# Mastering macOS Management with Microsoft Intune

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# What Are We Going To Discuss Today?

- Platform Single Sign On
- Local Account Management
- DDM & RRS
- App Deployment
- Tip, Tricks & Treats
- Tools & Resources

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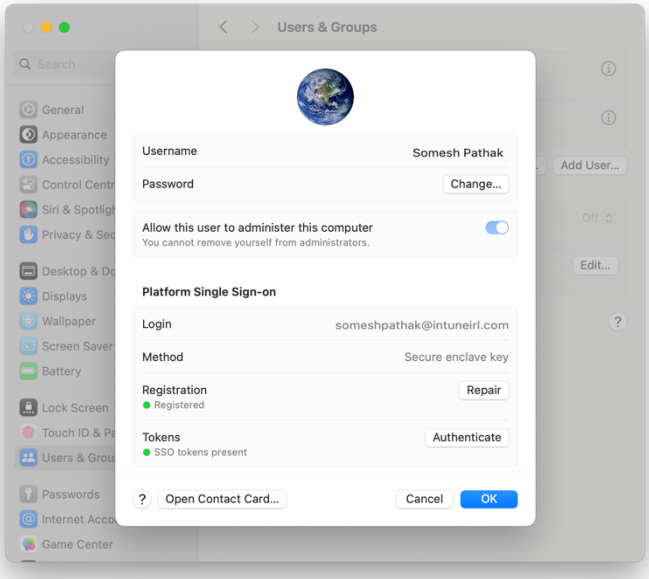
# Platform Single Sign-On

What’s the buzz…"Single Sign-On: because for remembering lunch orders, not your team's memory space is better used passwords

# How Does It Works??

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# MDM Configuration

- Platform SSO is enabled through the com.apple.extensiblesso payload
- Supports four types of authentication
- The MDM profile must be a System profile when using shared device key
- Not possible to locally create & install the profile
- Used to register encryption keys, unlock the Mac at login window & screensaver unlock

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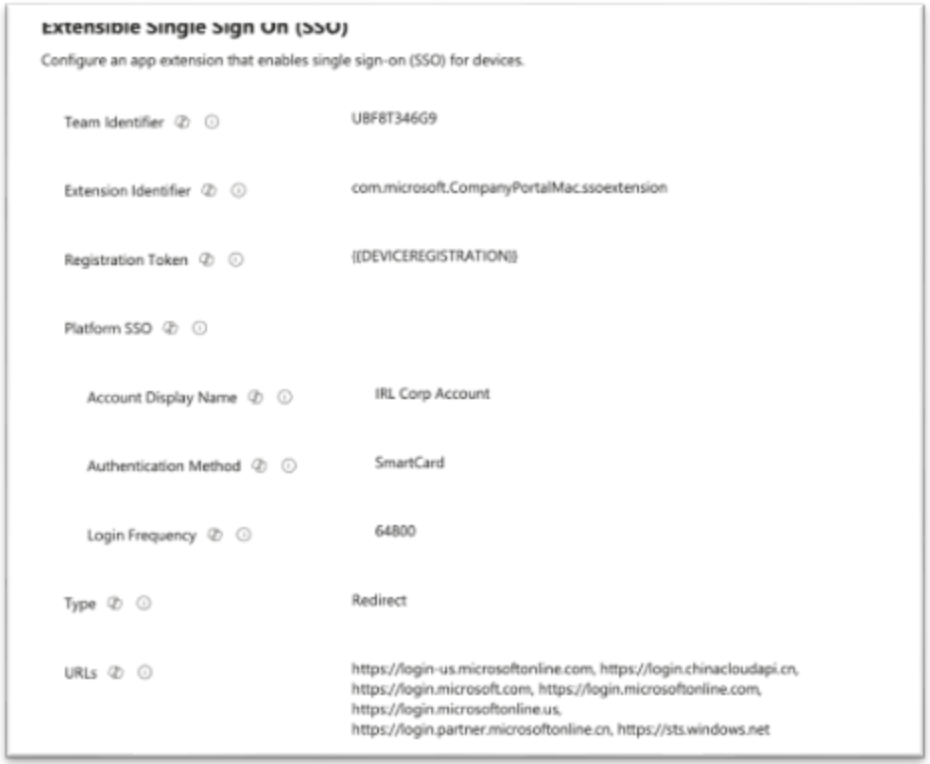
# MDM Configuration



**Extensible Single Sign On (SSO)**

Configure an app extension that enables single sign-on (SSO) for devices.

| | |
|---|---|
| Team Identifier | UBF8T346G9 |
| Extension Identifier | com.microsoft.CompanyPortalMac.ssoextension |
| Registration Token | {{DEVICEREGISTRATION}} |
| Platform SSO | |
| Account Display Name | IRL Corp Account |
| Authentication Method | SmartCard |
| Login Frequency | 64800 |
| Type | Redirect |
| URLs | https://login-us.microsoftonline.com, https://login.chinacloudapi.cn, https://login.microsoft.com, https://login.microsoftonline.com, https://login.microsoftonline.us, https://login.partner.microsoftonline.cn, https://sts.windows.net |

