



# External Patch Source

jamf PRO

Computers Devices Users

INVENTORY

- Search Inventory
- Search VPP Content
- Licensed Software

CONTENT MANAGEMENT

- Policies
- Configuration Profiles
- Restricted Software
- PreStage Imaging
- Mac App Store Apps
- Patch Management
- eBooks

GROUPS

- Smart Computer Groups**
- Static Computer Groups

ENROLLMENT

- Enrollment Invitations
- PreStage Enrollments

SETTINGS

- Management Settings

Computers > Smart Computer Groups

+ New

NAME	COUNT	SITE
AdobeFlashPlayer-update-smart	1	None
All Managed	15	None
All Managed Clients	14	None
All Managed Servers	1	None
All Managed VMs	2	None
App - Evernote.app	5	None
App - McAfee Definition age	0	None
App - TextWrangler.app	2	None
App - Xcode	2	None
Apple SUS	5	None
Checkin - recent X days	3	None
EFI Password	8	None
FileVault - Test reissue	0	None
FileVault2 - encrypted	12	None

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SETTINGS

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Computers > Smart Computer Groups > App - Evernote.app

Computer Group Criteria

AND/OR	CRITERIA	OPERATOR	VALUE	...	Delete
	Application Title	is	Evernote.app		+ Add

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Computers >  
5 Computers in "App - Evernote.app"

Filter Re 1 - 5 of 5 + New

NAME	OPERATING SYSTEM ...	USERNAME	BOOT FULL	OPERATING SYSTEM ...	LAST UPDATE
Gib's MacBook Air	10.13.1	gibchan	30	17B48	15/01/2018 at 1:40 PM
iNous	10.12.5		91	16F73	11/07/2017 at 3:26 PM
MacBook Air de Fabienne	10.12.5	Fabienne.k	84	16F73	11/07/2017 at 3:26 PM
Mini	10.12.6	thomas.kunetz	71	16G16b	11/07/2017 at 3:26 PM
vm1-cloud-VMle	10.13.3	davehornby	63	17D47	12/02/2018 at 12:23 PM

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SETTINGS

- Management Settings

Computers > Smart Computer Groups > App - Evernote.app

Computer Group Criteria

AND/OR	CRITERIA	OPERATOR	VALUE	Actions
	Application Title	is	Evernote.app	<input type="button" value="..."/> <input type="button" value="Delete"/>
and	( Application Version	like	6	) <input type="button" value="Delete"/>
and	( Application Version	is not	6.12.1	) <input type="button" value="Delete"/>

+ Add

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Computers Devices Users

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- Search VPP Content
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SETTINGS

- Management Settings

Computers > Smart Computer Groups > App - Evernote.app

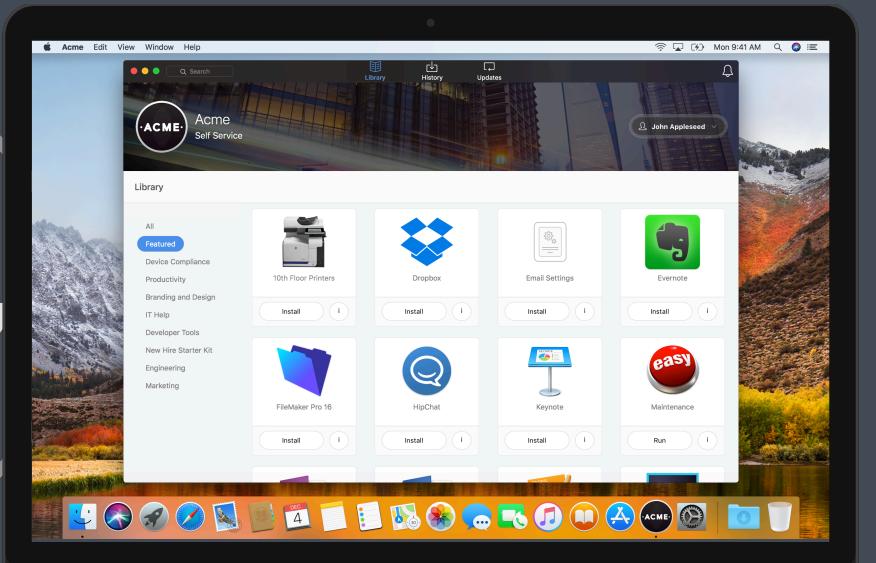
Computer Group Criteria

AND/OR	CRITERIA	OPERATOR	VALUE	Actions
	Application Title	is	Evernote.app	(Delete)
and	Application Version	like	6	(Delete)
or	Application Version	like	5	(Delete)
and	( Application Version	is not	6.12.1	) (Delete)

