

Sun City Computer Club

Cyber Security SIG

October 19, 2023

**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**

COMPUTER CLUB PROGRAMS AND RESOURCES

We provide the following resources for our members:

- Internet Cafe
- Computer Lab (Win and Mac)
- Help Center - Free Device Repair
- Free Wi-Fi
- Training courses (Win, Mac and beyond)
- Special Interest Groups (SIGs)
- Media conversion capability and instruction
- New member orientation
- Fax transmissions
- Current topic presentations
- Socials

COMPUTER CLUB DISPLAY IN SOCIAL CENTER LOBBY



NAVIGATING THIS WEBSITE

SUN CITY COMPUTER CLUB CYBER BLOG

VOLUNTEERING

WHERE CAN I FIND THE COMPUTER CLUB?

COMPUTER CLUB CLOSURE DATES

SIG SIGN UP

NOT RECEIVING COMPUTER CLUB EMAILS?

COMPUTER CLUB VIDEOS ON YIMEO

PURCHASE COMPUTER CLUB NAME BADGE

FEEDBACK

SCCCCyber

Wednesday, October 18, 2023

WinRAR Vulnerability Manual Update required

WinRAR is an archive application popular on the Windows platform. The vulnerability is addressed in WinRAR version 6.24

Posted by John Johnson at 8:18:00 AM No comments:

Tuesday, October 17, 2023

Solar Magnetic Storm Level Increase



Posted by John Johnson at 8:12:00 AM No comments:

Saturday, October 14, 2023

Williamson County Sheriff's Office offering free steering wheel locks to Hyundai and Kia owners

Recent increase in auto thefts of Hyundai and Kia vehicles has prompted the Williamson county sheriffs office to provide a limited number of steering wheel locks for owners to attempt a curb the recent increase in auto thefts of those vehicles due to videos on social media detailing how to easily the process is.

To request a steering wheel lock email the sheriffs office; CID@wilco.org with contact information including phone number.

Blog Archive

▼ 2023 (82)

▼ October (8)
WinRAR vulnerability Manual Update required
Solar Magnetic Storm Level Increase
Williamson County Sheriff's Office offering free s...

Apple releases security patches for iOS 16.7 and I...

IMPORTANT Information MOVES!

Apple updates for vulnerabilities iOS 17 beta 4P...

Microsoft security related updates to Edge, Teams...

Georgetown Police warning on Fundraising phone calls

Holter wins best of Emergency Alert Systems and Wi...

► September (7)

► August (11)

► July (5)

► June (8)

► May (9)

► April (8)

► March (9)

► February (8)

► January (3)

► 22 (70)

► 21 (83)

► 20 (50)

► 19 (28)

► 18 (57)

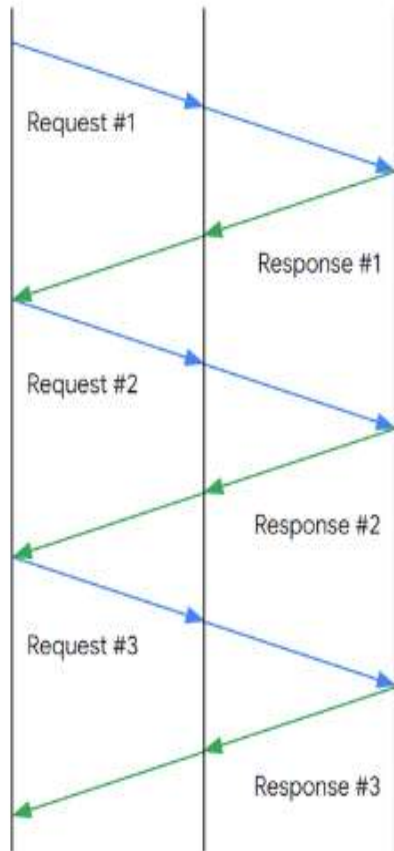
► 17 (82)

► 16 (16)

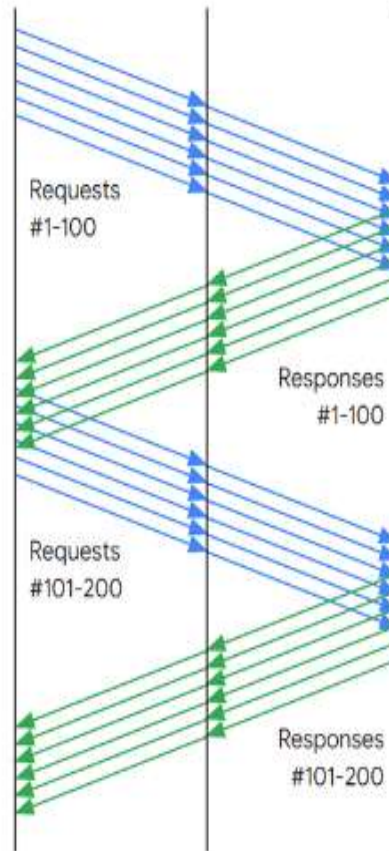
- Distributed Denial of Service
- 7.5 times Larger than previous record
- 398 Million requests per second
- Was 46 million requests per second
- (typical web 1-3 billion/sec)
- HTTP/2 "Rapid Reset" multistream
- 20,000 bots

DDoS Attack

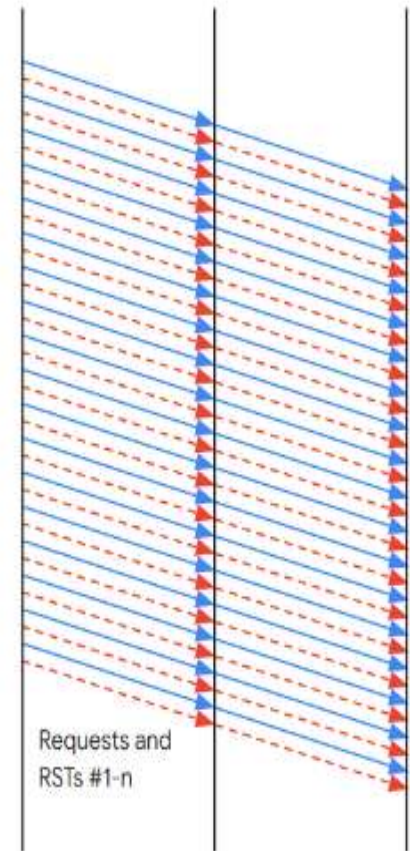
HTTP/1.1 attack



Standard HTTP/2 attack

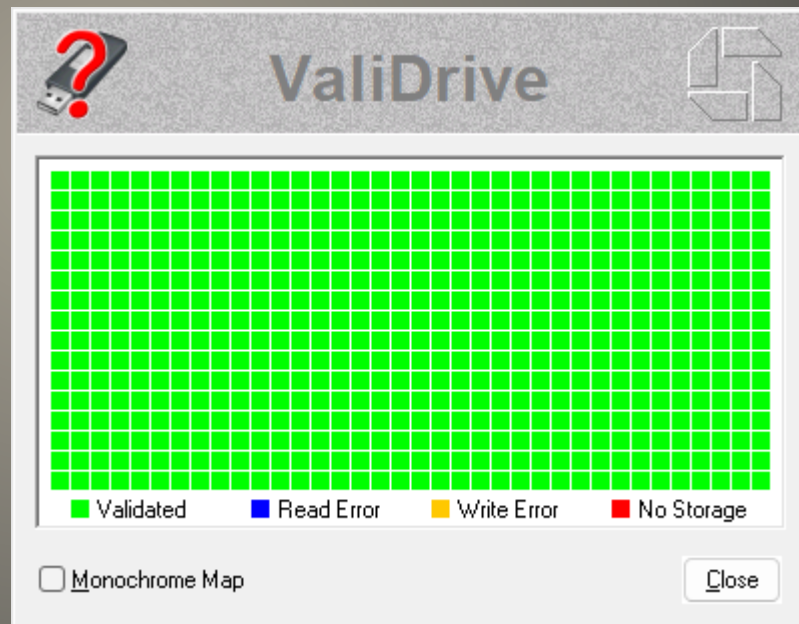


HTTP/2 Rapid Reset attack



- Larger capacity claimed than available
- Your precious data – gone never written
- SO SLOW
- 12 1-2 terabyte drives from Amazon
- ALL FAILED
- ValiDrive Gibson Research
- NAND style needs high voltage 20 volts
- USB has 5 volts charge pump boost