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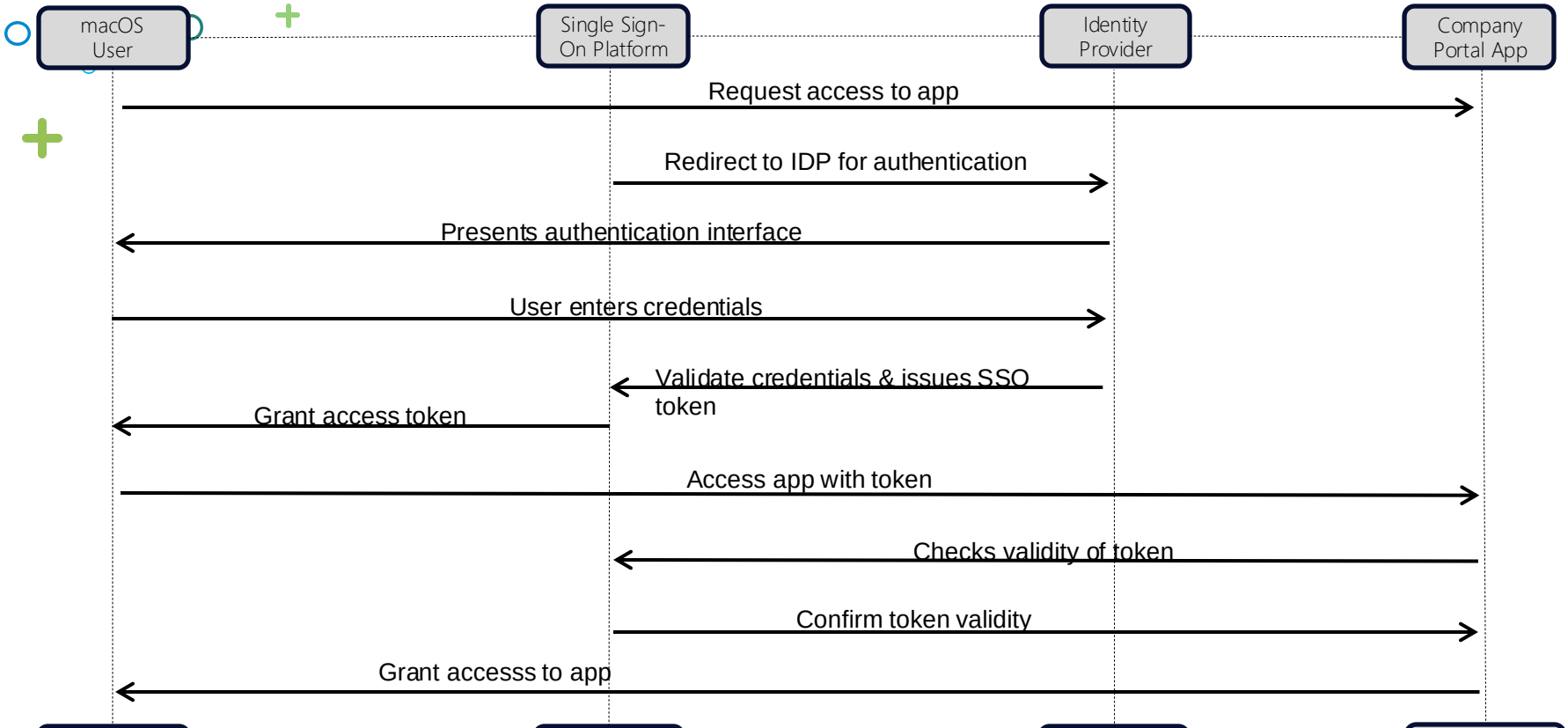
# Platform SSO:
# Behind The Scenes

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# DEMO: Platform SSO Passwordless!

# Declarative Device Management

Declarative Device Management is like having a smart assistant for your devices. You tell it what the end state should look like, and voilà! It figures out the 'hows' faster than you can say 'automate my tasks, please…