+ Add



Curated by Jamf  
Notification of updates managed by Jamf  
20+ Software titles



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Computers Devices Users

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- PreStage Enrollments

SETTINGS

- Management Settings

(-) Collapse Menu

Computers > Patch Management > Google Chrome

Patch Report Software Title Settings Definition Patch Policies

Show in Jamf Pro Dashboard  Clear All Filters

0% Latest Version

0 Latest Version (60.0.3112.101)

9 Other Version

VERSION NUMBER	NUMBER OF DEVICES
59.0.3071.109	1
58.0.3029.110	4
59.0.3071.115	1
59.0.3071.86	2
58.0.3029.81	1

NAME	OPERATING SYSTEM VERS...	INSTALL...	LAST CHECK-IN
msp04	10.12.4	58.0.302...	06/23/2017 3:37 PM
Drew's MacBook Air	10.12.3	58.0.302...	06/08/2017 8:15 AM
Cecilia	10.12.2	58.0.302...	06/14/2017 2:57 PM
Steve's MacBook Pro	10.12.3	58.0.302...	06/14/2017 2:46 PM
Crosby's MacBook Air	10.12.5	58.0.302...	06/06/2017 11:17 AM
VM OSX 10.11.6	10.11.6	59.0.3071...	06/14/2017 11:00 PM
John's MacBook Air	10.13.0	59.0.3071...	08/23/2017 1:03 AM
demo's MacBook Pro	10.12.5	59.0.3071...	07/24/2017 9:00 AM
Nick's JAMFBook Pro	10.12.5	59.0.3071...	07/24/2017 8:17 AM

(-) Export

Done | History | Delete | **Edit**

The screenshot shows the Jamf Pro software interface. A modal window is open in the foreground displaying device version statistics:

**0% Latest Version**

**0 Latest Version (60.0.3112.101)**

**9 Other Version**

VERSION NUMBER	NUMBER OF DEVICES
59.0.3071.109	1
58.0.3029.110	4
59.0.3071.115	1
59.0.3071.86	2
58.0.3029.81	1

In the background, a list of devices is visible:

NAME	OPERATING SYSTEM VERSION	INSTALLATION STATUS	LAST CHECK-IN
ip04	10.12.4	58.0.302...	06/23/2017 3:37 PM
Steve's MacBook Air	10.12.3	58.0.302...	06/08/2017 8:15 AM
cilia	10.12.2	58.0.302...	06/14/2017 2:57 PM
Steve's MacBook Pro	10.12.3	58.0.302...	06/14/2017 2:46 PM
Osby's MacBook Air	10.12.5	58.0.302...	06/06/2017 11:17 AM
OSX 10.11.6	10.11.6	59.0.3071...	06/14/2017 11:00 PM
John's MacBook Air	10.13.0	59.0.3071...	08/23/2017 1:03 AM
romo's MacBook Pro	10.12.5	59.0.3071...	07/24/2017 9:00 AM
Jack's JAMFBook Pro	10.12.5	59.0.3071...	07/24/2017 8:17 AM

Buttons at the bottom right of the modal include: Done, History, Delete, and Edit.

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Computers > Patch Management > Google Chrome

Patch Report Software

Show in Jamf Pro

INVENTORY

- Search Inventory
- Search VPP Content
- Licensed Software

CONTENT MANAGEMENT

- Policies
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- Mac App Store Apps
- Patch Management

