Intuneomator and IntuneLogWatch

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Open source tools to help you manage macOS devices in Intune

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The information presented here in no way shape or form represents the views of my employer



Introduction to Intuneomator

Automating macOS App Deployment in Intune



Streamlined macOS App Deployment:

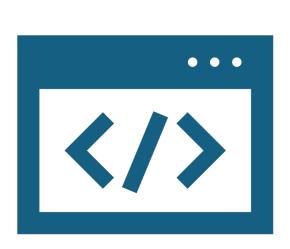
Intuneomator automates the packaging, uploading, and assignment of macOS apps within Microsoft Intune, reducing manual overhead for IT admins.

Built on Installomator:

Leverages 900+ predefined labels from Installomator, enabling rapid deployment of common macOS applications without custom scripting.

Simplifies Enterprise Management:

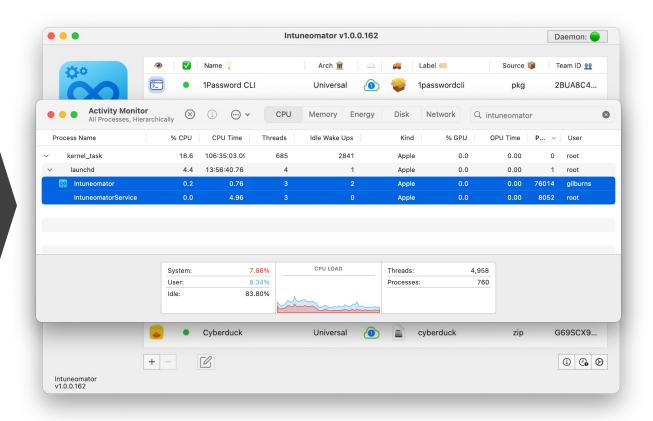
Provides IT teams with consistent, repeatable, and scalable workflows for app distribution across small or large macOS fleets.



Finding it on the web

- GitHub Project: https://github.com/gilburns/Intuneomator
- Wiki: https://github.com/gilburns/Intuneomator/wiki

Intune omator Main Service does Interface the real Work





- **Installomator Integration**: Supports 900+ pre-configured application labels
- Multiple Deployment Types: DMG, PKG, and Line of Business (LOB) delivery
- Architecture Support: Universal, ARM64, and Intel targeting
- PKG Building: Convert DMG to PKG to utilize the pre/post script functionality
- Universal PKG: Convert two separate apps (ARM and Intel) into a single universal PKG
- Script Support: Pre/post installation scripts for PKG type deployments
- **Group Targeting**: Precise user and device group assignments
- Filters: Add targeting filters with groups for LOB deployments
- Multiple Auth types: Choose between supported authentication types: Certificates or Secret Keys
- Teams Integration: Automated notifications and reporting

Setup Requirements

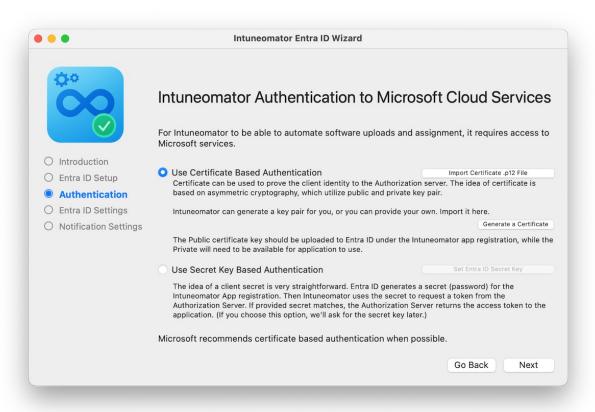
Mac Requirements

- macOS: 14.6 (Sonoma) or later
- Arm64: Apple Silicon M1 or greater
- Memory: 8GB RAM minimum, 16GB recommended
- Storage: 5GB free space for app and automation data.
- Each app you automate requires storage space
- Network: Reliable internet connection for Graph API calls

Microsoft Requirements

- Microsoft Intune: Active subscription
- Azure Active Directory
- Administrative Access: To setup an Enterprise App registration

First Run – Setup Wizard



Putting it together



- Automatic metadata lookups and icons for most **Installomator** labels
- Entra ID group assignments
- Intune App Categories
- Custom Labels
- Universal Packages
- Adobe CC Supported
- Teams Notifications

Special Features



Universal Packages: Takes the ARM version and Intel versions and automatically packages both into a single PKG with intelligence to installs the correct version at deployment time (You can get this with PhatPKG too)



Adobe Creative Cloud: Handles the multiple required files and command-line call for: "Install.app/Contents/MacOS/Install" --mode=silent"



Script Library: Pre-coded script included to use with PKG deployments. Add your own scripts to the library for reuse. Automatic variable substitution for given items like application name and application bundle id



App delivery: App items from vendors in non-supported formats are automatically transformed into Intune supported types. Non-PKG types can be optionally be automatically transformed into PKG for use of preinstall and postinstall scripts.