SSD Fraud



ValiDrive

Report #1

test date and time	10/11/2023 at 12:34 PM
declared drive size	4,026,531,840 (4.03GB)
validated drive size	4,026,531,840 (4.03GB)
highest valid region	4,026,531,840 (4.03GB)
hub or drive vendor	generic
hub or drive product	flash_disk
serial number	8c34f6d5

performance details

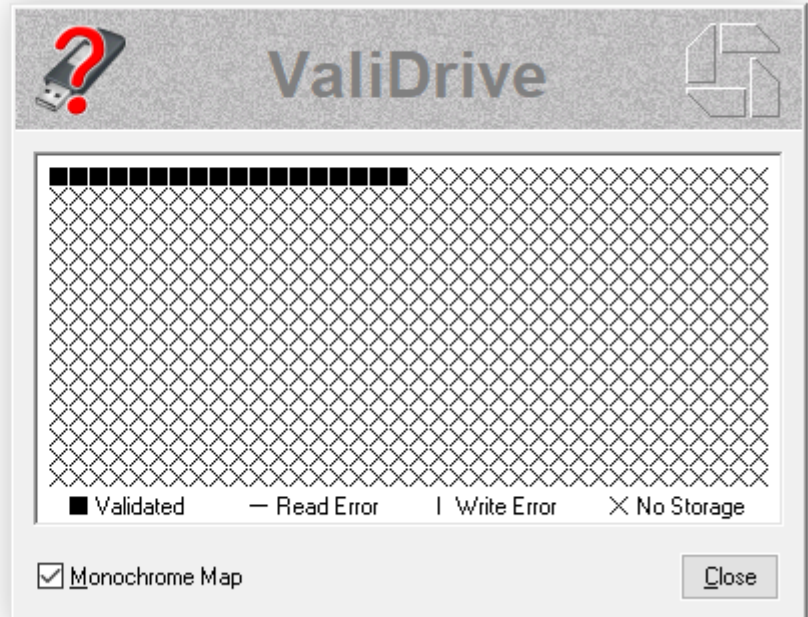
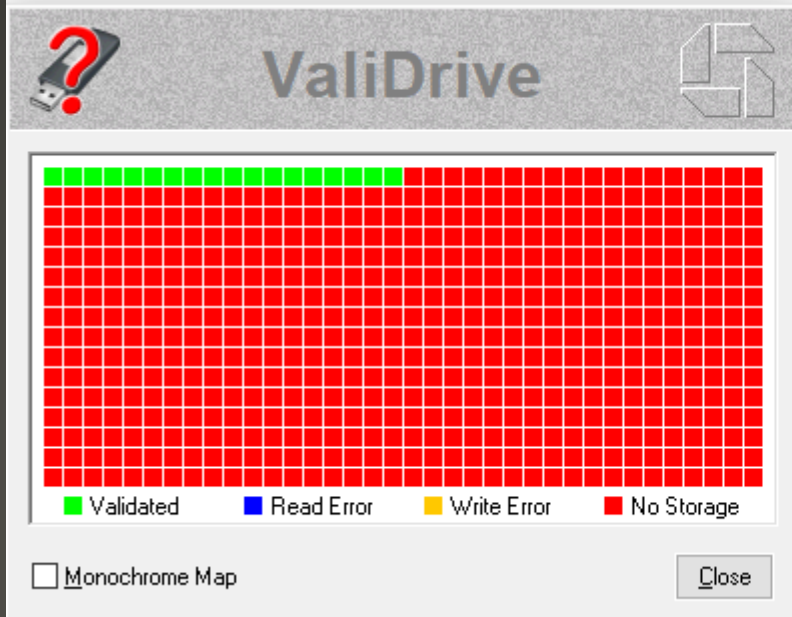
	read	write
samples	1,152	1,152
minimum	137,391	564,379
maximum	262,204	994,765
average	180,885	691,303
median	168,481	709,080
std dev	28,216	95,453
variance	0.156	0.138
total time	208,380,461	796,381,739
percent	20.74%	79.26%

time measurements in microseconds

ValiDrive



ALL FAILED



- 2TB Drive - 62 Gigabytes

ValiDrive

- How to avoid scams & fraud
- How to recover/report scams & fraud
- Maby we are victim? Maby not?
Notification of breach
“Found your info on Dark WEB”

Middle ground

- DO NOT provide any more information
 - Close down web page
 - Hang up phone
 - Delete and REPORT messages
 - Ignore social media posts

FILTER FILTER FILTER

- Disconnect from Internet and/or home network
 - Airplane mode pull cable WiFi off
- Review what you may have given out
 - That information may be coming back

Middle Ground

- CHANGE PASSWORD/PASSPHRASE
UNIQUE and STRONG
Enable/review multi factor authentication

- Contact bank, broker, service provider, etc.
- Use credit bureau services
- Scan your potentially affected device(s)

Computer Club Help Center

- Check any and all available logs & indicators
- Strengthen your resolve and defenses
- Check, double check, recheck
Bank & shopping accounts
Social media posts, friends, contacts
- Notify contacts
- Look around – old devices? Unused VMs?
- Old devices on cloud services
- Email/messaging forwarding rules Email filters “Other folders”

Middle Ground

- Attitude adjustment
Do everything right? Still a victim
- AWARENESS
- Defense in Depth

Middle ground

- Default configurations of software and applications
- Improper separation of user/administrator privilege
- Insufficient internal network monitoring
- Lack of network segmentation
- Poor patch management
- Bypass of system access controls
- Weak or misconfigured multifactor authentication (MFA) methods
- Insufficient access control lists (ACLs) on network shares and services
- Poor credential hygiene
- Unrestricted code execution

CISA NSA top 10 misconfigurations

- <https://www.equifax.com/personal/credit-report-services/credit-freeze/>
- <https://www.transunion.com/credit-freeze>
- <https://www.experian.com/freeze/center.html>

Credit Bureau Credit Freeze

- Slack employees taking week off for:
- Ranger status
- Salesforce's Trailhead online learning platform
- "How to use AI"
- How to use AI to satisfy this requirement