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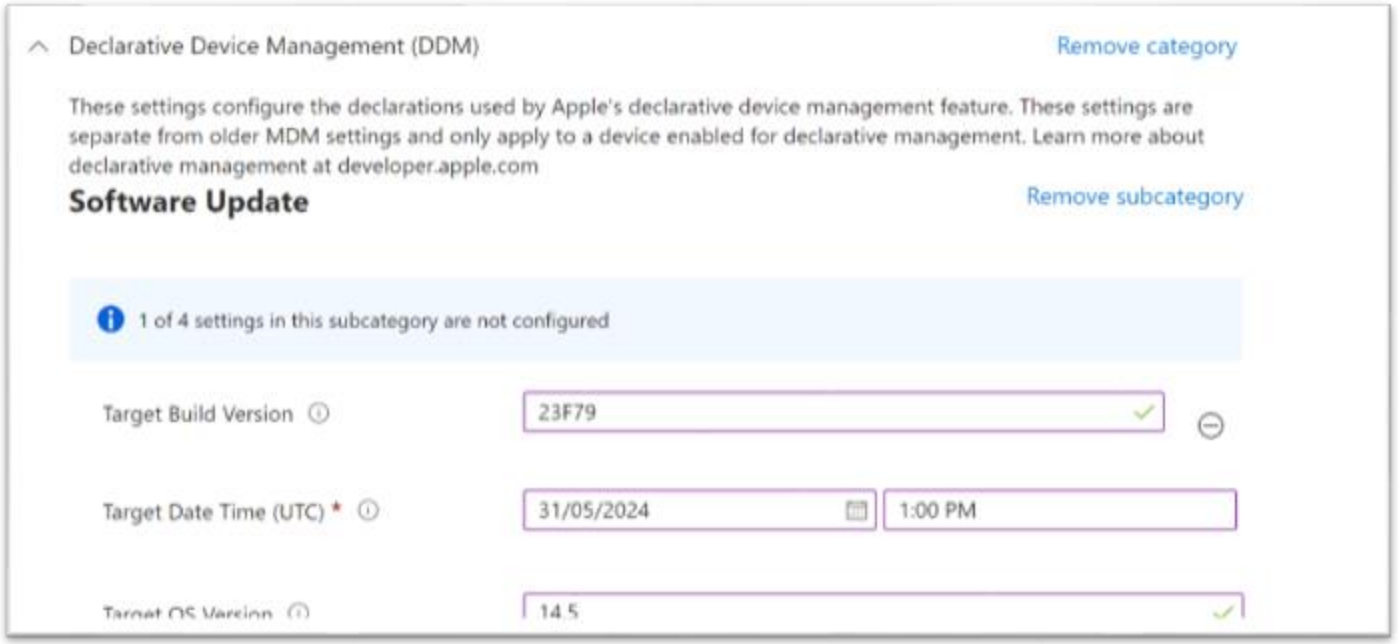
# MDM Configuration

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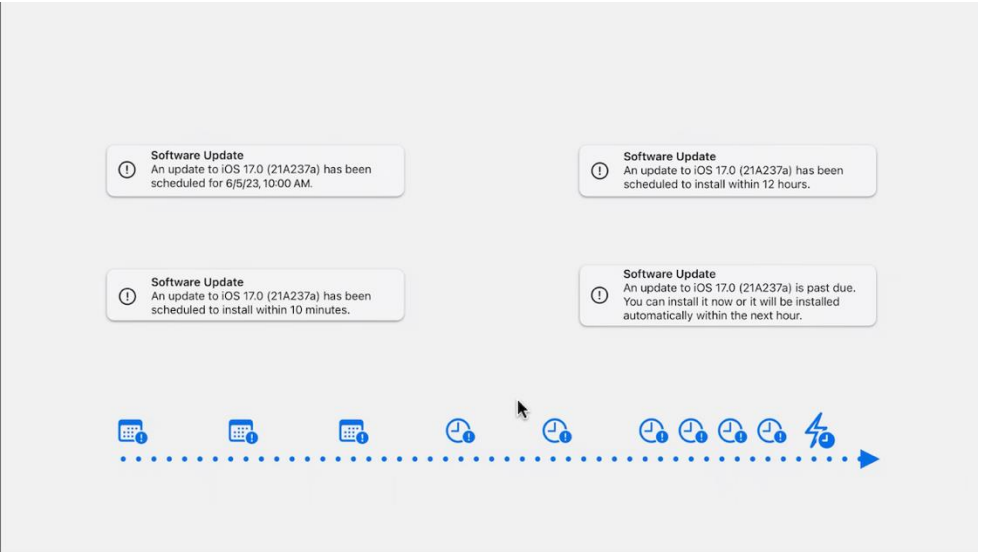
# Oops! I Missed The Deadline



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| 30 days | 14 days | 24 hours | | 1 hour |
|---|---|---|---|---|
| Settings UI | Notifications | Settings UI | Notifications | Notifications |
| | | | | |
| Update available | Daily Notification | Update available | Hourly notifications | Managed install pending |
| | | | | |
| User Options | User Options | User Options | | User Options |
| Update Now | Update Now | Update Now | Update Now | 60 minutes |
| Update later | Update Later | Install on schedule | Install on schedule | 30 minutes |
| | | | | 10 minutes |
| | | | | 60 seconds |
| | | | | Update is forced |
| | | | | Reboot |

# Rapid Security Response

Rapid Security Responses are a new type of software release for iPhone, iPad, and Mac. They deliver important security improvements between software updates

