Cybersecurity for (Nearly) Zero Dollars

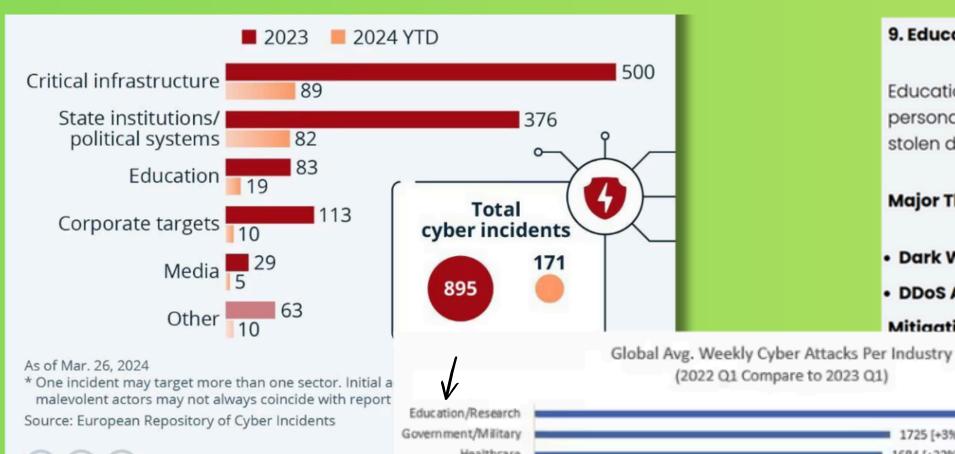
Joshua Martin

"System Administrator" - Philomath School District

HVAC Server

- On Facilities Manager's Desk
- Open Door
- 2010 Hardware
- Windows Server 2008
- No Disk Encryption
- Not Domain Joined
- HVAC\Administrator
- Password: 1234
- No Antivirus/EDR
- Not Domain Joined
- No System Monitor/AlertsNo backups
- 24/7 3rd-Party Remote Access
 No Network Isolation





Finance/Banking

Retail/Wholesale

Insurance/Legal

SI/VAR/Distributor

Transportation

9. Education: Hubs of Knowledge and Innovation

Educational institutions, particularly universities, are increasingly targeted for their intellectual property, personal data, and operational vulnerabilities. Attackers often aim to disrupt operations or monetize stolen data on the dark web.

Major Threats:

- Dark Web Exploitation: Selling stolen academic research and personal data.
- DDoS Attacks: Crippling online learning platforms and administrative systems.

Mitigation Strategies:

plement robust cybersecurity frameworks, including identity lar security awareness training. Strong network segmentation and o help reduce exposure to cyber threats. Communication

Three industries stand out as key targets in the first half of 2023: technology, energy and education, according to recent analysis by Gatewatcher.

Schools and colleges are top targets of cybercriminals in 2024 Average weekly attacks on educational institutions are up 37% so far this year.

Gatewatcher CEO Jacques de la Riviere tells ITPro that schools and

universities "suffer from a significant and recurring lack of resources,

investment, and staff - and they offer criminals a lot of return".

"There is access to a database of student and teacher accounts, confidential information that could be resold and technological and engineering data at research establishments."

Education

Why Education Is a Prime Target

Educational institutions, from schools to universities, have become prime targets for cybercriminals due to the vast amount of personal data they store. Students' personal information, academic records, and financial details are valuable to attackers, particularly those seeking to exploit vulnerabilities in legacy systems or unsecured networks.

Higher education institutions are often targeted by Ransomware and phishing attacks, with the disruption of research and academic resources being a significant concern. Moreover, the decentralised nature of many educational systems means that security may be inconsistent across departments.

Impact of Cyberattacks on Education

Internal Vulnerability Scan

For

Philomath School District

November 7th, 2023

Page 35 of 35



Detailed Findings and Recommended Mitigations by Vulnerability

This section presents detailed scan results from the network mapping and vulnerability scans. Vulnerabilities identified have a recommended mitigation solution that should be considered in order to establish or maintain a secure network

olution that should be considered			
Vulnerability	Severity	CVSS	Recommendation
Microsoft SQL Server Unsupported Version Detection (remote check)	Critical	10	Upgrade to a version of Microsoft SQL Server that is currently supported.
Vulnerability	Severity	CVSS	Recommendation
Mozilla Foundation Unsupported Application Detection	Critical	10	Upgrade to a version that is currently supported.
Vulnerability	Severity	CVSS	Recommendation
Unsupported Web Server Detection	Critical	10	Remove the web server if it is no longer needed. Otherwise, upgrade to a supported version if possible or switch to another server.
Vulnerability	Severity	CVSS	Recommendation
Apache Log4j SEoL (<= 1.x)	Critical	10	Upgrade to a version of Apache Log4j that is currently supported.
Vulnerability	Severity	CVSS	Recommendation
Microsoft .NET Core SEoL	Critical	10	Upgrade to a version of Microsoft .NET Core that is currently supported.
Vulnerability	Severity	CVSS	Recommendation
ASP.NET Core SEoL	Critical	10	Upgrade to a version of ASP.NET Core that is currently supported.
Vulnerability	Severity	CVSS	Recommendation
Unsupported Windows OS (remote)	Critical	10	Upgrade to a supported service pack or operating system
Vulnerability	Severity	CVSS	Recommendation
SSL Version 2 and 3 Protocol Detection	Critical	9.8	Consult the application's documentation to disable SSL 2.0 and 3.0. Use TLS 1.2 (with approved cipher suites) or higher instead.
Vulnerability	Severity	CVSS	Recommendation
Google Chrome < 119.0.6045.105 Multiple Vulnerabilities	Critical	9.8	Upgrade to Google Chrome version 119.0.6045.105 or later.
Vulnerability Mozilla Firefo	Severity	CVSS	Recommendation

Vulnerability Curl 7.69 < 8 Buffer Overfl

Vulnerability KB5031364: 2022 / Azure 22H2 Securit (October 202

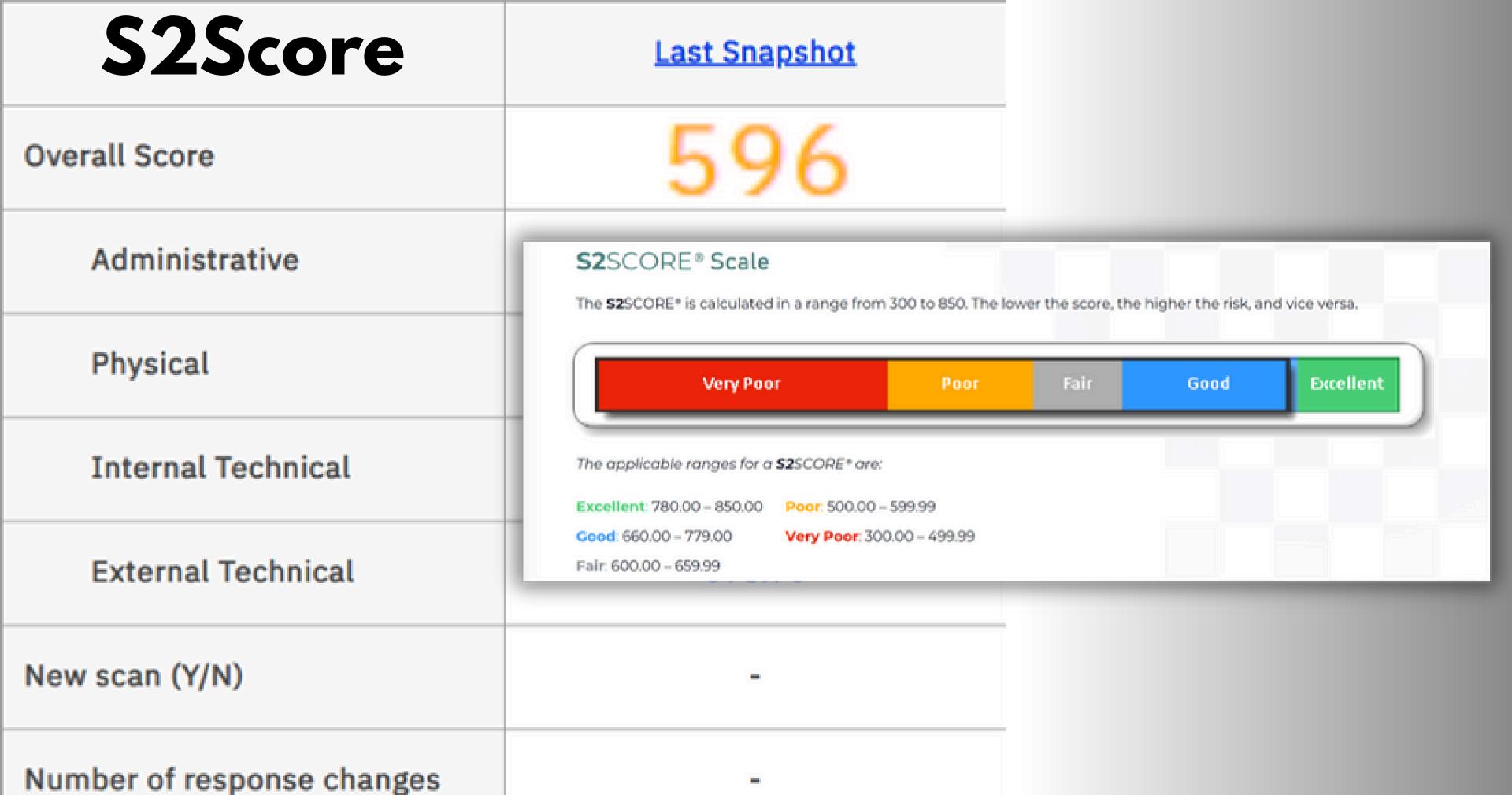
Vulnerability Mozilla Firefo Vulnerability Microsoft Me Queuing RC8 21554, Queu

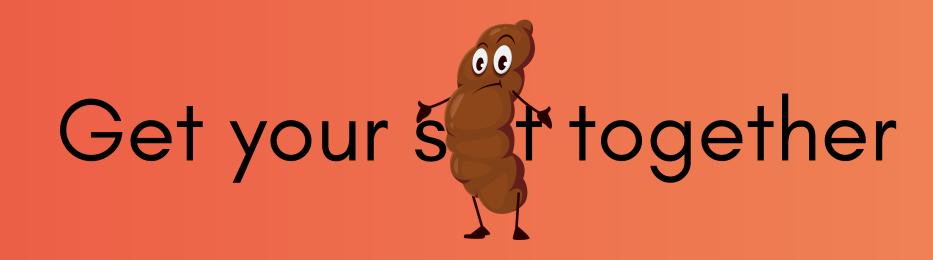
Vulnerability Apache Log4 Vulnerabilities



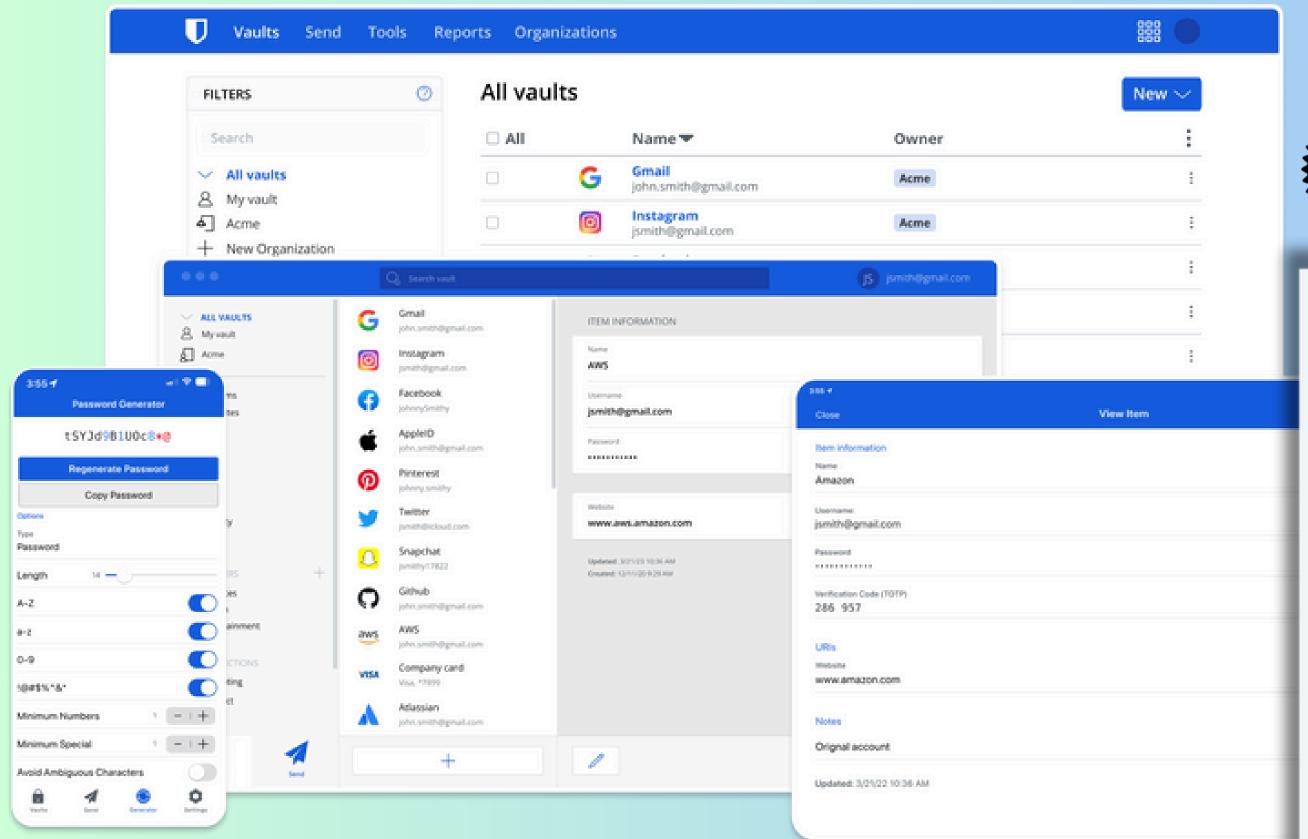
LINN BENTON LINCOLN EDUCATION SERVICE DISTRICT

to https://logging.apache.org/log+y/z.x/security.html for the latest versions.





- IT Logins/Passwords/Credentials
 - Service Accounts
 - Tech Accounts
 - Generic Superadmin
 - Generic/Shared Accounts
- Apps & Services



Dbitwarden







Remember email Continue	(Email address (required) russianhacker@microssoft.biz
Continue	~	Remember email
		Continue

Create account

Vaultwarden Web 2025.7.0

A modified version of the Bitwarden® Web Vault for Vaultwarden (an unofficial re Vaultwarden is not associated with the Bitwarden® project nor



- 1. Generic SuperAdmin for All the things!
- 2. One account per thing.
- 3. MFA All the things!
- 4. Obvious names
- 5. SSO for everyone else!
- 6. Strong passphrase/password
- 7. Least-privilege
- 8. No shared staff accounts

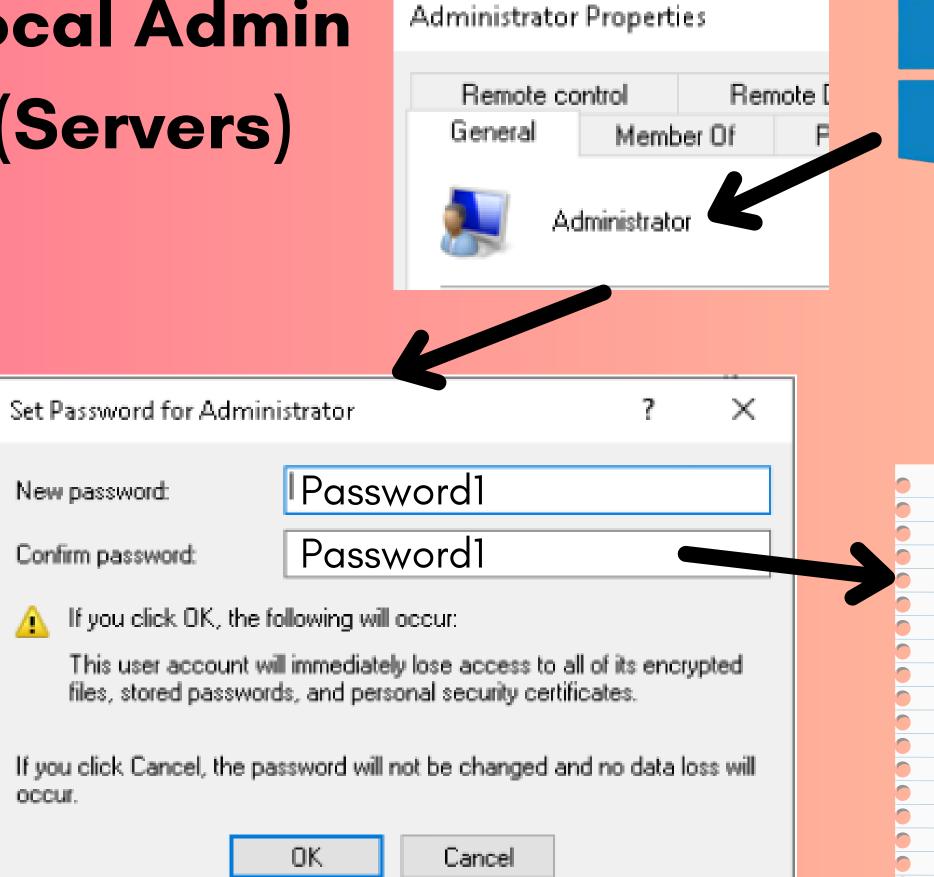
Account Type	Permissions	Generic?	Provisioned?	SSO?	MFA?
Service	?	Yes	No	No	Yes
SuperAdmin	Α	Yes	No	No	Yes
Tech Admin	В	Maybe	Maybe	Maybe	Yes
School Admin	С	No	Yes	Yes	Yes
Specialized Staff	D	No	Yes	Yes	Yes
Staff	E	No	Yes	Yes	Yes
Students	F	No	Yes	Yes	No

SuperAdmin (Web Apps)