eBooks

GROUPS

- Smart Computer Groups
- Static Computer Groups

ENROLLMENT

- Enrollment Invitations
- PreStage Enrollments

SETTINGS

- Management Settings

Collapse Menu

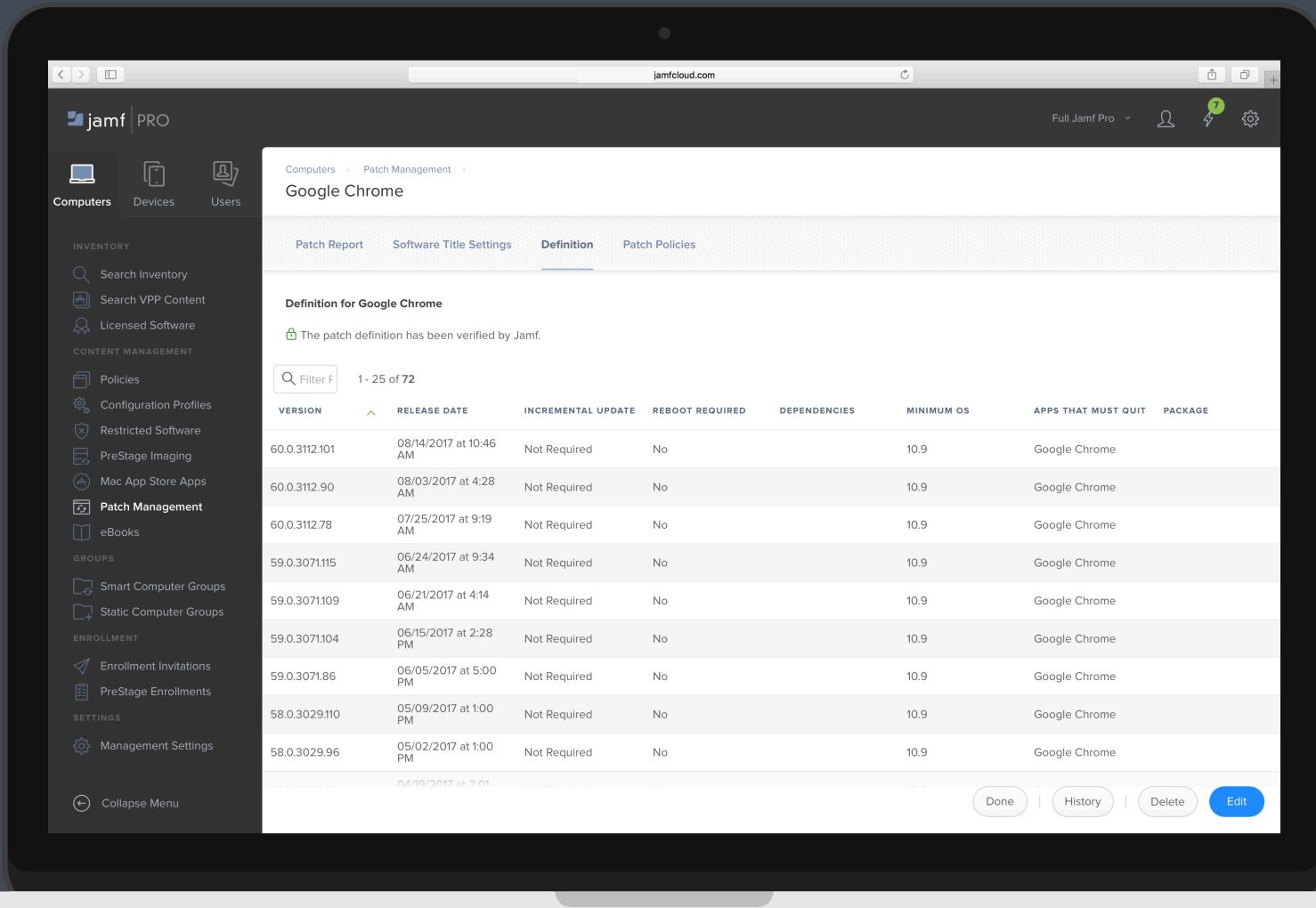
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Full Jamf Pro

Last Check-in

NAME	OPERATING SYSTEM VERS...	INSTALL...	LAST CHECK-IN
msp04	10.12.4	58.0.302...	06/23/2017 3:37 PM
Drew's MacBook Air	10.12.3	58.0.302...	06/08/2017 8:15 AM
Cecilia	10.12.2	58.0.302...	06/14/2017 2:57 PM
Steve's MacBook Pro	10.12.3	58.0.302...	06/14/2017 2:46 PM
Crosby's MacBook Air	10.12.5	58.0.302...	06/06/2017 11:17 AM
VM OSX 10.11.6	10.11.6	59.0.3071...	06/14/2017 11:00 PM
John's MacBook Air	10.13.0	59.0.3071...	08/23/2017 1:03 AM
demo's MacBook Pro	10.12.5	59.0.3071...	07/24/2017 9:00 AM
Nick's JAMFBook Pro	10.12.5	59.0.3071...	07/24/2017 8:17 AM

Done | History | Delete | Edit



The screenshot shows the Jamf Pro web interface on a computer screen. The left sidebar has tabs for Computers, Devices, and Users, with Computers selected. Under the Computers tab, there are sections for INVENTORY (Search Inventory, Search VPP Content, Licensed Software), CONTENT MANAGEMENT (Policies, Configuration Profiles, Restricted Software, PreStage Imaging, Mac App Store Apps, Patch Management, eBooks), GROUPS (Smart Computer Groups, Static Computer Groups), ENROLLMENT (Enrollment Invitations, PreStage Enrollments), and SETTINGS (Management Settings). A 'Collapse Menu' button is at the bottom of the sidebar.

The main content area shows the 'Patch Management' section for 'Google Chrome'. The navigation bar includes 'Computers > Patch Management > Google Chrome' and tabs for Patch Report, Software Title Settings, Definition (which is selected), and Patch Policies. A message says 'The patch definition has been verified by Jamf.' Below is a table titled 'Definition for Google Chrome' with 1- 25 of 72 results. The table columns are VERSION, RELEASE DATE, INCREMENTAL UPDATE, REBOOT REQUIRED, DEPENDENCIES, MINIMUM OS, APPS THAT MUST QUIT, and PACKAGE. The table lists several versions of Google Chrome, all associated with the package 'Google Chrome'.