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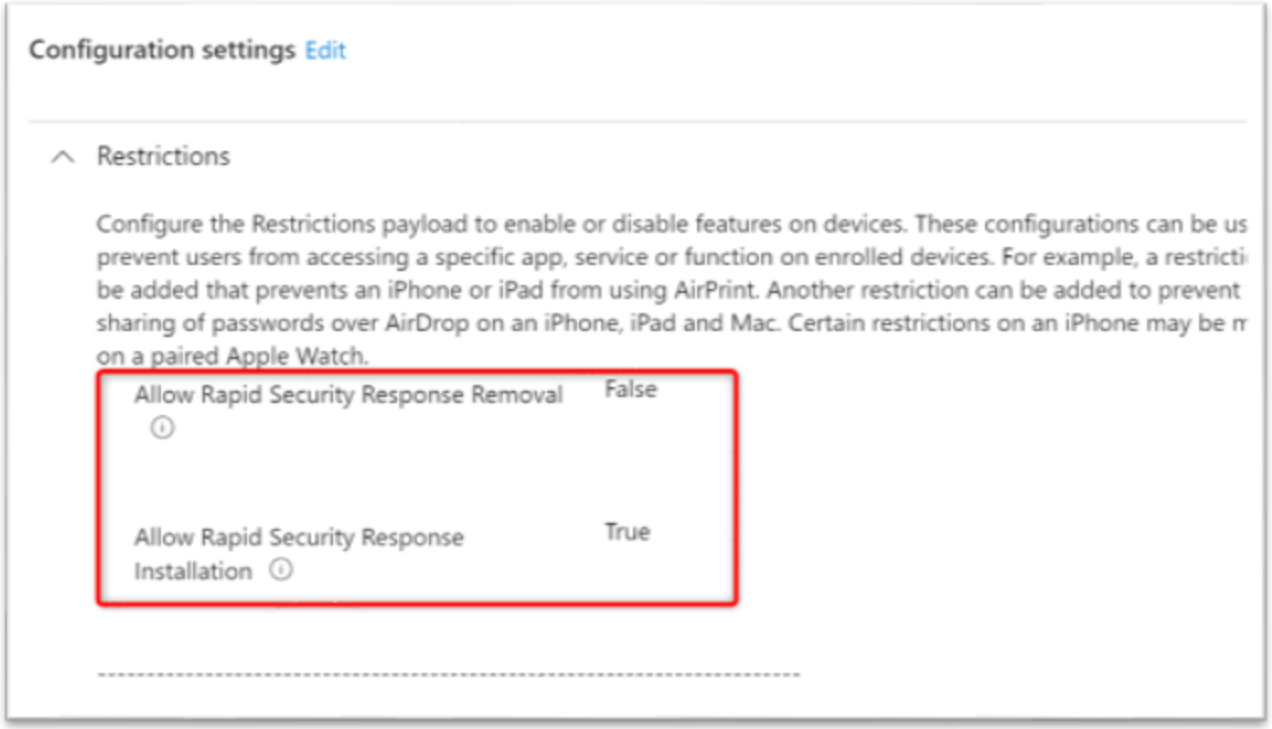
# MDM Configuration

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# Rapid Security Response: Behind The Scenes

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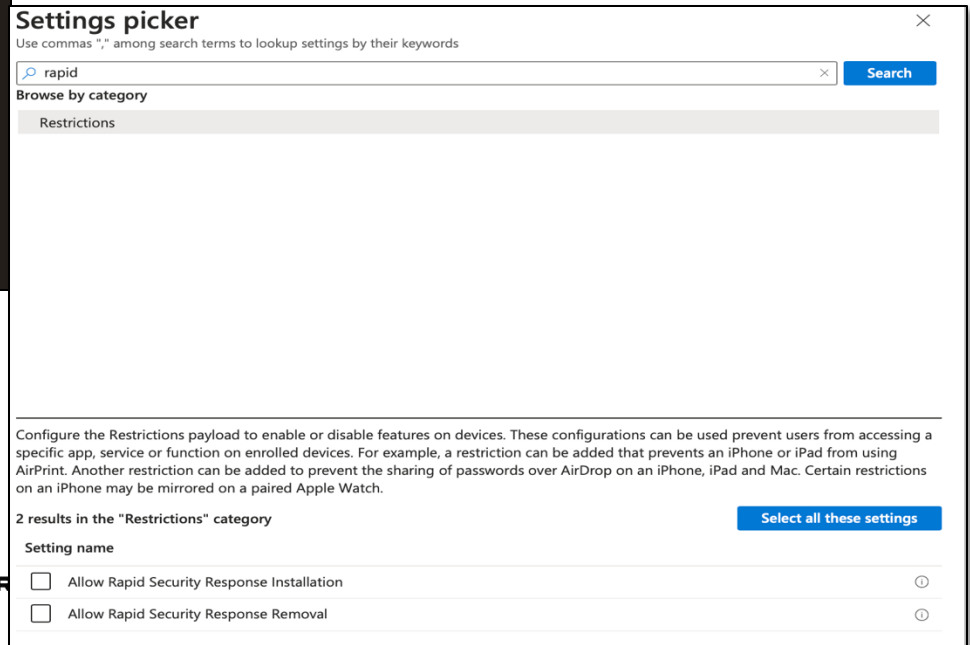
# Rapid Security Response