Management & Reporting

App Installation Status

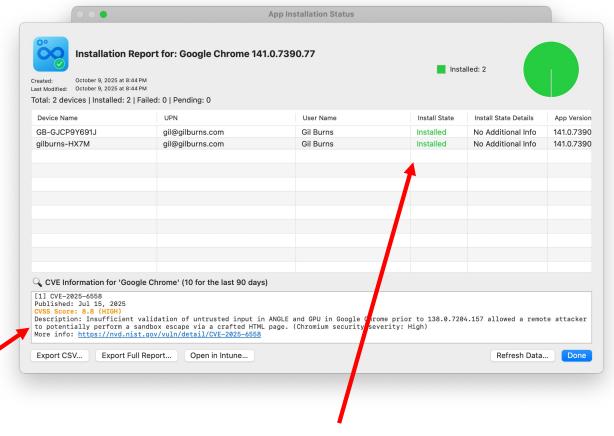
App Discovery

Custom Attributes and Shell Scripts

Web Clips

Intune report export and scheduled delivery

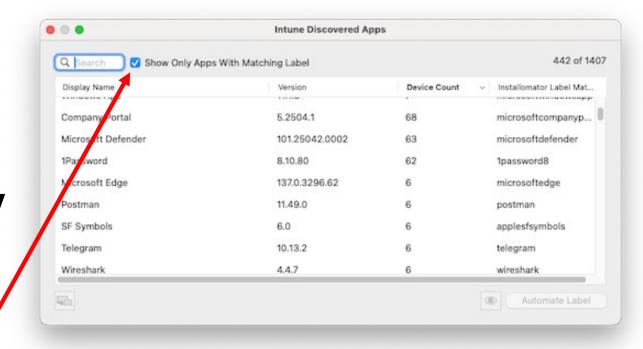
App Install Status



Related CVEs

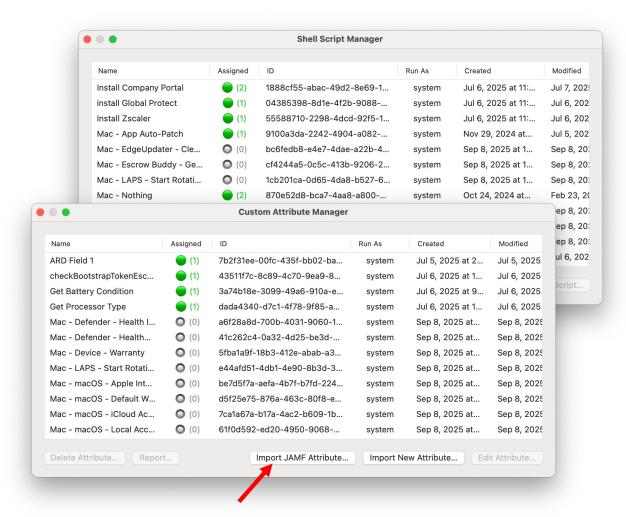
Devices and status

App Discovery



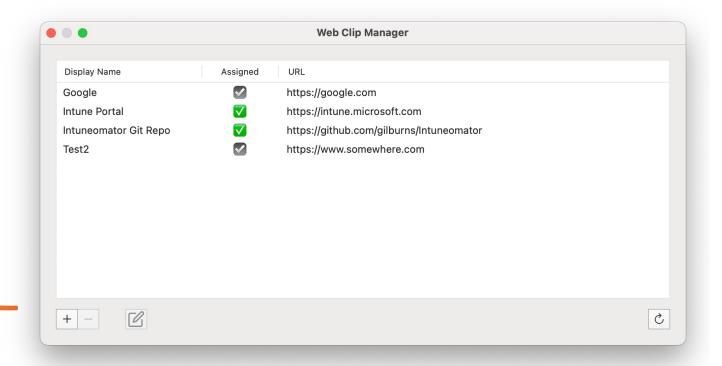
Titles with matching labels

Custom Attributes & Shell Scripts

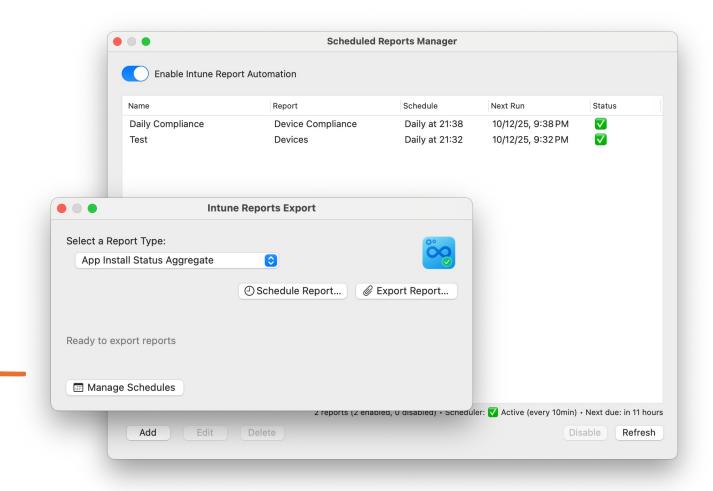


Import JAMF extension attributes

Web Clips



Intune Reports Export & Delivery



Scheduled reports requires Azure storage for delivery

Live Demo

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Deployment Example

Demonstrate converting a common macOS apps into an Intune deployments.

Group Assignment

Show how the app is assigned to a specific groups for deployment.

Status Verification

Review **Intune** console and/or **Company Portal** to confirm deployment success.



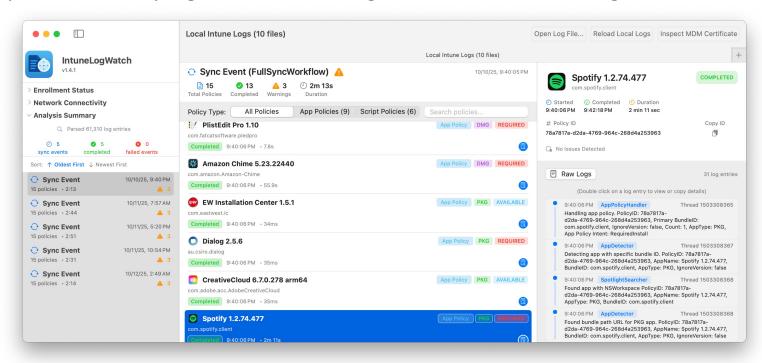
