

Workplace Ninja User Group Finland

31.10.2025

Etätapaaminen



Workplace Ninja
User Group Finland

macOS-hallinnan osa 3/4 – sovellukset ja skriptit

Petri Paavola, Ninja MVP





macOS Intune-sovellusjakelut

PKG DMG VPP/StoreApp OfficeSuite ...

macOS Shell-skriptit

Vain taivas on rajana ?-)

Custom attributes for macOS

Custom inventaario skripteillä

macOS Community Tools

Näissä on aika herkkuja ☺

Petri Paavola

**Microsoft MVP –
Windows and Intune**

Senior Modern Management Principal

Petri.Paavola@yodamiitti.fi

Skills

- › Powershell / Graph API
- › AI
- › Windows Autopilot + Intune + Intune for Edu
- › Modern Device Management
Win,macOS,Linux,iOS,Android
- › Traditional on-prem deployment and management
- › Consulting & Training



[@petripaavola](https://github.com/petripaavola)
[@intune.ninja](https://intune.ninja)
<https://github.com/petripaavola>
[Intune.ninja](https://intune.ninja)
[Powershell.ninja](https://powershell.ninja)

Over 25 years of work experience

Current (10+ years):

- › Yodamiitti Oy / Owner
Consulting / Training

Past:

- › Aalto university / IT-services
Responsible for Workstation service



Intune macOS-sovellusjakelut

PKG DMG VPP/StoreApp OfficeSuite ...





Intune macOS-sovellusjakelut

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- Kaikki sovellukset saadaan nykyään jaettua Intunen keinoin
 - Kaikki ?-)
- PKG
- DMG
- Microsoftin sovellukset built-in: mm. Office ja Edge
- Apple[Business|School]Manager/Store VPP

Select app type

Create app

App type

Select app type

Microsoft 365 Apps

macOS

Microsoft Edge, version 77 and later

macOS

Microsoft Defender for Endpoint

macOS

Web Application

macOS web clip

Other

Web link

Line-of-business app

macOS app (DMG)

macOS app (PKG)



Intune macOS-sovellusjakelut

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- **3rd party sovellushallinta: mm. Munki, Homebrew, IntuneBrew, ...**
- **Mitä tahansa Shell-skriptien kautta**
 - <https://github.com/microsoft/shell-intune-samples/tree/master/macOS>

Select app type

Create app

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- Ensisijaisin pakettiformaatti?
- Pre-install script
- Post-install script
- Detection rule automaattisesti, mutta raahaa ylimmäksi pää-appsi

App information Program Requirements **Detection rules** Review + save

Ignore app version ⓘ Yes No

Configure the app bundle identifiers and version numbers to be used to detect the presence of the app.

Included apps

i Provide the list of apps included in the uploaded file. The app list is case-sensitive. The app listed first is used as the primary app in app reporting. [Learn more about included apps](#).

App bundle ID (CFBundleIdentifier)	App version (CFBundleShortVersionString)	
com.microsoft.CompanyPortalMac	5.2508.0	
org.cocoapods.RxSwiftExt	6.2.1	
org.cocoapods.UnifiedTelemetryKit	0.0.1	



DMG

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- Ei pre- ja post-skriptejä
- Detection rule täytyy hakea itse
- Joko komennolla:
 - defaults read "/Applications/Google Chrome.app/Contents/Info" CFBundleIdentifier
 - defaults read "/Applications/Google Chrome.app/Contents/Info" CFBundleShortVersionString
- Tai mountatun dmg-Imagen tai asennetun Appsin hakemistosta:
 - Contents/Info.plist

App information Requirements **Detection rules** Review + save

Ignore app version ⓘ Yes No

Configure the app bundle identifiers and version numbers to be used to detect the presence of the app.

