

Workplace Ninja User Group Finland

31.10.2025

Etätapaaminen



macOS-hallinnan osa 3/4 – sovellukset ja skriptit

Petri Paavola, Ninja MVP





31.10.2025

www.wpninjas.fi

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
@intune.ninja

<https://github.com/petripaavola>

[Intune.ninja](#)

[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-sovellusjaketut

PKG DMG VPP/StoreApp OfficeSuite ...





Intune macOS-sovellusjakelut

- 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

- 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

App type

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- Ensijaisin 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

ⓘ 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



- Ei pre- ja post-skriptejä
- Detection rule täytyy hakea itse

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"/>

- **Joko komennoilla:**
 - 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



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

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DEMO

Intune macOS Shell-skriptit





Intune macOS Shell-skriptit

www.wpninjas.fi

- Konfiguraatiot
- Sovellusjakelut
- Mitä jännää olette tehneet skripteillä?

Microsoft Intune admin center

Home > Devices | macOS > macOS | Scripts > Intune MDM logs

Intune MDM logs | Properties

macOS

Search

Overview

Manage

Properties

Monitor

Device status

User status

Basics Edit

Name Intune MDM logs

Description No Description

Settings Edit

Shell script

File contents

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
```

Run script as signed-in user No

Hide script notifications on devices Yes

Script frequency Every 1 day

Max number of times to retry if script fails 3 times

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



DEMO

Custom attributes for macOS

Custom inventaario omilla skripteillä





Custom attributes for macOS

www.wpninjas.fi

- **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/>

Microsoft Intune admin center

Home > Devices | macOS > macOS

macOS | Custom attributes for macOS

Search

+ Create Refresh Export Columns

macOS devices

Monitor

Device onboarding

Enrollment

Manage devices

Configuration

Compliance

Scripts

Manage updates

macOS updates (deprecated)

Organize devices

Device clean-up rules

Custom attributes for macOS

Assignment filters

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

