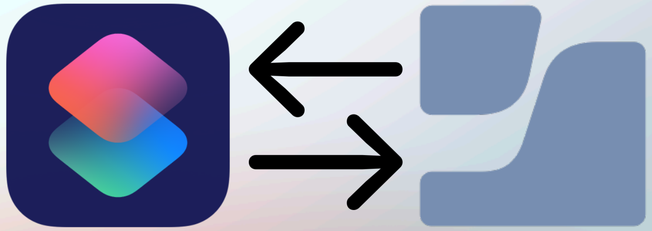
Apple Shortcuts and the Jamf Pro API



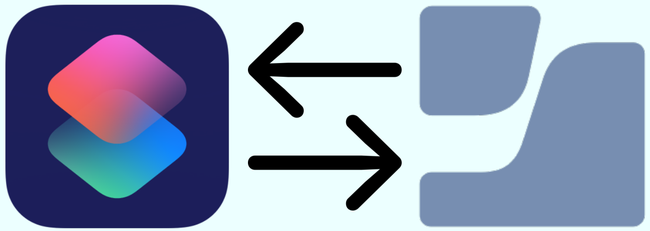
Robert Schroeder - 03.17.2024

Introduction

Robert Schroeder - Senior Mac Engineer II

- Began IT career in 2006, working mostly with Windows computers
- Managing Apple devices since 2013
- Experience in Corporate, Enterprise, Education, and MSP spaces
- Passionate about Apple Management and automation

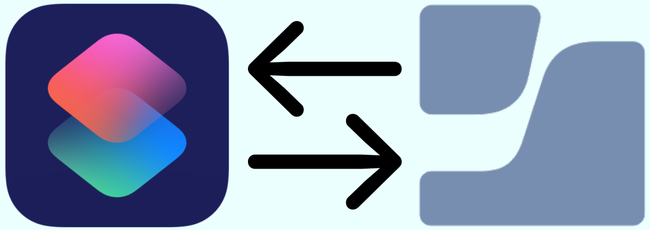
Agenda



- Apple Shortcuts Background
- Management Challenges
- Getting Started
- Demonstration of Shortcuts
- Resources

Background

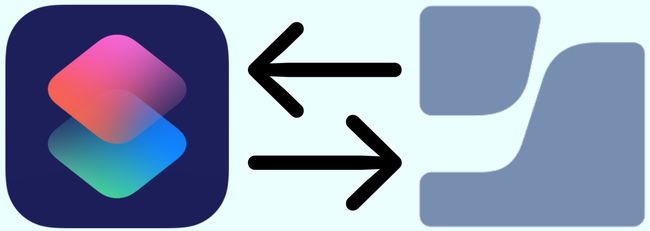
Introduction to Shortcuts



- Originally called Workflow, a project from the University of Michigan's MHacks (2015)
- Apple acquired Workflow (2017)
- Workflow became Shortcuts for iOS 12 (2018)
- Shortcuts became a default iOS app for iOS 13 (2019)
- Shortcuts app announced for macOS (2021)
- Shortcuts is an automation tool for macOS, iOS, and iPadOS, allowing users to automate tasks. A combination of actions and shortcuts can be used to create complex workflows integrating different services and apps.

Challenges

Why Shortcuts?