• Email: BingBong.Adminephilomath.k12.or.us



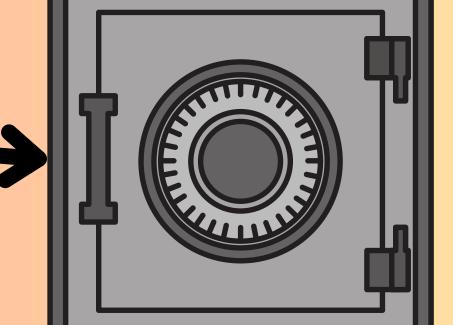
Local Admin (Servers)





root@pve:~# passwd New password: Password1 [Retype new password: Password1 passwd: password updated successfully root@pve:~#

Password1



"SuperAdmin" (Workstations)



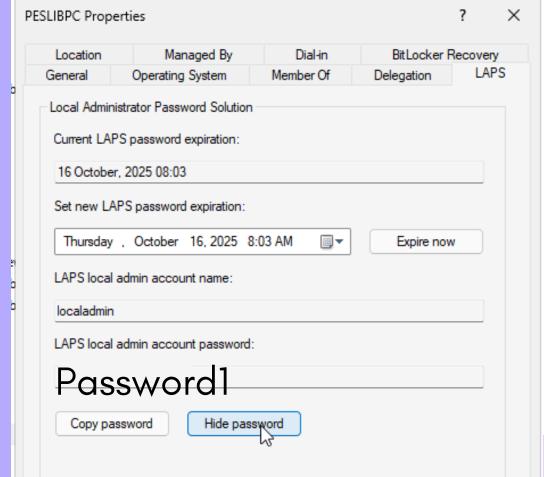
Microsoft LAPS: Install and Setup Guide

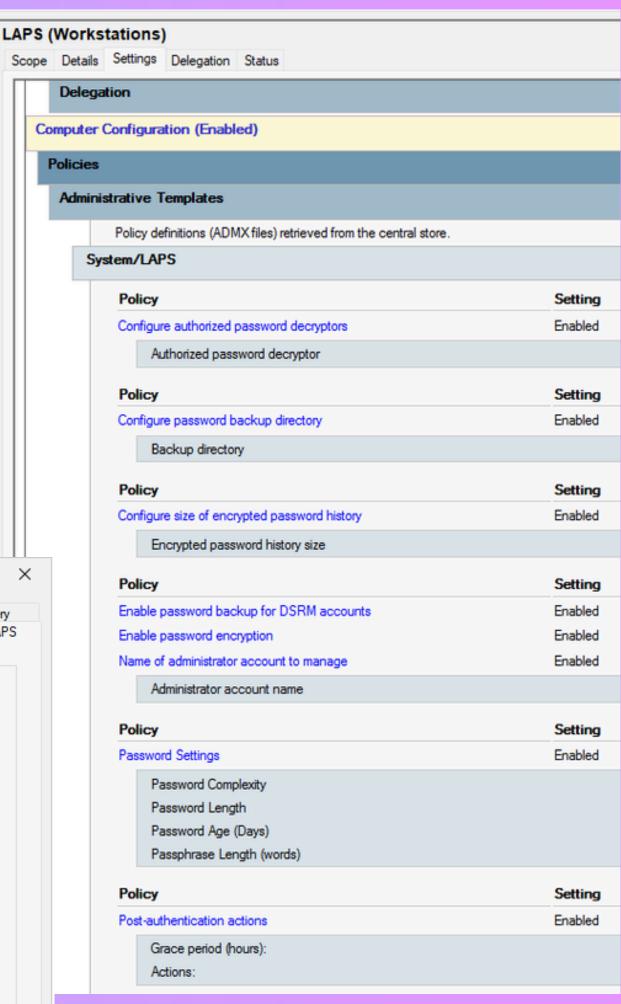
Step 1: Install Microsoft LAPS Software on Management Computers

Learn / Windows Server / Identity and access /

What is Windows LAPS?





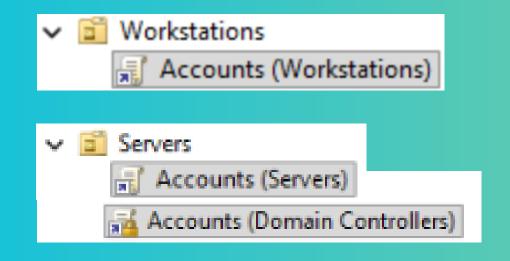


IT Admin Accounts

- Domain Admin
- Server Admin
- Workstation Admin
- Entra Admin
- Google Workspace Admin







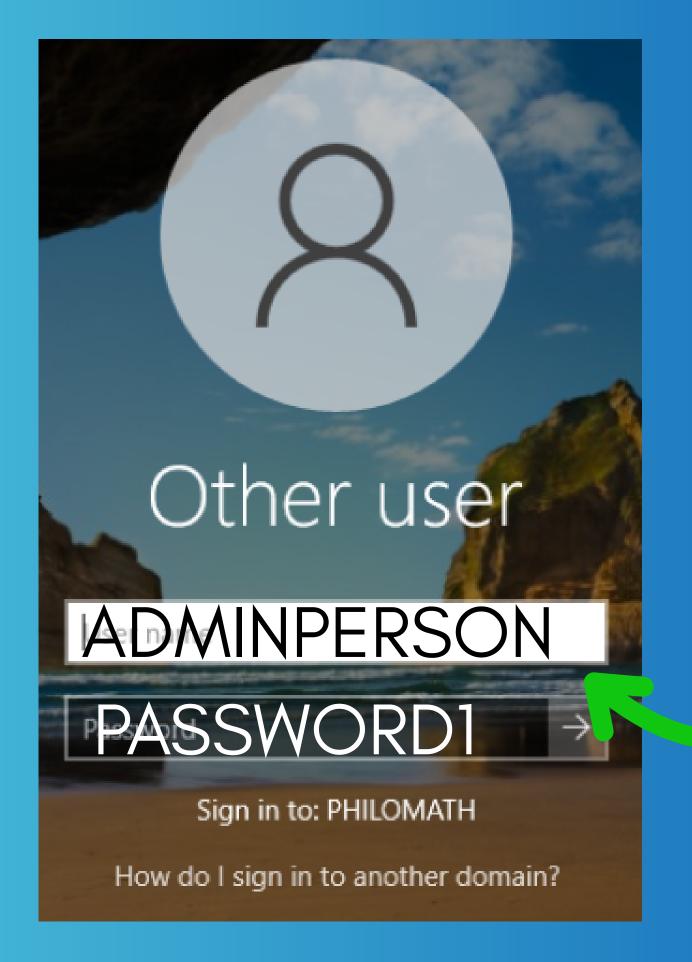
Comp	uter Configuration (Enabled)
Poli	cies
W	indows Settings
	Security Settings
_	Local Policies/User Rights Assignment
	Policy
	Deny log on as a batch job

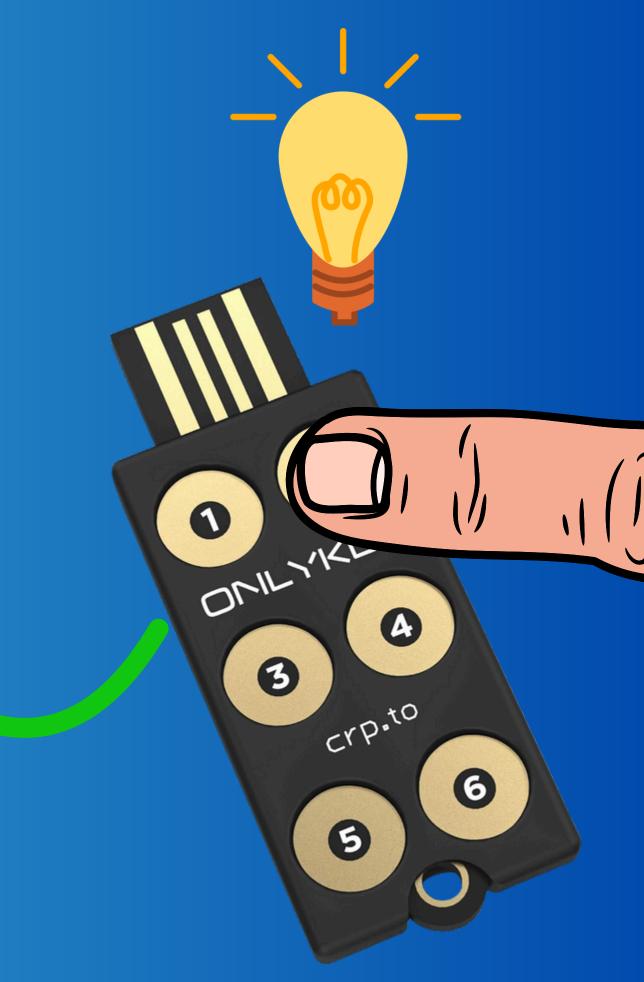
Domain Admins
Server Admins
Workstation Admins

Policy	
Deny log on a	s a batch job
Deny log on a	s a service
Deny log on lo	ocally
Deny log on th	rough Teminal Services

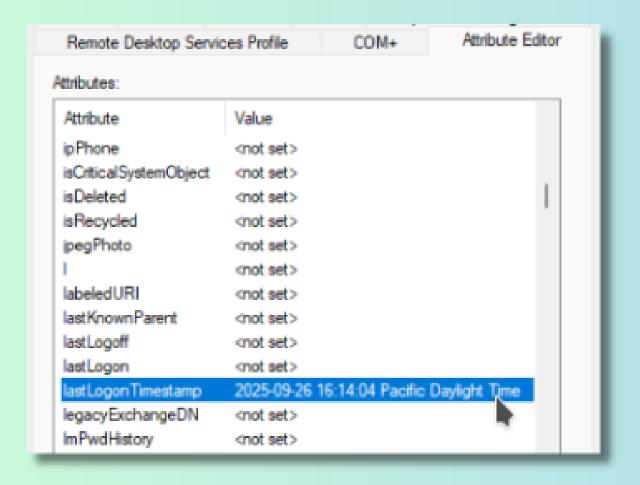
PHILOMATH\Workstation Admins, PHILOMATH\Enterprise Admins, PHILOMATH\Domain Admins
PHILOMATH\Workstation Admins, PHILOMATH\Enterprise Admins, PHILOMATH\Domain Admins
PHILOMATH\Domain Admins, PHILOMATH\Enterprise Admins, PHILOMATH\Workstation Admins
NT AUTHORITY\Local account, PHILOMATH\Domain Admins, PHILOMATH\Enterprise Admins,
PHILOMATH\Workstation Admins





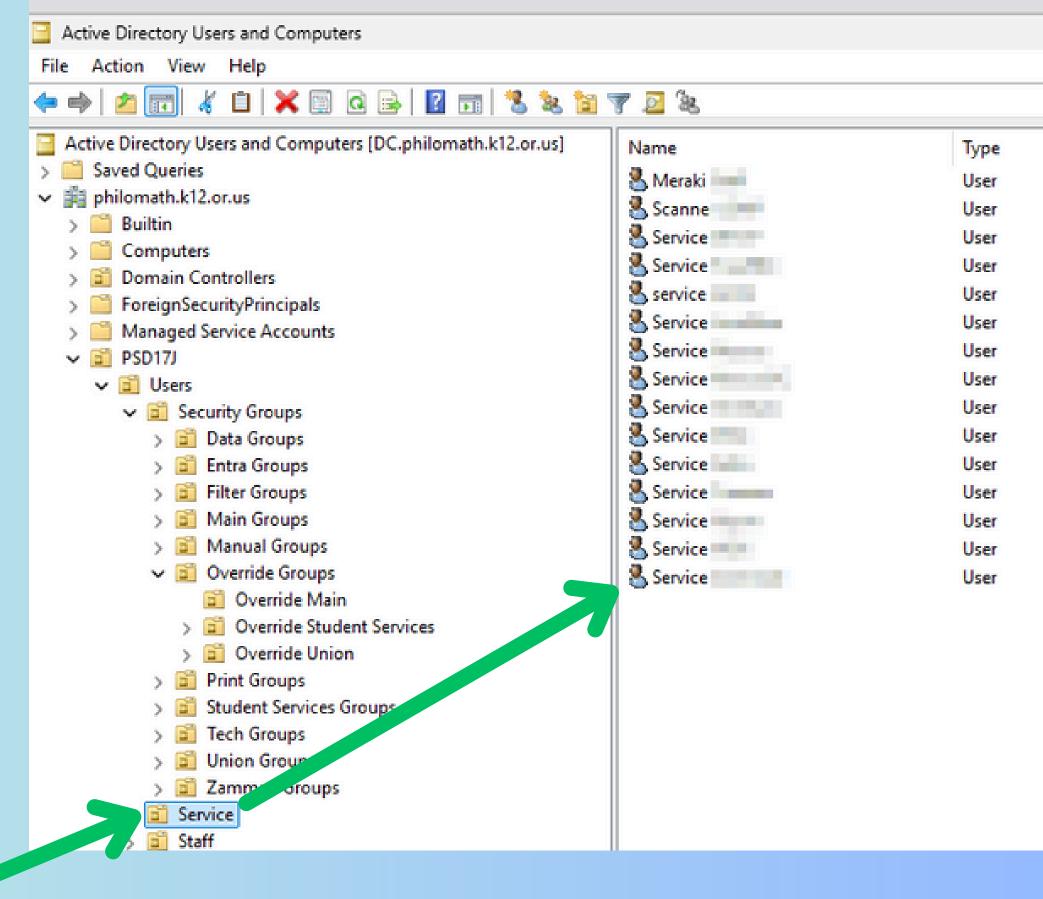


Service Accounts





Bind User PHILOMATH Service.Zammad



Generic Account Emails







Adobe Admin

the state of the s

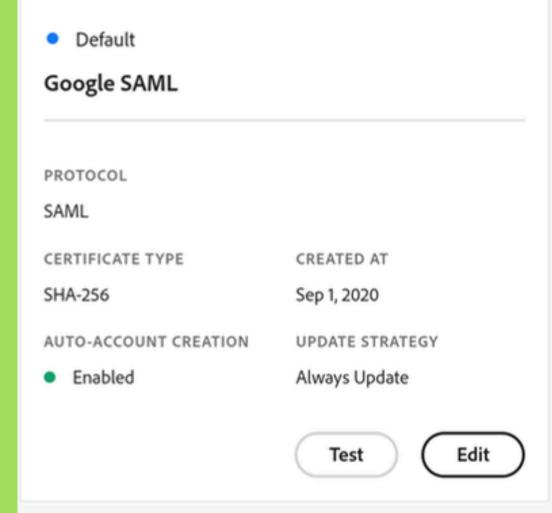
Active

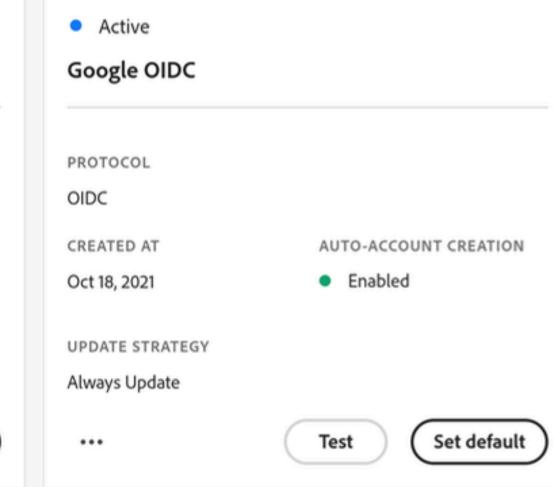
Last sign in: A month ago Created: Mar 28, 2023

Organizational unit

philomath.k12.or.us > Service



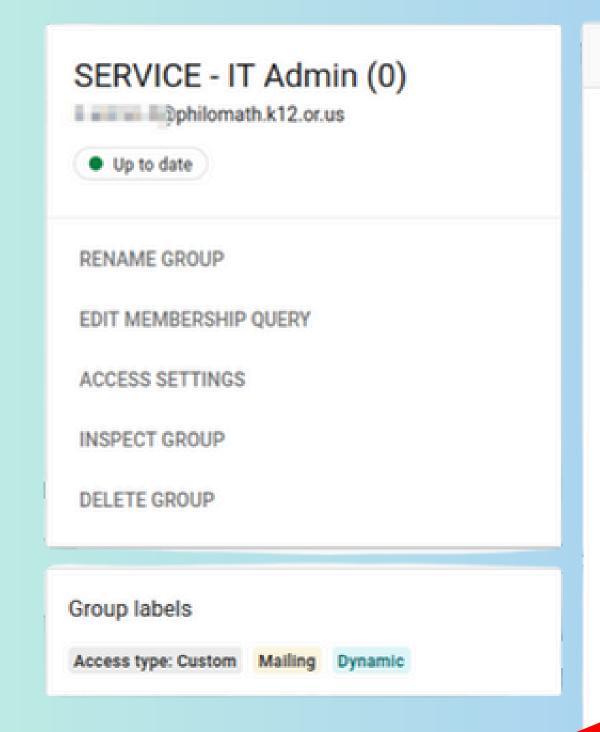


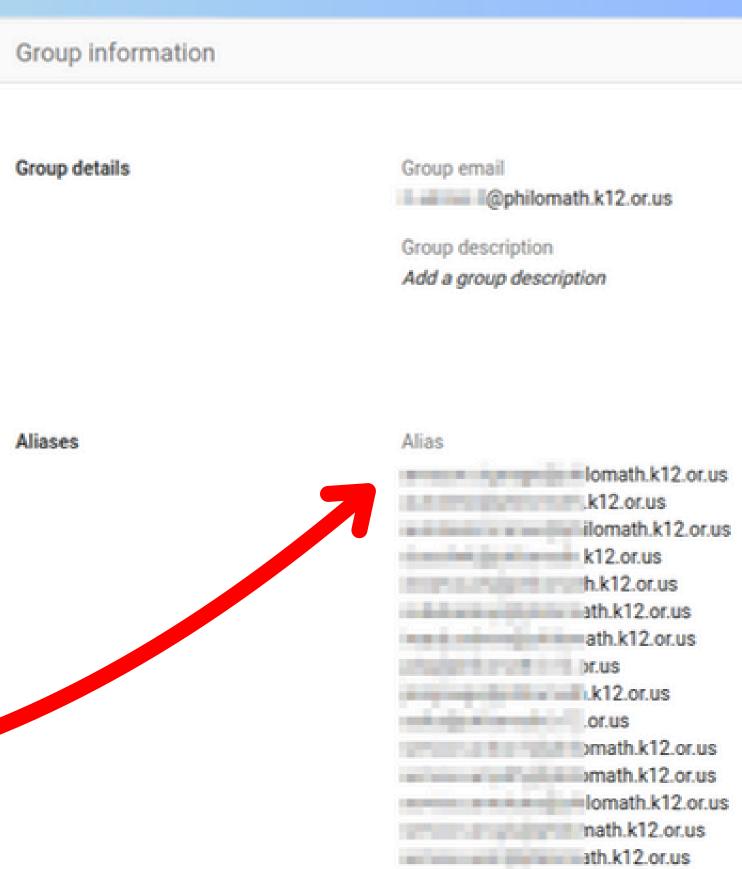




🔅 CANVAS Parent of a Canvas User? **Click Here For an Account** Login such.admin@philomath.k12.or.us **Password** 1...... Stay signed in Log In Forgot Password? Help Privacy Policy Cookie Notice Acceptable Use Policy <u>Facebook</u> X.com * INSTRUCTURE Meet the Instructure Learning Platform: <u>Canvas LMS</u> <u>Mastery Connect</u> <u>Elevate Analytics</u> <u>Impact</u>

