Intune endpoint management mastery

AA

Merdio Con f

2025 PALM SPRINGS





Kevin Sullivan

Principal Product Manager Microsoft Intune

Sheldon Turner

Senior Director, Technical Strategy & Assessment/ CIS



Rolando Jimenez Technical Trainer / Nerdio

Rolando Jimenez

Technical Solutions Trainer

- Started at Microsoft retail
- Helped Support the IEC in Redmond
- Microsoft funded Intune and W365
 workshops
- I am a huge gamer/Star Wars Nerd
- I live in Seattle, Washington





Two truths and a lie

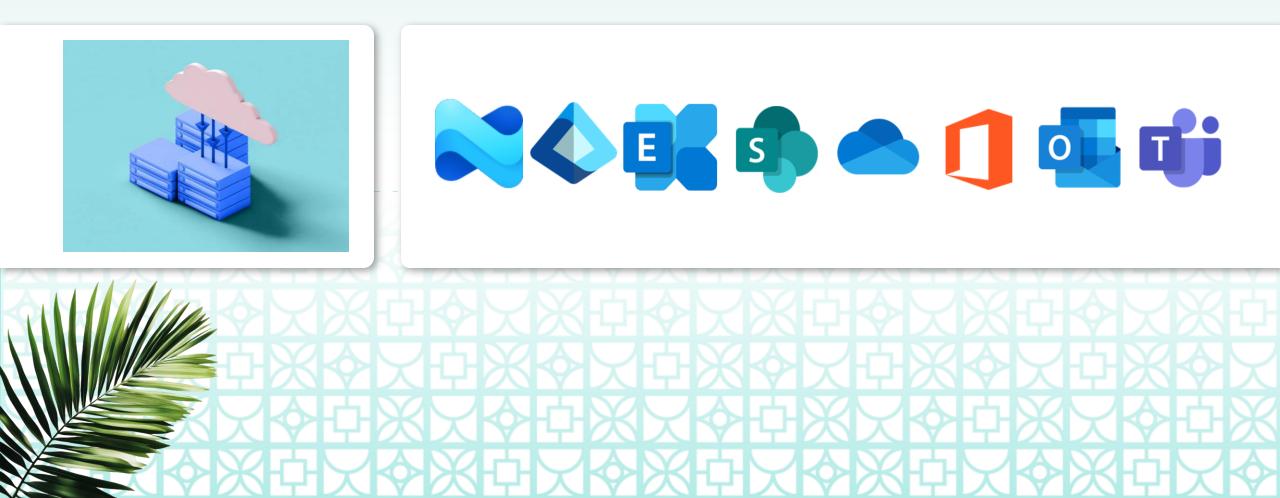
- My dad is a National Boxing Champion
- I own a Humanoid Robot designed with the ability to read human emotions
- I have traveled to every state in the United States





Where are we? Where are we going?

Modern Work focuses on using technologies like Microsoft 365 to enhance productivity, collaboration, and security for a flexible and hybrid workforce, enabling seamless work from anywhere





The future of endpoint management

Kevin Sullivan



What we'll cover

Why here? Why now? Why Microsoft?

Why cloud native?

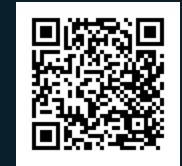
The future

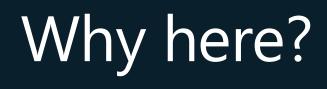




Kevin Sullivan

Principal Product Manager





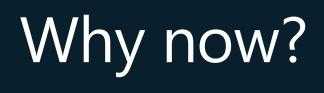
94% of SMBs consider cybersecurity critical to their business*

1 in 3 have already experienced a cyber attack.*



A single answer: Your solution, powered by Microsoft technology

*Source:aka.ms/SMBCybersecurityReport2024



-	

Artificial Intelligence and Machine Learning: Everyday, Everywhere



Jose Gomez Cueto General Manager – Small and Medium Business Microsoft, Redmond, Washington, United States



Cybersecurity as Strategic Imperative

3

Remote Work and Hybrid Models are here to stay



Cloud Computing and Edge Computing driving agility and scalability



Why Microsoft?

