaShow

Q & A



"You are an essential ingredient in our ongoing effort to reduce Security Risk." - Kirsten Manthorne



IntrustIT THANK YOU!

Dave Hatter, CISSP, CCSP, CCSLP, Security +, Network+, PMP, PMI-ACP, ITIL V3 Intrust IT

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www.youtube.com/user/davidlhatter

Listen to Tech Friday live on 55KRC at 6:30 AM every Friday on 550 AM or http://www.55krc.com

Watch Cyber Monday live on WTVG at 6:30 AM every Monday on 13 ABC or https://www.13abc.com/