Slack slack off

- 23andMe confirms data theft
Credential stuffing
"DNA relatives" Ashkenazi Jews
Current political events causing SEVERE actions | leak victims
- Russia plans to build supercomputer
10,000 to 15,000 Nvidia H100 GPUs
Technology restrictions
- CISA warns of Adobe Acrobat Reader
CVE-2023-21608 RCE
Patched January 2023
Acrobat DC - 22.003.20282 (Win), 22.003.20281 (Mac) and earlier versions (fixed in 22.003.20310)
Acrobat Reader DC - 22.003.20282 (Win), 22.003.20281 (Mac) and earlier versions (fixed in 22.003.20310)
Acrobat 2020 - 20.005.30418 and earlier versions (fixed in 20.005.30436)
Acrobat Reader 2020 - 20.005.30418 and earlier versions (fixed in 20.005.30436)

Current Issues

- 23andMe confirms data theft
Credential stuffing
“DNA relatives” Ashkenazi Jews
Current political events causing SEVERE actions | leak victims
- So, several actors used 23andME account(s)
Against 23andMe’s terms of service
And are now in possession of 7 million records
Half or 23andMe’s data
- With “DNA” relatives”?
- PII + Genetic information
- New SSN, Credit card, DL, Facebook, ...
Not so with DNA
DNA “real record”
- \$300 sale GlaxoSmithKline
- Your DNA – Family’s DNA

23andMe

- Blackmail, Impersonation, biometric
- 4 million more records 17-Oct-2023
- Great Britain, wealthy

23andMe

- Of the 78% of IoT devices with known vulnerabilities on customer networks, 46% are not patchable.
- • Since 2019, attacks targeting open-source software have grown on average 742%.
- • Fewer than 15% of non-governmental organizations (NGOs) have cybersecurity experts on staff.
- • Coin-mining activity was found in 4.2% of all incident response engagements.
- • 17% of intrusions involved known remote monitoring and management (RMM) tools.
- • Adversary in the middle (AitM) phishing domains grew from 2,000 active domains in June 2022 to more than 9,000 by April 2023.
- • 156,000 daily business eMail compromise attempts were observed between April 2022 and April 2023.
- • 41% of the threat notifications Microsoft sent to online services customers between July 2022 and June 2023 went to critical infrastructure organizations.
- • The first quarter of 2023 saw a dramatic surge in password-based attacks against cloud identities.
- • Microsoft blocked an average of 4,000 password attacks per second over the past year.
- • Approximately 6,000 MFA fatigue attempts were observed per day.
- • The number of token replay attacks has doubled since last year, with an average of 11 detections per 100,000 active users in Azure Active Directory Identity Protection.
- • DDoS attacks are on the rise, with around 1,700 attacks taking place each day, cumulating at up to 90 terabits of data per second (Tbps).
- • State-sponsored activity pivoted away from high-volume destructive attacks in favor of espionage campaigns.
- • 50% of destructive Russian attacks observed against Ukrainian networks occurred in the first six weeks of the war.
- • Ghostwriter continues to conduct influence campaigns attempting to sow distrust between Ukrainian populations and European partners who support Kyiv—both governmental and civilian.
- • Iranian operations have expanded from Israel and the US to target Western democracies and NATO.

Microsoft Digital Defense report 2023

- Google vs Sonos' patent infringement case
Remove restrictions in multiple devices
- Curl version 8.4.0 released 11/11/2023
libcurl and curl
printers, cars, ...
docker base images
- Billboard truck Harvard campus
Doxing student names & faces
Statement
Harvard Undergraduate Palestine Solidarity Committee
- 23andMe Doxing
- Google Docs export with HTML exports
get tracking info added on
Now, calendar invites
- MOVEit update 2,300 reported companies
Sony 7,000 current and former employees

Current Issues

- Doxing or doxxing is the act of publicly providing personally identifiable information about an individual or organization, usually via the Internet. Wikipedia

- TV compensation cycles CAN auto-fix if they run
- Untreated temporary image retention
Device cool down
- TFT threshold shift – compensation cycle

Before



After



OLED TV image retention

- Proposed standard (ECH)
- Improves encryption and metadata protections
- Chrome, Firefox, Cloudflare
- Removes hostname from cleartext TLS

- Understanding
- Preparedness
- Awareness

- Defeats Pirate blocking efforts

Encrypted Client Hello from last time



Popular Science

+ Follow

Elevate your PC with Windows 11 Pro, now further price-dropped to \$29.97 for a limited time

Story by Stack Commerce • 2d

Sponsored Content

Elevate your PC with Windows 11 Pro, now further price-dropped to \$29.97 for a limited time

Save \$170 and enhance your Windows OS through October 15.

BY STACK COMMERCE | PUBLISHED OCT 10, 2023 9:00 AM EDT

SPONSORED CONTENT

GEAR

Questionable Money Saver?

Apps & Software > Utilities



Microsoft Windows 11 Pro



★★★★★ 181 Reviews

\$29.97 ~~\$199.00~~

Save 84%

by SmartTrainingLab

Choose Version:

<input checked="" type="radio"/> Windows 11 Pro	\$29.97 \$199.00	(84% off)
<input type="radio"/> Windows 11 Home	\$29.97 \$139.00	(78% off)
<input type="radio"/> Windows 10 Pro	\$29.97 \$199.00	(84% off)

- 1 +

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venmo Buy Now

PayPal Pay in 4 interest-free payments on purchases of \$30-\$1,500.

[Learn more](#)

 <https://shop.popsi.com/sales/microsoft-windows-11-pro?scsonar=1>

Get Microsoft Office for \$29.97 While You Can!

< **Connection is secure**



This site has a valid certificate, issued by a trusted authority.

This means information (such as passwords or credit cards) will be securely sent to this site and cannot be intercepted.

Always be sure you're on the intended site before entering any information.

[Learn more](#)

Certificate Viewer: www.stacksocial.com ✕

General Details

Issued To

Common Name (CN)	www.stacksocial.com
Organization (O)	<Not Part Of Certificate>
Organizational Unit (OU)	<Not Part Of Certificate>

Issued By

Common Name (CN)	R3
Organization (O)	Let's Encrypt
Organizational Unit (OU)	<Not Part Of Certificate>

Validity Period

Issued On	Thursday, October 5, 2023 at 3:31:49 PM
Expires On	Wednesday, January 3, 2024 at 2:31:48 PM

SHA-256 Fingerprints

Certificate	474df2859efb5e0c0ca4f5890118bcd54cc2831d95d3a3d95158a0f309bf9b51
Public Key	bd408ea9dcdcf1ad045dbfce14fcbc5e688a0a8b4e004bdae2425d63276412a6

Digital Certificate Details

- Lock icon does NOT mean the site is Safe
Secure
- Just the traffic is encrypted
Until delivered to site
-or-
Until delivered to attacker
- Not 90+% of sites are HTTPS with Lock
- The Lock icon can and may be overlaid

Revisit Lock details

- Refer – off to (many) other sites
- May revert to HTTP

- eMail addresses
- Burner email addresses
- eMail aliases

Revisit “hover over”

- FBI & CISA AvosLocker ransomware advisory
Open Source and commercial tools
- Microsoft Edge snooping on Chrome browsing activity
Part of changing browsers
Import history, passwords, etc.
Edge can copy Chrome browser data
edge://settings/profiles

Have all your credentials saved in Microsoft Edge

Import your browser data from other browsers and password managers



Import data from Google Chrome

Import bookmarks, passwords, history, and other browser data from Google Chrome

Import

Import browsing data at each browser launch

Always have access to your recent browsing data each time you browsing on Microsoft Edge