VERSION	RELEASE DATE	INCREMENTAL UPDATE	REBOOT REQUIRED	DEPENDENCIES	MINIMUM OS	APPS THAT MUST QUIT	PACKAGE
60.0.3112.101	08/14/2017 at 10:46 AM	Not Required	No		10.9	Google Chrome	Google Chrome
60.0.3112.90	08/03/2017 at 4:28 AM	Not Required	No		10.9	Google Chrome	Google Chrome
60.0.3112.78	07/25/2017 at 9:19 AM	Not Required	No		10.9	Google Chrome	Google Chrome
59.0.3071.115	06/24/2017 at 9:34 AM	Not Required	No		10.9	Google Chrome	Google Chrome
59.0.3071.109	06/21/2017 at 4:14 AM	Not Required	No		10.9	Google Chrome	Google Chrome
59.0.3071.104	06/15/2017 at 2:28 PM	Not Required	No		10.9	Google Chrome	Google Chrome
59.0.3071.86	06/05/2017 at 5:00 PM	Not Required	No		10.9	Google Chrome	Google Chrome
58.0.3029.110	05/09/2017 at 1:00 PM	Not Required	No		10.9	Google Chrome	Google Chrome
58.0.3029.96	05/02/2017 at 1:00 PM	Not Required	No		10.9	Google Chrome	Google Chrome

At the bottom right of the table are buttons for Done, History, Delete, and Edit (highlighted in blue).

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Computers > Patch Management > Google Chrome

Patch Report Software Title Settings **Definition** Patch Policies

**Definition for Google Chrome**

The patch definition has been verified by Jamf.

VERSION	RELEASE DATE	INCREMENTAL UPDATE	REBOOT REQUIRED	DEPENDENCIES	MINIMUM OS	APPS THAT MUST QUIT	PACKAGE
60.0.3112.101	08/14/2017 at 10:46 AM	Not Required	No		10.9	Google Chrome	+ Add

eBooks  
GROUPS  
Smart Computer Groups  
Static Computer Groups  
ENROLLMENT  
Enrollment Invitations  
PreStage Enrollments  
SETTINGS  
Management Settings  
Collapse Menu

06/03/2017 at 2:01

00:00:5112.70 AM Not Required No 10.9 Google Chrome + Add

59.0.3071.115 06/24/2017 at 9:34 AM Not Required No 10.9 Google Chrome + Add

59.0.3071.109 06/21/2017 at 4:14 AM Not Required No 10.9 Google Chrome + Add

59.0.3071.104 06/15/2017 at 2:28 PM Not Required No 10.9 Google Chrome + Add

59.0.3071.86 06/05/2017 at 5:00 PM Not Required No 10.9 Google Chrome + Add

58.0.3029.110 05/09/2017 at 1:00 PM Not Required No 10.9 Google Chrome + Add

58.0.3029.96 05/02/2017 at 1:00 PM Not Required No 10.9 Google Chrome + Add

Show: 25

Cancel Save

The screenshot shows the Jamf Pro software interface on a computer screen. The main window title is "Google Chrome - Approved Version". The left sidebar has sections for Computers, Devices, and Users. The main content area displays details for the selected version:

- TARGET VERSION**: Version to deploy (dropdown set to 60.0.3112.101)
- RELEASE DATE**: 08/14/2017 at 10:46 AM
- REQUIRES INCREMENTAL UPDATE**: No
- REBOOT REQUIRED**: No
- DEPENDENCIES**: N/A
- APPS THAT MUST QUIT**: Google Chrome
- MINIMUM OS**: 10.9

A modal dialog is open in the foreground titled "DISTRIBUTION METHOD". It contains the following options:

- Make Available in Self Service** (selected): Requires Self Service v10.0.0 or later
- Allow Downgrade**: Allow the software title to be downgraded
- Patch Unknown Versions**: If unknown versions (e.g. beta version, version not available in Jamf Pro) are detected on computers, deploy the target version

At the bottom right of the modal are "Cancel" and "Save" buttons.

The screenshot shows the Jamf Pro web interface on a computer screen. The left sidebar has 'Computers' selected. The main content area shows the 'Scope' tab for a 'Google Chrome - Approved Version' policy. The 'Targets' section shows 'TARGET COMPUTERS' set to 'All Computers' and 'TARGET USERS' set to 'All Users'. A note says 'Targets added to the scope are automatically limited to eligible computers. View list of eligible computers.' Buttons for 'Cancel' and 'Save' are at the bottom right.