Licenses for most

E

Microsoft 365 Business Premium Microsoft 365 E3 Microsoft 365 E5 Microsoft 365 F1 Microsoft 365 F3 Enterprise Mobility + Security E3 Enterprise Mobility + Security E5



Truly cross-platform

macOS

- Automated Enrollment or BYOD
- Single sign-on
- Declarative device management (DDM)

Android

- Work profiles
- Remote actions
- Shared device mode (SDM)

iOS

- Zero-touch provisioning
- DDM, SDM

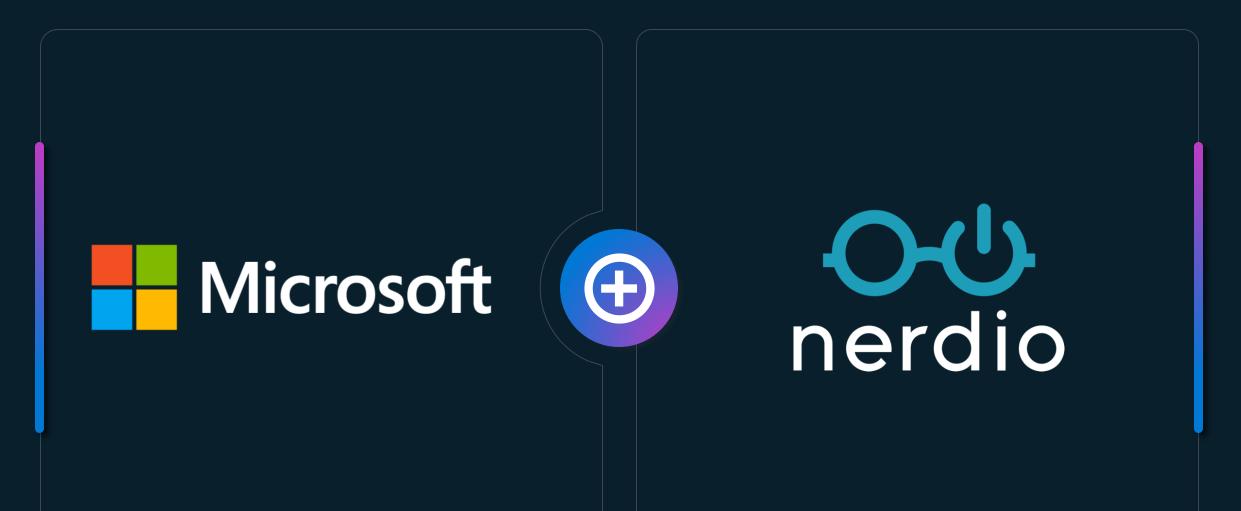


Partner-focused

License and Adoption Incentives LevelUp Skilling Program Digital marketing content on-demand Community calls and forums

And much, much more

Why Microsoft + Nerdio?



Why cloud native?



The End User

The Company

The Service Provider

Why cloud native?







Zero trust security

Consolidated data for analysis and insight

Building with agents and Copilot

Why should you care?







Talent is expensive

IT is a 'commodity' service

Margin is everything

What to do about it?







Get it all in the cloud

Choose an integrated stack

Build and package unique value



Building with agents and Copilot

[As an MSP] you need to have new opportunities for all your employees, if we're doing the same every year, everybody's gone. If you still do the domain joined laptops, everybody's gone.

If you don't do Azure...if you don't do Al, everybody's gone.

Erik Loef CTO & Owner PROXSYS*





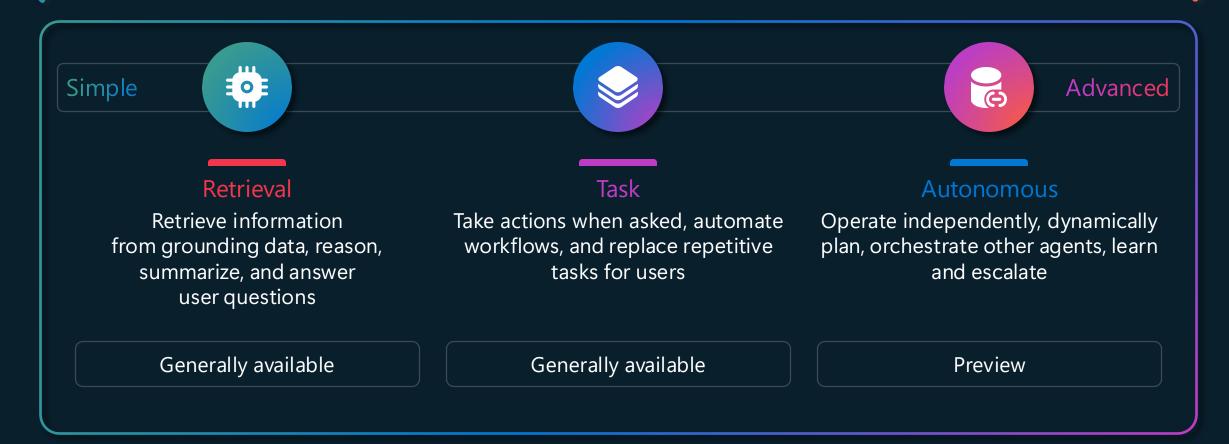
We've added 350 end users to the solution which takes 20 minutes– a massive reduction from the four hours it took with our previous infrastructure.