Edit preferences



Import data from Firefox

Import bookmarks, passwords, history, and other browser data from Firefox

Import



Import data from IE11

Import favorites, passwords, history, and other browser data from IE11

Import

Current Issues

Import browser data / Import browser data on each launch

Import browser data from Google Chrome on each launch

Turn off

Current Issues

- Bay Area restaurant's Instagram scam
GreatResturant vs. GreatResturant_

Very good copy of GreatResturant's Instagram page

Collect \$\$ for reservation

- Atlassian Confluence servers
FBI & CISA "patch immediately"
- SSN last 4
XXX-YY-1234
predictable given birth or first enroll location
XXX – State
YY – Group
- Amazon to buy \$1B of Microsoft licenses
- YouTube Ad blockers
Malicious content vs. YouTube
Subscribe = less privacy

Current Issues

About 31,70,000 results

- ai bing入口
- bing ai sign in
- bing ai open
- ai bing home page
- bing ai聊天
- google ai bing
- bing ai generator
- bing ai entrance

News about Bing AI

bing.com/news

Bing Image Creator, DALL-E

24m · on MSN

Bing AI and DALL-E 3 can now make more realistic images — here's how to get started

Bing Image Creator just took a massive step forward by adding support for DALL-E 3. Images generated by the tool should now be more accurate and higher quality than those ...

newsbytesapp.com · 11h
Microsoft supercharges Bing Chat with DALL-E 3 AI image generator

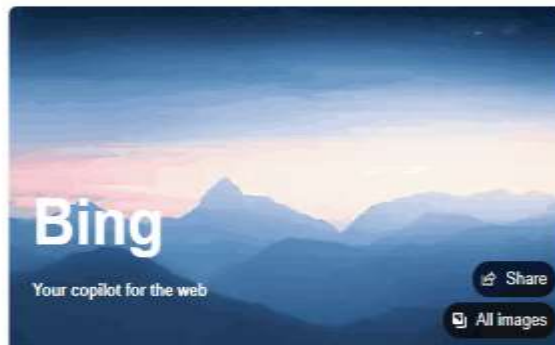
4h
DALL-E 3 drastically improves Bing Image Creator — here's how to u... 

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Bing is an AI-powered search engine owned and operated by Microsoft.

bing.com

Consider the new Bing your **AI-powered copilot** for the web - it's like having a research assistant, personal planner, and creative partner at your side whenever you search.

With this set of **AI-powered features**, you can ask complex

- ChromeOS

Linux, Sandboxing, Verified boot, Automatic updates, Safe browsing, Gmail spam elimination

- Websites dump into Chrome Notifications

- “Send us money”

- So, probably not

Chromebook has a Virus?

- (3) Viruses remaining. Delete them?
- Windows Infected (5) ...** • 1h
Pornographic spyware detected
- Norton: 5 viruses ...** • 1h
Click here to delete viruses. Trojan
- Virus on the PC?** • 1h
Click Here To Clean!
- Spyware detected!** • 1h
Infected PC and home internet network
- Spyware detected!** • 1h
Infected PC and home internet network
- 18 viruses detected** • 1h
Device at risk, renew McAfee now
- 518viruses detected** • 1h
Device at risk, renew McAfee now
- McAfee antivirus expired** • 1h
Renew now to keep your PC safe
- McAfee antivirus expired** • 1h
Renew now to keep your PC safe
- Keep your McAfee antivirus ...** • 1h
Click to unlock your 70% discount now
- 18 viruses detected** • 1h
Renew McAfee for safety
- Keep your McAfee antivirus ...** • 1h
Click to unlock your 70% discount now
- McAfee: TROJAN virus ...** • 1h
Click here to remove malware

Clear all

odesbest.com • 3m

3m

Urgent: McAfee antivirus needs updating!
70% discount available now.

McAfee Viruses found (5)

Trojan, spyware, adware detected

Detected items	Alert level	Action
Trojan:Java/Bytverify	Severe	Remove
Trojan:Win32/Killav.DL	Severe	Remove

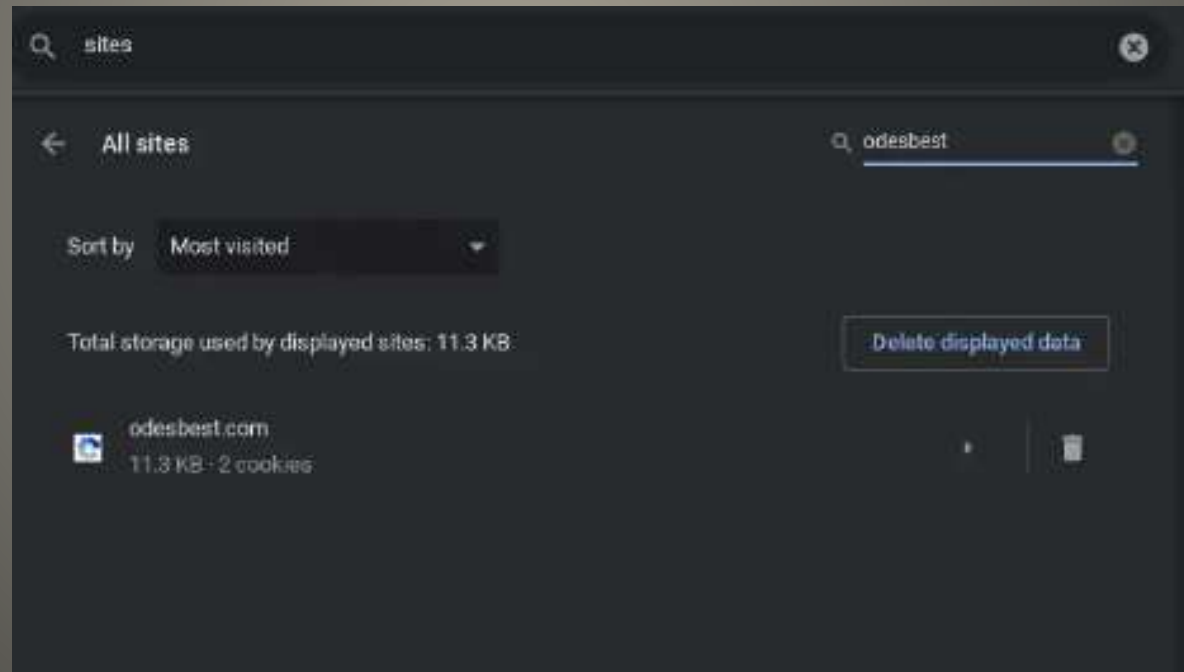
Show details >> Clean system Apply updates

はい いいえ

- (5) Viruses Found.** • 4m
(2) Secured. Delete (3) Remaining?
- Urgent: McAfee antiviru...** • 7m
70% discount available now.
- (5) Viruses Detected** • 10m
(2) Viruses secured. Delete (3) remaining?

Clear all

- Chrome > Settings > Privacy and security
- Site Settings
- Odesbest – deceptive web site
- exploits browser push notifications



A Fix

- MACE Act

Modernizing the Acquisition of Cyber Security Experts

- Reset Printers, routers, wireless access points, disk drives,
Before next recycle event, or

Stickers ???