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Full Jamf Pro ▾

Computers > Patch Management > Google Chrome >

## Google Chrome - Approved Version

General Scope User Interaction  Show in Jamf Pro Dashboard

**Targets**

**TARGET COMPUTERS**  
Computers to deploy the policy to  
All Computers

**TARGET USERS**  
Users to deploy the policy to  
All Users

**Limitations**

**Exclusions**

Targets added to the scope are automatically limited to eligible computers. View list of eligible computers.

Cancel  Save

jamf PRO

Computers Devices Users

INVENTORY

- Search Inventory
- Search VPP Content
- Licensed Software

CONTENT MANAGEMENT

- Policies
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- Restricted Software
- PreStage Imaging
- Mac App Store Apps
- Patch Management**
- eBooks

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SETTINGS

- Management Settings

Collapse Menu

Computers > Patch Management

Google Chrome -

General Scope

Targets added

Eligible Computers

Automatically generated list of computers that are eligible for the software title update based on the requirements for the update as well as the target version, downgrade behavior, and unknown version handling settings on the General tab.

1 - 10 of 10

DEVICE NAME	OS	INSTALLED VERSION	LAST INVENTORY UPDATE	LAST CHECK-IN
Crosby's MacBook Air	10.12.5	58.0.3029.110	2017/06/06 at 3:58 PM	2017/06/06 at 4:17 PM
Drew's MacBook Air	10.12.3	58.0.3029.110	2017/06/06 at 2:51 PM	2017/06/08 at 1:15 PM
Emily's 13 inch MacBook	10.12.3	58.0.3029.110	2017/10/12 at 2:34 PM	2017/10/12 at 2:34 PM
Jill's MacBook	10.12.4	58.0.3029.81	2017/06/23 at 8:07 PM	2017/06/23 at 8:37 PM
Karen's MacBook	10.12.2	58.0.3029.110	2017/06/14 at 7:57 PM	2017/06/14 at 7:57 PM
MacBook Air - France	10.13.0	52.0.2743.116	2017/10/16 at 6:22 AM	2017/10/16 at 6:08 PM
MacBook Air de Francois	10.11.6	59.0.3071.115	Today at 1:22 PM	Today at 1:22 PM
Natalia's MacBook	10.13.0	58.0.3029.110	2017/10/12 at 3:22 PM	2017/10/12 at 3:22 PM

Show: 10

Done

The screenshot shows the Jamf Pro software interface on a computer screen. The main window title is "jamfcloud.com". The left sidebar menu includes "Computers", "Devices", and "Users". Under "INVENTORY", there are links for "Search Inventory", "Search VPP Content", and "Licensed Software". Under "CONTENT MANAGEMENT", there are links for "Policies", "Configuration Profiles", "Restricted Software", "PreStage Imaging", "Mac App Store Apps", "Patch Management", and "eBooks". Under "GROUPS", there are links for "Smart Computer Groups" and "Static Computer Groups". Under "ENROLLMENT", there are links for "Enrollment Invitations" and "PreStage Enrollments". Under "SETTINGS", there is a link for "Management Settings". At the bottom of the sidebar is a "Collapse Menu" button.

The main content area shows the "Patch Policies" tab for "Google Chrome". The navigation bar includes "Patch Report", "Software Title Settings", "Definition", and "Patch Policies". A "Clear All Filters" button is available. The table lists three patch policies:

NAME	STATUS	DISTRIBUTION...	TARGET VERSI...	COMPLETED	PENDING	FAILED
Google Chrome - Approved Version	Enabled	Self Service	60.0.3112.101	0	10	0
Google Chrome - Test Version	Enabled	Self Service	60.0.3112.101	0	0	0
Google Chrome - IT Testing	Enabled	Self Service	60.0.3112.101	0	0	0

At the bottom right are buttons for "Done", "History", "Delete", and "Edit" (highlighted in blue).

The screenshot shows the Jamf Pro software interface on a computer screen. The main title bar reads "jamfcloud.com". The left sidebar has tabs for "Computers", "Devices", and "Users", with "Computers" selected. The main content area shows the "Patch Management" section for "Google Chrome". The navigation bar includes "Computers > Patch Management > Google Chrome", "Patch Report", "Software Title Settings", "Definition", and "Patch Policies" (which is currently active). A toolbar at the top right includes "New", "Edit", and other icons. Below the toolbar, three patch policy cards are displayed for "GOOGLE CHROME - APPROVED VERSION", "GOOGLE CHROME - TEST VERSION", and "GOOGLE CHROME - IT TESTING". Each card shows 0% completed, 10 remaining, and 0 failed. At the bottom are buttons for "Done", "History", "Delete", and "Edit".