BKW Karin Niggli

Head of Workplace and Collaboration

Agents are the future

Agents vary in level of complexity and capabilities depending on your need



Nerdio + Microsoft Intune Feedback Survey



Microsoft Intune

What is it?

A set of technologies that securely manage identities, applications, and devices (physical and virtual).

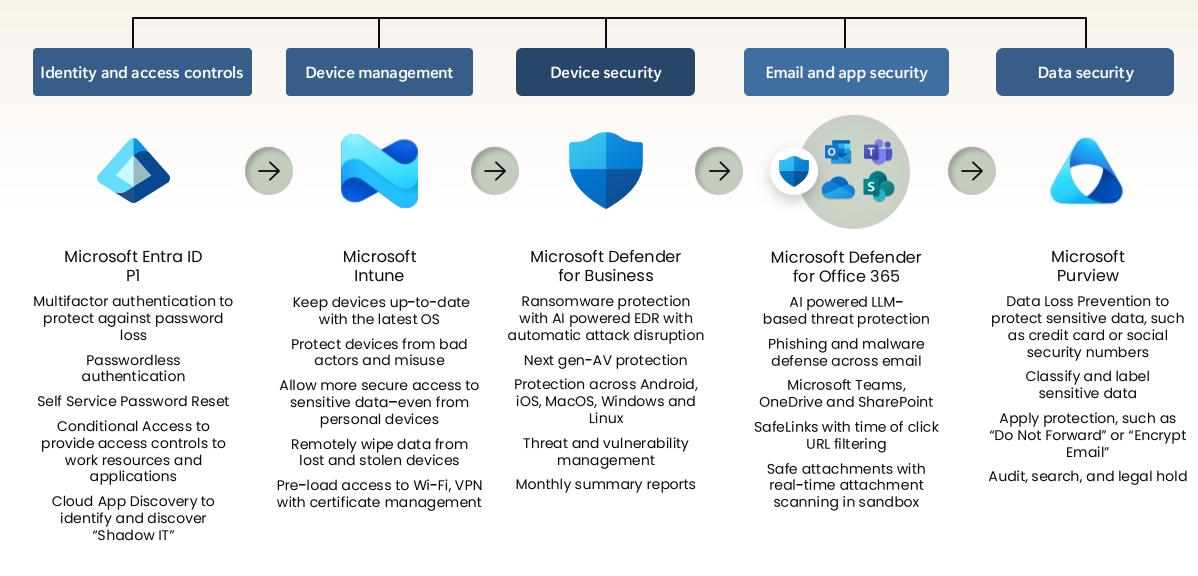
Why use it?

- Included in M365 Business premium, E3+ plans.
- Augments RMM.
- Along with Entra, Defender, Purview, consolidates multiple MSP tools into a single solution.



Layered security

Microsoft 365 Business Premium



What are MSPs using Intune for?

Eliminating domain controllers

- Small businesses that have servers onsite may no longer need them
- If you are no longer hosting any client/server applications, Intune can be a great replacement for a server

Implementing Zero Trust

- Enforce Zero Trust policies across your physical endpoint devices
- Set policies to never trust and always validate when accessing corporate data (conditional access policies).

Replacing Group Policy

- IT has been using GPO since the early 2000s
- Intune has now surpassed most of what you can do using legacy GPOs with Intune Configuration Policies

Endpoint management

- Intune allows the MSP to offer RMM-like functionality out of the box.
- Manage Desktops, Laptops, Mac, Android, iOS devices in many ways, helping to augment existing tools.

Enabling work-from-anywhere

- Truly work from anywhere
- Intune enables secure remote work without a use of a VPN client of any kind
- Access corporate data from any compliant enrolled device
- Access applications without endpoint enrollment with Mobile Application Management (MAM)

Microsoft Intune + Nerdio = A match made in heaven

- Extend your management beyond AVD
- Create policies to automate common functions
- Modify policies and track changes with the change log
- Quickly revert to previous policy versions
- Identify resources that are non-compliant
 - Monitor and manage policy drift

Live demo agenda

Creating Intune polices	Configuring Conditional Access	Creating MDM Compliance Policy in Intune	Creating an App Configuration
Importing Intune polices into Nerdio	Solution Baselines and Modern Work	Apple iOS Intune Enrollment Pre- Reqs	BYOD Demo– Enrollment via Company Portal
Editing Intune polices in Nerdio	BREAK TIME	Creating an App Protection Policy	Intune and W365 overview
Assigning polices to endpoints	Mobile Application Management (MAM)		Implementing CIS Intune Polices

What is an Intune policy?