- PatchMyPC (86 titles)
 https://patchmypc.com/feature/mac os/
- IntuneBrew (510 titles)
 https://www.intunebrew.com
- Intune Uploader (autopkg processor)
 https://github.com/almenscorner/intune-uploader

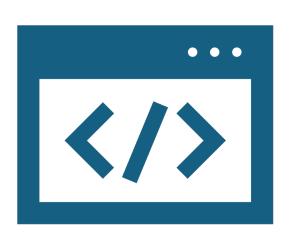
These all can work in the cloud and potentially don't require any on-prem infrastructure.

IntuneLogWatch



A macOS application for analyzing Microsoft Intune logs with human-readable insights





Finding it on the web

- GitHub Project: https://github.com/gilburns/IntuneLogWatch
- Wiki: https://github.com/gilburns/IntuneLogWatch/wiki

IntuneLogWatch on LinkedIn



Neil Johnson **⊘** · 1st

2w ...

Empowering Apple & Android Enterprise with Intune | Podcast ...

Can I just say how AWESOME this tool is, I use it virtually every day and it's a total game changer!

Love · ♥ 1 | Reply · 1 reply



Jason Kraft **②** ⋅ Following

Senior Software Engineer at Microsoft

This is so cool! I just shared it with the client team as well. I'm gonna give it a whirl next time I get a customer incident.