jamfcloud.com

Full Jamf Pro

Computers > Patch Management > Google Chrome

Patch Report Software Title Settings Definition Patch Policies

New Edit

GOOGLE CHROME - APPROVED VERSION

0% Completed

0 Completed  
10 Remaining  
0 Failed

GOOGLE CHROME - TEST VERSION

0% Completed

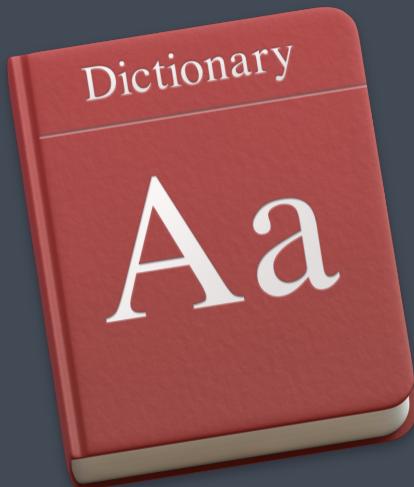
0 Completed  
0 Remaining  
0 Failed

GOOGLE CHROME - IT TESTING

0% Completed

0 Completed  
0 Remaining  
0 Failed

Done History Delete Edit



**Patch:** An update to a software title

**Software Title:** The name of the software. Subscribe to these in Jamf Pro

**Patch Source:** What Jamf Pro monitors to find software titles

**Patch Server:** A server appliance to host software titles & definitions

**Software Definitions:** Details about the title (version, reboot, etc.)

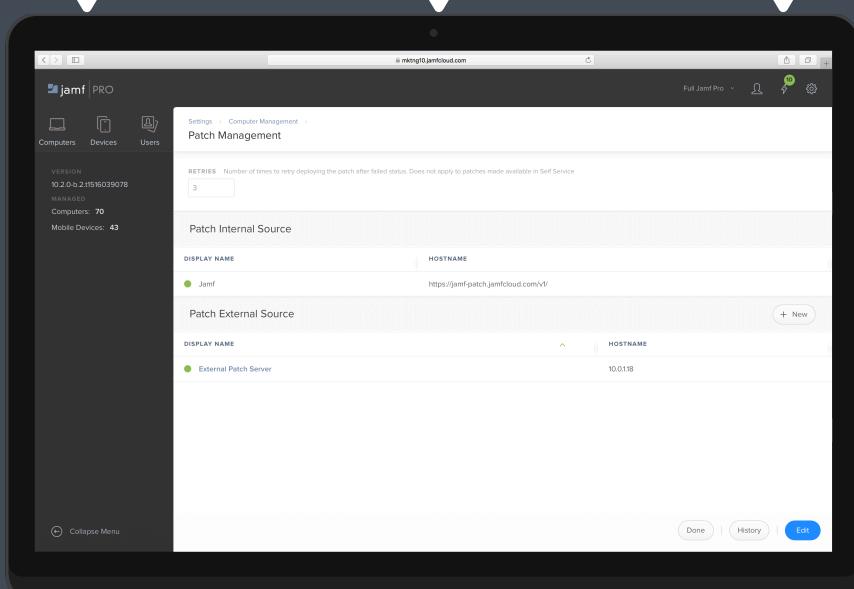
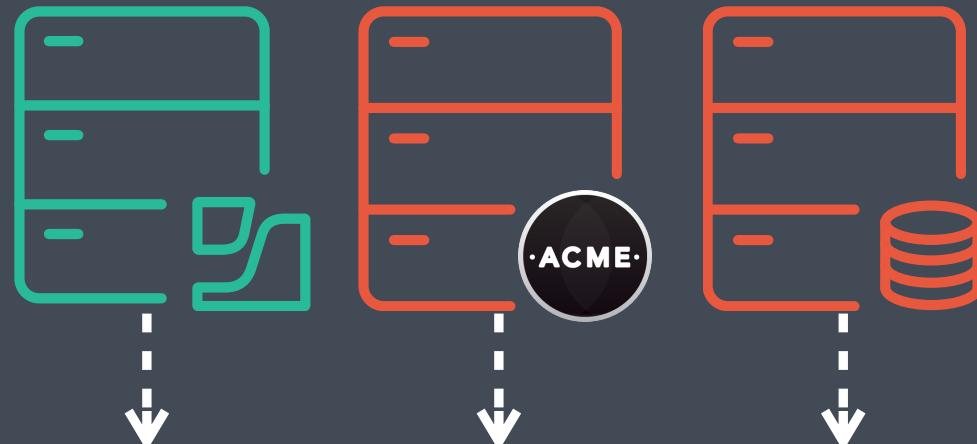
**Patch Notification:** An alert in Jamf Pro about updates to software titles

**Patch Policies:** Deploys the update of installed software titles



# Choose your source

## Jamf Patch Source      Acme Patch Source      Community Patch Source



jamf PRO

Settings - Computer Management - Patch Management

RETRIES Number of times to retry deploying the patch after failed status. Does not apply to patches made available in Self Service