Google Group Alias:



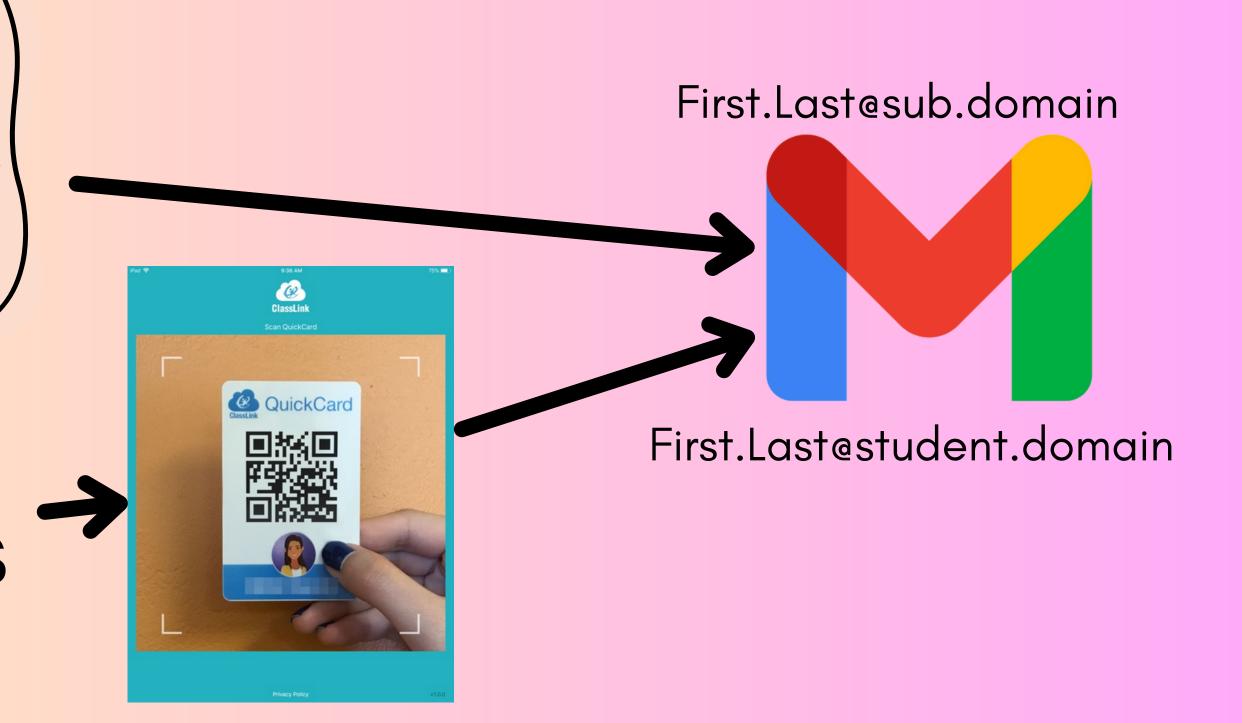


philomath.k12.or.u

Generic Staff Accounts

- Substitutes
- Student Teachers
- Volunteers

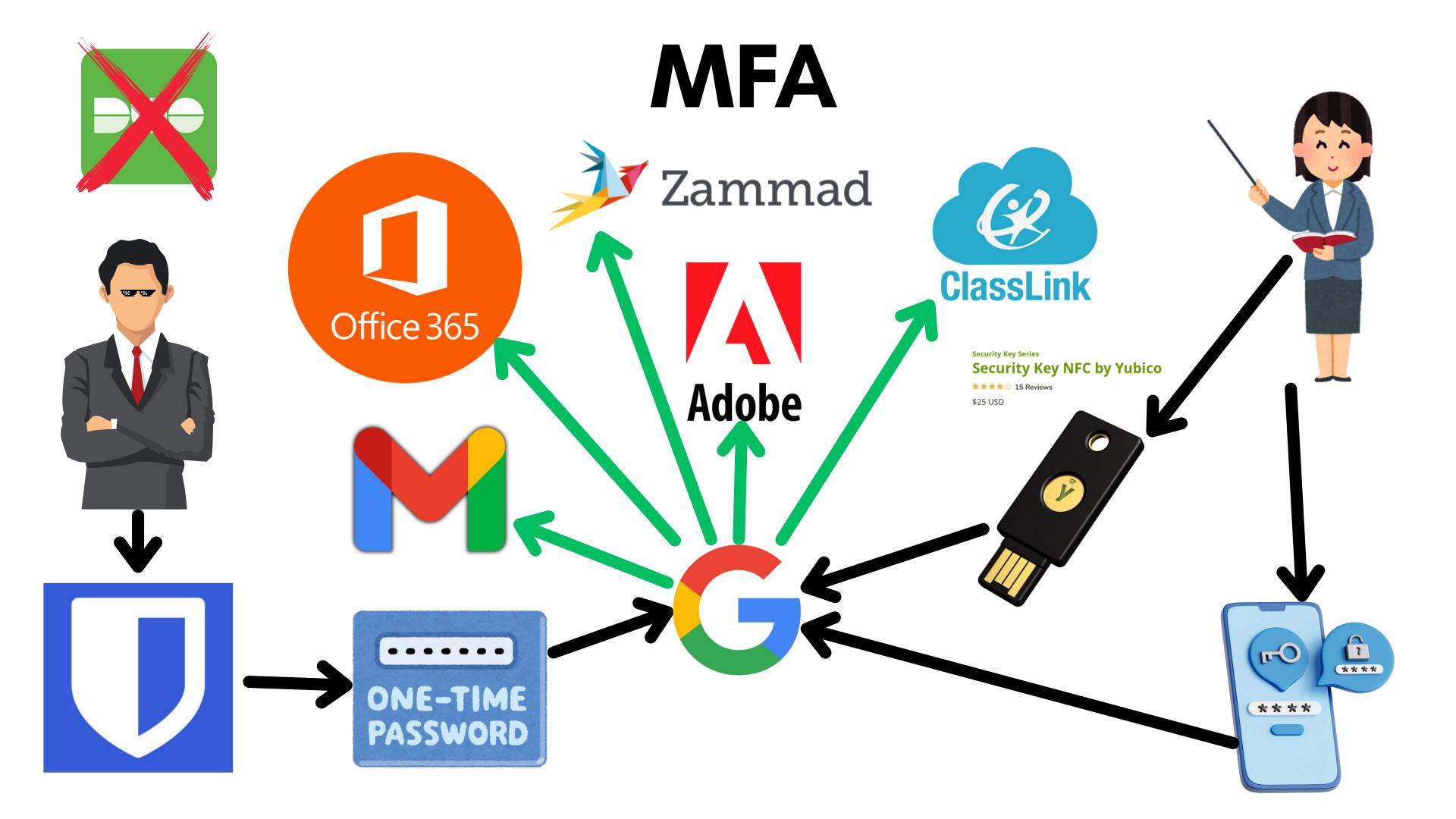
K-2 Students



Scream Test!

- Mostly a last resort
- Mind your timing
- Disable, don't delete
- Have a backout plan





Hello Philomath!!

Josh here with the Tech Department.

Today I would like to talk about **Two-Factor Authentication**, (Also known as **2FA**, **Multi-Factor**, or **MFA**.)

You may have heard whispers about it, and to some it may seem like a big scary monster, but here's the truth:

Most of you are using 2FA already somewhere, whether you know it or not.

In it's simplest form, after you enter your password, you will receive a text message with a code. Enter that code and you will be logged in.

Many banks and other institutions have required it for years now, and with good reason...

Two-Factor Authentication:

- Takes a whopping 90 seconds to set up. (we cough)
- Reduces the likelihood of your account being compromised ("hacked") by over 90%
- Will soon be mandatory for all staff to maintain PACE insurance compliance.

I highly recommend you get ahead of the curve and enable it now, before it becomes mandatory.

Here is the setup Guide! (5 steps. 90 Seconds.)

(Marning: The following contains my opinion. This is not intended to diagnose, treat, or cure any virus in humans or computers.)

I'm gonna be real with you about phones...

I know some folks have a lot of reservations about the phone situation. While I understand the initial skepticism, these concerns are largely unfounded. In fact it's ironic that anyone is distressed about using SMS to their phone, since it's technically a slightly less secure option (but still plenty for our purposes.) We elected allow the use of personal phones for everyone's convenience.

There are dozens of other districts who have run into these same hundles, and they all had the same experience; They enforce two-factor, but no one wants to use their phone, either on principle or because they have misunderstandings about the technology, so the district spends a ton of money on physical security keys, and a month later everyone flips to using their phone because it is so much more convenient with zero downsides. From the numbers I know about, if you choose to use a security key, the likelihood that you'll still be using it 90 days from now is less than 1%.

Do with that information what you will.

Personally, I don't really care what people choose. It's not my money, and physical security keys are super secure, they're just inconvenient. I use one, but I'm a security nut, and admittedly sometimes it is super annoying.

[Non-Warming: The following does not contain my opinion.]

Having said all that, we strongly recommend using your personal phone for Two-Factor for a number of reasons:

- Description SEA control datase and assert as work hazard communication and your above will not be exhibit to exhaust for this pions. MOMEUSED if you about

How do I enable 2FA? (Two-Factor Authentication)

I'm sure you've all heard by now the need for Two-Factor Authentication, but as a refresher 2FA:

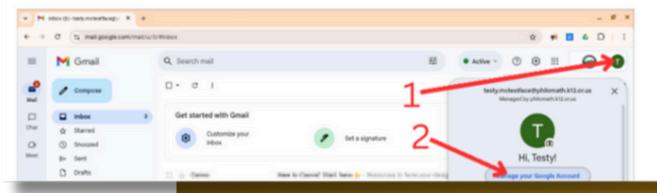
Philomath SD17J Knowledge Base 🔰 🚾 Google & GMail 🔰 🖺 How do I enable 2FA? (Two-Factor Authentication)

- Reduces the likelihood of your account being compromised by over 90%
- Is now mandatory for all staff to maintain PACE insurance compliance.
- . Takes about 90 seconds to set up.

There are multiple forms of 2FA. We highly recommend just doing "Phone Number" and getting a text message. It's the most convenient, you might get 3 or 4 texts a year, your phone number isn't used for advertising, it's not sold to anyone, the tech department can't see anything you're doing on your phone, and Google doesn't get any additional access to your phone.

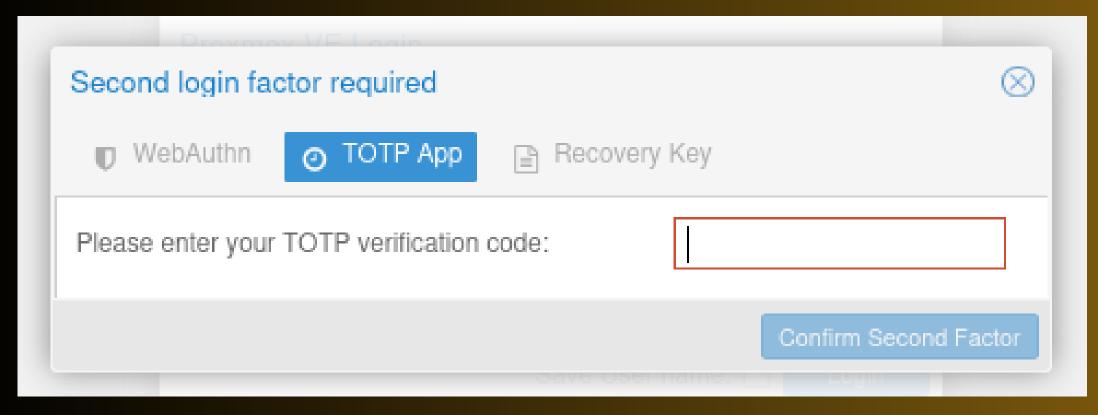
Here are the steps to enable 2FA:

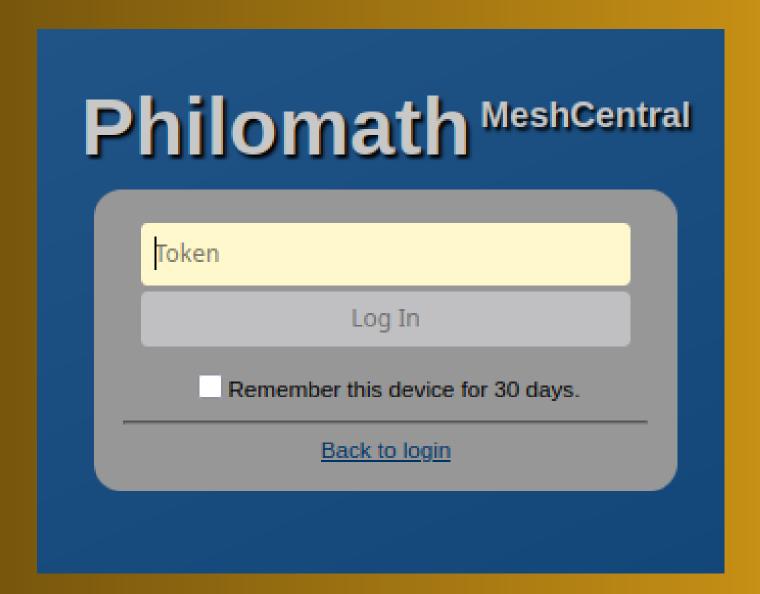
1) From GMail or Google Drive, click your little profile icon in the top-right and click "Manage your Google Account"





Proxmox





Linux

administrator@noc-josh:~\$ ssh truenas_admin@truenas-backup.philomath.k12.or.us -i truenas-backup-key-ecdsa
Enter passphrase for key 'truenas-backup-key-ecdsa':

Group Info

Non-School Locations:

- DO (District Office)
- SSO (Student Services Office)
- FO (Facilities Office)
- TO (Technology Office)
- CCP (Clemens Community Pool)

School Locations:

- CPS (Clemens Primary School)
- PA (Philomath Academy)
- PES (Philomath Elementary School)
- PMS (Philomath Middle School)
- PHS (Philomath High School)
- KVCS (Kings Valley Charter School)

Staff Positions:

- Admin
- Teacher
 - Counselor
- Instructional Assistant
- Custodian
- Media (Library)
- Office
- Kitchen
- Manager
- Nurse

Non-Staff Positions:

- Student
- Coach
- Substitute
- Student Teacher
- Board Members
- Volunteers
- External (Usually ESD)

Student Services:

- SpEd (Special Education)
 - SpEd Case Managers
 - SpEd IAs
- SLP (Speech/Language Pathology)
- ELL (English Language Learners)
- MTSS (Multi-Tiered System of Support)
 - Formerly RTII

Union/Contract:

- Licensed (PEA Members)
- Classified (OSEA Members)
- Admin
- Confidential
- Extra Duty

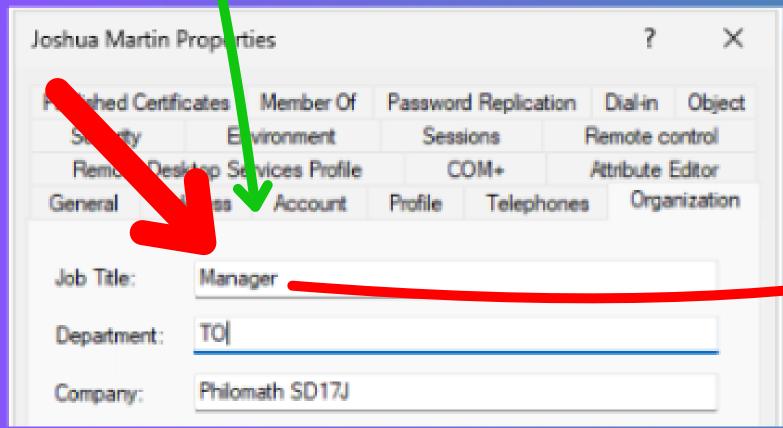
Special Cases:

- District Media
- District Kitchen
- PEA Leadership
- OSEA Leadership
- Registrars
- Campus Stewards

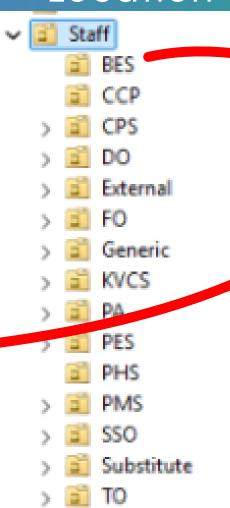
Account Creation

```
P5 C:\Windows\system32> C:\scripts\CREATE-ACCOUNT-STAFF.P51
First Name?: Potato
Potato
Middle Initial (Optional)?:
Last Name?: Potato
|Teacher|Coach|Counselor|Custodic granstructional Assistant|Kitchen|Media|Nurse|Student Teacher|Admin|Off
Position?: Nurse
Valid Locations chis position: | BES | CPS | KVCS | PA | PES | PHS | PMS |
Location?: B\S
Potato
Potato
Please Review:
Full Name:
                      Potato Potato
                      potato.potato@philomath.ks. or.us
UserPrincipa | Nam
sAMAccountName:
Mail:
                      potato.potato@philomath.k12.or.us
OU: OU=BES,OU=Staff,OU=Users,OU=PSD17J,DC-, %ilomath,DC=k12,DC=or,DC=us
DistinguishedName: CN=Potato Potato,OU=BES,OU=Staff,OU=Users, >U=PSD17J,DC=philomath,DC=k12,DC=or,DC=us
                      \\truenas.philomath.k12.or.us\staff\potapota
Home Directory:
Press Enter to Veril / User:
```