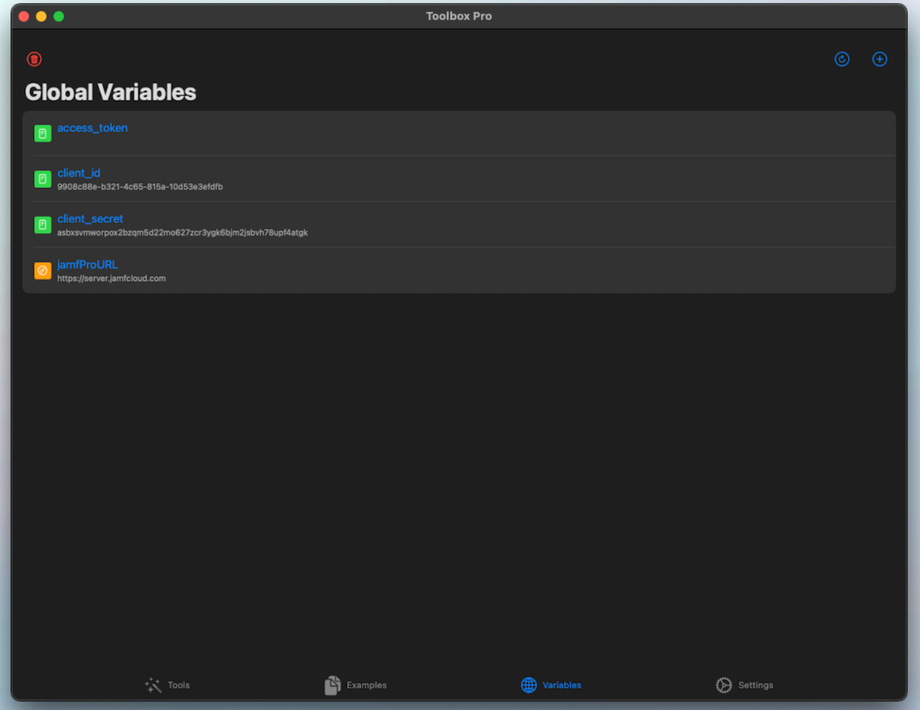
- **Efficiency and Time Savings:** Automation with Shortcuts can streamline repetitive tasks
- **Consistency and Accuracy:** Minimizes human error, ensuring that actions are performed consistently and accurately
- **Customization and Flexibility:** Shortcuts offer the ability to create custom automation workflows tailored to specific organizational needs
- **User Empowerment:** Allowing non-Jamf Pro Administrators to perform management tasks through user-friendly shortcuts
- Overall, using Shortcuts with the Jamf Pro API can lead to a more efficient, accurate, and scalable management process for Apple devices in an organization.

Getting Started

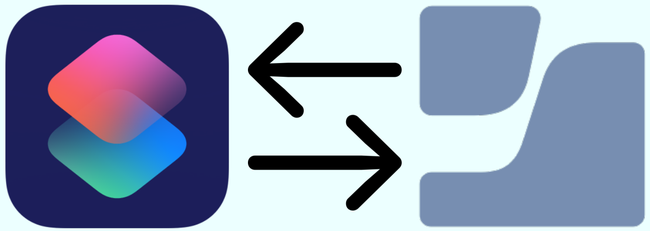
- **Companion App:** Toolbox Pro, adds new actions to use within the Shortcuts app. No need to complete the in-app purchase to use the Global Variables feature

- **Set Up Authentication Variables:** Within the Toolbox Pro app, choose *Variables* and create the following:

  - *client_id*
  - *client_secret*
  - *jamfProURL*
  - *access_token*

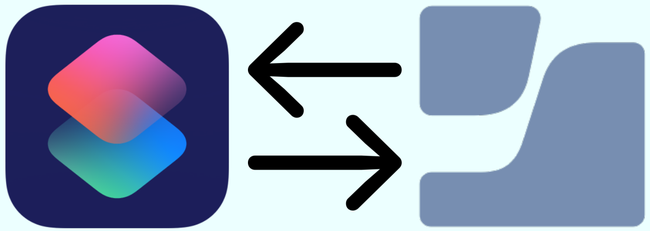


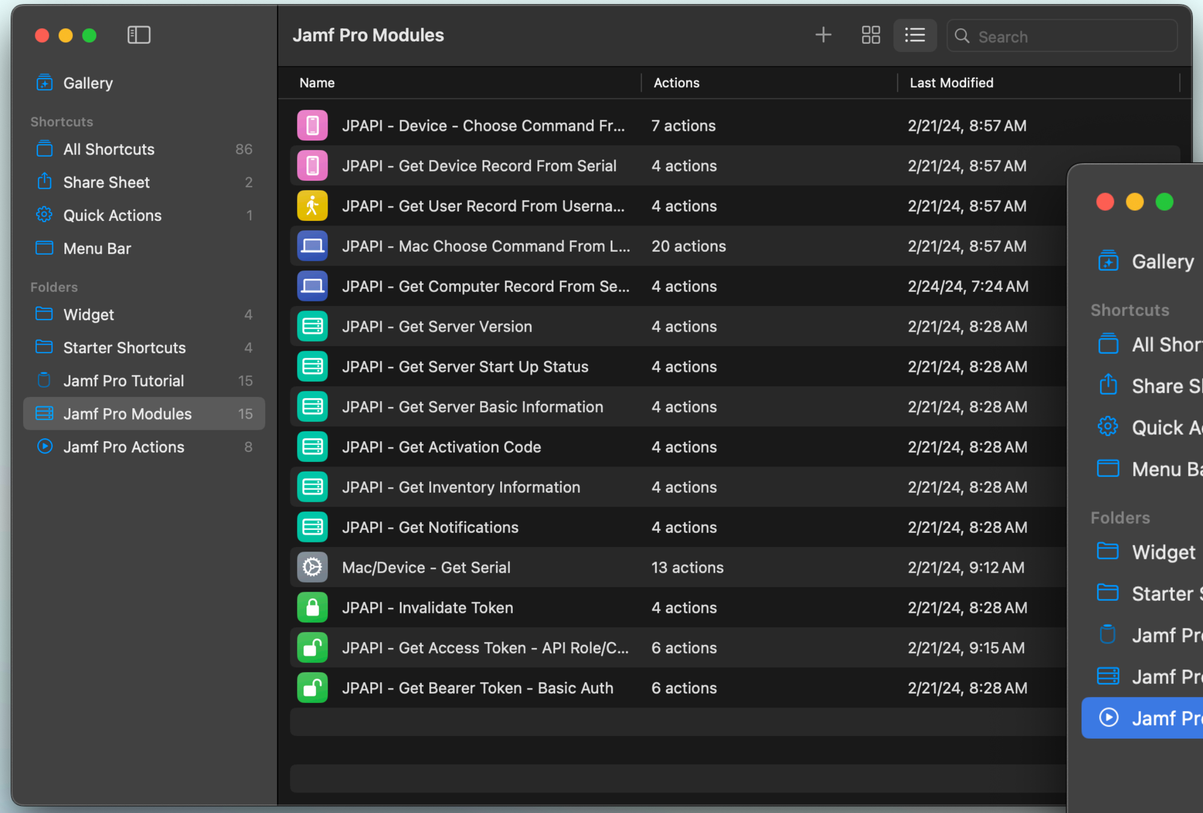
Getting Started

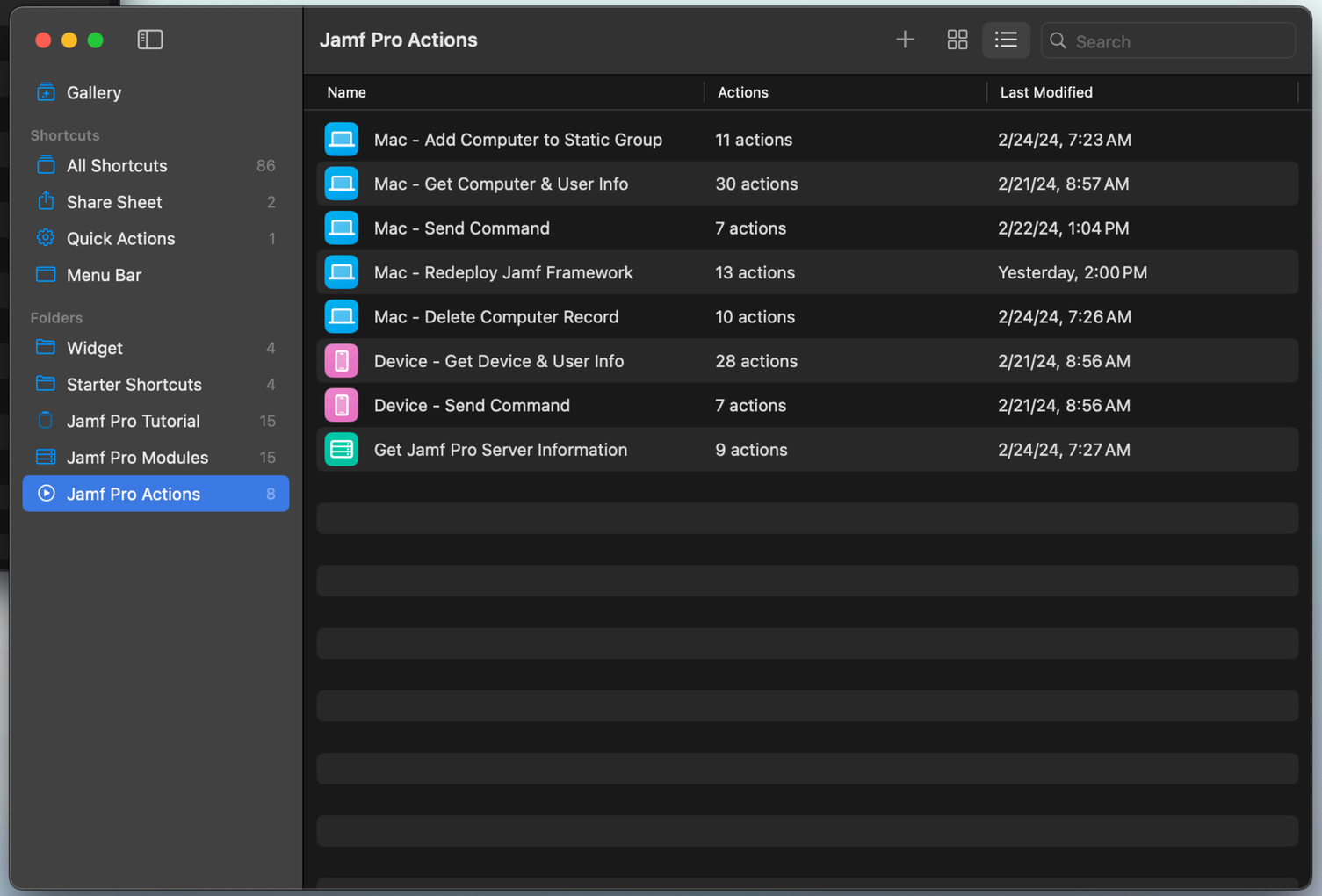


- **Download Shortcuts: GitHub - Jamf Pro API Shortcuts**
  - Within the Shortcuts app, I have organized my Jamf Pro shortcuts into two containers, *Jamf Pro Modules* and *Jamf Pro Actions*
    - *Jamf Pro Modules* - Contains shortcuts that are meant to be re-used and called by the actions shortcuts
    - *Jamf Pro Actions* - Contains individual asks that you are requesting from Jamf Pro

