

MANAGEMENT ROOM

● **JAMF
NATION
LIVE**

+

Upgrade your knowledge: Software Updates & Jamf Pro

starts at
15:45

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Upgrade your knowledge: Software Updates & Jamf Pro

● **JAMF
NATION
LIVE**



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Agenda

1 | What is a software update?

Define what a macOS software update is

2 | Monitoring software updates

Knowledge is power...

3 | Tools and strategies

How we can use the power of “Jamf and...”
to effectively manage software updates



What is a **Software Update**?



Major updates

A full new release of macOS e.g. macOS 12 Monterey to macOS 13 Ventura. Often referred to as upgrades.



Minor updates

Point releases, e.g. macOS 13.2 to macOS 13.3. Updates within an existing release of macOS.



Rapid Security Response, XProtect, etc.

macOS also has a variety of additional security tools such as XProtect which will also receive updates periodically.

What is considered supported?

- ▶ Apple N-2
- ▶ Jamf Pro N-3
- ▶ Most up to date = most features



How is a **software update** applied?

- ▶ Signed System Volume (SSV)
- ▶ Protected by SIP
- ▶ Create new read-write snapshot from SSV
- ▶ Perform the update
- ▶ Convert to read-only and re-seal
- ▶ Mount the new snapshot



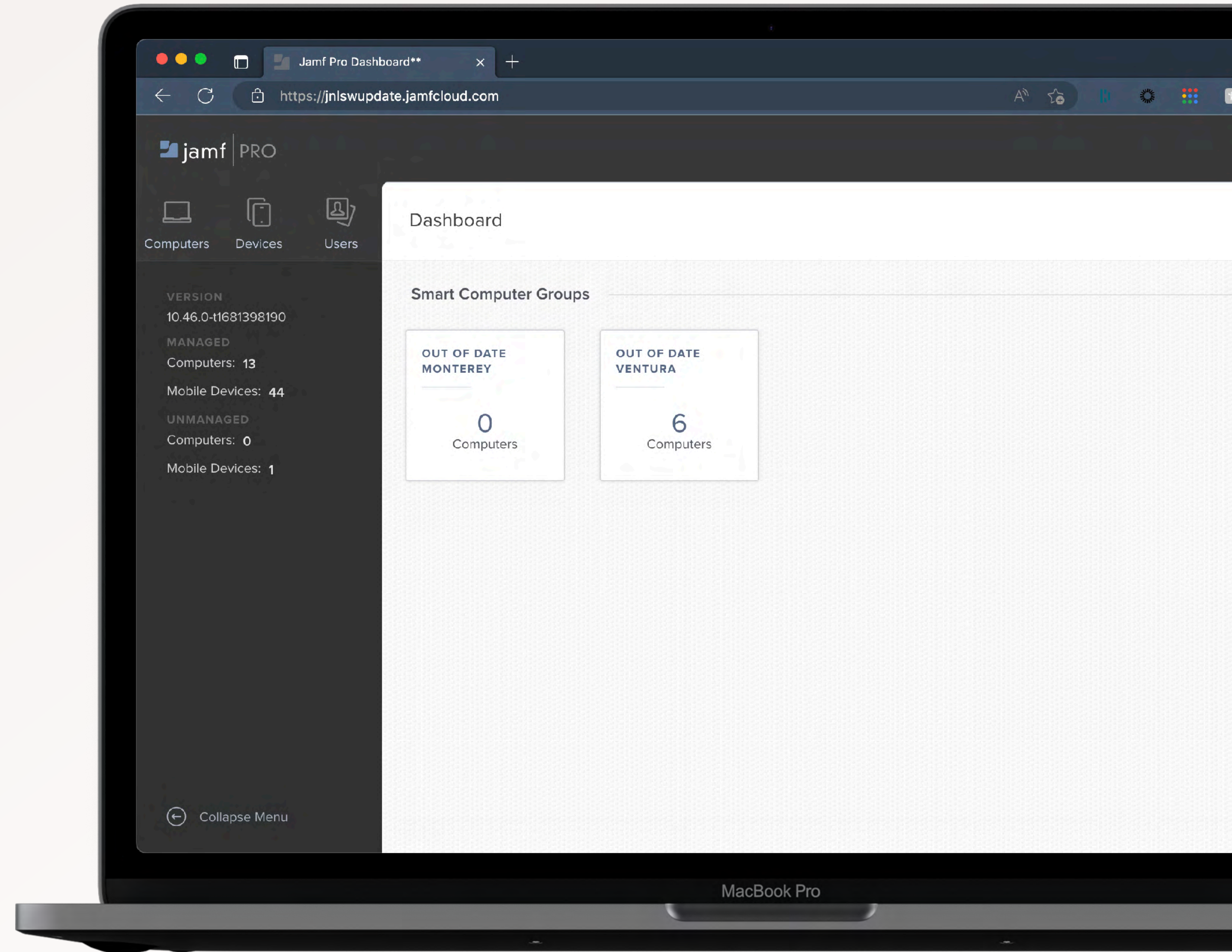


Monitoring **Software** **Updates** with Jamf Pro

Monitoring Software Updates

Use Smart Computer Groups or Advanced Computer Searches to monitor which versions of macOS need to be updated

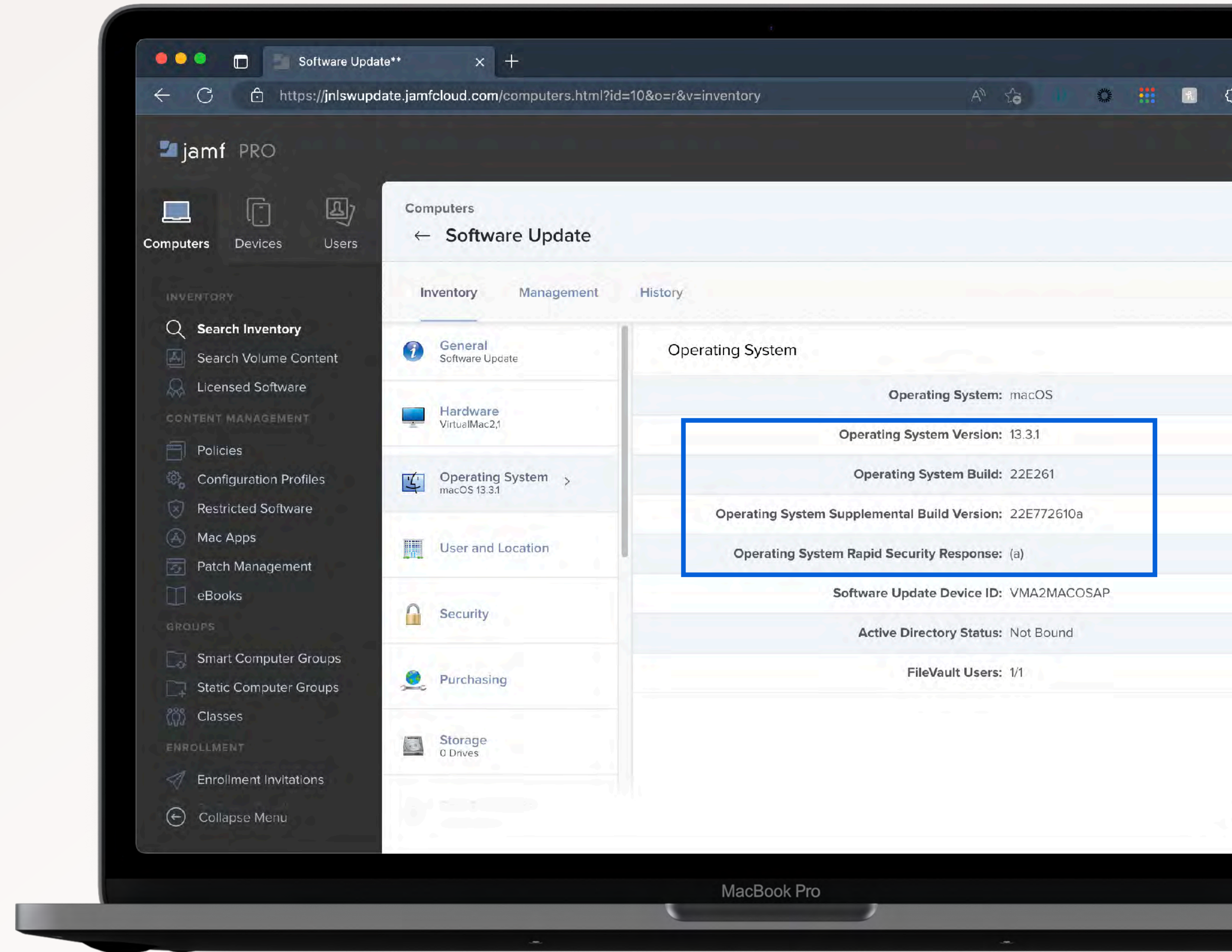
- ▶ Monitor Apple macOS versions using Patch Management
- ▶ Link to Smart Computer Group or Advanced Computer Search
- ▶ Provides good visibility
- ▶ Provides easy access to appropriate mass actions