Home > Devices | macOS > macOS | Custom attributes for macOS > Check local Administrators

Check local Administrators | Device status

Search

Export Columns

Overview

Manage

Properties

Monitor

Device status

User status

Device name	User name	OS Version	Status	Result	Last Updated
Petri's MacBook Air	petri.paavola@yodamiitti.fi	26.0.1 (25A362)	Succeeded	root Admin _mbsetupuser	2025-10-30T21:10:16Z



DEMO

macOS Community Tools

Ei kai kaikkea tarvitse keksiä itse 😊



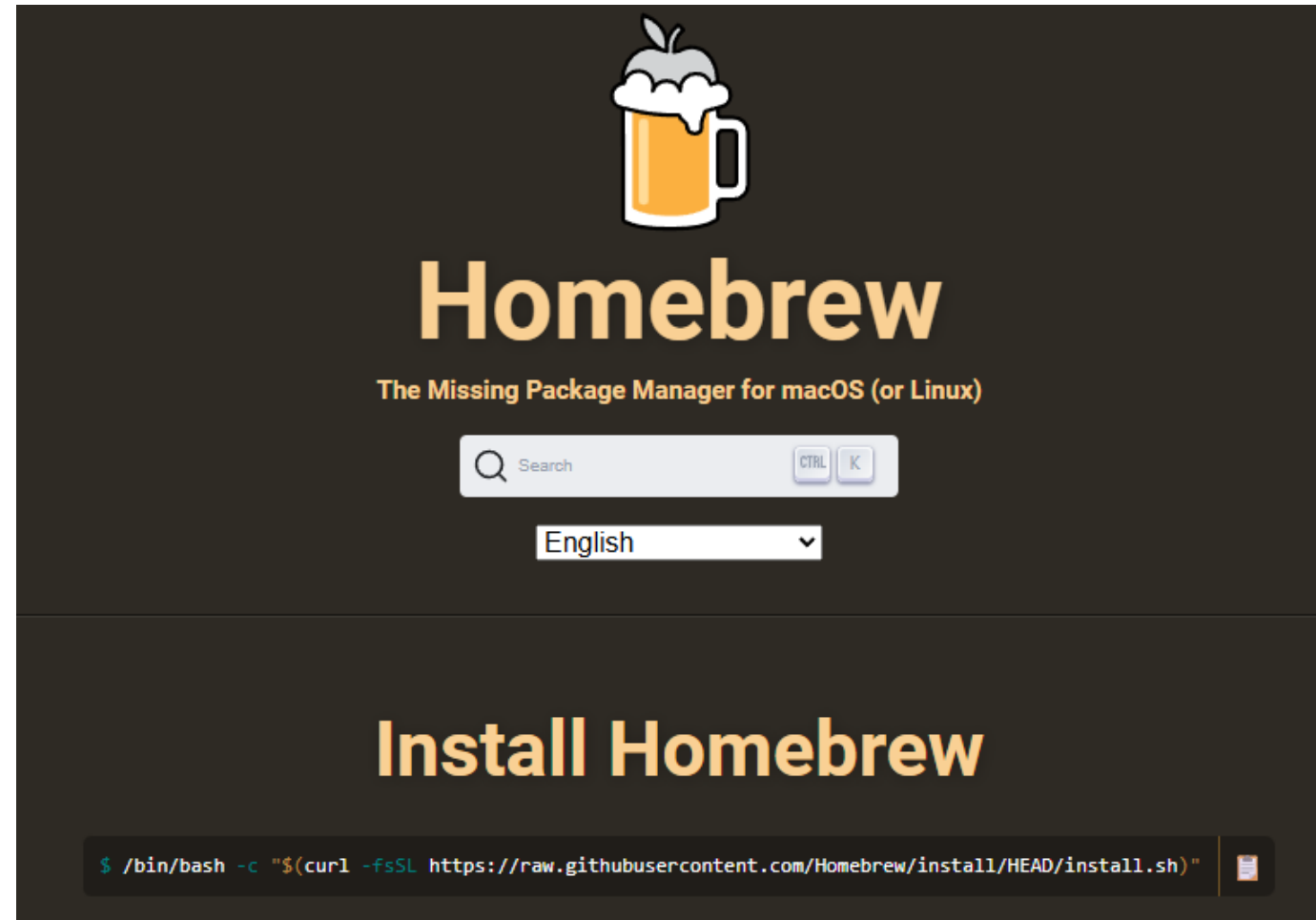


HomeBrew

www.wpninjas.fi

- **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/>

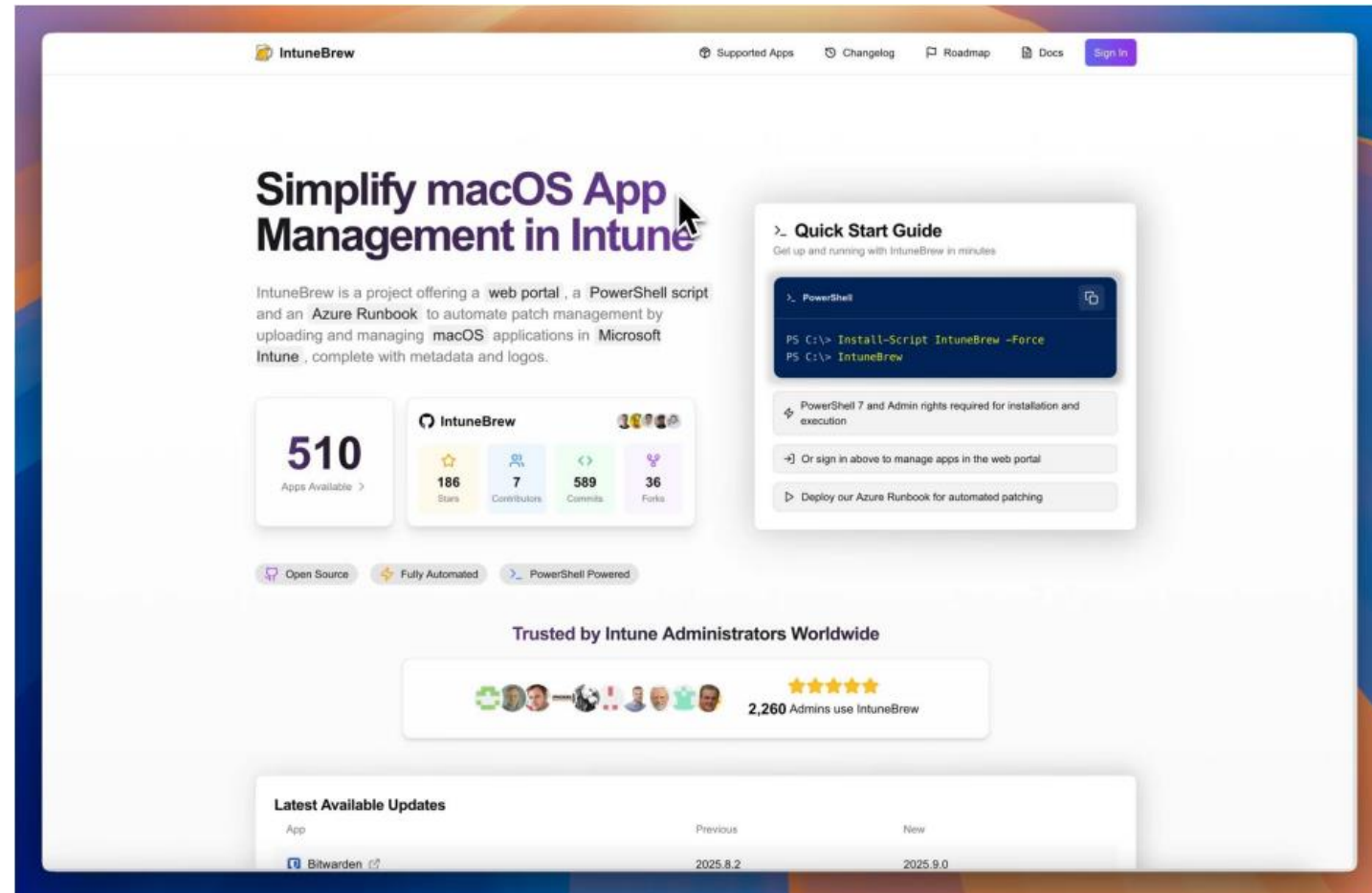




IntuneBrew

www.wpninjas.fi

- 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>

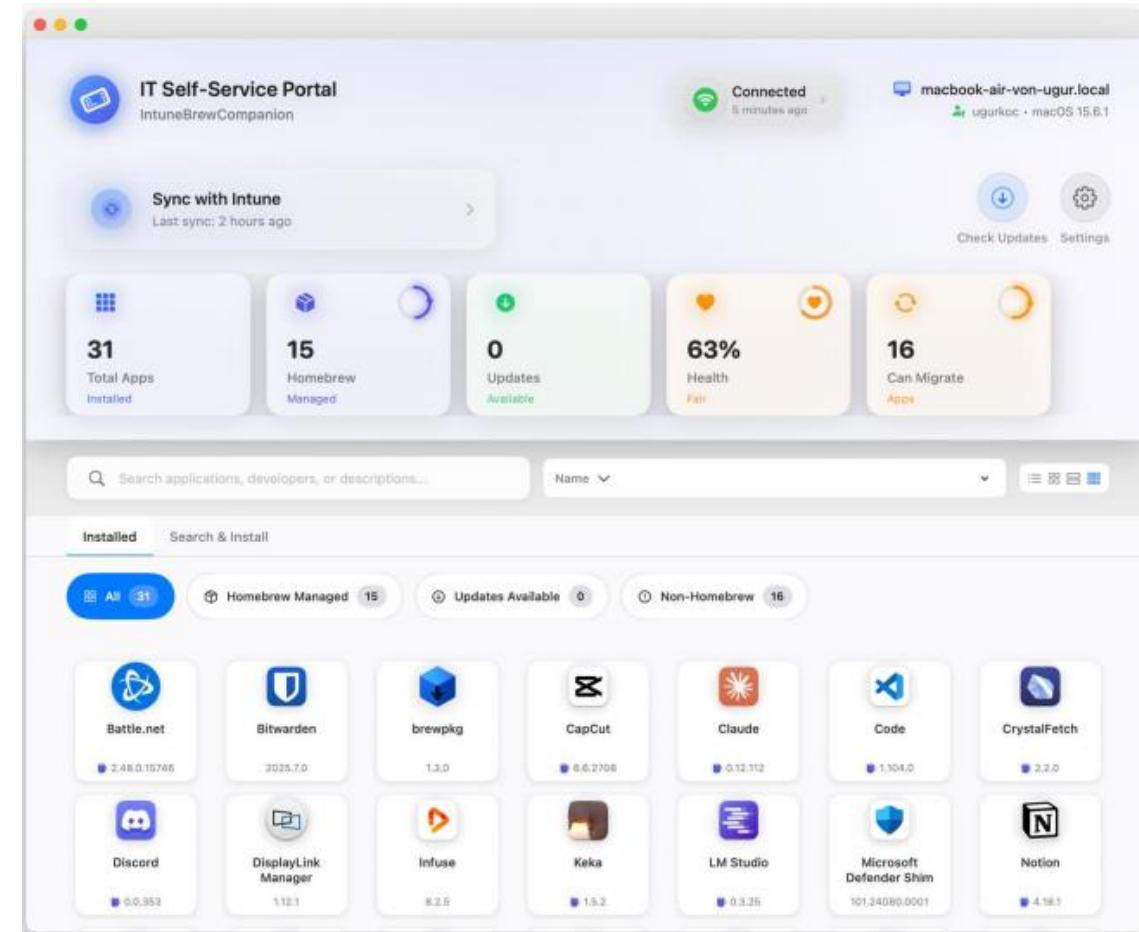