3

Patch Internal Source

DISPLAY NAME HOSTNAME

Jamf https://jamfpatch.jamfcloud.com/v1/

+ New

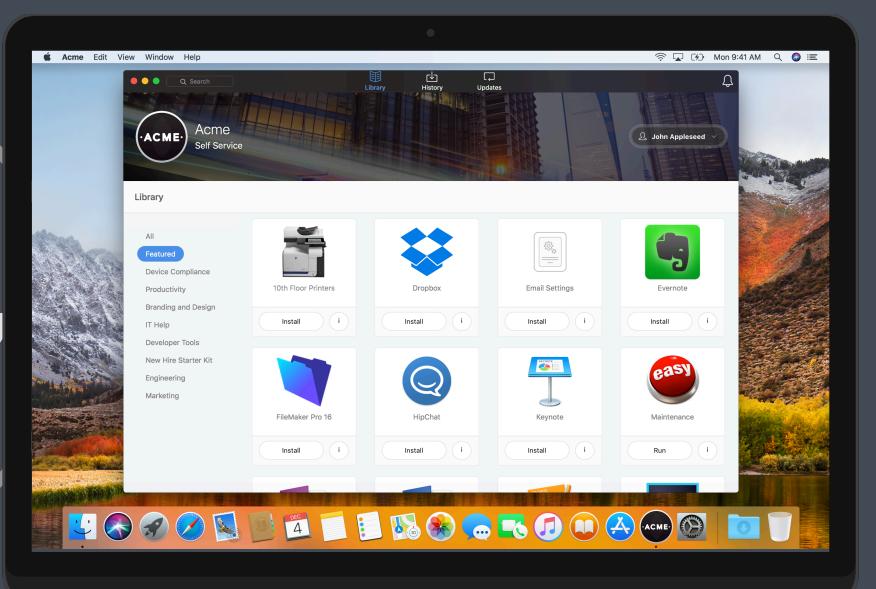
Patch External Source

DISPLAY NAME HOSTNAME

External Patch Server 10.0.118

+ New

Done History Edit



Acme Edit View Window Help

ACME Acme Self Service

Library

All Featured Device Compliance Productivity Branding and Design IT Help Developer Tools New Hire Starter Kit Engineering Marketing

10th-Floor Printers Dropbox Email Settings Evernote

Install i Install i Install i Install i

FileMaker Pro 16 HipChat Keynote Maintenance

Install i Install i Install i Run i

Mon 9:41 AM Mon 9:41 AM

# External Patch Source



JSON data

Framework - Software list, Patch definitions

[jamf.it/externalpatch](http://jamf.it/externalpatch)

## Software Title Summary Object

The information in the Software Title Summary object must match the information in the Software Title object that shares `id`. None of the following values can be null. In addition, the `id` cannot include any special characters or spaces.

Key	Value Type	Value Description
name	String	Name of the patch management software title.
publisher	String	Publisher of the patch management software title.
lastModified	String	Jamf Pro uses this key to display the Last Updated value in the computer inventory information. <b>Note:</b> Must be ISO-8601 format.
currentVersion	String	Used for reporting the latest version of the patch management software title to Jamf Pro.
id	String	Uniquely identifies this software title on the external source. <b>Note:</b> An <code>id</code> cannot be duplicated on an individual external source.

## Software Title Object

The information in the Software Title object must match the information in the Software Title Summary object that shares `id`. None of the following values can be null. In addition, the `id` cannot include any special characters or spaces.

Key	Value Type	Value Description
name	String	Name of the patch management software title.
publisher	String	Publisher of the patch management software title.
appName	String	Deprecated
bundleId	String	Deprecated
lastModified	String	Jamf Pro uses this key to display the Last Updated value in the computer inventory information. <b>Note:</b> Must be ISO-8601 format.
currentVersion	String	Used for reporting the latest version of the patch management software title to Jamf Pro.
requirements	Array of criteria objects	Criteria used to determine which computers in your environment have this software title installed.
patches	Array of patch objects	Software title version information; one patch is one software title version. <b>Note:</b> Must be listed in descending order with the newest version at the top of the list.
extensionAttributes	Array of extensionAttributes objects	Extension attributes that are required by Jamf Pro to use this software title. Terms must be accepted in Jamf Pro.
id	String	String that uniquely identifies this software title on the external source. <b>Note:</b> An <code>id</code> cannot be duplicated on an individual external source.