Included apps

ⓘ Provide the list of apps included in the uploaded file. The app list is case-sensitive. The app listed first is used as the primary app in app reporting. [Learn more about included apps.](#)

App bundle ID (CFBundleIdentifier)	App version (CFBundleShortVersionString)
org.mozilla.firefox	126.0
<input type="text" value="Enter bundle ID"/>	<input type="text" value="Enter app version"/>



Hyvää dokumentaatiota jakeluista

www.wpninjas.fi

- Lue Ugurin IntuneBrew-saitin ohjeet
- Hyvää yleistä tarinaa sovellusjakeluista
- <https://docs.intunebrew.com/docs/Managing-macOS-Apps-in-Microsoft-Intune>

Select app type

Create app

App type

Select app type

Microsoft 365 Apps

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Microsoft Edge, version 77 and later

macOS

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macOS app (PKG)



Intune macOS-sovellusjakelut

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DEMO

Intune macOS Shell-skriptit





Intune macOS Shell-skriptit

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- Konfiguraatiot
- Sovellusjakelut
- Mitä jännää olette tehneet skripteillä?

The screenshot shows the Microsoft Intune admin center interface. On the left is a navigation sidebar with links like Home, Dashboard, All services, Explorer, Devices, Apps, Endpoint security, Reports, Users, Groups, Tenant administration, and Troubleshooting + support. The main content area has a breadcrumb trail: Home > Devices | macOS > macOS | Scripts > Intune MDM logs. The title is "Intune MDM logs | Properties". The "Properties" tab is selected under the "Manage" section. The "Basics" section shows the name "Intune MDM logs" and a note "No Description". The "Settings" section includes options for "Run script as signed-in user" (No), "Hide script notifications on devices" (Yes), "Script frequency" (Every 1 day), and "Max number of times to retry if script fails" (3 times). A code editor on the right displays a shell script named "diagnoseScript.sh":

```
1 #!/bin/bash
2 #set -x
3 OUTPUT='/Library/Logs/Microsoft/Intune/mdmDiagnose'
4
5 # Clean up and re-create output directory
6 sudo rm -r $OUTPUT
7 mkdir -p "$OUTPUT"
8
9 exec &> >(tee -a "${OUTPUT}/mdmDiagnose.log")
10
```

- <https://github.com/microsoft/shell-intune-samples/tree/master/macOS/Config>



Intune macOS Shell-skriptit

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DEMO

Custom attributes for macOS

Custom inventaario omilla skripteillä





Custom attributes for macOS

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- Hae koneista inventaariotietoa skriptien avulla

- <https://github.com/microsoft/shell-intune-samples/tree/master/macOS/Custom%20Attributes>
- <https://ugurkoc.de/get-local-admins-and-last-reboot-time-on-macos-devices-using-custom-attributes/>
- https://www.intunemacadmins.com/custom-attributes/what_are_custom_attributes/
- https://www.intunemacadmins.com/custom-attributes/create_custom_attributes/

The screenshot shows the Microsoft Intune admin center interface. On the left, there's a navigation sidebar with links like Home, Dashboard, All services, Explorer, Devices, Apps, Endpoint security, Reports, Users, Groups, Tenant administration, and Troubleshooting + support. The main content area has a breadcrumb path: Home > Devices | macOS > macOS. The title is "macOS | Custom attributes for macOS". Below the title is a search bar and a toolbar with Create, Refresh, Export, and Columns buttons. A secondary search bar is at the bottom of the page. The main content is a table of custom attributes:

Attribute name ↑	Attribute type
Get Edge version	String
Get Battery Condition	String
Get Processor Type	String
Last Reboot Time	String
Get Chrome version	String
macOS Custom Attributes	String
Get Physical RAM	String
macOS Get IP Address	String
Get Intune Company Portal Version	String
Get Battery Cycles	String
Check local Administrators	String

Below this, another section titled "Check local Administrators | Device status" is shown. It has a search bar and a toolbar with Export and Columns buttons. The table header for this section includes columns for Device name, User name, OS Version, Status, Result, and Last Updated. One row is visible: Petri's MacBook Air, petri.paavola@yodamiiitti.fi, 26.0.1 (25A362), Succeeded, root Admin _mbsetupuser, 2025-10-30T21:10:16Z.