Position



Location



Union employee Type Classified

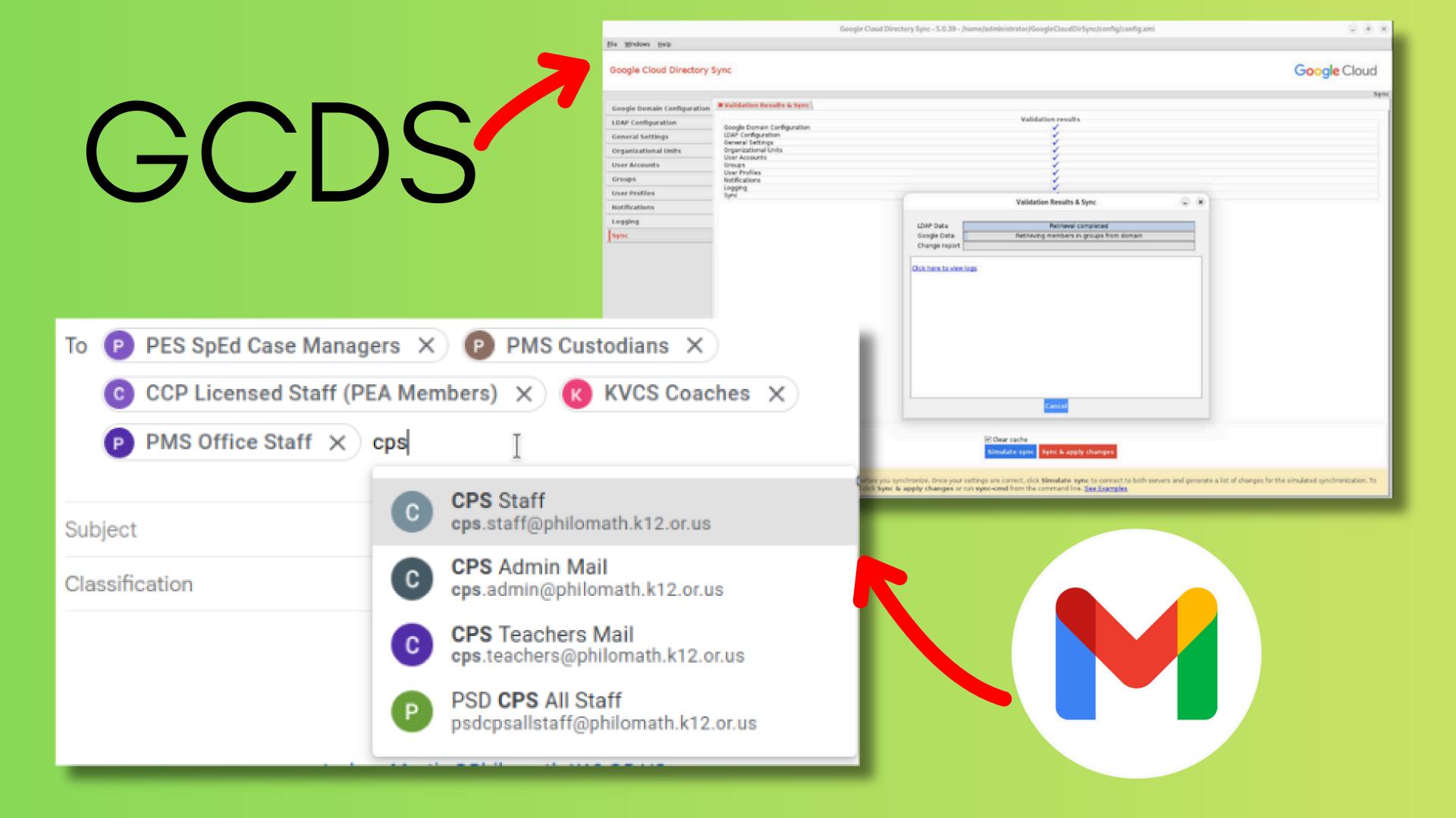
Student Services

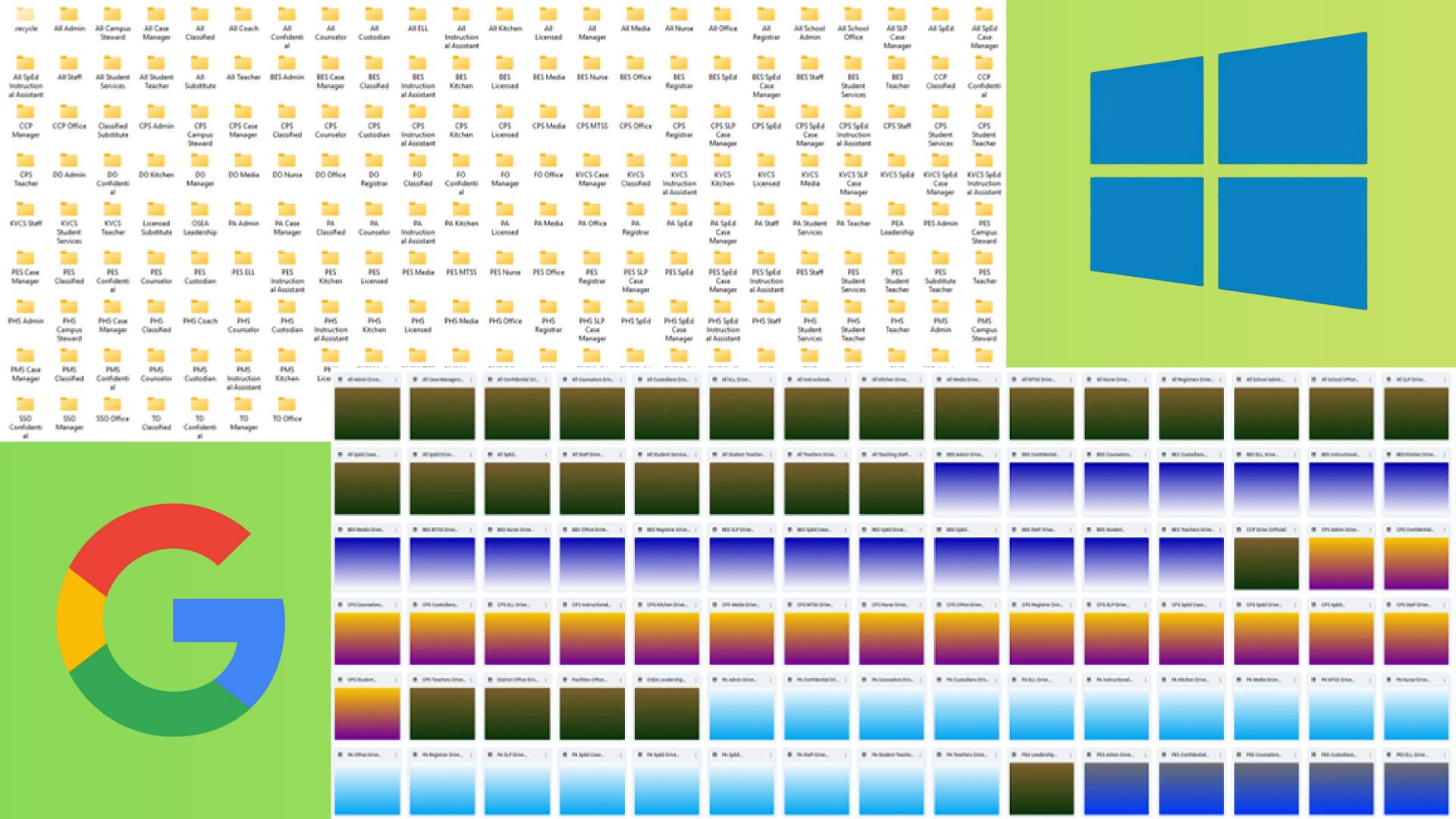
e: SpEd

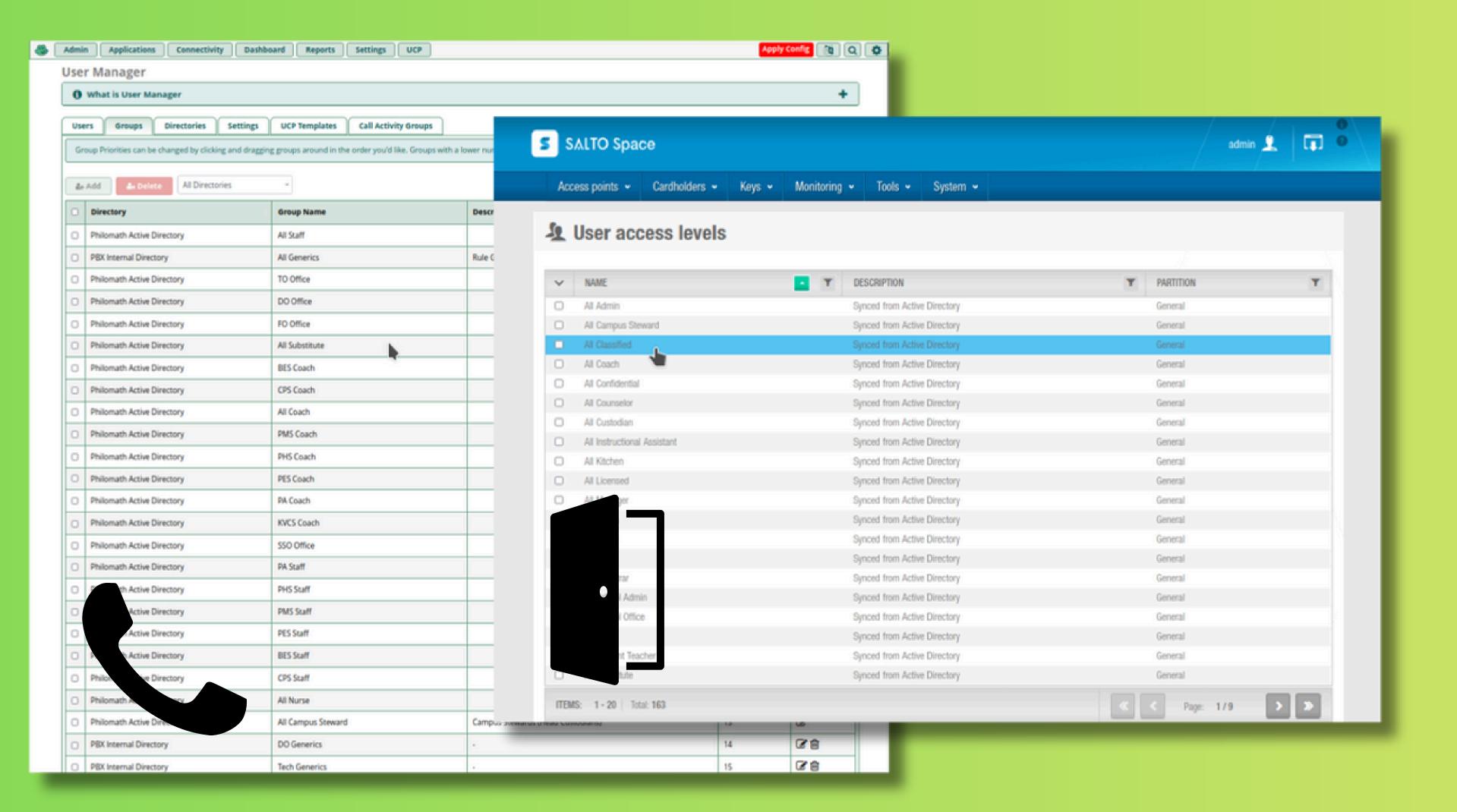
986

Populate Groups

```
PRE-GCDS-AD-SCRIPT.PS1 X CREATE-ACCOUNT-STAFF.PS1
 947
 948 ∃if ($True) {
           Start-Transcript -Path $global:LOGFILE -Force
           Delete-DisabledStaff
 951
           Delete-DisabledStudents
           Clear-PersonalData
 952
           Check-TitleOffice
 953
 954
           Set-BasicInfo
           Check-BasicInfo
 955
           Set-IPphone
 95.6
           Fix-StaffUserAccountControl
 95.7
           Set-StaffUnion
 95.8
 959
 960
           Set-EntraGroupMembers
           Set-StaffFilterGroup
 961
           Set-StaffDataGroup
 962
           Clear-MainGroupMembers
 963
           Clear-SSGroupMembers
 964
           Clear-UnionGroupMembers
 965
 966
           Set-SSGroupMembers
 967
           Set-MainGroupMembers
 969
           Set-UnionGroupMembers
 970
           Fix-UnionConflict
           Set-OverrideGroups
 971
           Set-MetaGroupMembers
 972
 973
           Suspend-InactiveComputers
 974
           Move-StagedComputers
 975
 976
           repadmin /syncall /A /e
           if ($UNATTENDED) {
 977
               Archive-StudentFolders
 978
               Create-StudentFolders
 979
               Archive-StaffFolders
 980
               Create-StaffFolders
 981
               Fix-ShareFolders
 982
 983
 984
           Stop-Transcript
           Send-SMTPReport
 985
```









How to Install GAM7

Ross Scroggs edited this page on Dec 7, 2024 · 3 revisions

Installing GAM7

Use these steps if you have never used any version of GAM in your domain. They will create your GAM project and all necessary authentications.

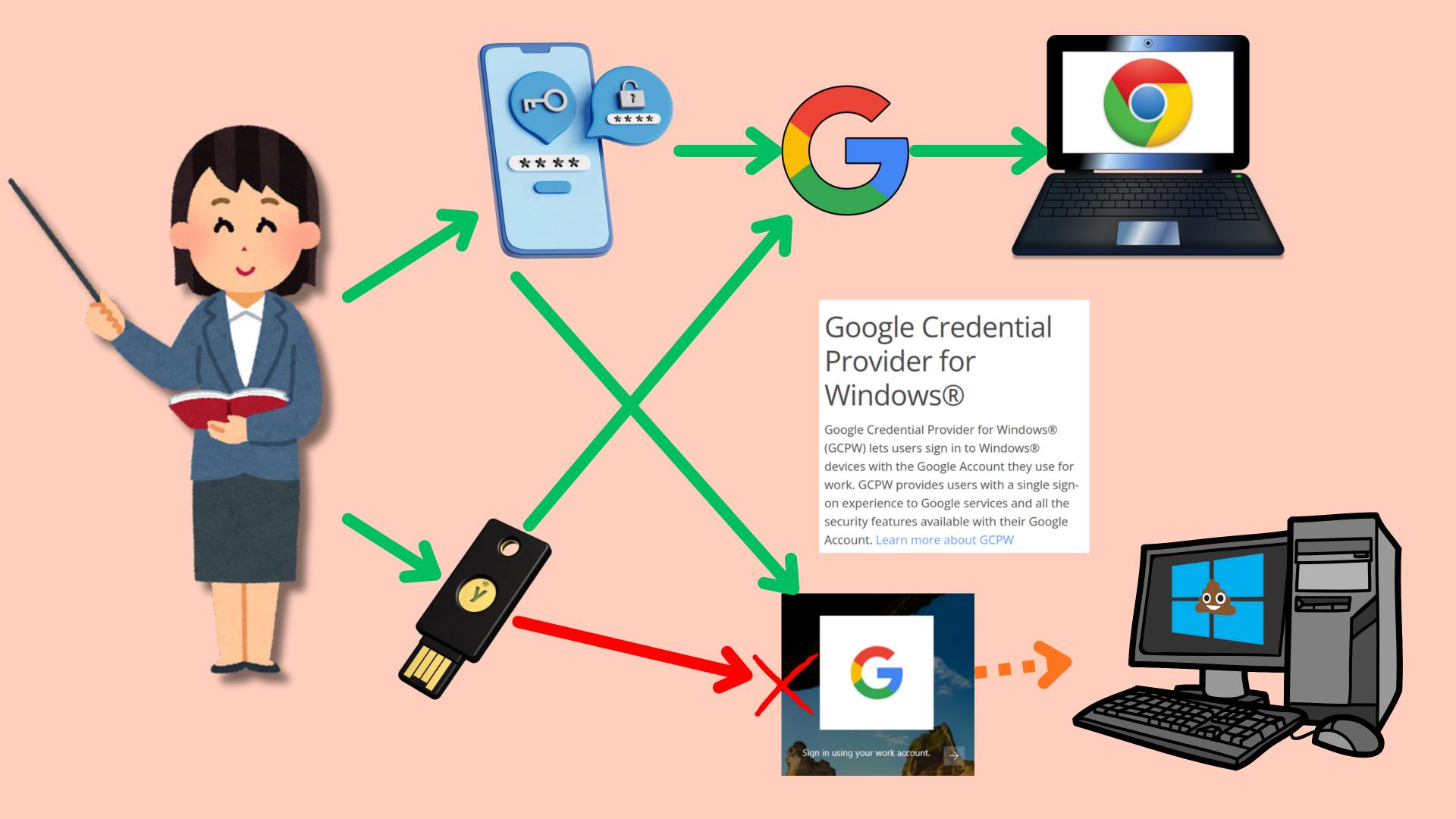
- Downloads-Installs
- Linux and MacOS and Google Cloud Shell
- Windows
- GAM Configuration