Our modern cars

- ServiceNow

Unauthenticated attackers extract data

Since 2015

- Catalytic converter thefts 1215%

- Amazon needs explicit sign out

Current Issues

All



EN

Hello, [Seena](#)
Account & Lists

Returns
& Orders



Cart

Electronics Amazon Home Computers Pet Supplies Beauty & Personal Care Coupons Find a Gift Health

Your Account



Your Orders

Track, return, or buy things again



Gift cards

View balance, redeem, or reload cards



Digital Services and Device Support

Troubleshoot device issues



Login & security

Edit login name, and mobile number



Your Payments

View all transactions, manage payment methods, and settings



Your Memberships

View all rights to and from Amazon, Audible, and more

Your Lists

[Create a List](#)

[Find a List or Registry](#)

[AmazonSmile Charity Lists](#)

Your Account

[Account](#)

[Orders](#)

[Recommendations](#)

[Browsing History](#)

[Watchlist](#)

[Video Purchases & Rentals](#)

[Kindle Unlimited](#)

[Content & Devices](#)

[Subscribe & Save Items](#)

[Memberships & Subscriptions](#)

[Prime Membership](#)

[Amazon Credit Cards](#)

[Music Library](#)

[Start a Selling Account](#)

[Register for a Business Account](#)

[Customer Service](#)

[Switch Accounts](#)

[Sign Out](#)



- Cisco IOS XE devices
Actively exploited Full network control
Severity 10
- SpyNote Android banking trojan
Die Hard services
Factory reset to remove
- Browser “updates” iff from Browser vendor
- WinRAR vulnerability version 6.24 to resolve
- Google Drive drop requirement for 3rd party cookies 2024

Current Issues

Update Edge


Microsoft

You are using an older version of Edge

Update now to keep your Edge browser running smoothly and securely.

Your download will begin automatically, if not, click here:

[Update Edge](#)




There's no place like Chrome

[Update Chrome](#)

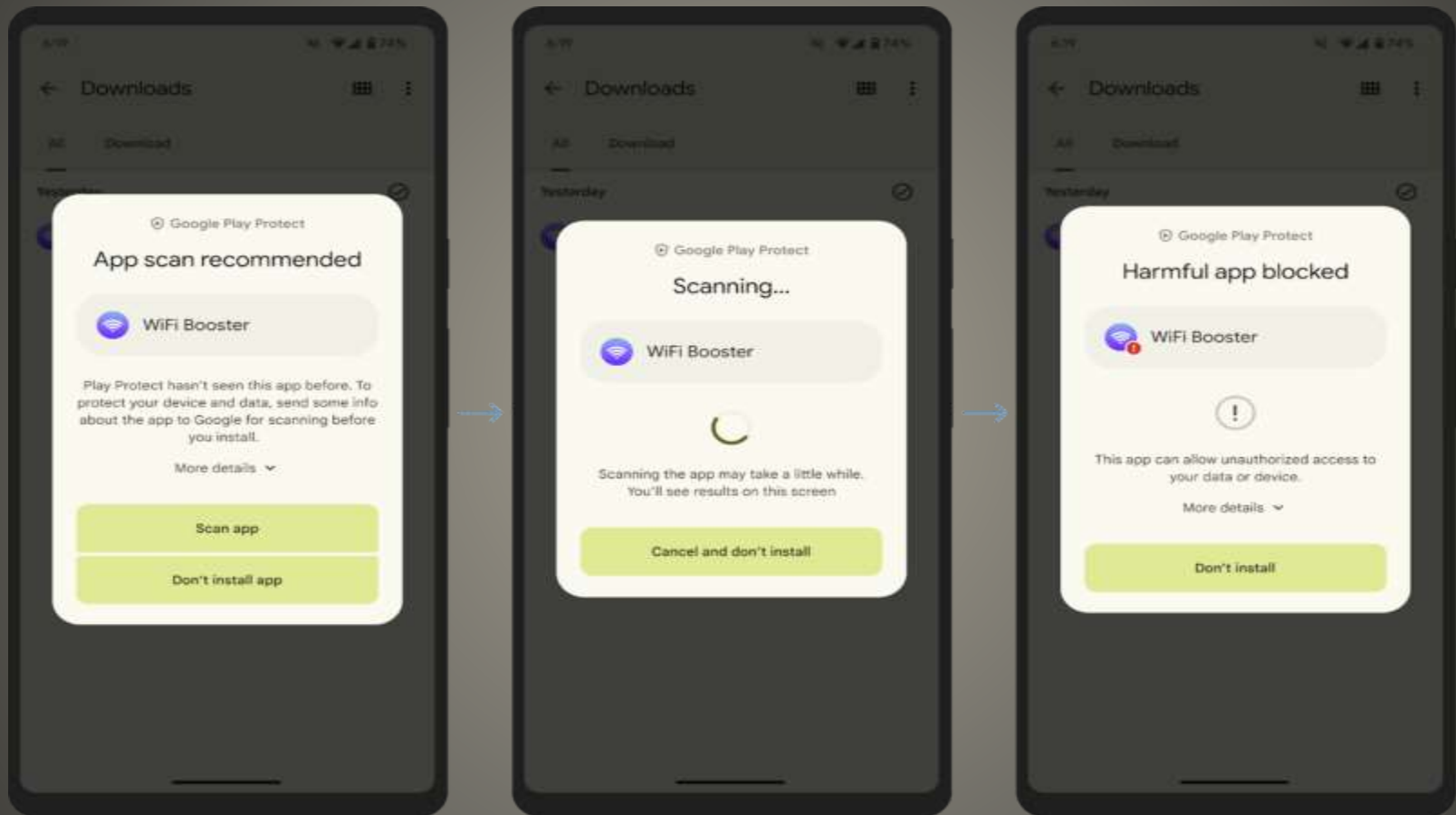
For Windows 11/10/8.1/8/7 64-bit.

Help make Google Chrome better by automatically sending usage statistics and crash reports to Google. [Learn more](#)

By downloading Chrome, you agree to the [Google Terms of Service](#) and [Chrome and ChromeOS Additional Terms of Service](#).



- Sent to Google for analysis



Android scan sideloaded apps

- Update to protect against polymorphic malware

Google Android Play Protect

Your privacy is important to us. The Federal Communications Commission asks us to send you a notice every two years about your privacy and something called Customer Proprietary Network Information (CPNI).

CPNI is information about your phone service from us. This information includes things like what kind of service you have, how often you use it, and certain billing information. It's your right and our duty under federal law to protect the confidentiality of your CPNI. We use CPNI internally and may share information about our customers with our AT&T Family of Companies* and our agents. This allows us to offer you new or enhanced services we think you'll like.

If you're OK with this, no action is needed, and your CPNI may be used after a period of 45 days. If you don't want your CPNI used internally for things like offers:

- You can "opt-out" online at att.com/cpni
- You can call 800.315.8303, any time of day, and follow the prompts

Restricting CPNI usage won't affect your services, and you can change your decision anytime. If you restrict your CPNI use, you may still get marketing messages from us related to services similar to those that you already purchase. To learn more, go to att.com/privacy. Thanks for choosing us, AT&T.

*The AT&T Family of Companies are those companies that provide voice, video, broadband, domestically and internationally, including the AT&T local and long-distance companies, AT&T Corp., AT&T Mobility, DIRECTV and other subsidiaries or affiliates of AT&T Inc. that provide, design, market, or sell these products and/or services. We don't share CPNI outside of our AT&T affiliates, agents and vendors without your consent except for court orders, fraud detection, providing service, network operations and security, aggregate information that doesn't identify you personally, and as otherwise authorized by law.