Custom attributes for macOS

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DEMO

macOS Community Tools

Ei kai kaikkea tarvitse keksiä itse ☺





HomeBrew

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- **Homebrew** is a powerful, open-source package manager that makes it effortless to install, update, and manage software on macOS (and Linux). With a single command, IT admins and developers can automate app deployment, libraries, and CLI tool installations.

- **Key highlights:**

- Installs apps and tools directly from the command line (`brew install`)
- Manages dependencies and updates with ease
- Supports custom repositories (“taps”) for organization-specific packages
- Integrates well with automation workflows and CI/CD pipelines
- Backed by a large and active open-source community

- <https://brew.sh/>

The screenshot shows the official Homebrew website. At the top is a large orange logo featuring a steaming mug of beer. Below the logo, the word "Homebrew" is written in a large, bold, orange sans-serif font. Underneath the title, the tagline "The Missing Package Manager for macOS (or Linux)" is displayed in a smaller, orange font. A search bar with a magnifying glass icon and the placeholder text "Search" is positioned above a language selection dropdown set to "English". A keyboard shortcut "CTRL K" is shown to the right of the search bar. The main content area features a large, bold "Install Homebrew" button in orange. Below the button is a terminal-style code block containing the command: `$ /bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"`. The entire page has a dark background with orange and white text elements.



IntuneBrew

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- Pakettien lataus Intuneen täysin automaattisesti
- App sourcena toimi HomeBrew
- Hallinta joko
- <https://www.intunebrew.com/>
- Tai PowerShell-skriptillä:
./IntuneBrew.ps1
- <https://github.com/ugurkocde/IntuneBrew>

The screenshot shows the GitHub page for the IntuneBrew project. The title is "Simplify macOS App Management in Intune". It describes the project as offering a web portal, a PowerShell script, and an Azure Runbook for automating patch management. Key statistics include 510 apps available, 186 stars, 7 contributors, 589 commits, and 36 forks. A "Quick Start Guide" section provides PowerShell commands (e.g., PS C:\> Install-Script IntuneBrew -Force) and instructions for PowerShell 7 and Admin rights. Below the stats, it says "Trusted by Intune Administrators Worldwide" with a badge showing 2,260 users. A "Latest Available Updates" section shows a Bitwarden update from 2025.8.2 to 2025.9.0.



IntuneBrew Companion

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- IntuneBrew Companion
- Intune Company Portalin "kilpailija"

The screenshot shows the IntuneBrew Companion application running on a Mac. The top bar displays the title 'IT Self-Service Portal' and 'IntuneBrewCompanion'. It shows a connection status of 'Connected' (5 minutes ago) and the device 'macbook-air-von-ugur.local' (ugurkoc). On the right, there are buttons for 'Check Updates' and 'Settings'. Below the top bar, a summary section provides quick stats: 31 Total Apps Installed, 15 Homebrew Managed, 0 Updates Available, 63% Health Fair, and 16 Can Migrate Apps. A search bar and a dropdown menu for sorting by 'Name' are also present. The main area is titled 'Installed' and shows a grid of app icons with their names and versions. The apps listed include Battle.net (2.48.0.10786), Bitwarden (2025.7.0), brewpkg (1.3.0), CapCut (6.6.2708), Claude (0.12.1112), Code (1.104.0), CrystalFetch (2.2.0), Discord (0.0.353), DisplayLink Manager (1.12.1), Infuse (8.2.5), Keka (1.3.2), LM Studio (0.3.25), Microsoft Defender Shim (101.24089.0.0001), and Notion (4.18.1).