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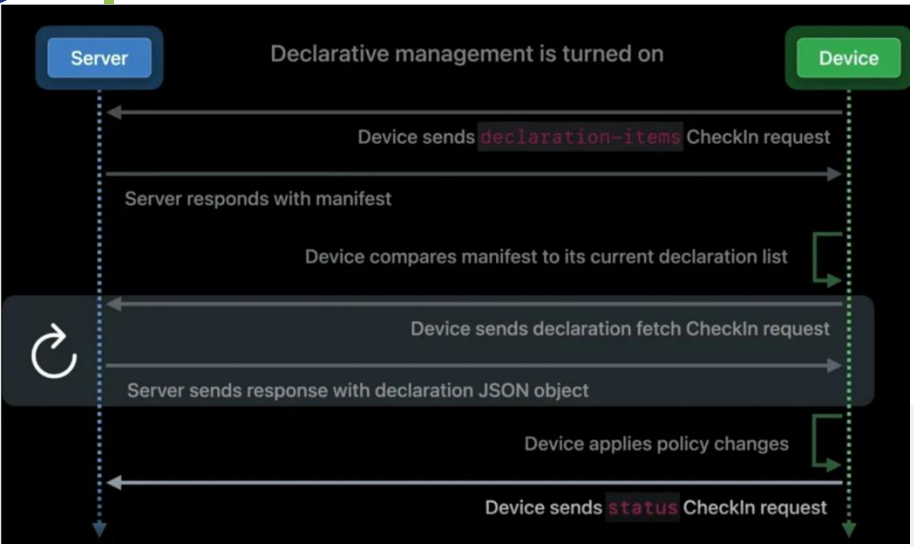
# Rapid Security Response




```
{
  "Type": "com.apple.configuration.softwareupdate.enforcement.specific",
  "Identifier": "9DF890F2-D19D-4BB0-9167-CE8281714612",
  "ServerToken": "26EB91D1-16C2-48D8-A88C-9687D6E8AAAE",
  "Payload": {
    "TargetOSVersion": "14.0",
    "TargetBuildVersion": "23A500",
    "TargetLocalDateTime": “2023-06-05T10:00:00"
  }
}
```

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# Off The Press

- FileVault enabled during enrollment (GA)
- Remote help full control (GA)
- Universal Print (public preview)
- Managed device attestation (private preview)

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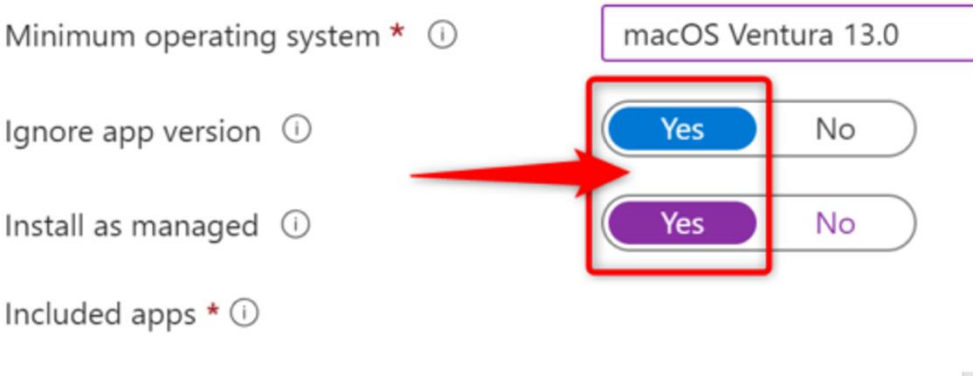
# App Deployment

# LOB - Managed Apps

You can wave goodbye to the app with the ‘uninstall assignment type’ on devices that support this feature.

When you decide to pull the plug on the MDM profile (remove it), it’s like a clean sweep – every managed app, along with its data, gets whisked away from the device

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# Ignore App Version

## NEED TO KNOW:

| **Ignore App version** setting | App install status on Device | App Deployment action |
|---|---|---|
| **YES** | App is NOT found | Deploy the app |
| | App is installed: Other version | Do not deploy |
| **NO** | App is NOT found | Deploy the app |
| | App is installed: Other version | Deploy the app |