Love · ♥ 1 | Reply · 1 reply

Key Features

■ Three-Pane Analysis Interface

- · Left Pane: Sync events with status indicators and timing
- · Center Pane: Policies executed during each sync
- Right Pane: Detailed log entries and timeline view

Smart Log Analysis

- Automatically correlates events by Policy ID (GUID)
- Shows Started/Completed/Duration
- · Click the clipboard icon to copy the GUID to search in the Intune console

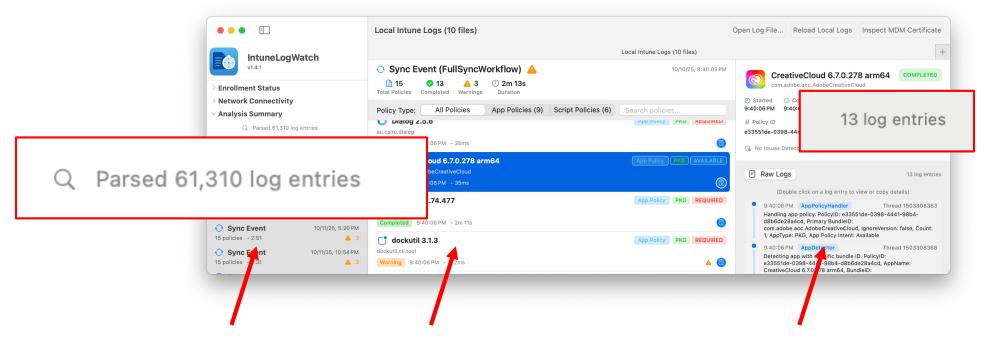
Policy Information Bubbles

- App Type: PKG or DMG installations
- Script Type: SCRIPT or ATTR
- Intent: Required, Available, or Uninstall
- Context: Root or User execution for scripts

App Icon Integration

- Displays actual app icons for installed applications
- Automatically retrieves icons from the system
- · Fallback icons for system policies and scripts

Interface Guide

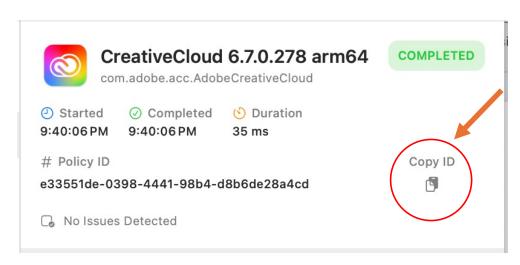


Sync Events

Policies in selected sync event

Logs for selected policy

Copy Options



- Standard Click: Copy Policy ID (GUID) to clipboard
- Option+Click: Copy Graph Explorer URL for API access or scripting
- **Control+Click**: Copy Intune Portal URL for direct policy editing

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MDM Certificate Inspection

- · Built into the GUI
- · Command line tool included in the app bundle
- You can run the CLI tool from here: /Applications/IntuneLogWatch.app/Contents/ MacOS/intunelogwatch-cli



Inspect Intune MDM certificate from the command line

USAGE: intunelogwatch-cli [--json] [--field <field>]
[--list-extensions] [--verbose] [--values-only]

OPTIONS:

-j, --json Output in JSON format
-f, --field <field> Extract specific field

(commonName, serialNumber, tenantId, etc.)

--list-extensions List all available

extensions

-v, --verbose Enable verbose output

--values-only Show only extension values without names

--version Show the version.

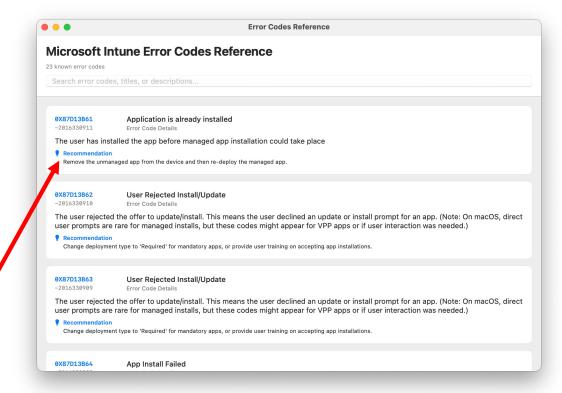
-h, --help Show help information.



gilburns — run_intune_cli.sh — zsh — 116×8

gilburns@gilburns-HX7M ~ % /Applications/IntuneLogWatch.app/Contents/MacOS/intunelogwatch-cli --field deviceId D4C1A127-8B03-401E-A846-0ED8865066D9 gilburns@gilburns-HX7M ~ %

Built-In Intune Error Code Reference



Includes actionable recommendations for every error code

Live Demo



Load the local logs

Demonstrate the three-panel interface and show the events, policies and connected log entries

Error Code Reference

Demonstrate the built in searchable Error Code Reference pane that includes recommendations for handling errors.

MDM Certificate Inspection

Demonstrate the built in MDM certificate inspector. Extract various attributes with the built in command line too.

Intuneomator



IntuneLogWatch



Any Questions?