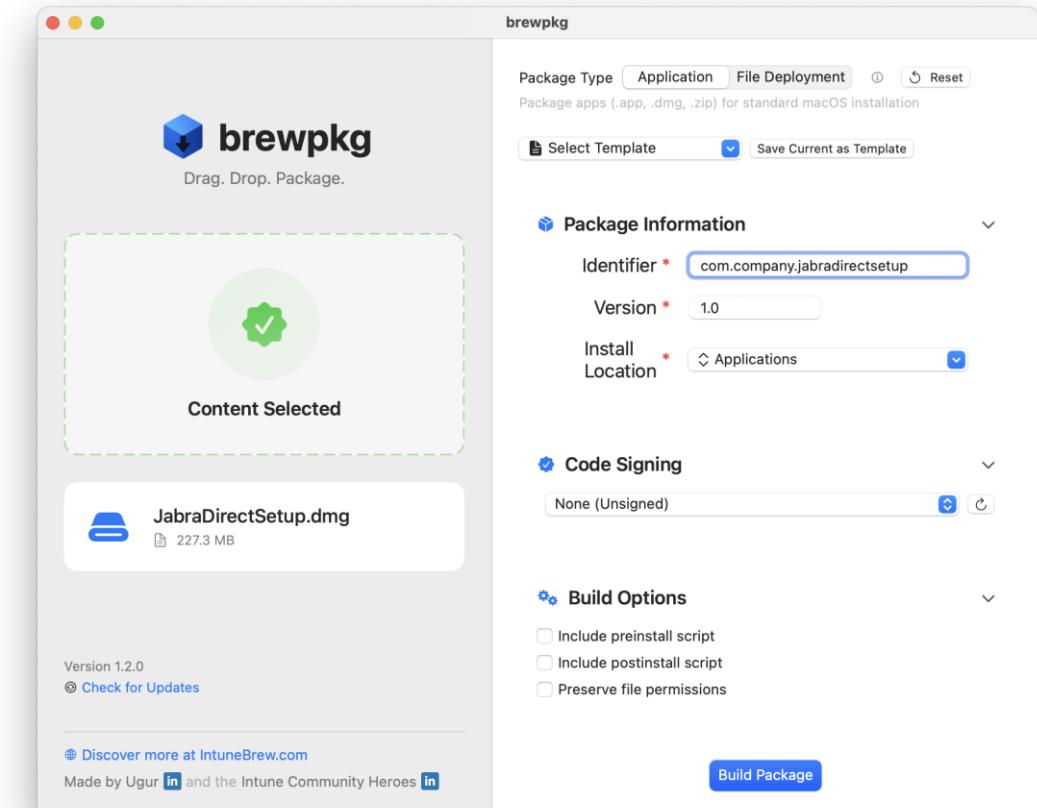
- <https://github.com/ugurkocde/IntuneBrew>



brewpkg

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- **brewpkg**
- **Paketoit sovelluksia helposti**
- <https://github.com/ugurkocde/brewpkg>





Araelium: Packagebuilder

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- Paketoi sovelluksia helposti



- <https://www.araelium.com/packagebuilder>



Installomator

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- Open-source
- Asenna sovelluksia Intune Shell -skripteillä
- 1000+ sovellusta
 - [https://github.com/Installomator/Installomator/
blob/main/Labels.txt](https://github.com/Installomator/Installomator/blob/main/Labels.txt)
- <https://github.com/Installomator/Installomator>





AutoPkgr

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- **AutoPkgr** is a free, community-driven macOS tool that simplifies application packaging and deployment automation. It provides a **graphical interface for AutoPkg**, allowing IT admins to easily download, package, and distribute macOS applications without needing to write complex scripts.
- **Key highlights:**
 - Automates app updates, packaging, and recipe management
 - Integrates with tools like **Munki, Jamf Pro, and Microsoft Intune**
 - Ideal for simplifying large-scale macOS app maintenance
 - Built and maintained by the macOS admin community
- <https://github.com/lindigroup/autopkgr>
(varmista oikea repo, mutta työkalu on AutoPkgr)