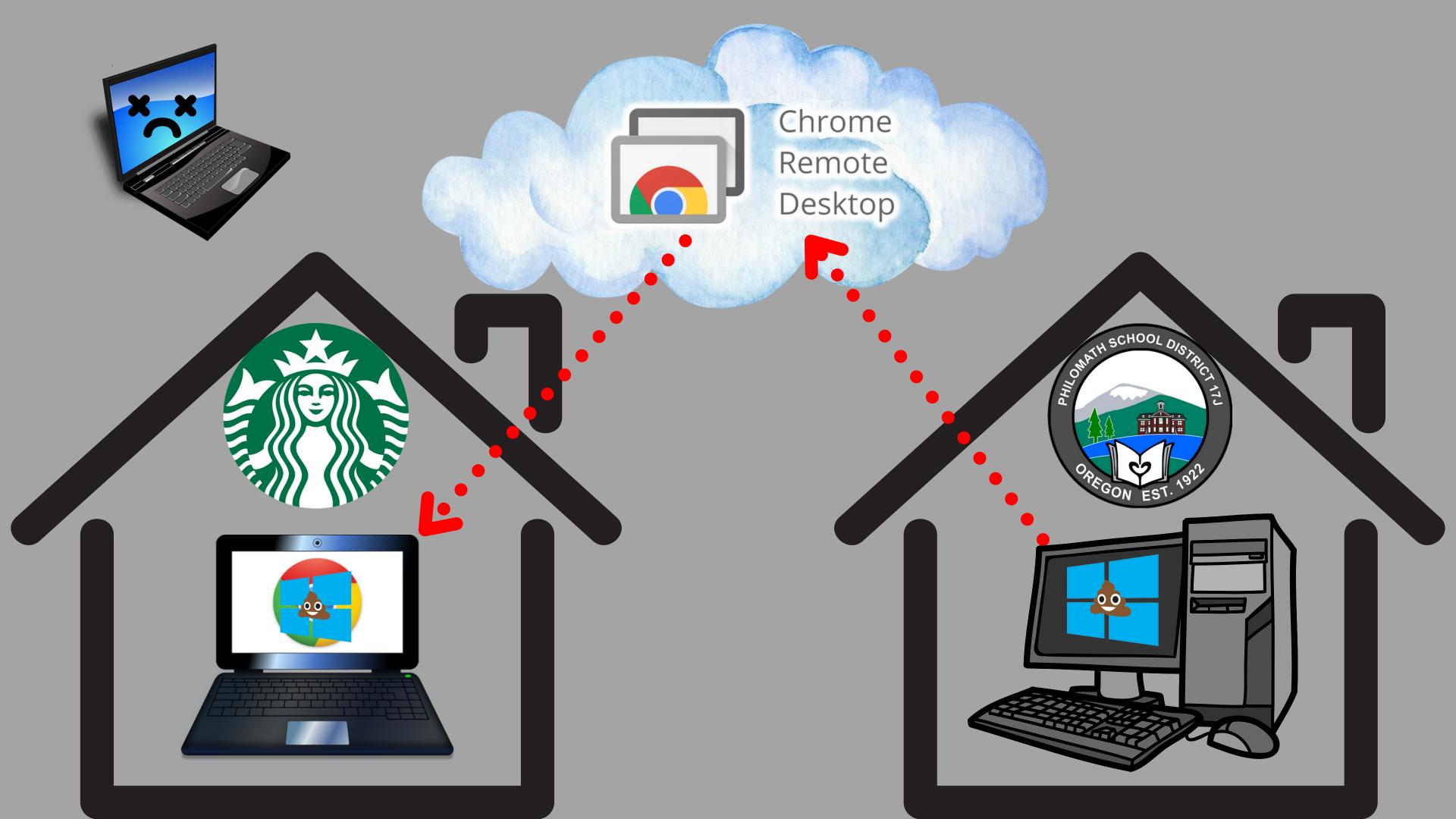
Things we do with GAM:

- Sync ImmutableID for MS365 SSO
- Take ownership of all Calendars
- Take ownership of all Shared drives
- Unshare all files owned by suspended users
- Enforce Drive Sharing Settings
- "Hide" Groups and Users

```
:=-"/home/administrator/bin/gam7/gam"
ir-"unshare-suspended-staff-files"
adir ödir
d ddir
 Empty list of users, Give it the correct headers
cho "primaryEmail" > ./users.csv
 Get a list of all suspended users in the "Staff" OU and below.
gam config csv_output_header_force "primaryEmail" redirect csv ./
 Empty list of files, Give it the correct headers
the "Owner, id" > ./files.csv
Create a list of all files owned by all users in the list
gam config cav_output_header_force "Owner,id" cav ./users.cav gam
 Empty list of permissions, Give it the correct headers
the "Owner, id, permission.role, permission.id" > ./permissions.csv
 Create a list of all permissions (ACLs Entries) for all the file:
gam config cav_output_header_force "Owner, id, permission.role, permi
 Delete all permissions other than owner/organizer (All share pers
gam config csv_input_row_drop_filter "permission.role:regex:(owner
Remove user from all groups
gam csv ./users.csv gam user "*primaryEmail" delete group
 Nove users to the arhive OU
    csv ./users.csv gam update user "~primaryEmail" org "/Staff As
```

HARDWARE











Network Changes



1. IP Schema

a. $167.x.x.x \rightarrow 10.x.x.x$

✓2. VLANs

 $a.30 \rightarrow 200+$





√3. Internet Filter

a.iBoss → Linewize





4. Network Switches

a. Cisco→ Unifi





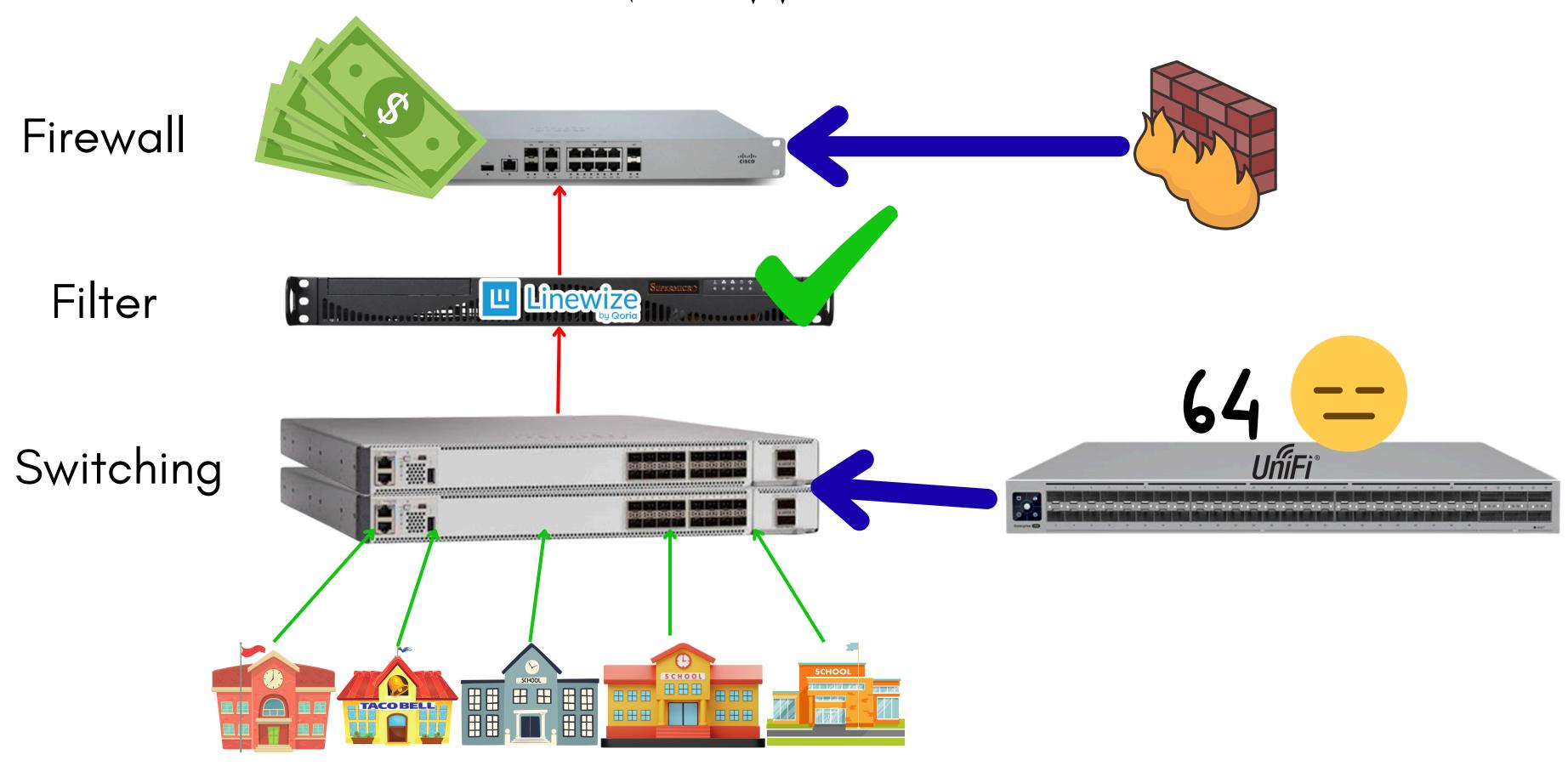
5. Firewall

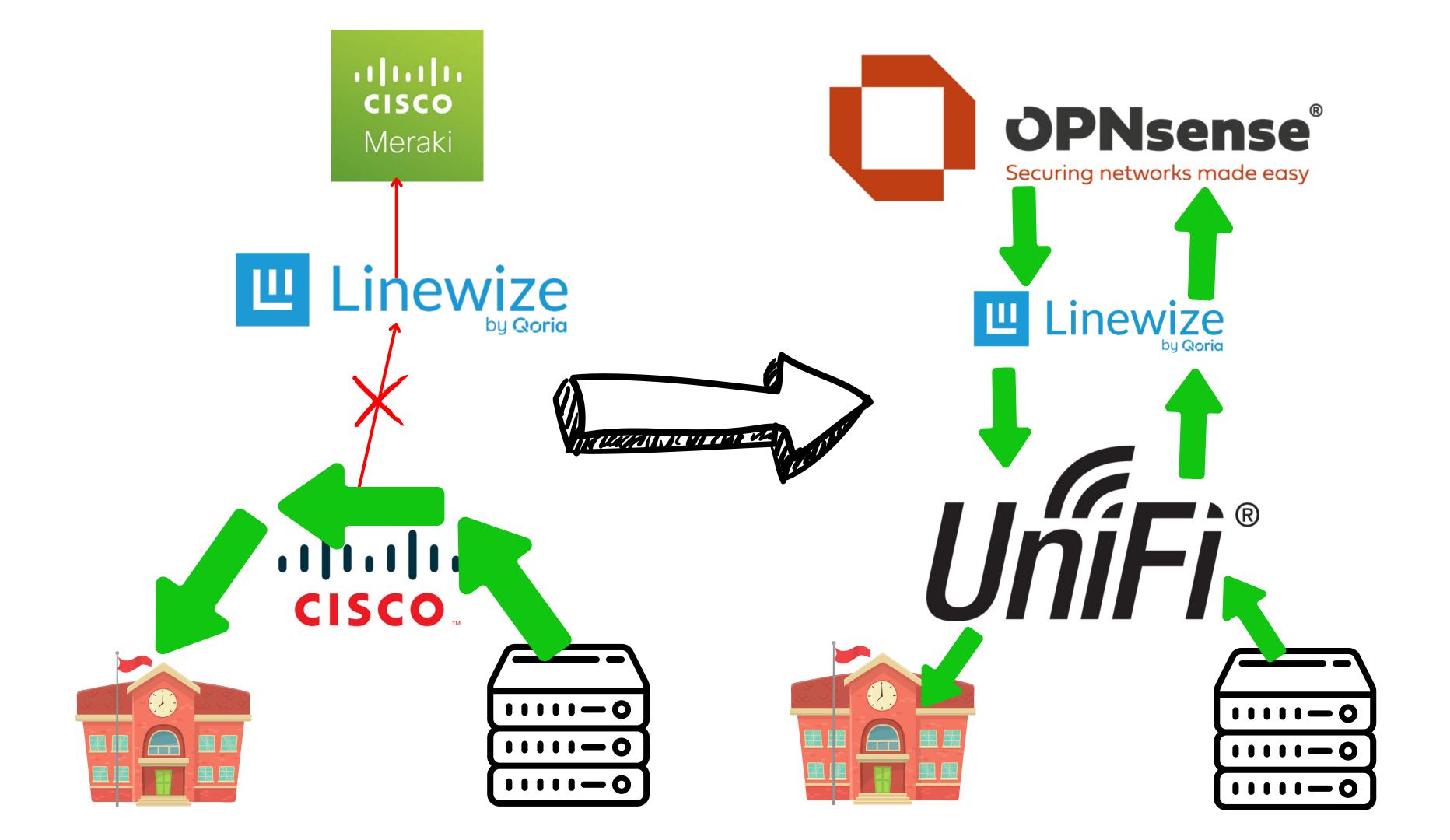
a.Meraki → OPNsense

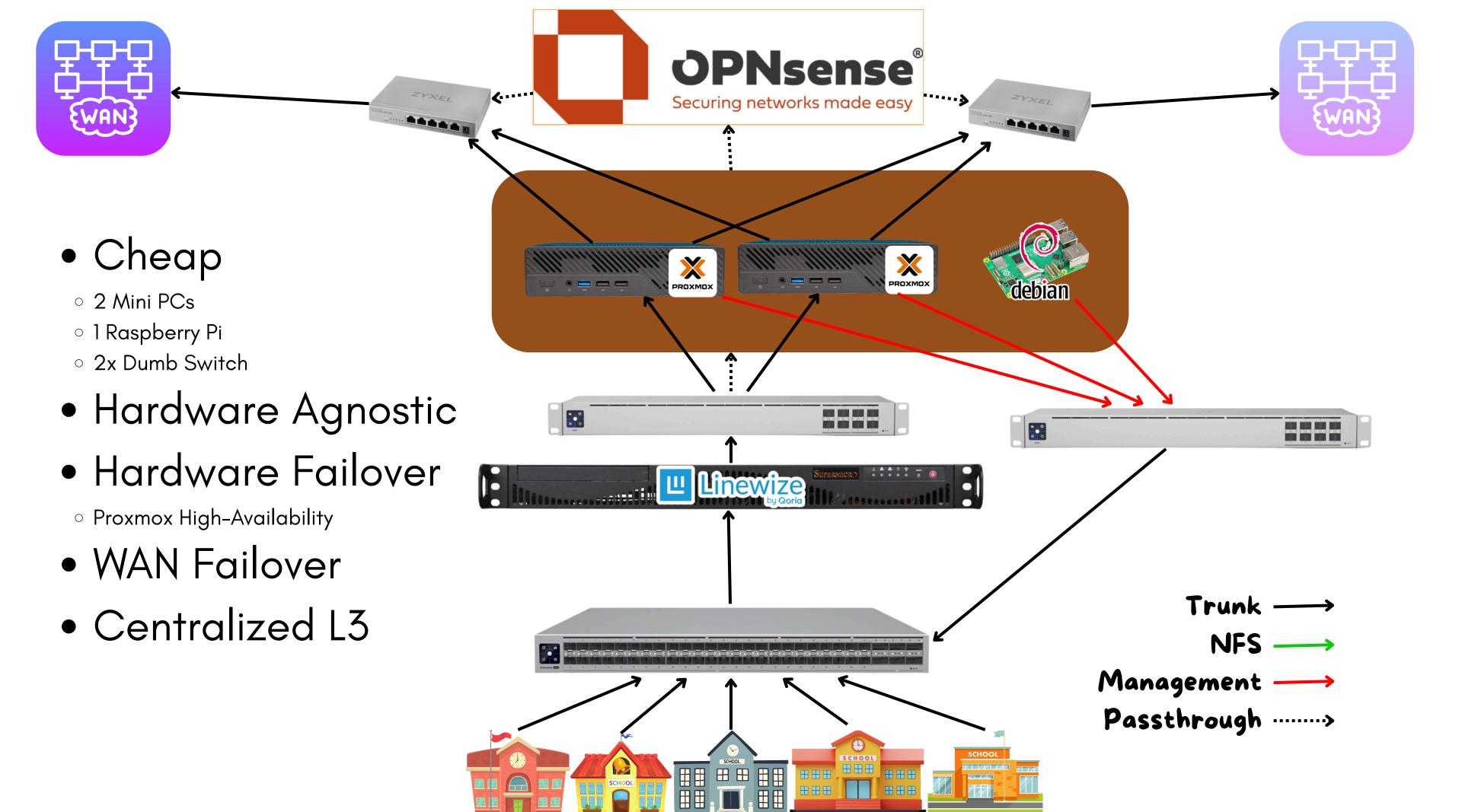




Network









Q

Firewall.



0 Dashboard 巫

License

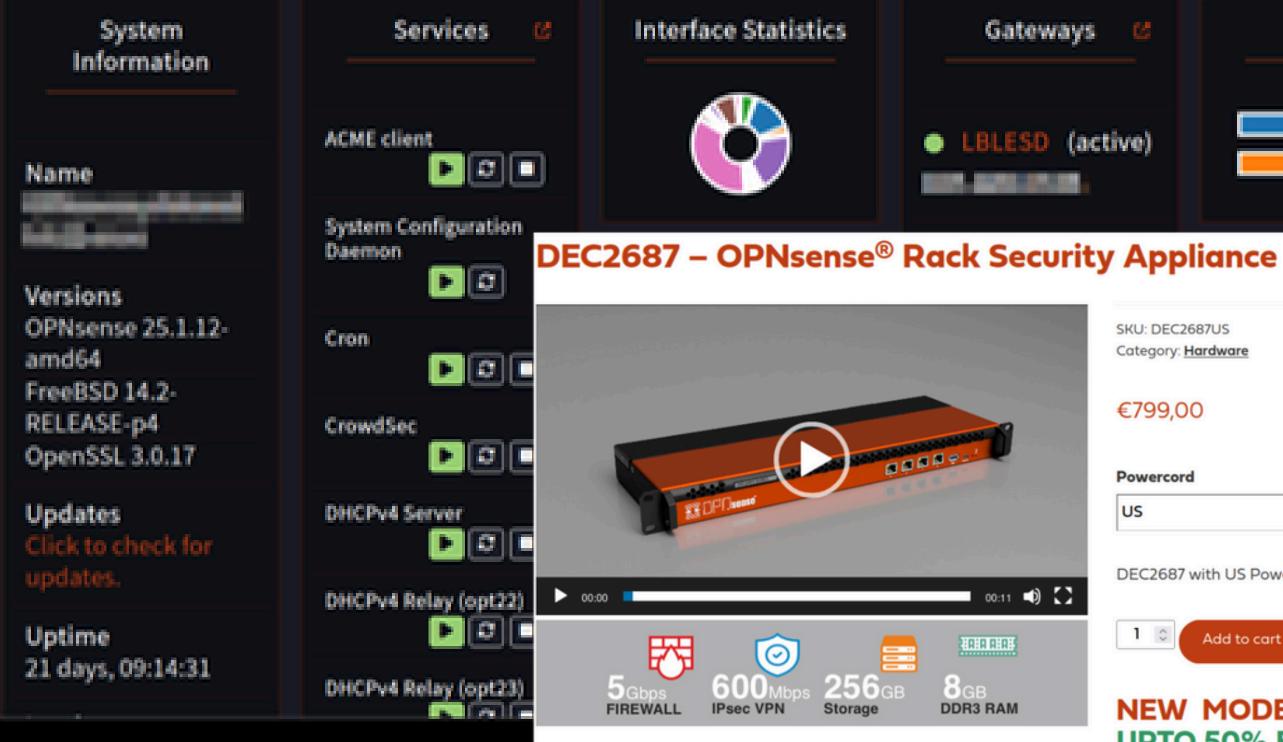
P Password

(+ Logout

- Reporting
- System.
- in Interfaces
- Firewall
- VPN
- Services
- Power
- Help

Lobby: Dashboard

OPhisense (c) 2014-2025 D



SKU: DEC2687US Category: Hardware €799,00 Powercord US DEC2687 with US Powercord Add to cart **NEW MODEL! UPTO 50% FASTER*** * Compared to the previous DEC2685 model.