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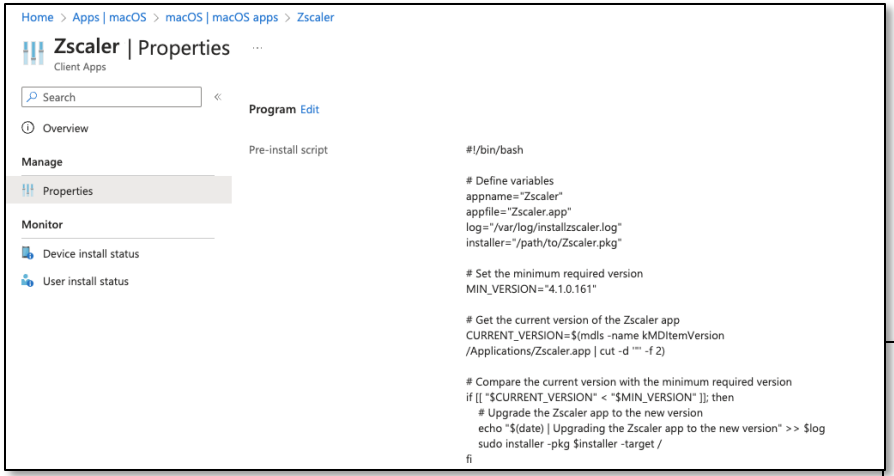
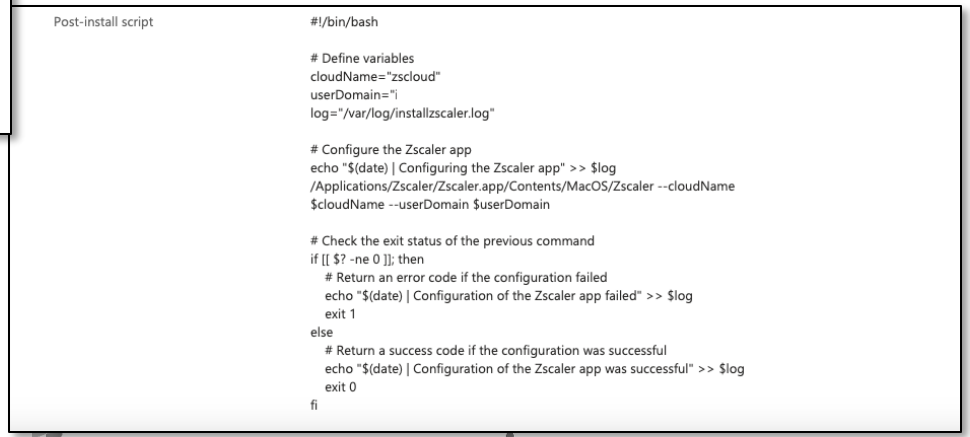
# PKG Apps - Pre & Post Scripts

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# Tips, Tricks & Treats

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# .plist

## Purpose:

Used to store settings and configuration data for applications and system components.

## Examples:

- Application settings: com.apple.dock.plist
- System preferences: com.apple.systempreferences.plist

## Why use plist files?

- They provide a straightforward way to store and retrieve application settings, user preferences, and other configuration data.

## When to use plist files?

- Developing macOS or iOS applications that require persistent storage for configuration data.
- Configuring system preferences or settings that need to be applied across reboots.

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# .mobileconfig

## Purpose:

Used to deploy configuration profiles to Apple devices, including macOS, iOS, and iPadOS, enabling centralized management of settings and policies.

## Examples:

- Wi-Fi configurations, VPN settings, email accounts. For example; WiFiProfile.mobileconfig

## Why use .mobileconfig files?

- A mobileconfig file is an XML file used to define settings and policies for Apple devices, which can be deployed remotely.

## When to use mobileconfig files?

- When setting up new devices to ensure they meet organizational policies.
- When updating device settings remotely without needing physical access to the device.
- For enrolling devices in MDM (Mobile Device Management) solutions.

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# Tools

# PLISTWATCH

**Purpose:**

**PlistWatch monitors real-time changes to plist files on your system. It outputs a defaults command to recreate that change.**

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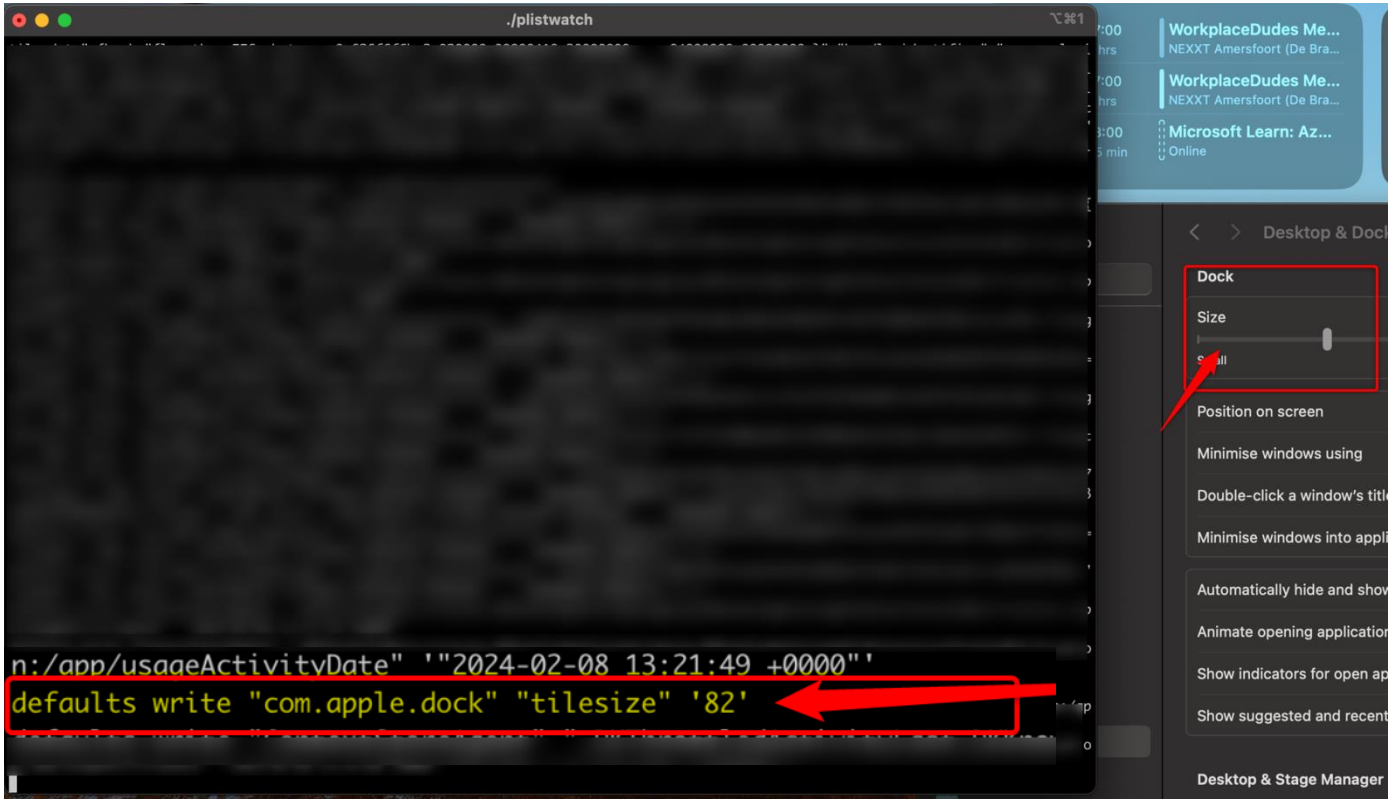