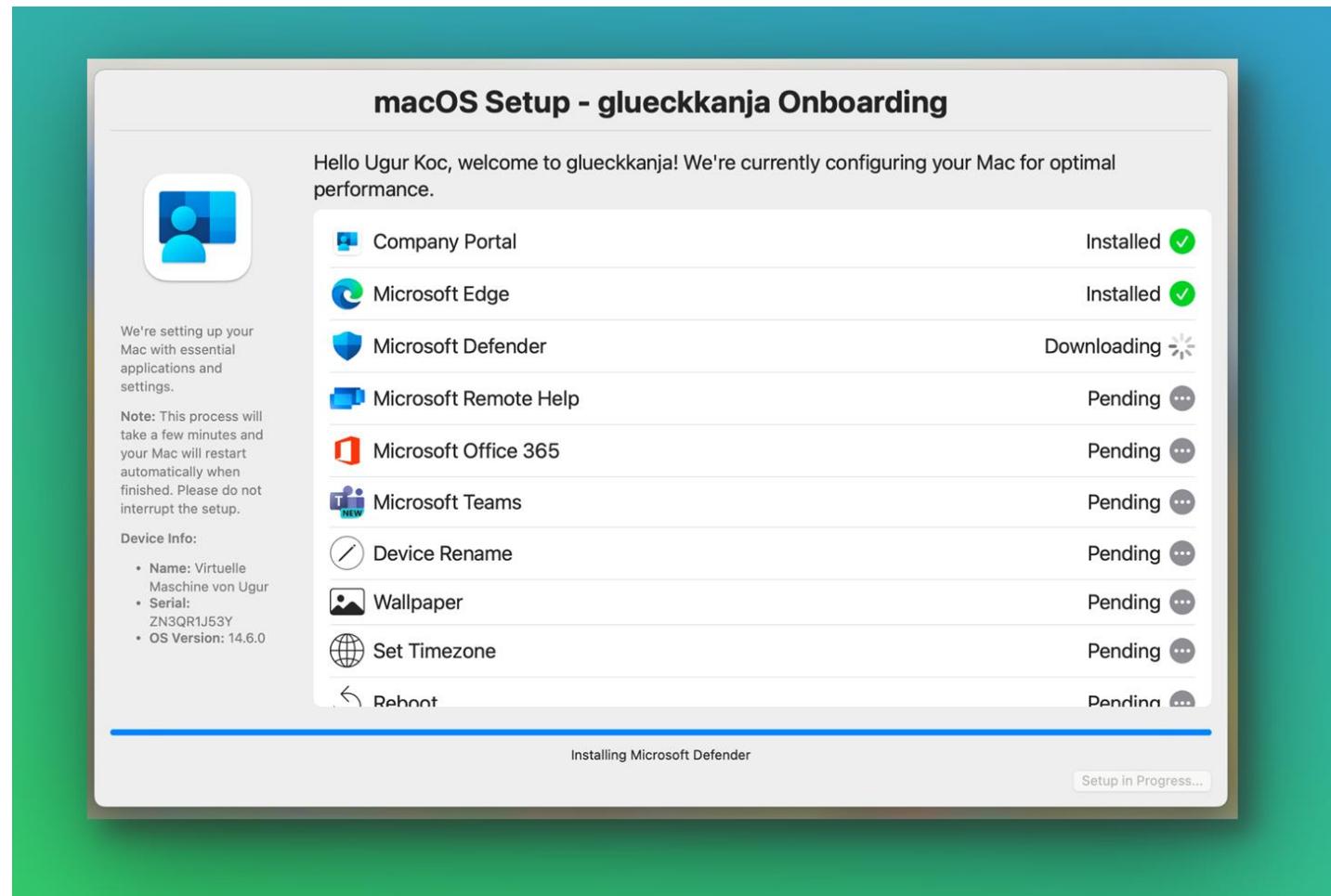


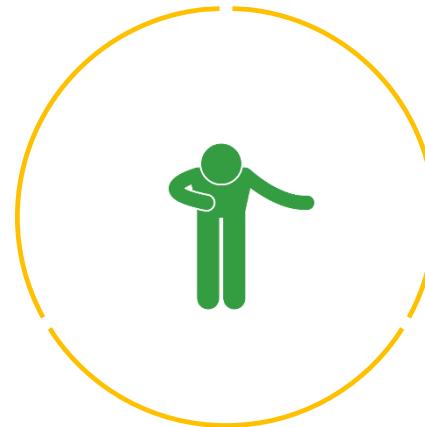


macOS ESP

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- <https://github.com/ugurkocde/macOSESP>
- <https://www.mac-esp.com/>





Kiitos