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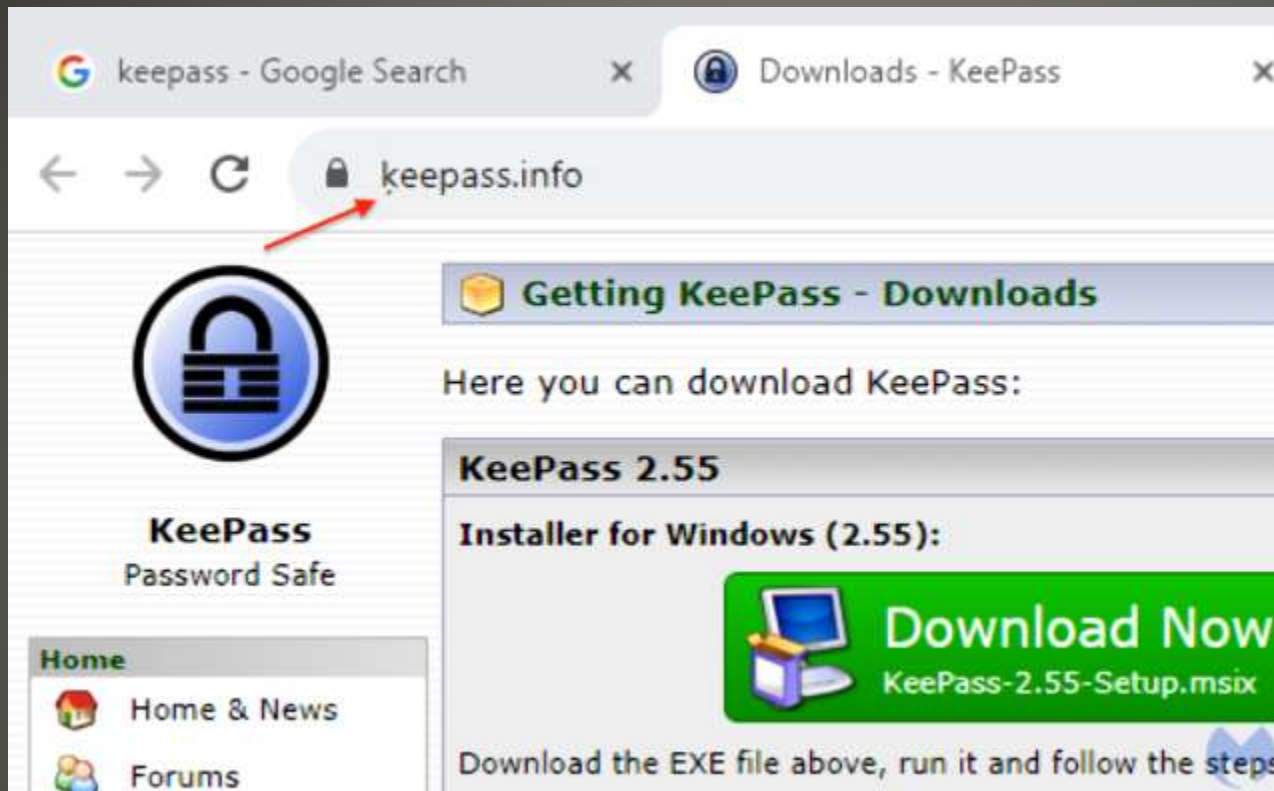
A2003915-60 - 9/23

AT&T Customer Proprietary Network Information

- Hosted on Google

The image shows a Google search interface for the term "keepass". The search bar contains "keepass" and the search button is visible. Below the search bar, there are navigation tabs for "All", "Videos", "Images", "News", "Shopping", and "More". The search results show "About 3,130,000 results (0.27 seconds)". The first result is a sponsored link for "Keepass" with the URL "https://www.keeppass.info". The title of the link is "Keepass - Downloads". The description reads: "You can store all your passwords in one database. **Keepass** is a open source password manager." Below the description are several links: "Keepass 2.51 Released", "View Screenshots", "For Downloads", "Keepass 2.40 Released", "Feature List", "Keepass 2.28 Released", "First Steps Tutorial", "Keepass 2.41 Released", "Translations", and "Technical FAQ". A red box highlights this sponsored result, and the text "malicious ad" is written in red to the right of the box. Below this is another result for "Keepass" with the URL "https://keeppass.info" and the title "Keepass Password Safe". The description for this result reads: "Keepass is a free open source password manager, which helps you to manage your passwords in a secure way. You can store all your passwords in one database, ...".

Keepass



, keepass[.]info-

xn--eepass-vbb[.]info,

KeePass punnycode

- Check the Digital Certificate

Check the Digital Certificate

- Short Message Service

- Not encrypted

Provider(s)

Warrant Court

Altered in transit

Metadata

Signal, WhatsApp, Telegram

False Signal, WhatsApp, Telegram

SMS

- Ride services
- Food delivery services
- Social media

Privacy

- <https://www.cisa.gov/news-events/news/cisa-nsa-fbi-ms-isac-publish-guide-preventing-phishing-intrusions>
- <https://www.cisa.gov/news-events/alerts/2023/10/19/cisa-nsa-fbi-and-ms-isac-release-update-stopransomware-guide>

CISA, NSA, FBI, MS-ISAC

- Amazon – kinda
- Google account – default
- GitHub, Windows 11, TikTok, 1Password

Passkeys gain traction

- Messaging:

Messages, WhatsApp, Signal, Telegram, GroupMe, Google Chat, Discord, Slack, Messenger, Snapchat, LinkedIn, Instagram, X, Reddit, TikTok

- Now Chat

Beeper

- Got one of these plans?

One, Simple Choice, Magenta, Magenta 55 Plus

Expect price increase in November

T-Mobile customer support

1-800-TMOBILE

1-800-2453

T-Mobile

**Artificial Intelligence
Machine Learning
Large Language Models**

- 60 minutes Holocaust story
- 55,000 survivors interviewed
- 20 camera sphere 3D hologram
- 2000 questions

- HereAfter AI

HereAfter AI



AI PIN

- Seamless, Screenless, Sensing
- Standalone
- AI to “learn about you”
- Capture toddler’s first steps w/o phone between you
- Hold object, identify and question about it
- Concerts filmed without crowd’s hands
- Instant translations
- Speak translation in owner’s voice
- Capture and sort personal data
- “Catch me up”
- https://www.ted.com/talks/imran_chaudhri_the_disappearing_computer_and_a_world_where_you_can_take_ai_everywhere

AI PIN

- US, UK, select countries in Asia & South America
- Temporary unavailable in Europe – privacy laws
- “In the European Economic Area (EEA), Windows will now require consent to share data between Windows and other signed-in Microsoft services. You will see some Windows features start to check for consent now, with more being added in future builds.”

Windows Copilot restrictions

Enable AI Companion

Zoom will use AI technology, which may include third-party models, to provide the AI Companion service. Invitees will be able to ask questions about the meeting to AI Companion, which will provide responses based on the meeting transcript.

Zoom does not use any audio, video, chat, screen sharing, attachments or other communications-like content (such as poll results, whiteboard and reactions) to train Zoom's or third-party AI models.

By clicking "Enable", the web setting for this feature will be enabled for your account, and the feature will be turned on for this meeting and available for hosts to turn on in future meetings. You can change this any time in Settings.

Cancel

Enable

Zoom

- Character.AI
Group chats with multiple AI can talk



Character.AI Group Chat

More Characters.
More Humans.
More Fun.