Intune policies are a set of rules and configurations that help manage and secure devices, apps, and data in an organization.

Device management:

Set rules for device settings, security, and compliance

• App management:

Control app installation, permissions, and updates

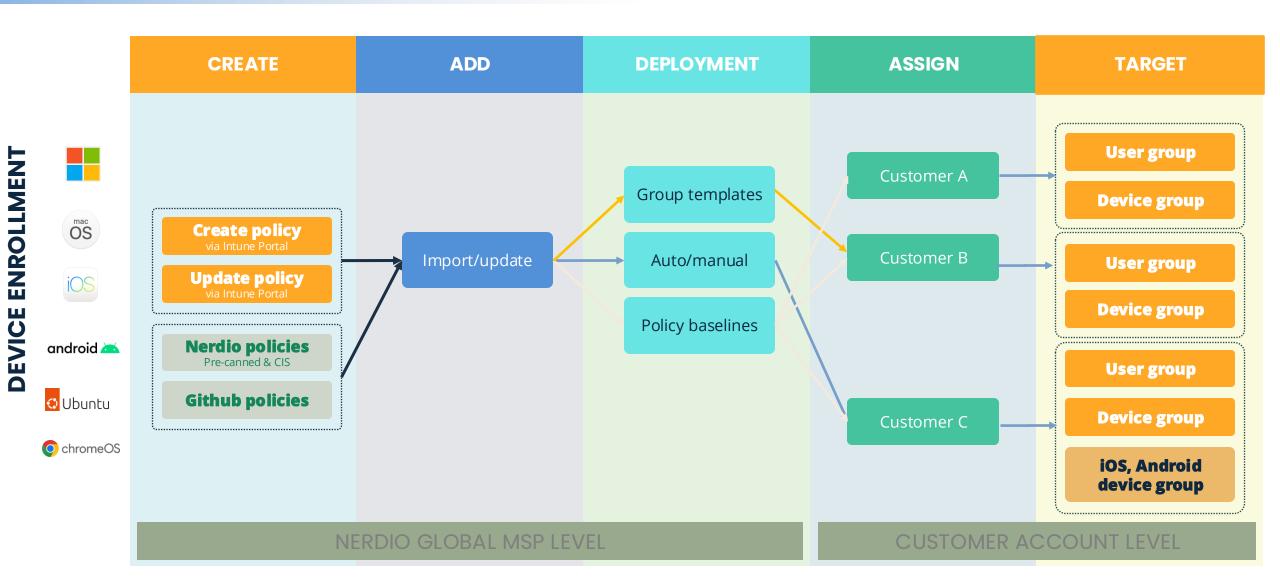
Data protection:

Company data stays secure and compliant

Automates with Nerdio:

Nerdio helps apply and manage Intune policies across multiple tenants quickly and efficiently

Intune policy creation/update flow



Nerdio user hierarchy global / MSP level end users

MSP/global level users

This is the parent level in Nerdio. Items created here can be cascaded into the customer account level (oneto-many).

> E.g., Images, Scripts, Applications

Users created here are given permissions to manage customer accounts in Nerdio. E.g., users created here can create account-level users

Customer account level users

This is the child level in Nerdio. Items are inherited from the MSP level.

> Items created here are accountspecific (one-to-one).

E.g., Auto-Scale configurations, application deployment policies. Users created here are the end users within the customer environment. E.g., Users created here can log into session hosts.



Demo Time



Configuring Conditional Access in Intune

Conditional Access:

 is like a security gate for your organization's apps and data. It ensures that only the right people, using the right devices, under the right conditions, can access your resources.

Demo

I will show how to set up conditional access and the configurations that can be applied.

Solution baselines are like a starter kit for setting up cloud environments

Nerdio Manager for MSP has pre-made templates with all the important settings and configurations needed to quickly and consistently build Intune or Windows 365 environments for clients

Using a solution baseline helps MSPs to:

Save time—No need to set up everything from scratch.
Stay consistent—Make sure every client setup looks and works the same.
Avoid mistakes—Follow proven settings and best practices.

In short, a solution baseline is a quick and reliable way to set up cloud environments without reinventing the wheel every time.

Demo time



Breaktime 20

Mobile Application Management

Secure access

Ensure secure access to corporate applications and data on personal devices without full device enrollment.

Data protection

Implement policies to prevent data leakage, control copy/paste functions, and manage data sharing between applications.

Compliance management

Enforce compliance requirements to keep devices and data secure while providing a seamless user experience.

Compliance policies for MDM

Bring company and BYOD devices up to compliance before allowing corporate data access

Compliance policies we'll create today:

•OS Version Compliance

- Jailbreak/Root Detection
- Strong Passcode (minimum length + complexity)
- Auto-lock after inactivity
- •Wipe on failed attempts

Apple iOS Intune Enrollment *Pre-requisites*

Demo

Grant Permissions: Agree to let Microsoft send user and device information to Apple.