Standard Stuff:

- Firewall
- NAT
- VLANs
- Traffic Shaping / QOS
- DHCP
- DNS
- Web UI + MFA + SSO

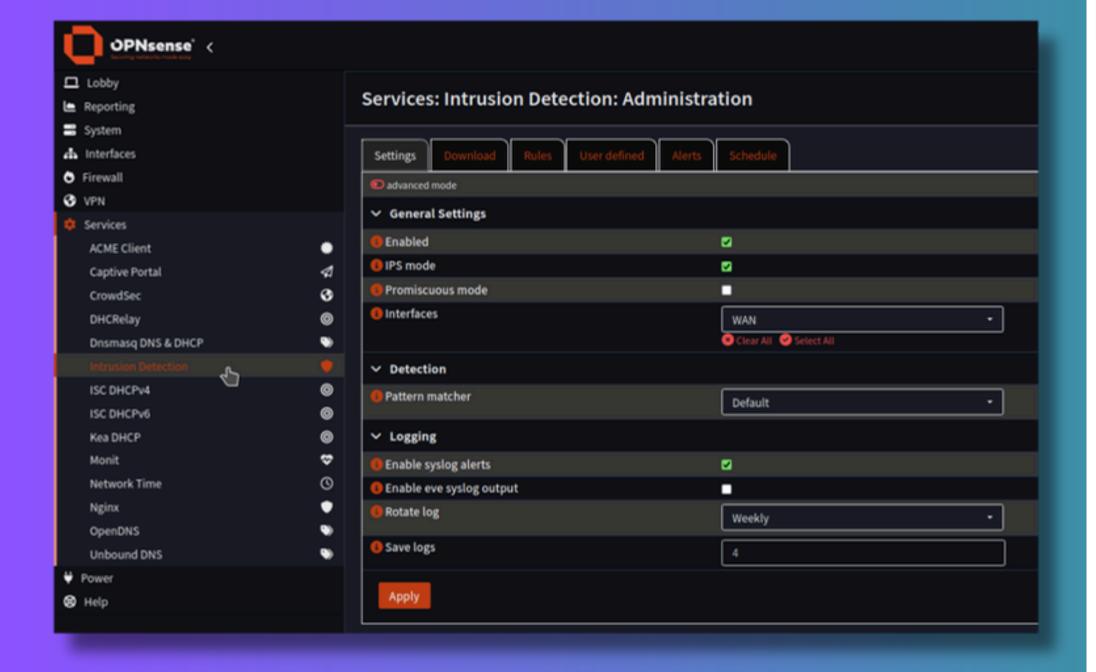
Bonus:

- Multi-WAN
- VPN
 - WireGuard
 - OpenVPN
 - IPSec
- DDNS
- ACME / CA
- NTP
- IDS/IPS
 - Suricata
 - Crowdsec
- Reverse Proxy
- Load Balancing

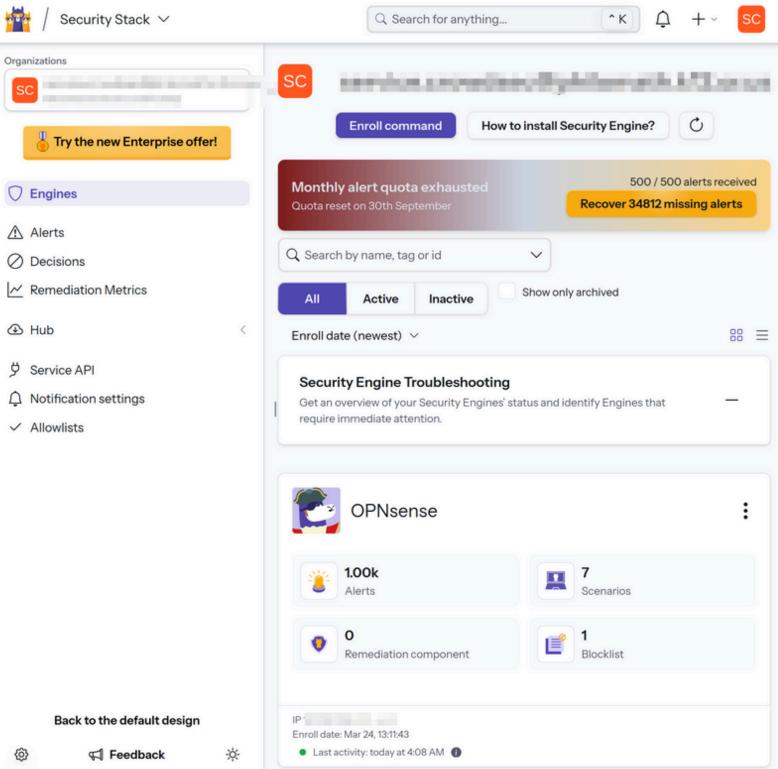
Integrations:

- Kerberos
- LDAP
- Radius
- Zabbix
- XEN
- VMWare
- NetData
- Wazuh
- Virtualbox
- QEMU
- Puppet
- NUT
- Nextcloud
- GIT
- Google Drive/Cloud
- Tailscale / ZeroTier
- Tor





CrowdSec







- VMWare → Free DELL Server + Proxmox
- \$15k Savings/yr





NAS

- Tegile → Daktech Server + TrueNAS
- \$100k+ Savings
- Use whatever drives





Phones

- Cisco CUCM → Sangoma Phones + FreePBX
- \$100k+ Savings
- Use whatever phones





- Dahua → Old Servers + ZoneMinder
- Multiple Dollars! in savings
- Use whatever cameras









debian

HypervisorNAS

Phones

Cameras

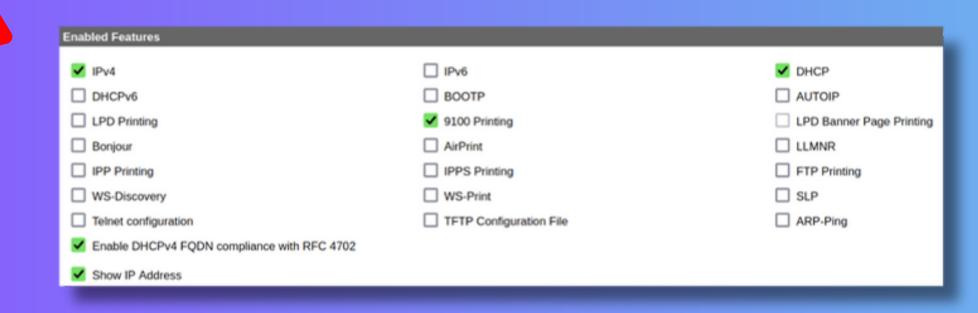


Also:

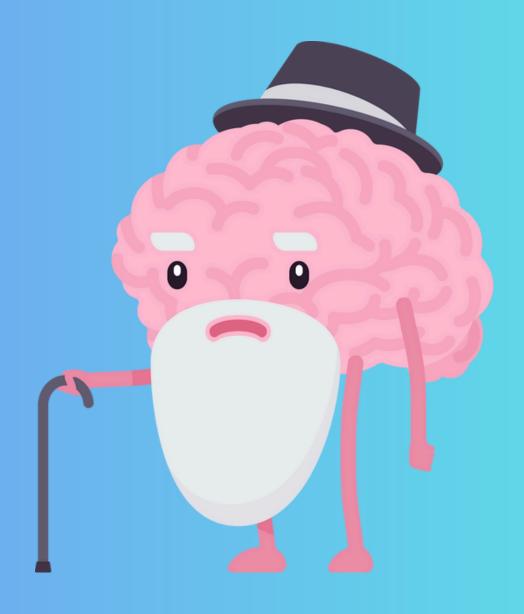
- Fail2Ban
- UFW (Uncomplicated Firewall)
- Zabbix/CheckMK Agent
- Key-Only SSH
- ZFS
- LUKS Encryption
- Unattended-Upgrades

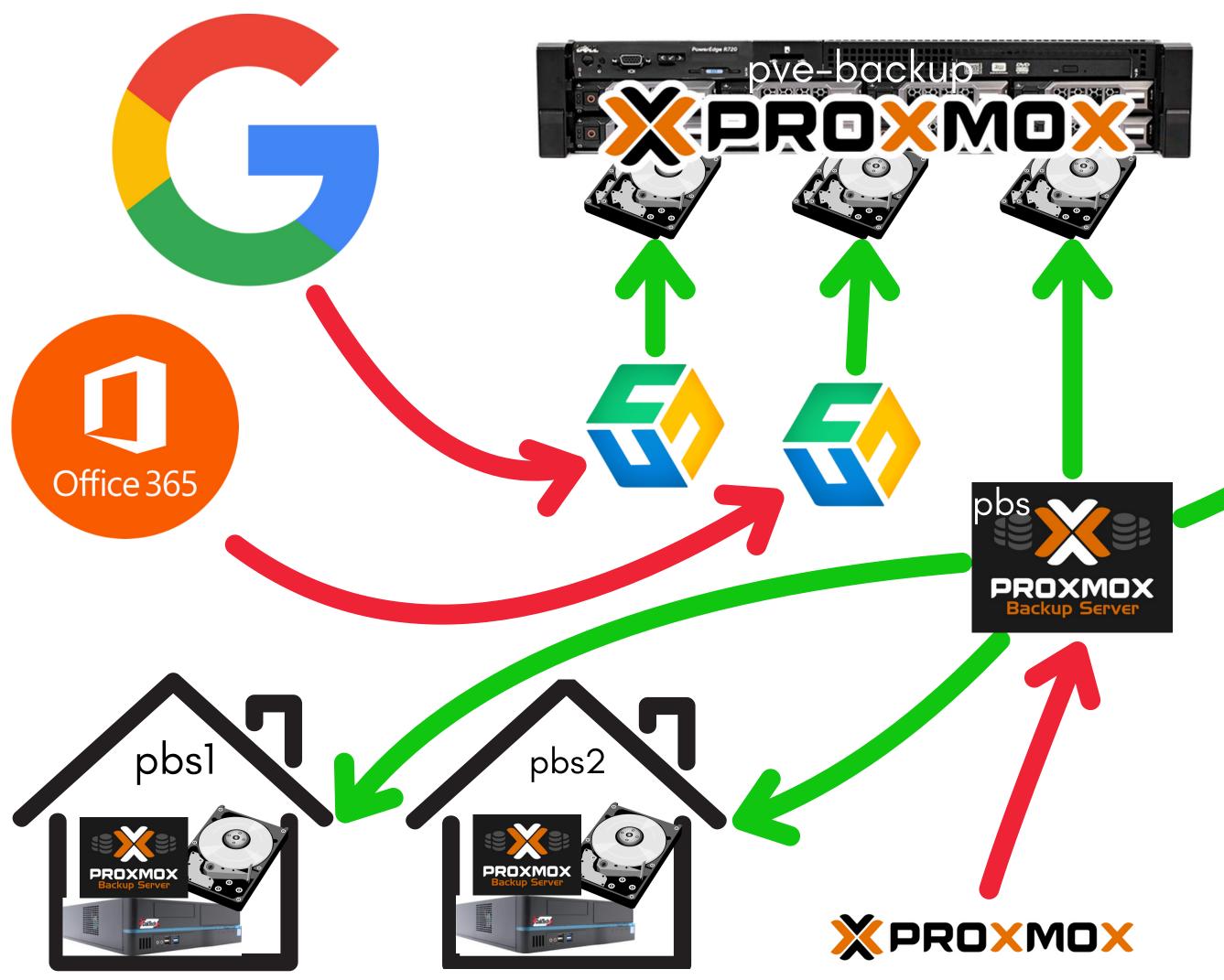
Old Hardware

- Upgrade Firmware
- Reset BIOS
- Set BIOS Passwords
- Assign RM to Dedicated NIC
- Disable RM
- Disable Unused Protocols
- Apply OS-Level Mitigations
- Disable Hyperthreading



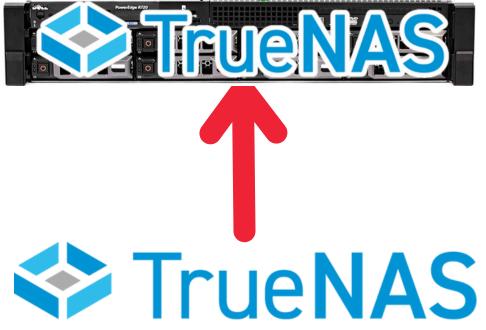




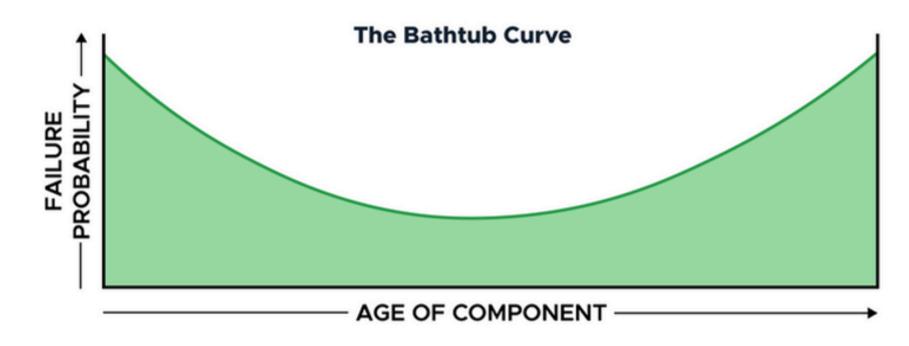








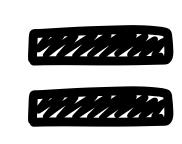
Backups - Drives













- \$0 1x Backup Server
- \$1800 of 6x 20TB Drives (Refurb)
 - \$0 1x TrueNAS-Backup (Old R720)
 - \$180 ° 8x 6TB Drives (Refurb)
 - \$0 2x PBS Backup Servers (Old Desktop)
- \$1000 4x 20TB Drives (Refurb)
 - \$700 CubeBackup Annual Subscription (Google)
 - \$700 CubeBackup Annual Subscription (MS365)
- \$3000 Wasabi Fees

Fun? Stuff

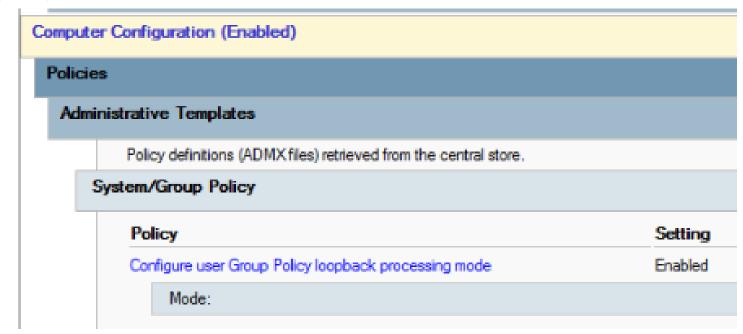
Account Lockout Policy Accounts (Domain Controllers) Accounts (Pearson) Accounts (Servers) Accounts (Staging) Accounts (Workstations) Default Domain Controllers Policy Annovances Auditing Autoenroll Certificates Default Domain Policy AzureAdConnect Fix (DCs) Bitlocker (Workstations) Chrome (All Users) Chrome (Generic) Chrome (Students) Chrome (Tech) Edit policy setting Chrome (Workstations) Chrome Settings (Staff) Datetime Format Default Domain Controllers Policy Requirements: Default Domain Policy Disable Firewall (Staging) Windows Server 2003 only Disable Remote UAC for PDQ (Workstations) Edge Firewall (Servers) Folder Redirection Group Policy Loopback Kerberos Group Policy Processing (Workstations) Hibernation (Workstations) Edit.... Kerberos MSFT Ec 🗸 Enforced LAPS (Workstations) MSFT In M Drive (PHS111) M Drive (PHS506) Map V Drive (Staff)

Microsoft Accounts (Disable)

Group Policy







Security Baselines



Microsoft Security Compliance Toolkit 1.0

This set of tools allows enterprise security administrators to download, analyze, test, edit and store Microsoft-recommended security configuration baselines for Windows and other Microsoft products, while comparing them against other security configurations.

Version:

1.0

File Name:

Windows 11 v23H2 Security Baseline.zip

Microsoft 365 Apps for Enterprise 2412.zip

Windows Server 2022 Security Baseline.zip

Windows 11 v24H2 Security Baseline.zip

Windows 10 Version 1809 and Windows Server 2019 Security Baseline.zip

Windows 10 Update Baseline.zip

SetObjectSecurity.zip

Windows Server 2025 Security Baseline - 2506.zip

Windows 10 Version 20H2 and Windows Server Version 20H2 Security Baseline.zip

LGPO.zip

Windows 10 Version 1607 and Windows Server 2016 Security Baseline.zip

Windows 11 version 22H2 Security Baseline.zip

PolicyAnalyzer.zip

Microsoft Edge v139 Security Baseline.zip

Windows 10 version 22H2 Security Baseline.zip

Windows 11 v25H2 Security Baseline.zip

change the complete page content to that language.