- Synthetic Humans



Chat Bots "talk" to each other

- AI assistant INSIDE Microsoft apps
Office 365 and MORE
Results can be sensitive

Microsoft Copilot

Create content with Copilot [Close]

A job description for... 10 ideas for... A press release for... A project proposal about... [Refresh]

Describe what you'd like to create, and Copilot will generate a draft

[Icons] [Send]

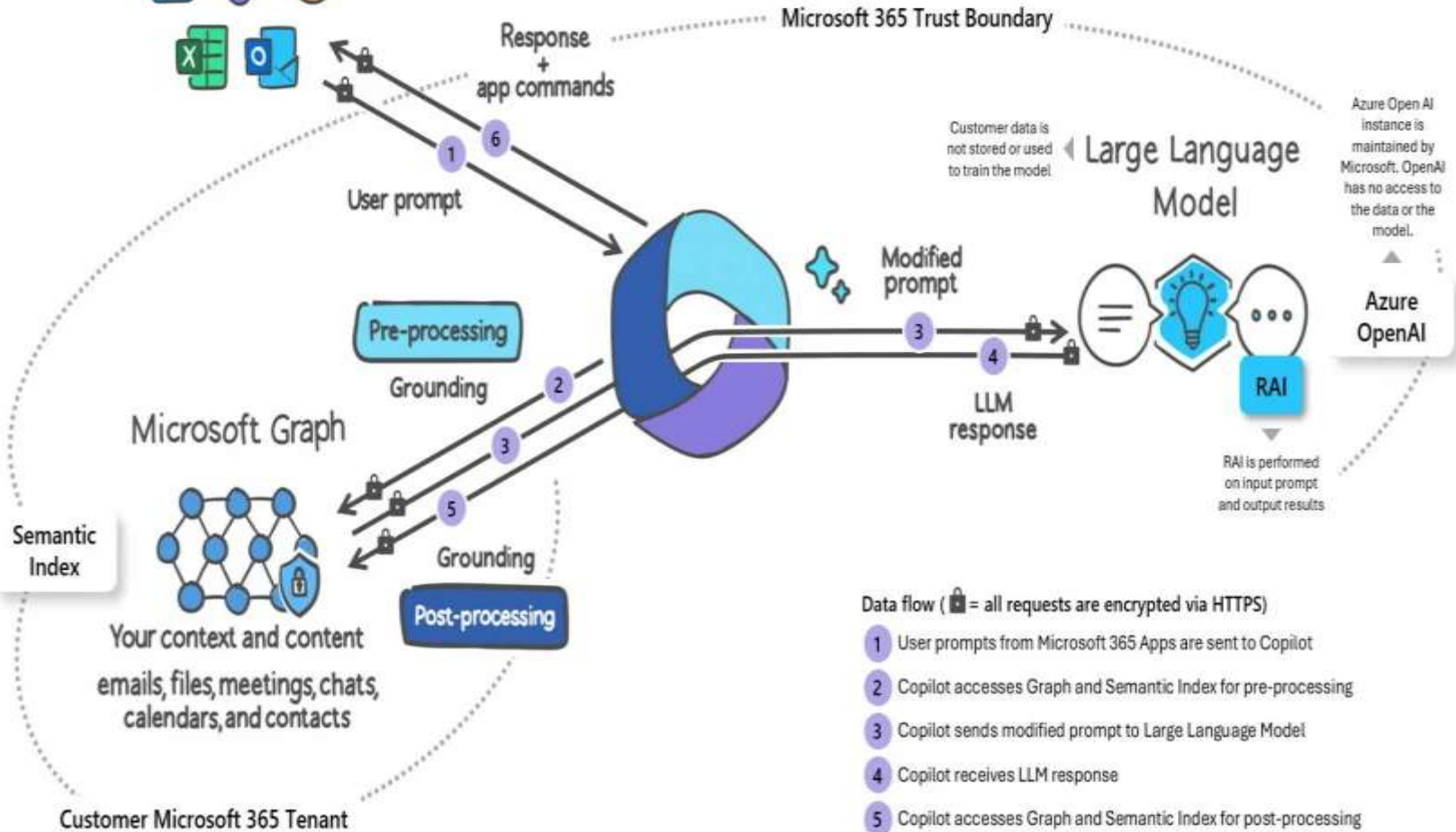
- Join Teams meetings
summarize, action items, outstanding issues
- Outlook
triage inbox, summarize threads, generate replies
- Excel
Analyze raw data, find trends

Microsoft Copilot

Microsoft 365 Apps



Microsoft 365 Copilot



Data flow (🔒 = all requests are encrypted via HTTPS)

- 1 User prompts from Microsoft 365 Apps are sent to Copilot
- 2 Copilot accesses Graph and Semantic Index for pre-processing
- 3 Copilot sends modified prompt to Large Language Model
- 4 Copilot receives LLM response
- 5 Copilot accesses Graph and Semantic Index for post-processing
- 6 Copilot sends the response, and app command back to Microsoft 365 Apps

- Tenant isolation. Copilot only uses data from the current user's M365 tenant. The AI tool will not surface data from other tenants that the user may be a guest, in nor any tenants that might be set up with cross-tenant sync.
- Training boundaries. Copilot does not use any of your business data to train the foundational LLMs that Copilot uses for all tenants. You shouldn't have to worry about your proprietary data showing up in responses to other users in other tenants.