1. Download CSR: Get the Certificate Signing Request (CSR) from Intune.

2. Create MDM Push Certificate: Use the Apple Push Certificates Portal to create the certificate with the downloaded CSR.

3. Upload and set up:

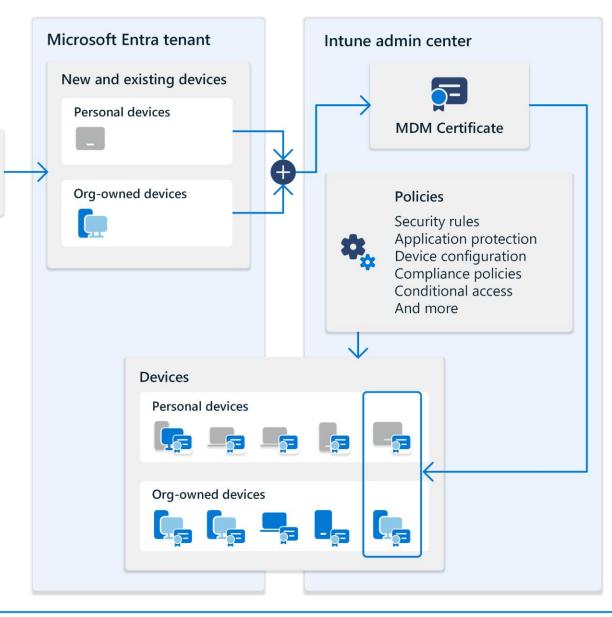
- Enter Apple ID used to create the certificate.
- Upload the MDM Push Certificate back to Intune.

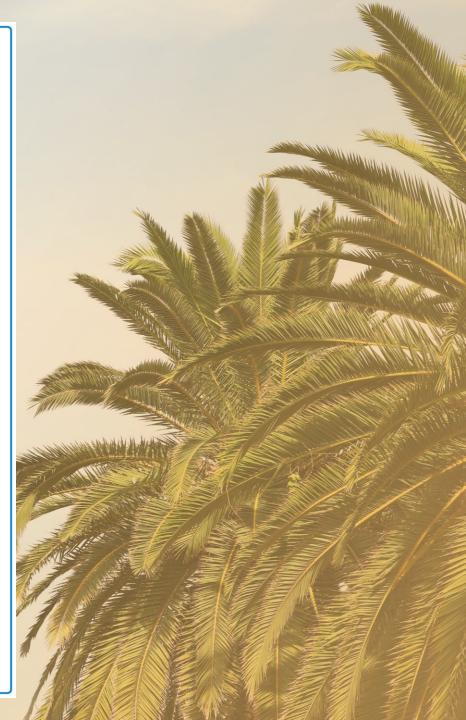
Make sure to renew the certificate every year!!!



Device enrolls

Microsoft Intune





Creating App Protection & App Configuration policies

App Protection policy

- 1. Restrict copy/paste actions in the Microsoft Edge app.
- 2. Enforce data protection by allowing only managed app data transfers.

App Configuration policy

- Managing data transfer between iOS apps in Intune.*
 *Only applies to iOS devices
- 2. Reference Microsoft Intune iOS Data Transfer Guide.* *See the QR code

BYOD device enrollment via Company Portal

- 1. Download the Company Portal app from the app store.
- 2. Log in with corporate credentials to start the enrollment process.
- 3. Follow the on-screen prompts to configure device settings.
- 4. Ensure our device complies with company security policies.
- 5. Complete the enrollment, then test the app protection and compliance policies.



Demo time.

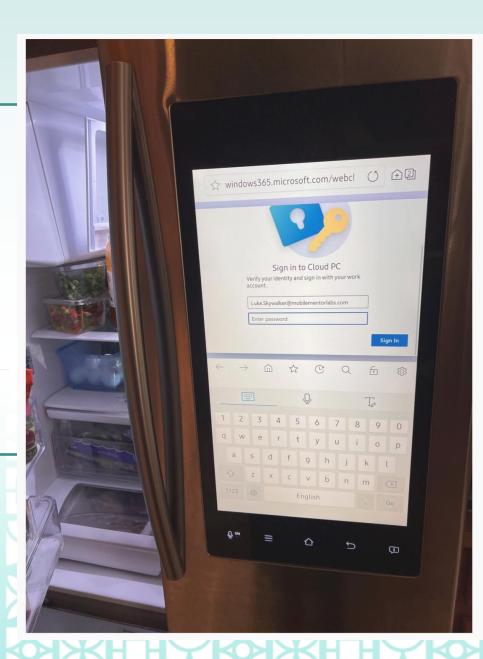
w365 What is W365?

