2023 JNUC

AUSTIN, TX

Extracting data from Jamf Pro: Hints, Tips and Tricks

© copyright 2002–2023 Jamf

Ben Toms

Principal Product and Platform Engineer

dataJAR

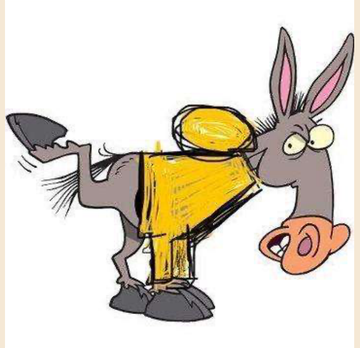
© copyright 2002-2023 Jamf

Ben Toms

Principal Software Engineer

Jamf

© copyright 2002-2023 Jamf



macmule

macmule.com | macmule | @macmuleblog | ben@macmule.com

© copyright 2002-2023 Jamf

Extracting data from Jamf Pro: Hints, Tips and Tricks

- Jamf Pro API Scalability Best Practices: What it is, how this can work at scale and how you can let Jamf Pro do the heavy lifting.
- Jamf Cloud but no SIEM? Never fear, the API is here!
- Getting inventory data to devices: have you tried a profile?

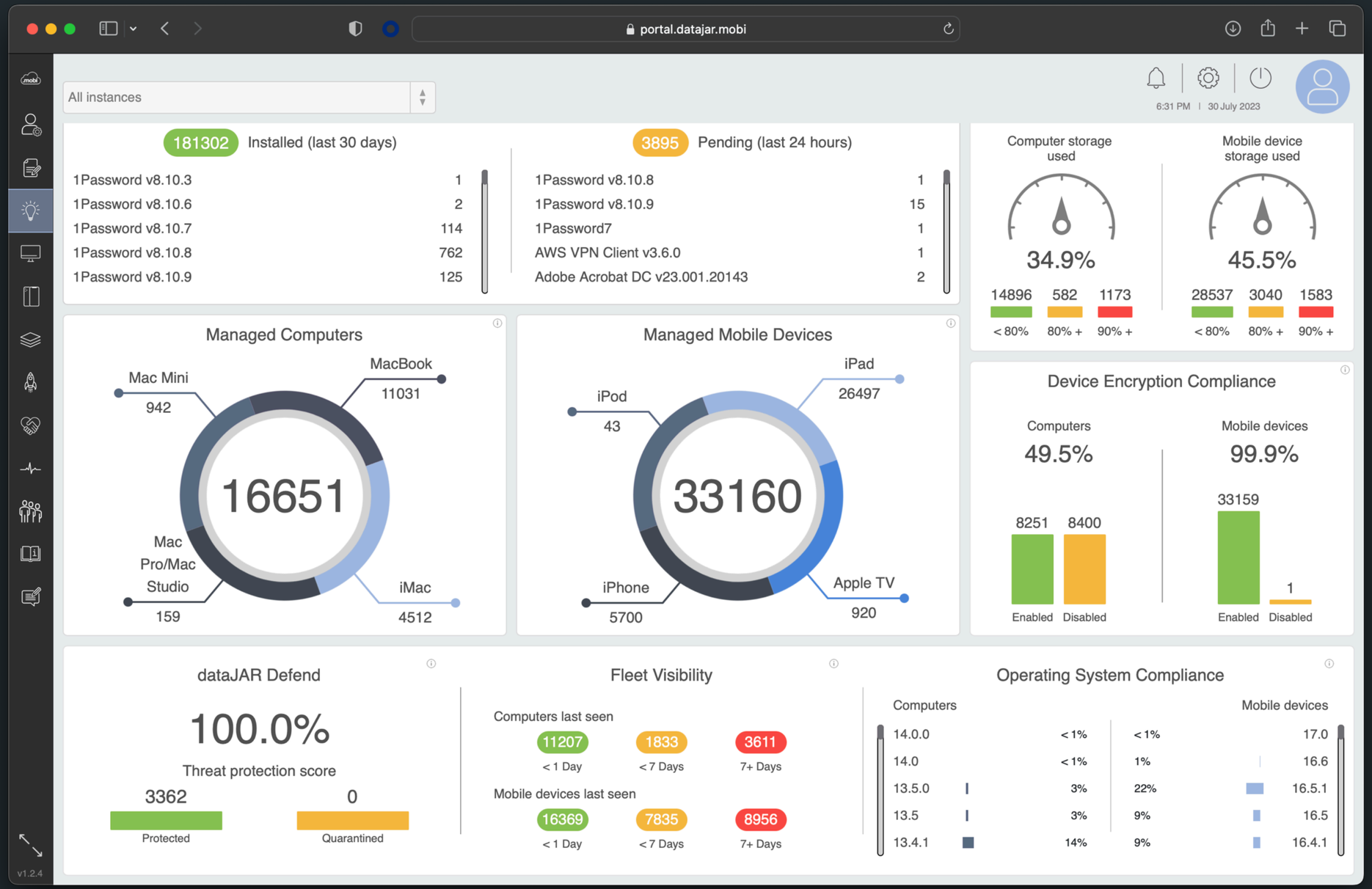
© copyright 2002-2023 Jamf

https://github.com/macmule/talks/tree/main/jnuc2023

© copyright 2002-2023 Jamf

Jamf Pro API Scalability Best Practices

© copyright 2002-2023 Jamf



© copyright 2002-2023 Jamf

developer.jamf.com

jamf

API References | Documentation

Guides

Search ⌘K

JAMF PRO DOCUMENTATION

- Which API Should I Use?
- Jamf Pro Device Enrollment Guide
- Populating Dummy Data
- Webhooks
- Extension Attributes
- Jamf Pro API Scalability Best Practices
- Application & Custom Settings
- Kernel and System Extensions
- Sticky Sessions for Jamf Cloud
- Jamf Log Stream

OTHER RESOURCES

- Compliance Reporter
- Data Streams
- Jamf Connect
- Jamf Protect

Jamf Pro API Scalability Best Practices

Overview