https://github.com/catilac/plistwatch

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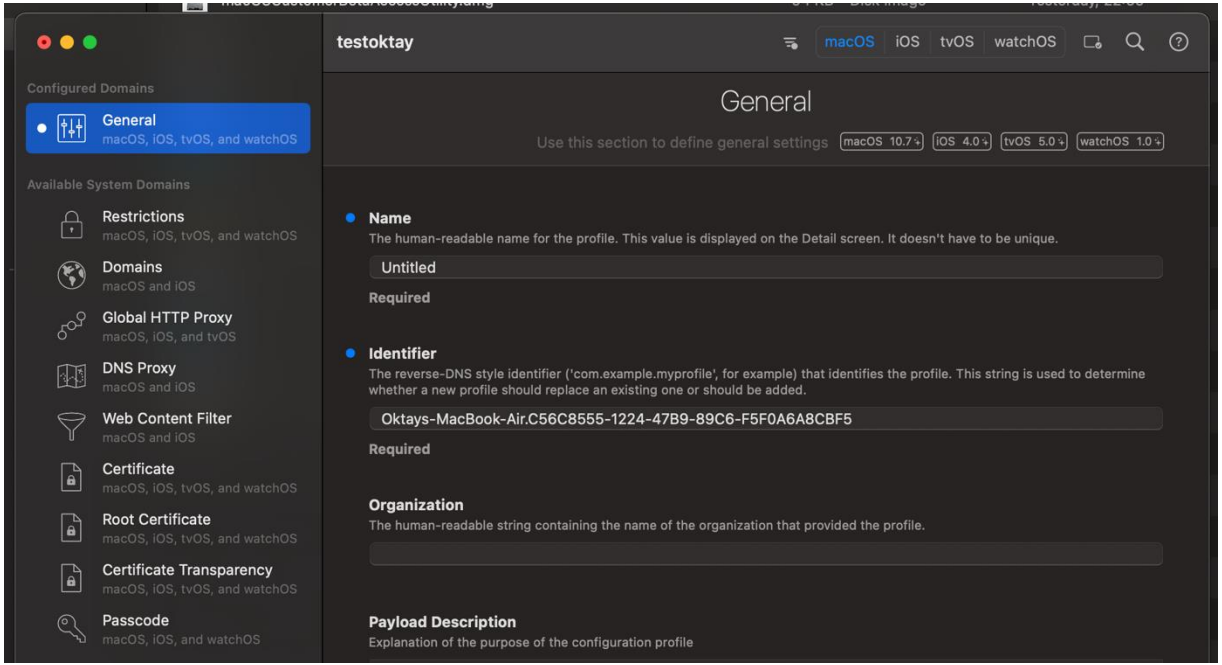
# iMazing Profile Editor