- A Cloud PC: A full Windows experience streamed from the cloud.
- Accessible anywhere: Use on any device with an internet connection.
- IT managed: Secure, scalable, and managed via Intune.



Mission and vision

- A Cloud PC can be provisioned to any connected device...and when we say any connected device we mean it.
- This is my Samsung Smart Fridge running a cloud PC.
- And yes, it will run DOOM!



CIS Center for Internet Security®



Strengthening security with Nerdio, Microsoft, and CIS

Mission and vision

Mission

Make the connected world a safer place by developing, validating, and promoting timely best practice solutions that help people, businesses, and governments protect themselves against pervasive cyber threats.

Vision

Leading the global community to secure our ever-changing connected world.



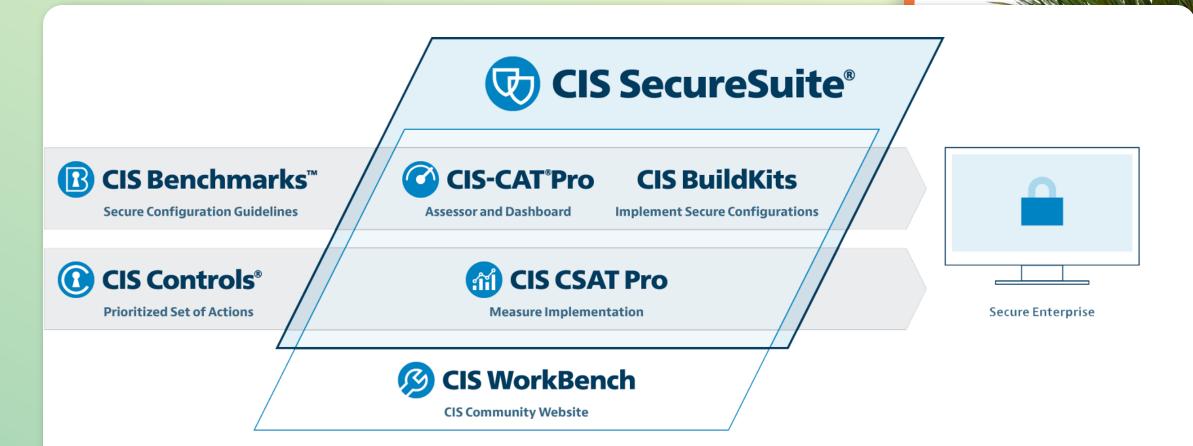
Creating Confidence in the Connected World™

About the Center for Internet Security (CIS)