Download



MSFT Edge Version 128 - Computer MSFT Internet Explorer 11 - Computer MSFT Internet Explorer 11 - User MSFT Microsoft 365 Apps v2412 - Computer MSFT Microsoft 365 Apps v2412 - DDE Block - User MSFT Microsoft 365 Apps v2412 - Legacy File Block - User MSFT Microsoft 365 Apps v2412 - Legacy File Block - User (OVERRIDE) MSFT Microsoft 365 Apps v2412 - Legacy JScript Block - Computer MSFT Microsoft 365 Apps v2412 - Require Macro Signing - User MSFT Microsoft 365 Apps v2412 - User MSFT Windows 11 24H2 - BitLocker MSFT Windows 11 24H2 - Computer MSFT Windows 11 24H2 - Credential Guard MSFT Windows 11 24H2 - Defender Antivirus MSFT Windows 11 24H2 - Domain Security MSFT Windows 11 24H2 - User MSFT Windows Server 2022 - Defender Antivirus MSFT Windows Server 2022 - Domain Controller MSFT Windows Server 2022 - Domain Controller Virtualization Based Security MSFT Windows Server 2022 - Domain Security MSFT Windows Server 2022 - Member Server MSFT Windows Server 2022 - Member Server Credential Guard MSFT Windows Server 2025 v2506 - Defender Antivirus MSFT Windows Server 2025 v2506 - Domain Controller MSFT Windows Server 2025 v2506 - Domain Controller Virtualization Based Security MSFT Windows Server 2025 v2506 - Domain Security MSFT Windows Server 2025 v2506 - Member Server MSFT Windows Server 2025 v2506 - Member Server Credential Guard

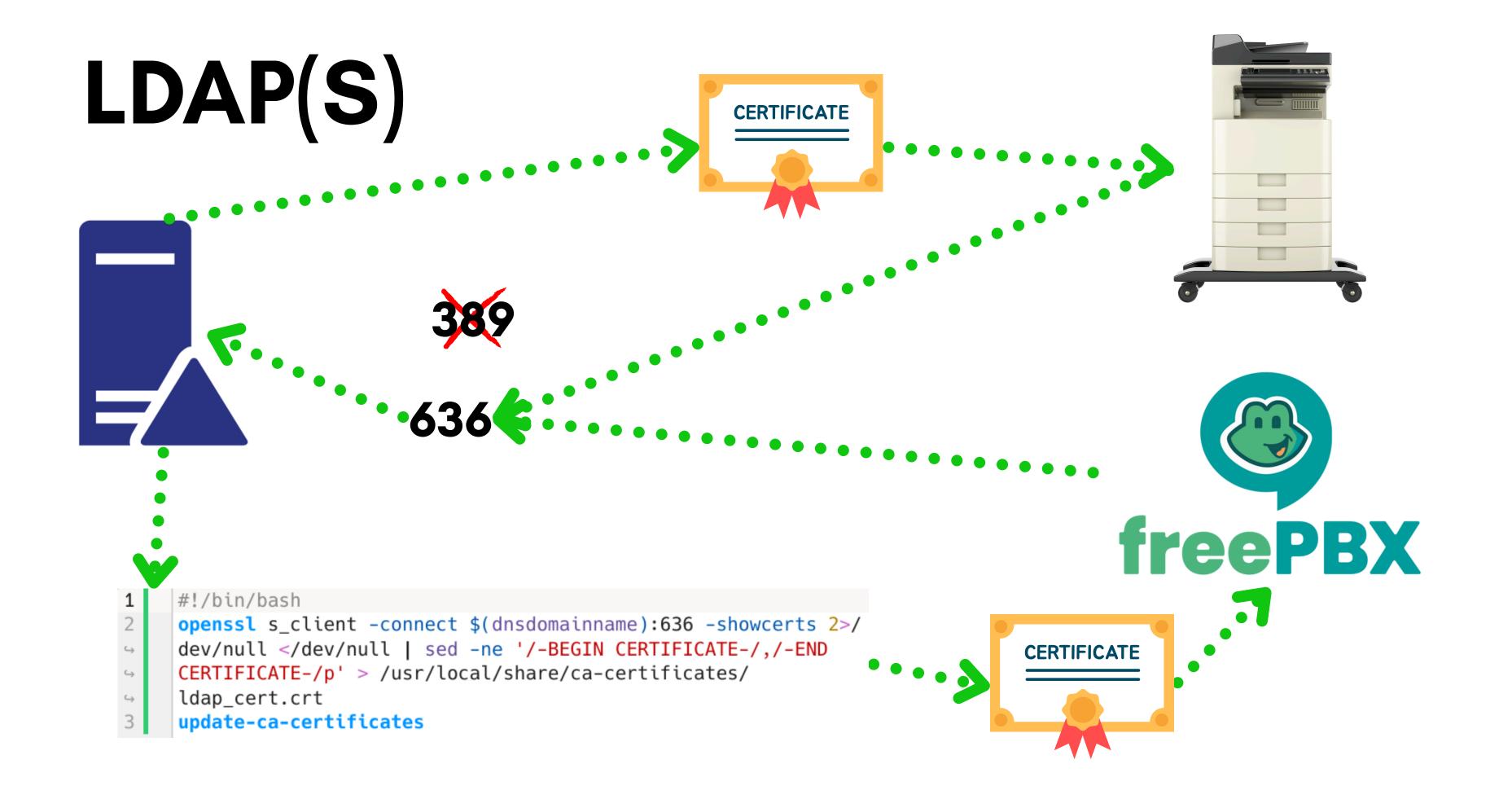
Kill Old Stuff

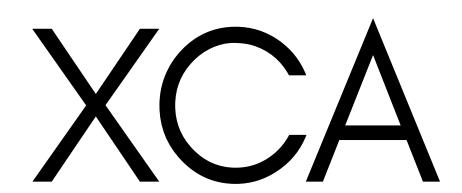
- LLMNR
- mDNS
- WINS
- NetBIOS
- LLDP*

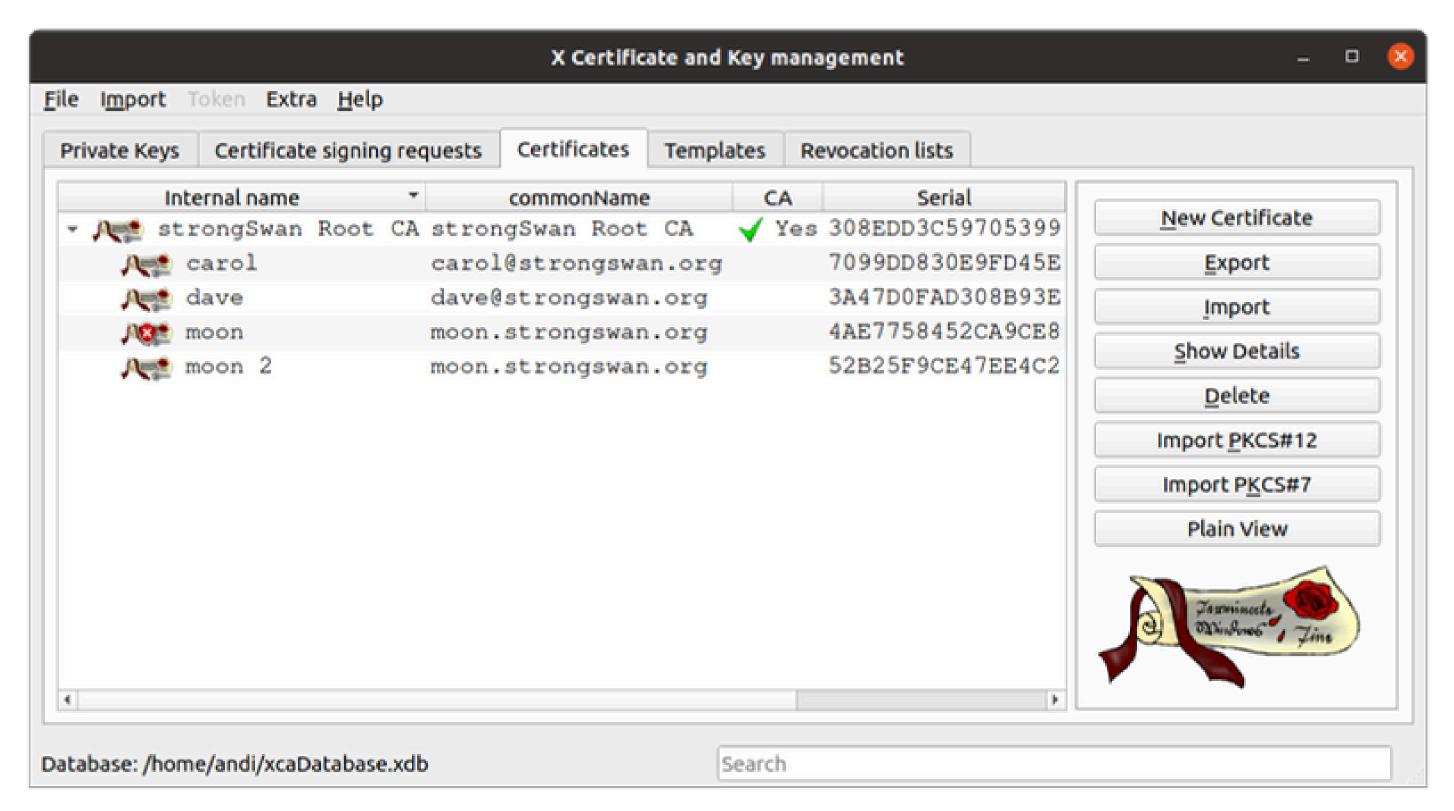
- LM (LDAP)
- NTLM (LDAP)
- RC4 (Kerberos)
- SSL 3.0
- TLS 1.0
- TLS 1.1

Encrypt Stuff

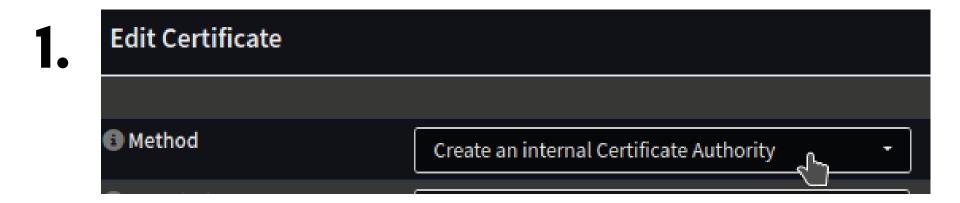
- LDAPS Only
- HTTPS Only
- LDAP Signing
- LDAP Channel Binding
- SMB Signing
- SMB Encryption
- UNC Hardening







HTTP(S)



2. View <u>Certificates...</u>

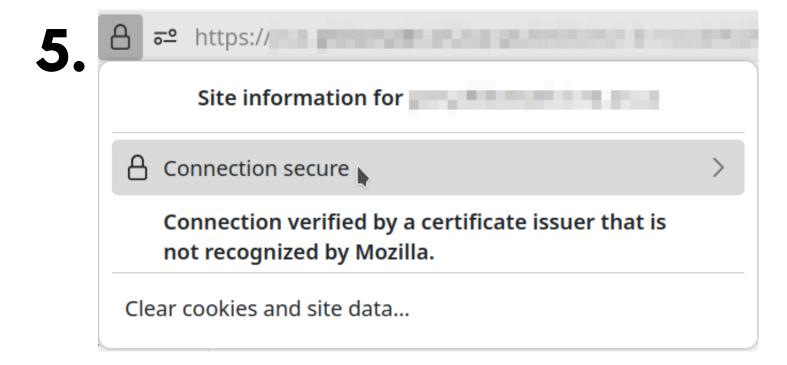
Authorities

I<u>m</u>port...

3.



4. Upload Custom Certificate



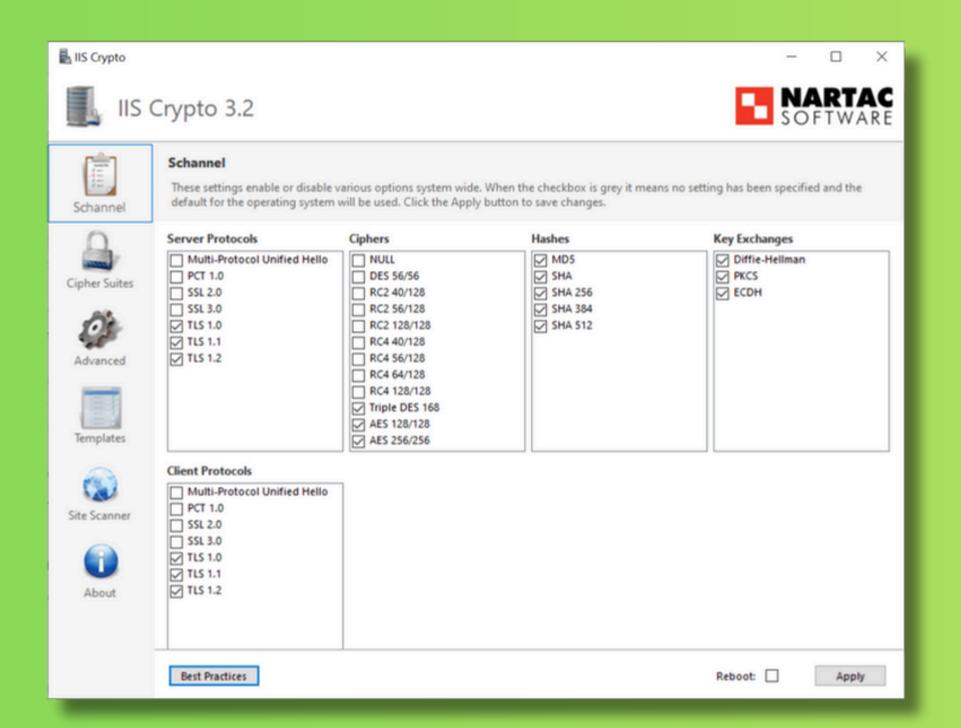


Your connection is 1 to livate

Attackers might be trying to star you information from **truenas.philomath.k12.or** (for example passwords, messages, or credit cards). Learn more about this way ang

NET::ERR_CERT_AUTHORITY_INVALID

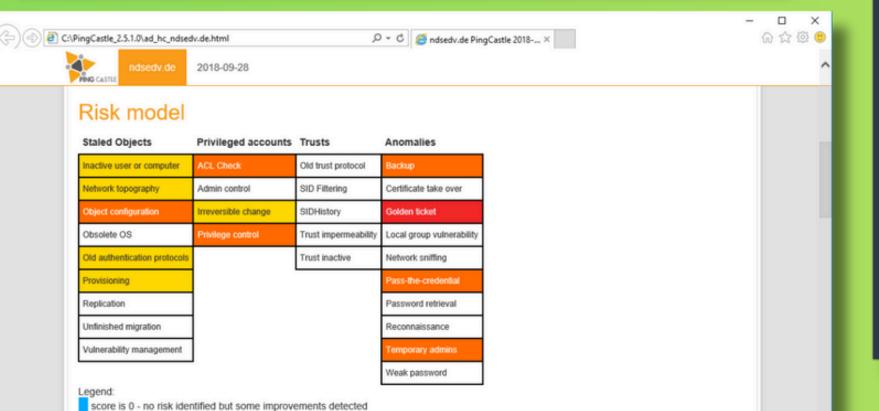
IIS Crypto







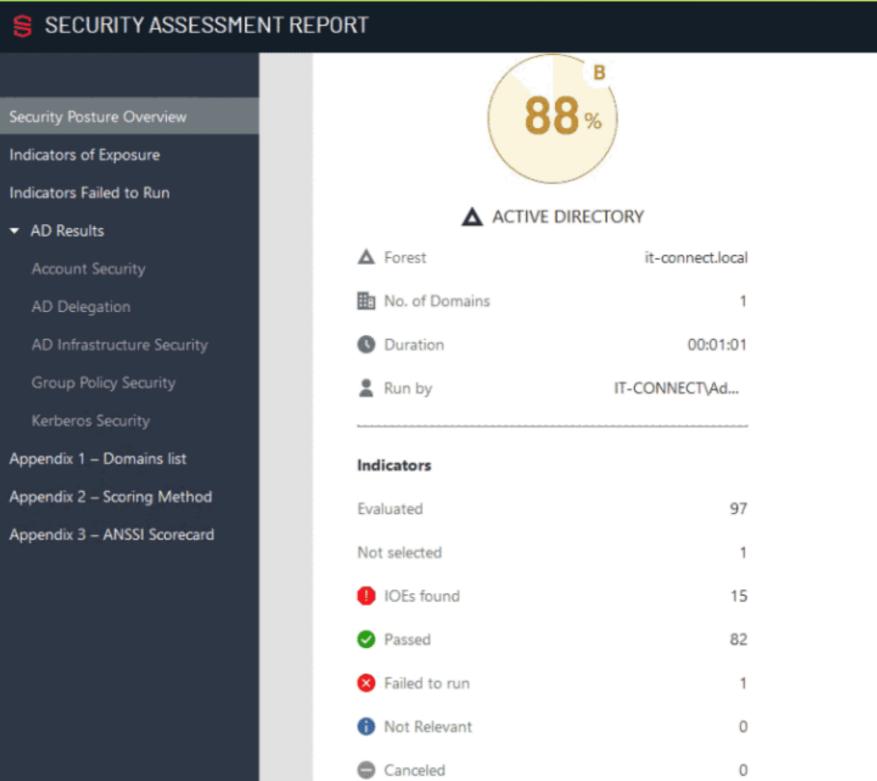
Active Directory Indicators Indicators Domain Risk Level: 85 / 100 It is the maximum score of the 4 indicators and one score cannot be higher than 100. The lower the Stale Object: 0 /100 Trusts: 85 /100 4 rules matched It is about operations related to user or It is about links between two Active 12 rules Privileged Accounts: 0 /100 Anomalies: 0/100 matched It is about administrators of the Active It is about specific security control points

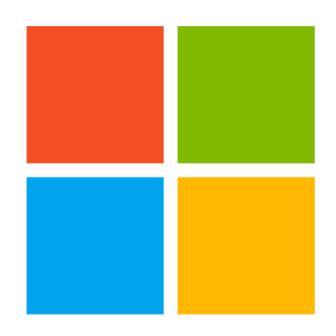




purple knight













ScubaGear is an assessment tool that verifies that a Microsoft 365 (M365) tenant's configuration conforms to the policies described in the Secure Cloud Business Applications (<u>SCuBA</u>) Secure Configuration Baseline documents.