This article describes the best practices related to performance and scalability with Jamf Pro APIs and how to effectively build an application that is resilient and performant.

> **Notice**
>
> These best practices serve as a guideline for interacting with Jamf Pro APIs. Not all environments are hosted or resourced in the same manner, so your mileage may vary.

Rate Limiting

Jamf Pro does not have a built-in solution to restrict or limit the number of API requests made over a given time interval. However, there are some guidelines that we recommend to provide an appropriate balance between quickly performing the tasks your application requires of the API and not inundating the system with requests, such that it fails to perform other basic functions.

TABLE OF CONTENTS

- Overview
- Rate Limiting
- Error Handling
- Syncing Device Inventory Data
  - Mobile Devices (iOS, tvOS, iPadOS)
  - Computers (macOS)
  - Frequency of Syncs

https://developer.jamf.com/developer-guide/docs/jamf-pro-api-scalability-best-practices

© copyright 2002-2023 Jamf

2023 JNUC

Jamf Pro API Scalability Best Practices

- Rate Limiting
  - The Jamf Pro API has no in-built rate limiting.
  - Limit yourself to no more than 5 concurrent connections to the Jamf Pro API.
  - Measure response times and adjust time between requests accordingly.

© copyright 2002-2023 Jamf

Jamf Pro API Scalability Best Practices

- Error Handling
  - Use an exponential backoff algorithm.
  - Take heed, and respond to error codes as needed.