Getting Started

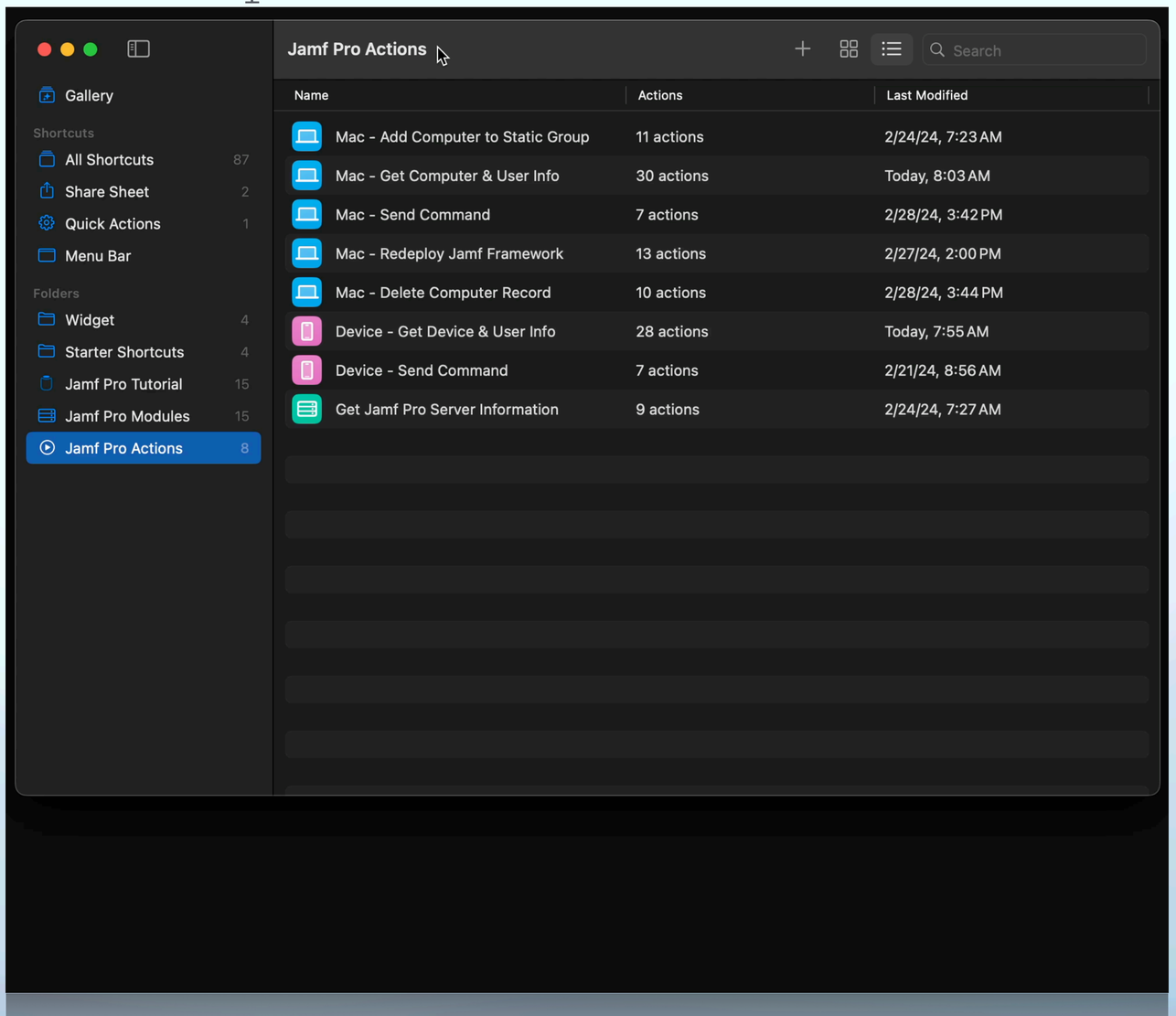






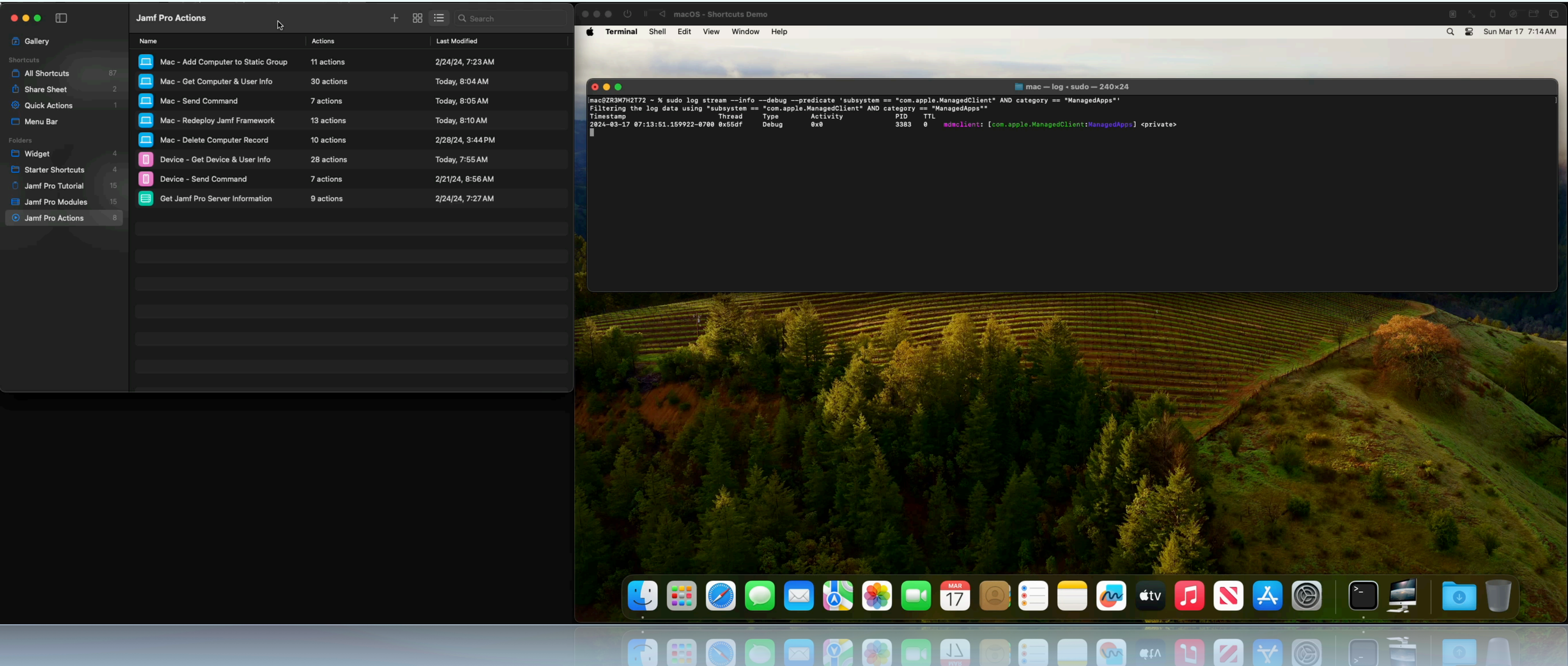
Demonstration

Computer User Look Up



Demonstration

Redeploy Jamf Framework



Demonstration

Lock Computer

Resources

- **Shortcuts on Github**
  - https://github.com/robjschroeder/Shortcuts/tree/main/Jamf%20Pro%20API
- **JNUC 2022 Shortcuts Presentation**
  - https://www.youtube.com/watch?v=56ej8gZfj38
- **MacAdmins Slack**
  - #shortcuts

Jamf Pro API Shortcuts - GH