Developed by CISA, ScubaGoggles is an assessment tool that verifies a Google Workspace (GWS) organization's configuration conforms to the policies described in the Secure Cloud Business Applications (SCUBA) Secure Configuration Baseline documents.

For the Microsoft 365 (M365) rendition of this tool, see ScubaGear.



People...





- Confidentiality
 - Info -> wrong place
- Integrity
 - Thing "works", but lies
- Availability
 - Thing broke

Broad Solutions

- Identification, Authentication, Authorization
 - Principle of Least-Privilege
- Redundancy
- Backups
- Encryption
- Network Segmentation
- Disaster Recovery Plans

People

- External (Null)
 - Delegated (Third-Party)
- Internal (Access)
- Admin (Access + Privilege)

People Problems

- Clueless
- Lone Wolves
- Fat Finger
- Eager Beavers
- Actual bad guys

Tust

Internal (Staff)

- Clueless
- ▲ Lone Wolves
- Fat Finger
- A Eager Beavers
- Actual bad guys

Admin (IT)

- **A** Clueless
- Lone Wolves
- Fat Finger
- **A** Eager Beavers
- Actual bad guys

Legend:

- ✓ No Trust Violation
- Questionable
- Trust Violation

*External (Public)

- Clueless
- Lone Wolves
- Fat Finger
- Eager Beavers
- Actual bad guys

How can I fick it up?

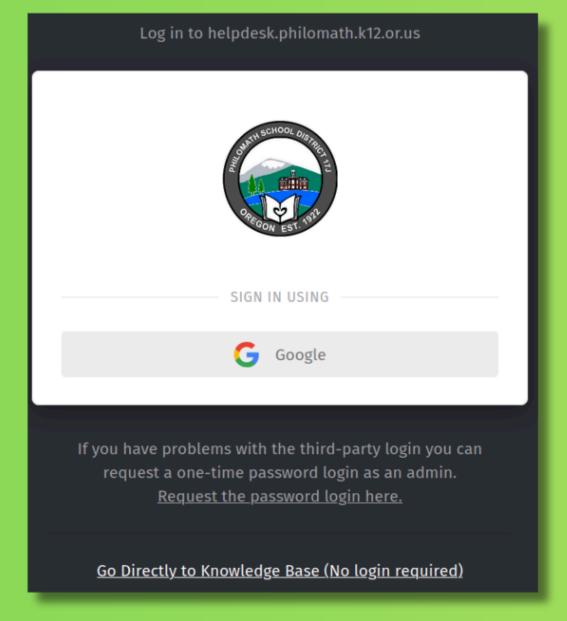
- 1. No foul allowed ever.
- 2. No harm, no foul.
- 3. Much harm, much foul.
- 4. LARPing

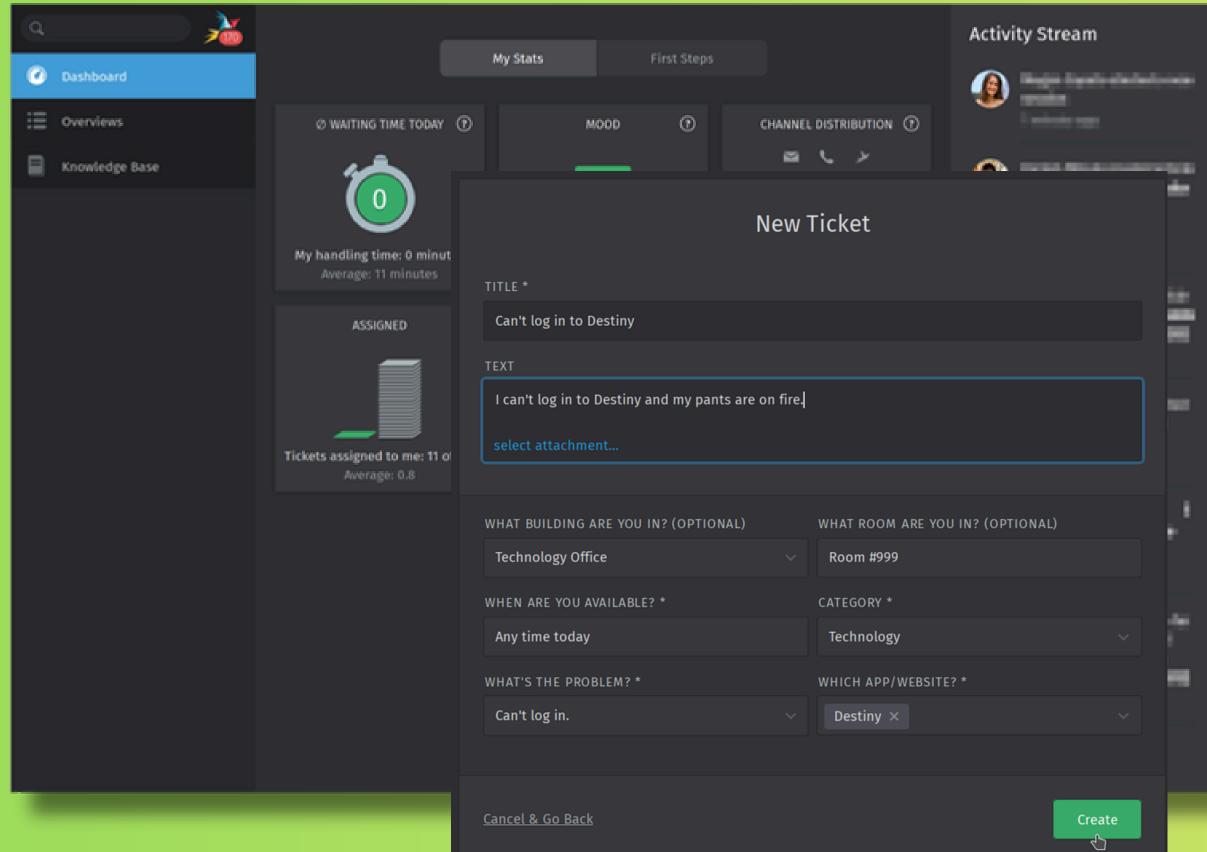


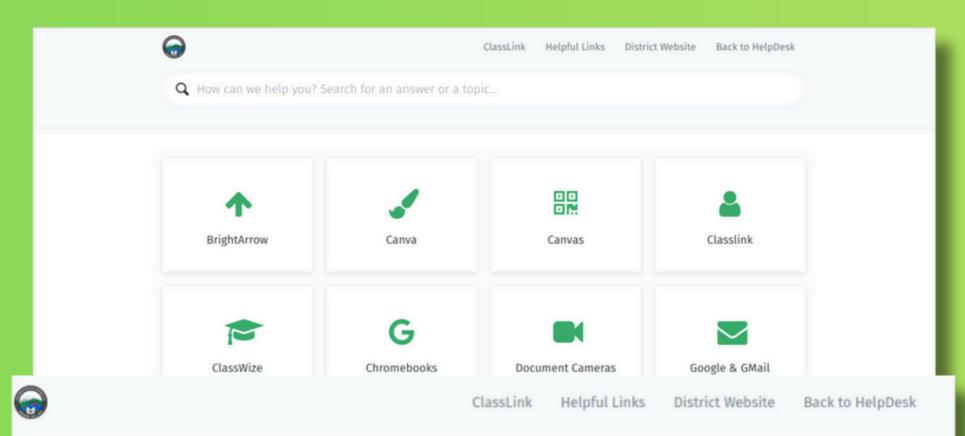


Good = Easy









- Q How Do I
- How do I add and use my Document Camera on my Staff Chromebook?

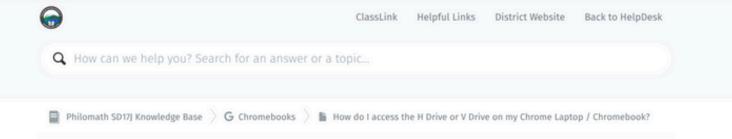
 Document Cameras https://helpdesk.philomath.k12.or.us/#knowledge_base/1/locale/en-us/answer/68
- How do I open Word Docs and Excel Sheets in Google from my G Drive?

 Google Drive You will have to do this process once, but most likely once per file type (i.e. once for documents, once
- How do I set up Multiple Monitors/Displays with my Chromebook?
 Chromebooks 1. Make sure the Displays are connected to the chromebook. 2. Click on the Clock in the lowe...
- How do I stop my Chromebook from going to sleep\shutting off frequently?

 Chromebooks settings there for 'When Inactive and plugged in/on battery' that you can change to 'Keep Display On' or 'Do
- How do I open a ZIP file on my Chromebook?

 Chromebooks (If you do not have a mouse, on the touch pad you do this by clicking with two fingers together at the
- How do I use Printers on my Staff Chromebook?

 Chromebooks https://helpdesk.philomath.k12.or.us/#knowledge_base/1/locale/en-us/answer/64



How do I access the H Drive or V Drive on my Chrome Laptop / Chromebook?

You CAN access your Windows H Drive (Home Folder), as well as the Shared Drive (V Drive) from a Chrome device! There are some limitations however:

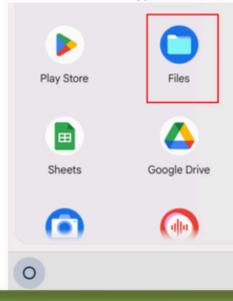
- 1) You must use a district-managed device.
- 2) You must be on-site and connected to Chrome WiFi (or wired internet). You CANNOT access the H and V Drives from home using this method.
- 3) You will need to login to the shared folder again if you restart your Chromebook.

To get started:

First, sign into your device. Then click the menu button (Circle in the bottom left of the screen):



Now look for the "Files" app, and click it.



My Recent Drafts

New Page

My Most Viewed Favourites

New Debian Server First Steps

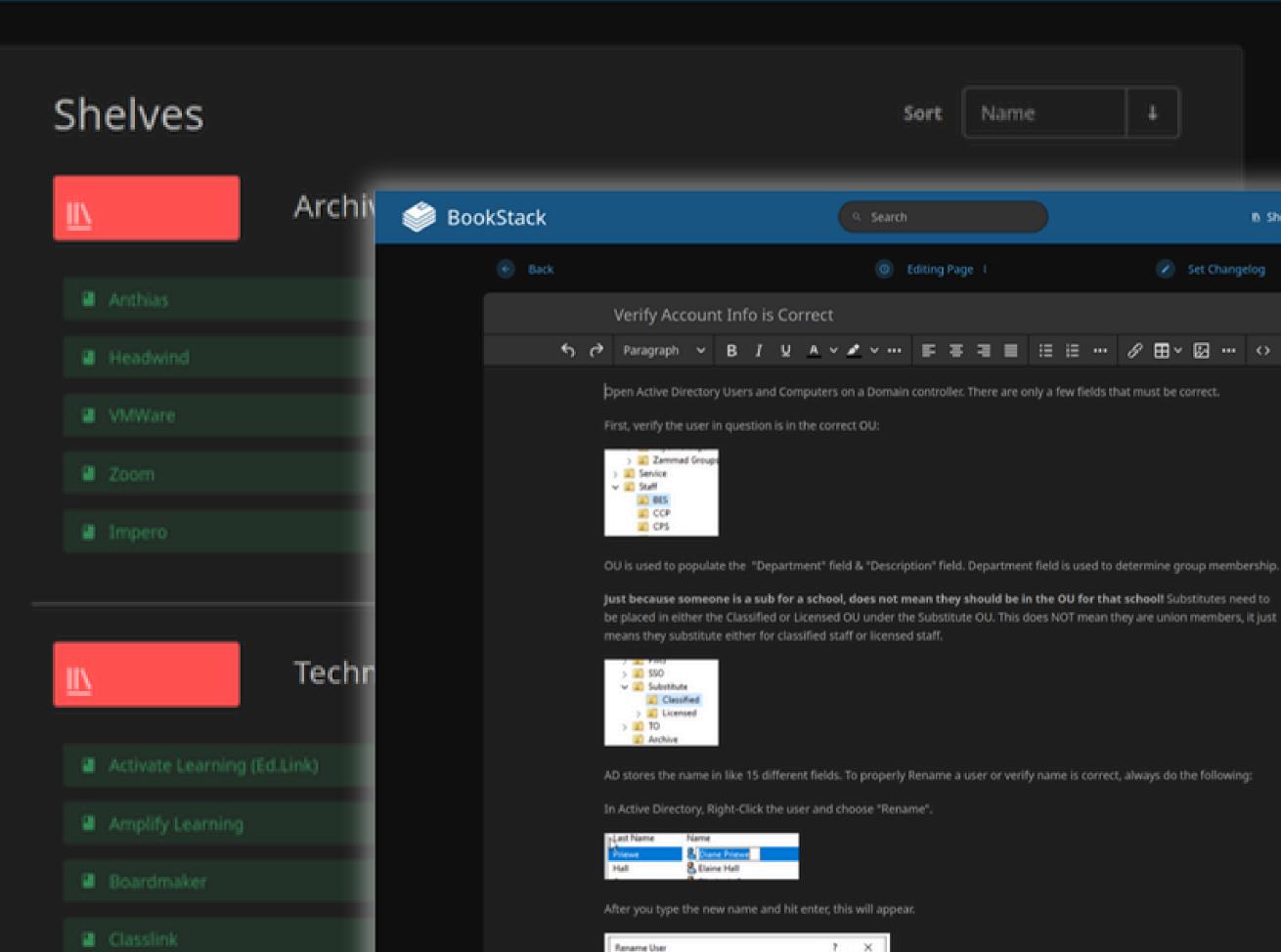
Files in One Partition formatting option.

View All

My Recently Viewed

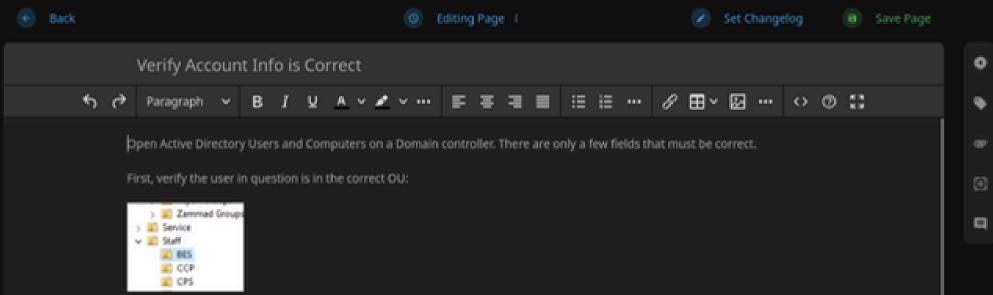
- Security 0 Completed Projects
- Archive
- Security AD
- Technology

New Debian Server Eiret Chanc



Actions





Name

Sort

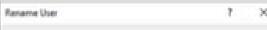
be placed in either the Classified or Licensed OU under the Substitute OU. This does NOT mean they are union members, it just means they substitute either for classified staff or licensed staff.

AD stores the name in like 15 different fields. To properly Rename a user or verify name is correct, always do the following:

In Active Directory, Right-Click the user and choose "Rename".



After you type the new name and hit enter, this will appear.



Stuff you 100% have to pay for



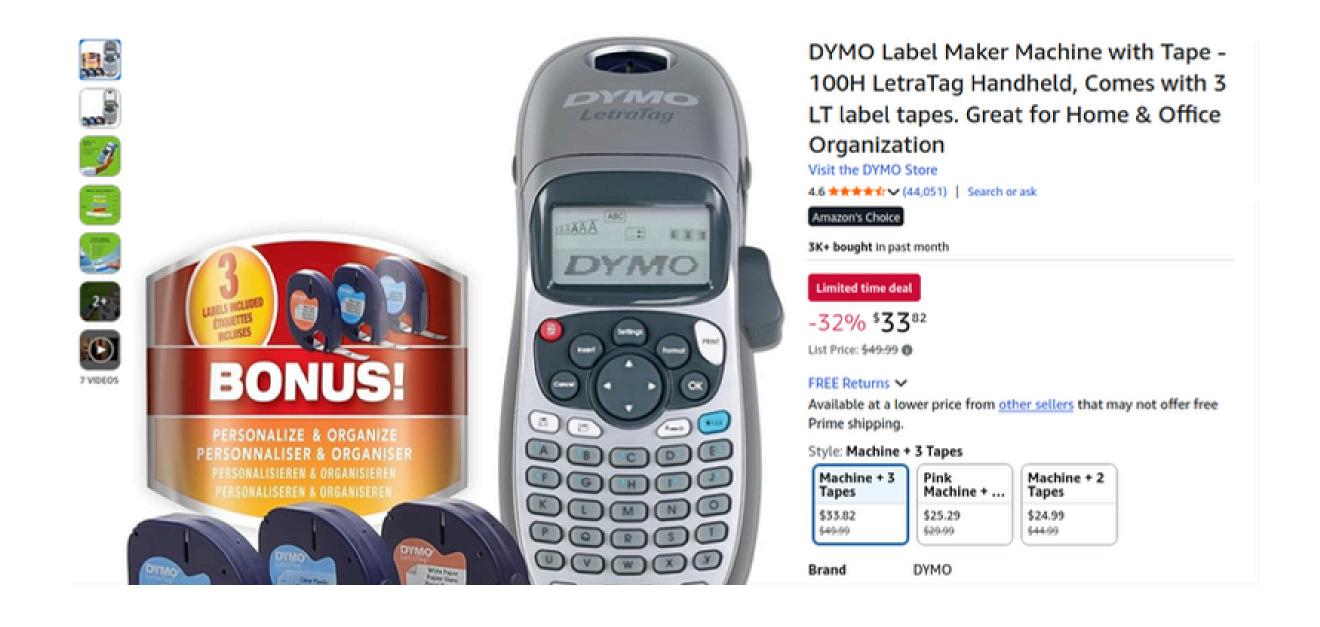
Antivirus



• Web Filter



Label Things



S2Score Overall Score

<u>Last Snapshot</u>

New Snapshot

Excellent

596

774 (+178)

Good

Physical

New scan (Y/N)

Administrative

Internal Technical

External Technical

Very Poor

S2SCORE® Scale

Excellent: 780.00 – 850.00 Poor: 500.00 – 599.99

The applicable ranges for a \$2SCORE® are:

Good: 660.00 – 779.00 Very Poor: 300.00 – 499.99
Fair: 600.00 – 659.99

- No

The S2SCORE® is calculated in a range from 300 to 850. The lower the score, the higher the risk, and vice versa.

Poor

Fair

67

Number of response changes

Thank you