IntuneBrew Companion

www.wpninjas.fi

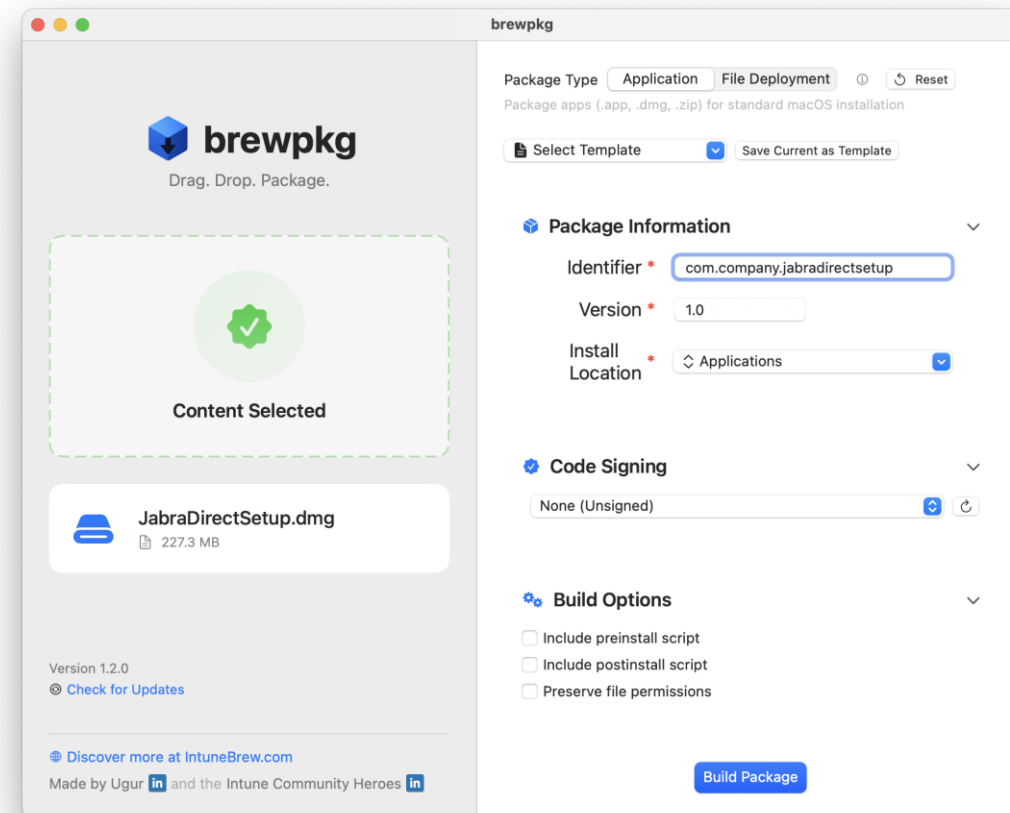
- IntuneBrew Companion
- Intune Company Portalin "kilpailija"

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





- brewpkg
- Paketoi sovelluksia helposti



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



Araelium: Packagebuilder

www.wpninjas.fi

- **Paketoj sovelluksia helposti**



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



Installomator

www.wpninjas.fi

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





- **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/lindegroupp/autopkg>
(varmistaa oikea repo, mutta työkalu on AutoPkgr)

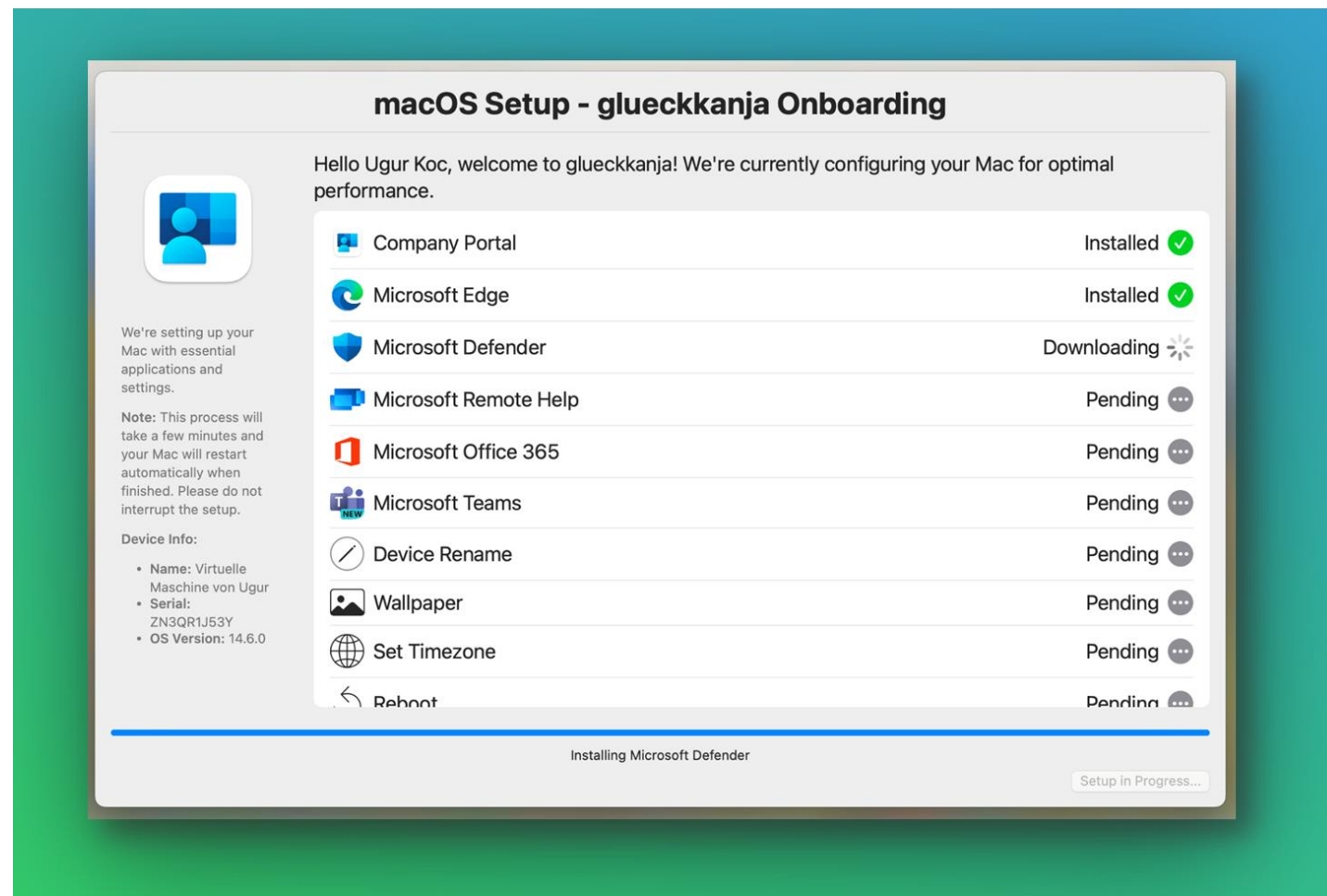




macOS ESP

www.wpninjas.fi

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





Kiitos