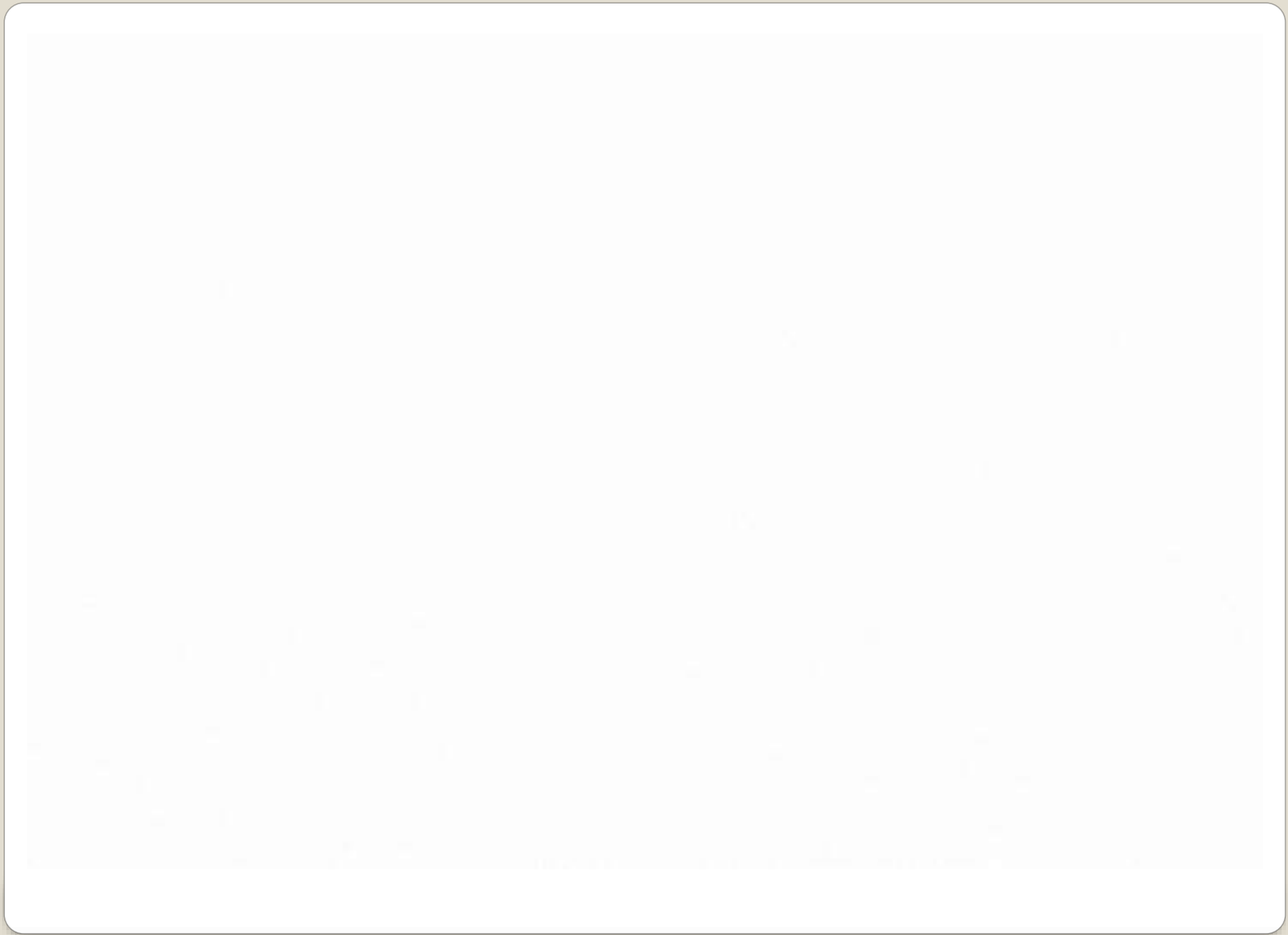
Copilot security Model – the good

- Permissions. Copilot surfaces all organizational data to which individual users have at least view permissions.
- Labels. Copilot-generated content will not inherit the MIP labels of the files Copilot sourced its response from.
- Humans. Copilot's responses aren't guaranteed to be 100% factual or safe; humans must take responsibility for reviewing AI-generated content.

Copilot Security Model – the bad

- Assistant with Bard
- October 4 Made by Google
- Command execution -> Personalized allies
- Text, Voice, Images
- Integration with Google World
- "Draft my social media post"
- United States – U.S.A

Google



- ChatGPT words & sentences
- Basic science
- More and more specialized

Polymathic AI

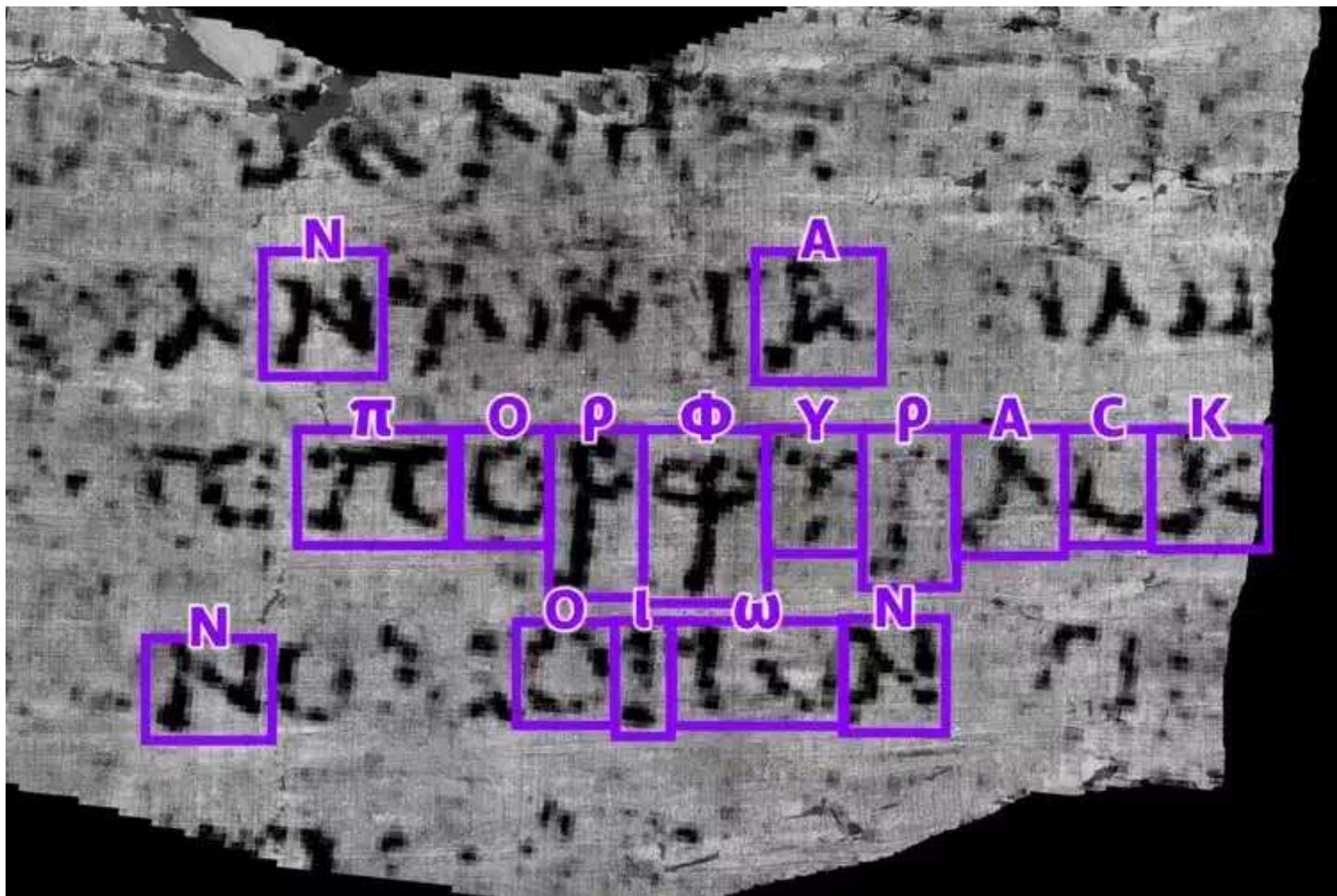
- Microsoft will pay \$15,000
Get Bing AI to “go off the rails
- Face unlock Pixel 8 brothers
- California speeding drivers with cameras
- Apple *video reactions* video therapy sessions



Current Issues



AI reads 'unreadable' ancient scroll



- 7 TB per glass sheet
- Data integrity 10,000 years
- Magnetic storage refresh 5 years
- Glass resistant to water, electronic pulses, temperatures, surface scratching, ...
- Improved writing speeds

Microsoft Project Silica

- AI photo editors “do more, effortlessly”
- Photos ~~worth a thousand words~~
worth a thousand fictions

None of our photos are real

- “Data Selfie”
- Chatbots “guess” PPI
innocuous conversations based on training
“caught morning tram”

- Harvard magazine reports:
“what transpired that day was a sobering glimpse of a not-too-distant future when AIs can find and exploit vulnerabilities with superhuman speed, scope, scale, and sophistication. These future AI hackers won't be limited to computers. They will hack financial, political, and social systems in unimaginable ways — and people might not even notice until it's too late.”

Cyber Grand Challenge

- Helpful < - > Harmful
- Awareness, Preparedness, Understanding

Computer Club, Help Center, SIGs,
Presentations, classes

Cyber Security SIG meetings, NEWSBLOG
Internet

- Questions, suggestions, comments?

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