## patch Object

Key	Value Type	Value Description
version	String	Version associated with this patch.
releaseDate	String	Date that this patch version was released.
standalone	Boolean	<code>true</code> specifies a patch that can be installed by itself. <code>false</code> specifies a patch that must be installed incrementally. <b>Note:</b> Used for reporting purposes. It is not used by patch policy processes.
minimumOperatingSystem	String	Lowest macOS version capable of installing this patch. <b>Note:</b> Used for reporting purposes. It is not used by patch policy processes. See the capabilities array for patch policy implementation.
reboot	Boolean	<code>true</code> specifies that the computer must be restarted after the patch policy has completed successfully. <code>false</code> specifies that the computer will not be restarted.
killApps	Array of killApp objects	Specifies processes that will be stopped before a patch policy runs.
components	Array of component objects	Defines the elements that comprise this patch version. <b>Note:</b> Only one element is supported by Jamf Pro at this time.
capabilities	Array of criteria objects	Criteria used to determine which computers in your environment have the ability to install and run this patch.
dependencies	Array of criteria objects	Not currently used by Jamf Pro. <b>Note:</b> Cannot be a null value.

## extensionAttributes Object

Key	Value Type	Value Description
key	String	Identifier unique within Jamf Pro. It is used by criteria objects and displayed in the Jamf Pro computer inventory information. <b>Note:</b> Duplicate keys are not allowed.
value	String	Base64 encoded macOS script. Standard extension attribute script which must return a <result>.
displayName	String	Used on the Jamf Pro Patch Management > Extension Attributes tab.

## killApps Object

Key	Value Type	Value Description
bundleId	String	Bundle identifier of the applications that will be stopped before a patch policy runs.
appName	String	Name of the application that will be stopped before a patch policy runs.

## components Object

Key	Value Type	Value Description
name	String	Name of the patch management software title.
version	String	Version associated with this patch.
criteria	Array of criteria objects	Criteria used to determine which computers in your environment have this patch version installed.

# External Patch Source



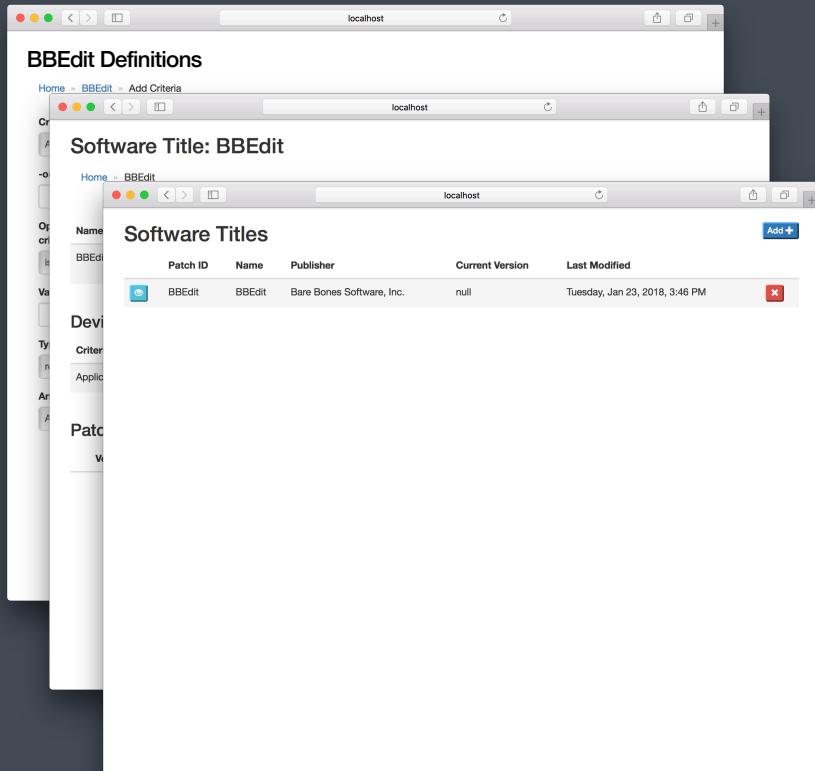
Server application hosting software titles & definitions

Setup your own or connect to a Community Server

Use for software titles outside of Jamf's source

Jamf Pro can monitor multiple sources

# Patch Server



Patch Server created by Bryson

Tool for customers to setup own server

Create and manage software titles

Open source with AWS options

API automation

[jamf.it/patchserver](http://jamf.it/patchserver)

# Starter Script



Create initial definitions

Info.plist file

Extension Attributes

[jamf.it/patchstarter](http://jamf.it/patchstarter)



**One does not simply**

**Expect  
the live demo to actually work**

# Resources

**"Go forth  
and make  
awesomeness."**



[jamf.it/externalpatch](http://jamf.it/externalpatch)

[jamf.it/patchstarter](http://jamf.it/patchstarter)

[jamf.it/patchserver](http://jamf.it/patchserver)

#patchserver

<http://communitypatch.readthedocs.io/en/develop/>