CIS tools and resources

Integrated Cybersecurity resources



Start Secure. Stay Secure.®

CIS Security best practices

Preventative cybersecurity resources



Consensus-developed secure configuration guidelines for hardening

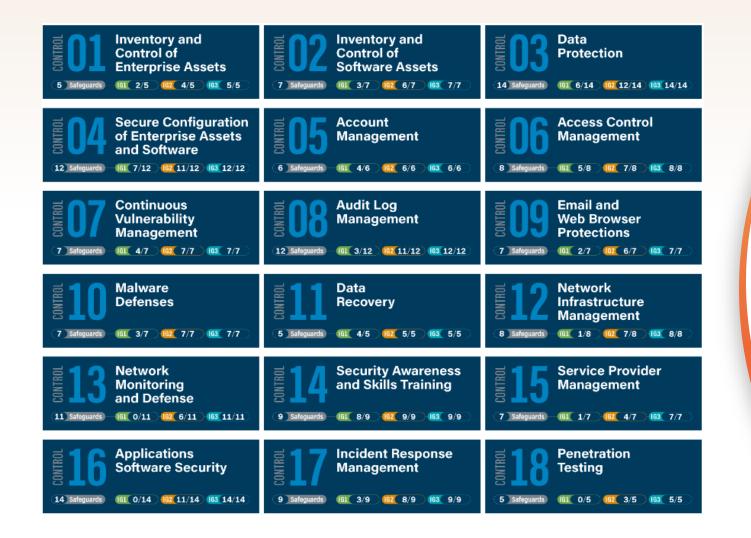


Prescriptive, prioritized, and simplified cybersecurity best practices



CIS Controls Version 8.1

18 Top-Level Best Practices Containing 153 Prioritized Safeguards

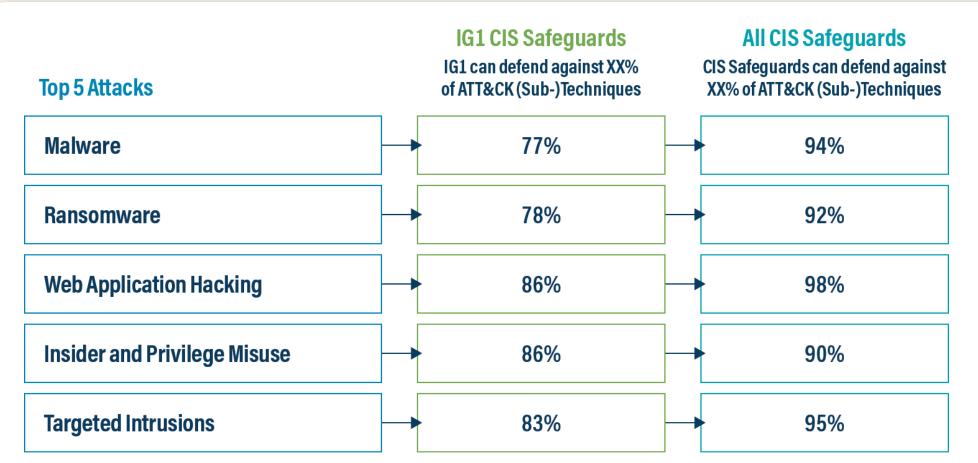




- IG1–Essential Cyber Hygiene
- IG2–Moderate resources and expertise
- IG3–Significant resources and expertise

Community Defense Model (CDM) v2.0

MITRE ATT&CK mitigation



All percentages are based on ATT&CK (sub-)techniques assigned to an ATT&CK mitigation.

https://www.cisecurity.org/insights/white-papers/cis-community-defense-model-2-0

CDM 2.0 Attack Types & Data Sources

Attack types

- 1. Malware (moved up in rank vs. CDM v1.0)
- 2. Ransomware (moved up in rank)
- 3. Web Application Tracking (moved down in rank)
- 4. Insider and Privilege Misuse (moved down in rank
- 5. Targeted Intrusions (rank remained the same)

Data sources

- Verizon Data Breach Investigations Report (DBIR)
- IBM X-Force Threat Intelligence Index
- ENISA Threat Landscape–The Year in Review
- CrowdStrike Services Cyber Front Lines report
- Akamai The State of the Internet: A Year in Review

Foundations for compliance

CIS takes a collaborative approach to compliance by developing resources that work well with existing security frameworks.

Erameworks Provided with CIS Controls Mapping						Industry Frameworks Referencing CIS Benchmarks		
Australian Signals Directorate Essential Eight	Cyber Risk Institute (CRI) Profile v1.2	ISO 27001:2022	New Zealand Information Security Manual v3.5	PCI DSS	UK National Cyber Security Centre (NCSC) Cyber Assessment v3.1	DoD Cloud Computing SRG	FISMA	
CISA Cybersecurity Performance Goals (CPGs)	FFIEC-CAT	ISO/IEC 27002:2022	NIST CSF 1.0	NYS Department of – Financial Services 23 NYCRR Part 500		FedRAMP	PCI DSS	
СММС	GSMA FS 31 Baseline Security Controls	Microsoft Cloud Security Benchmark	NIST CSF 2.0	SOC 2	1.6.8.4	FFIEC		
Criminal Justice nformation Services (CJIS)	НІРАА	MITRE ATT&CK v8.2	NIST SP 800-53 R5	TSA Security Defense Directive Pipeline				
CSA Cloud Controls Matrix v4	ISACA COBIT 19	NERC-CIP	NIST SP 800-171	UK Cyber Essentials				

CIS Benchmarks

Consensus-developed secure configuration guidelines

- More than 100 CIS Benchmarks across 25+
 vendor product families
- Recognized by industry frameworks
 - DoD Cloud Computing SRG, FISMA, FedRAMP, PCI DSS
- Community-developed
 - CIS members, subject matter experts, security community experts, technology vendors
- Prescriptive instruction
 - Step-by-step list to apply configurations
 - Rationale on "why" the configuration is recommended
 - Impact the configuration will make
- Mapped to CIS Controls

B CIS Benchmarks [™]				
CIS. Center for Internet Security"	B CIS Benchmarks ⁻			
CIS Microsoft Windows 11 E v3.0.1 - 03-01-2024				

Nerdio Manager CIS Baselines=CIS Benchmarks

- CIS Baselines in Nerdio Manager
 - Windows 10
 - Windows 11
- Single session VMs
- Multi-session VMs
- CIS Hardened Images
- Anatomy of a CIS Benchmark
 - Description provides understanding into related best practices
 - Rationale provides detail on the security value
 - Audit provides clear steps to assess implementation
 - Remediation provides clear steps to configure the setting
 - References to applicable vulnerabilities, documentation, implementation, etc.
 - CIS Controls Mappings included in all CIS Benchmarks
 - Demonstrate how the CIS Benchmark
 recommendation applies to the CIS Controls
 Safeguard