https://imazing.com/profile-editor

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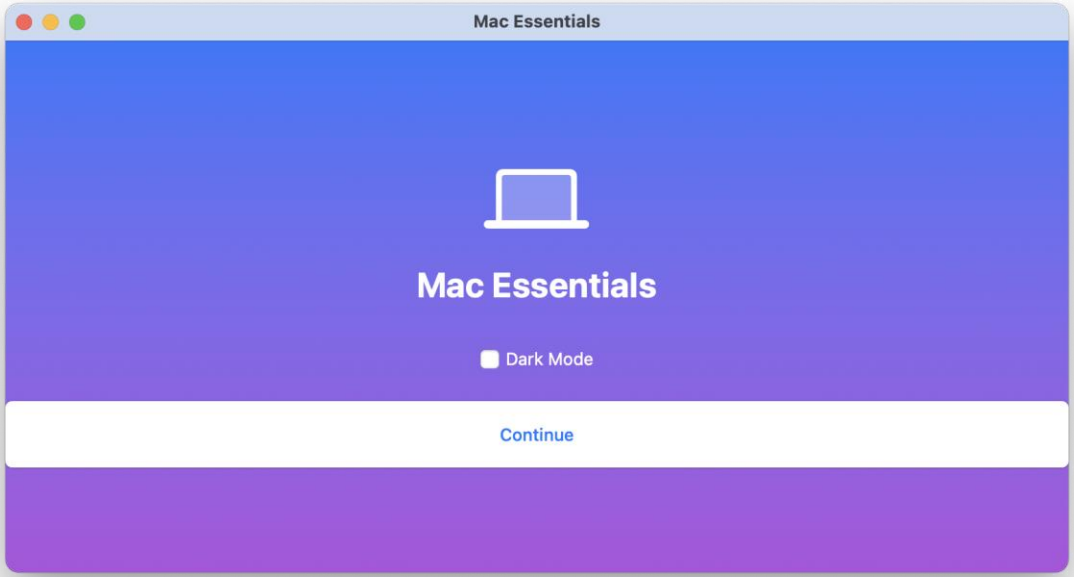
# Treats

# Mac Essentials

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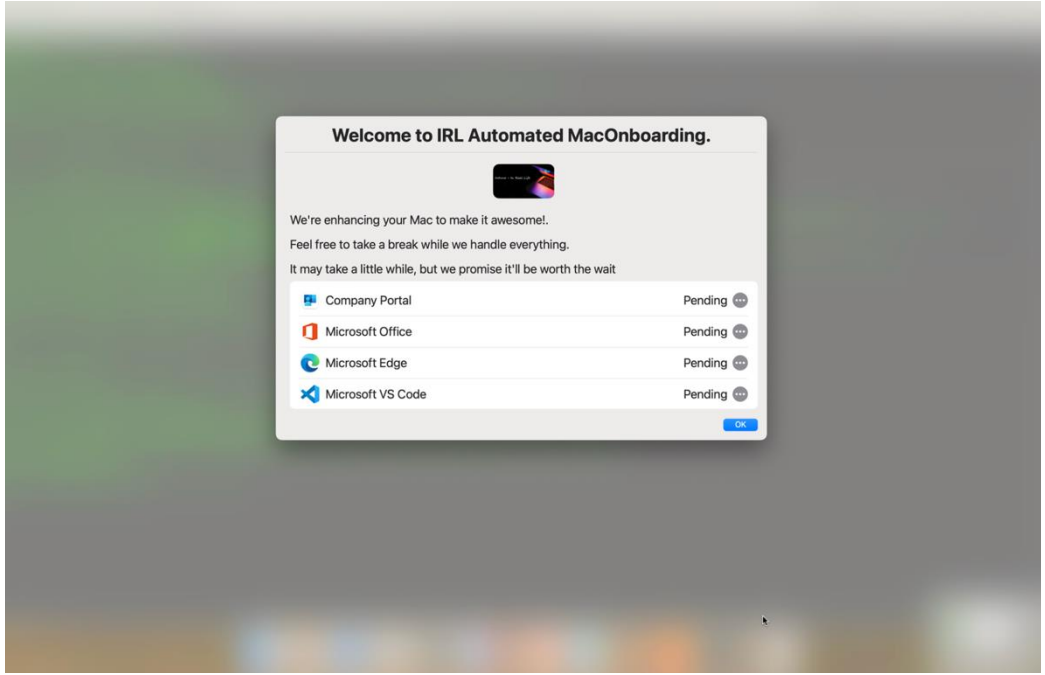
# Swift Dialog Video

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# Resources

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# Resources

- Apple Platform Deployment Guide
- Apple Security Guide
- Apple Seed for IT
- Community Channels
- Microsoft Learn

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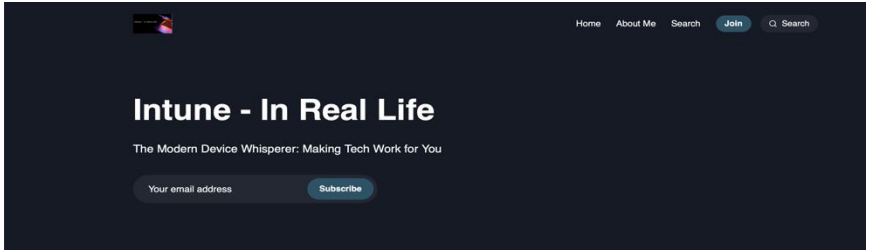
# Resources

## Intune In Real Life

https://www.intuneirl.com




## AllThingsCloud

https://allthingscloud.blog

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Please evaluate this session in the App.

# THANK YOU

**Are there any questions?**