Monitoring Software Updates

Computer record > Inventory > Operating System

- ▶ Jamf Pro support for Declarative Device Management (DDM)
- ▶ Reporting on Rapid Security Response via the DDM Status channel
- ▶ Quicker inventory reporting



Deferrals

Find the balance between user-experience and keeping endpoints up-to-date

- ▶ Configuration Profiles can defer updates for 1-90 days
- ▶ Restricted Software can prevent the installation of Install macOS Californian Landmark.app
- ▶ Configuration Profiles can restrict the installation of macOS betas
- ▶ Rapid Security Response can be configured to be user-removable





What tools do we have to
manage **Software Updates?**

Overview of tools

We have a wide array of options for managing macOS software updates

- MDM commands (Apple Silicon & Intel)
- Jamf binary (Intel)
- Configuration Profiles
- End-user notifications and interaction workflows
- startosinstall



How can we do Software Updates?



MDM Initiated

Initiating software updates via an MDM command using the bootstrap token on Apple Silicon.



User Initiated

Rely on the user to manually update their Mac whenever Apple release an update.



Policies

Using policies to start macOS Software updates for Intel machines.

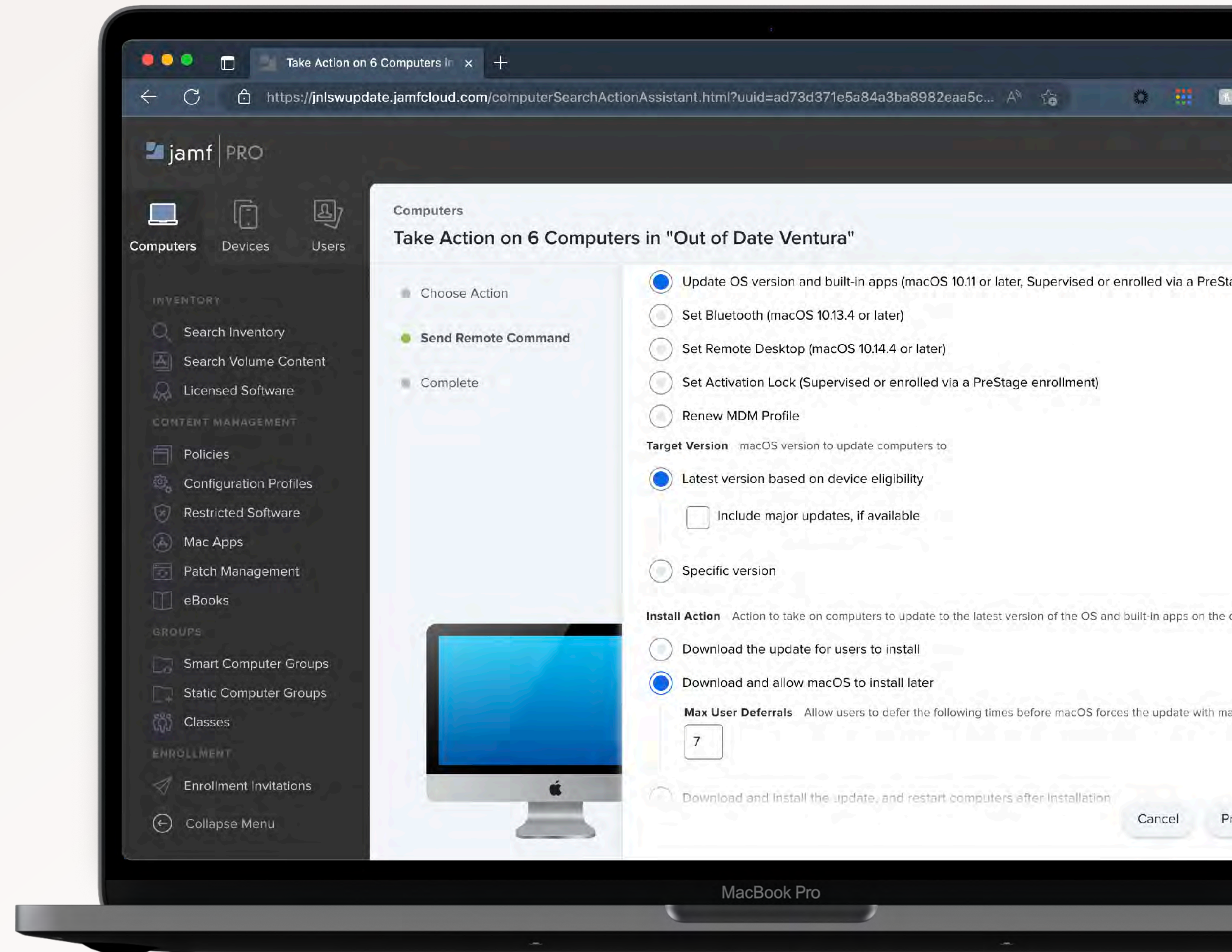
Requirements for MDM Initiated Updates

- ▶ Volume Ownership
- ▶ Bootstrap Tokens
- ▶ ADE or UAMDM Enrolment

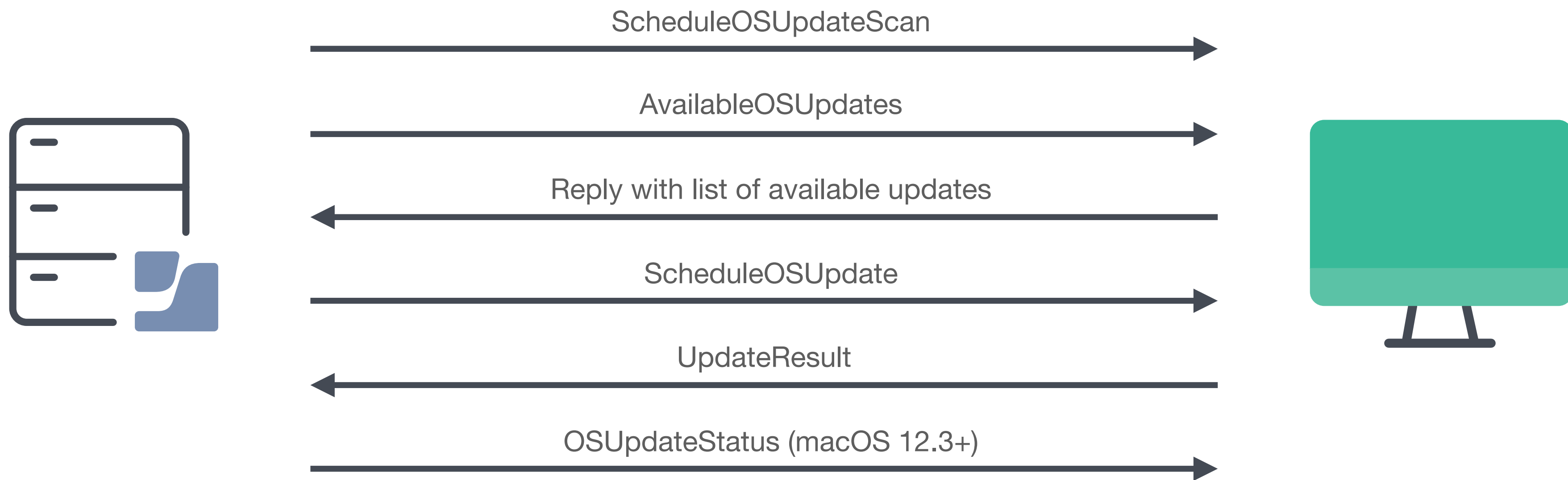


Software update MDM commands

- ▶ DownloadOnly
- ▶ InstallLater
- ▶ InstallASAP
- ▶ InstallForceRestart (API only)



How does MDM Software Update work in Jamf Pro?



Jamf and...

- ▶ Jamf Marketplace
- ▶ Easy to deploy in Jamf Pro
- ▶ Custom JSON Schema
- ▶ Robust support for scripts





Jamf Pro API

- **Jamf Pro API**

- <https://JAMFPROSERVER/api/v1/macos-managed-software-updates>
- <https://JAMFPROSERVER/api/v1/managed-software-updates>

- **Classic API** (limited)

- <https://JAMFPROSERVER/JSSResource/computercommands/command/{command}>

Jamf Professional Services

Talk to us!



Thank you