S Microsoft Intune for ndows 11 Benchmark			
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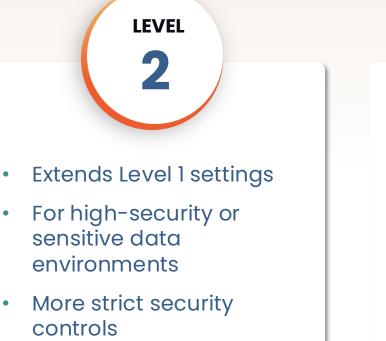
CHARLES PARAMETER

CIS Benchmarks profiles



LEVEL

- General corporate/enterprise environment usage
- Ensures functionality remains unaffected



• May impact useability

Used primarily by

 Used primarily by government agencies, DOD agencies, highly regulated industries

Nerdio CIS Baselines in Nerdio Manager

Nerdio CIS Baselines

- Industry recognized security benchmarks for Windows, Azure, and Intune configurations
- Protection against common threats
- Detailed, actionable, security settings apps and devices per CIS Benchmarks
- Configured to align with best practices for security and compliance frameworks like NIST, HIPAA, ISO 27001, and GDPR
- Consistent configuration for deployment and management available through Nerdio Manager

3.5.5 (L1) Ensure 'MSS: (Enable/CMPRedirect) Allow ICMP redirects to override OSPF generated routes' is set to 'Disabled' (Automated)

Profile Applicability:

Level 1 (L1) - Corporate/Enterprise Environment (general use)

Description:

Internet Control Message Protocol (ICMP) redirects cause the IPv4 stack to plumb host routes. These routes override the Open Shortest Path First (OSPF) generated routes.

The recommended state for this setting is: manual.

Rationale:

This behavior is expected. The probler ICMP redirect-plumbed routes tempor, will no longer be routed property for the limit the system's exposure to attacks network.

Impact:

When Routing and Remote Access Se system boundary router (ASBR), it doe routes, instead, this nouter injects host OGPP router cannot be used as an AS routes are imported into OSPP the res paths.

Navigate to the UI Path articulated in t

prescribed. This group policy setting i

Audit

and name value of a

Enabled. (ICMP redirects can override OSPF-generated routes.)

References:

Default Value:

Remediation:

Settings Catalog path to blashied.

redirects to overside 0077 generated routes

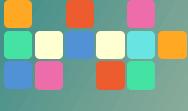
 https://techcommunity.microsoft.com/t5/microsoft-security-baselines/the-msssettings/ba-p/701055

To establish the recommended configuration via configuration profiles, set the following

ministrative Templates/MDE (Legacy) VES: (EnableIDWPRedirect) Allow 1

CIS Controls:

Controls Version	Control	IG 1	IG 2	IG 3
v6	4.1 Establish and Maintain a Secure Configuration Process Evaluation and motivation a secure configuration process for anterprise works (and-and relevant, including portation and motivation, removing-dig/for) if secure, and anterval and extreme (operating replaces and applications). Review and update documentation environment, or when algoficed extraprise charges soon that could input the Energieut.	•	•	•
v8	4.8 Uninstall or Disable Unnecessary Services on Enlerprise Assets and Software Unreal or deate unnecessy services or enlerprise seeds and others, and as an unavel 16 where ends, we splicitate models, or service functions		•	•





Implementing CIS Intune

DEMO

- 1. Select CIS Baselines: Choose CIS Policy Baselines from the dropdown, then pick Windows 10 or Windows 11.
- 2. Assign to customers: Apply the selected baseline to the relevant customer accounts.

Standardized environment-Why does it matter?

- MSPs, MSSPs, ISVs, VARs
- Reduces risk of misconfigurations
 - 74% of breaches include the human element
 - Either via Error, Privilege Misuse, Use of Stolen Credentials, or Social Engineering
 - Source: 2023 Verizon DBIR
 - Breaches caused by cloud misconfigurations:
 - Took 244 days to identify and contain
 - Cost an average of \$3.98M
 - Source: 2024 IBM Security Cost of a Data Breach Report
- Predictable results
- Enhances trust



Test time!!

NerdioCon

PALM SPRINGS

- Scan the QR code to the right or open the 1. short link in a browser.
- 2. Pass the exam.
- 3. Once you've passed the exam, bring a screenshot of your completed score to the registration desk to claim your certificate.

GOOD LUCK!



https://nerdio.co/Nerdio_PreCon_Intune_Mastery

Get in touch!

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rjimenez@getnerdio.com www.getnerdio.com

PALM SPRINGS

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