© copyright 2002-2023 Jamf

```
responseCode=$(curl -w "%{http_code}" -H "Authorization: Bearer ${bearerToken}" $url/api/v1/auth/invalidate-token -X POST -s -o /dev/null)
```

https://developer.jamf.com/jamf-pro/docs#authentication-and-authorization

© copyright 2002-2023 Jamf

```
if [[ ${responseCode} == 204 ]]
then
    echo "Token successfully invalidated"
    bearerToken=""
    tokenExpirationEpoch="0"
elif [[ ${responseCode} == 401 ]]
then
    echo "Token already invalid"
else
    echo "An unknown error occurred invalidating the token"
fi
```

https://developer.jamf.com/jamf-pro/docs#authentication-and-authorization

© copyright 2002-2023 Jamf

Jamf Pro API Overview
Filtering with RSQL
Optimistic Locking
Privileges and Deprecations

Response Codes

The Classic API returns standard HTTP status codes for both successful and unsuccessful API calls. All errors returned will include an HTML response that contains a description of the failure.

Common response codes and steps to troubleshoot failures.

Code	Description
200	Request successful.
201	Request to create or update object successful.
400	Bad request. Verify the syntax of the request specifically the XML body.
401	Authentication failed. Verify the credentials being used for the request.
403	Invalid permissions. Verify the account being used has the proper privileges for the resource you are trying to access.
404	Resource not found. Verify the URI path is correct.
409	Conflict. See the error response for additional details.
500	Internal server error. Retry the request or contact Jamf support if the error is persistent.
502	Bad Gateway. Generally due to a timeout issue.

Updated about 1 year ago

Classic API Authentication Changes →

https://developer.jamf.com/jamf-pro/docs#response-codes

© copyright 2002-2023 Jamf

20x

40x

50x

© copyright 2002-2023 Jamf

HTTP Cats

Maximise your ROI. High performing servers with clear pricing structure. Discover more

OVHcloud

ADS VIA CARBON

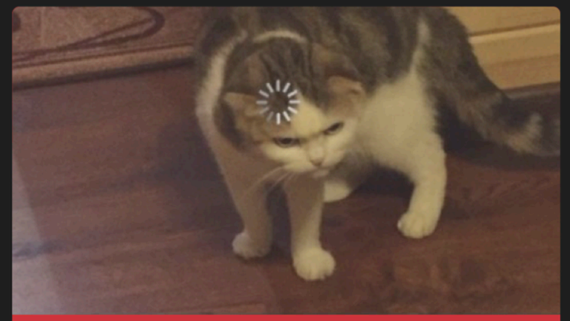
Usage:

```
https://http.cat/[status_code]
```

Note: If you need an extension at the end of the URL just add `.jpg`.

100

101



102

https://http.cat/

© copyright 2002-2023 Jamf

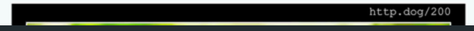
HTTP Status Dogs

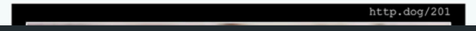
Dogs for every HyperText Transfer Protocol response status code.

How to use, replace [code] with a three digit HTTP response status code number:

```
https://http.dog/[code].jpg
```

*Alternatively, use the **.webp** or **.jxl** or **.avif** or **.json** extensions, instead of **.jpg**. For more details, click on the images below.*





https://http.dog/

© copyright 2002-2023 Jamf

https://http.cat/403.jpg

https://http.dog/403.jpg

© copyright 2002-2023 Jamf

https://http.cat/418.jpg

https://http.dog/418.jpg

© copyright 2002-2023 Jamf

418

I'm a teapot

Description

The HTTP `418 I'm a teapot` client error response code indicates that the server refuses to brew coffee because it is, permanently, a teapot.

A combined coffee/tea pot that is temporarily out of coffee should instead return 503. This error is a reference to Hyper Text Coffee Pot Control Protocol defined in April Fools' jokes in 1998 and 2014.

Some websites use this response for requests they do not wish to handle, such as automated queries.

See Also

- Spec
- Wikipedia: Hyper Text Coffee Pot Control Protocol

Source: https://developer.mozilla.org/en-US/docs/Web/HTTP/Status/418

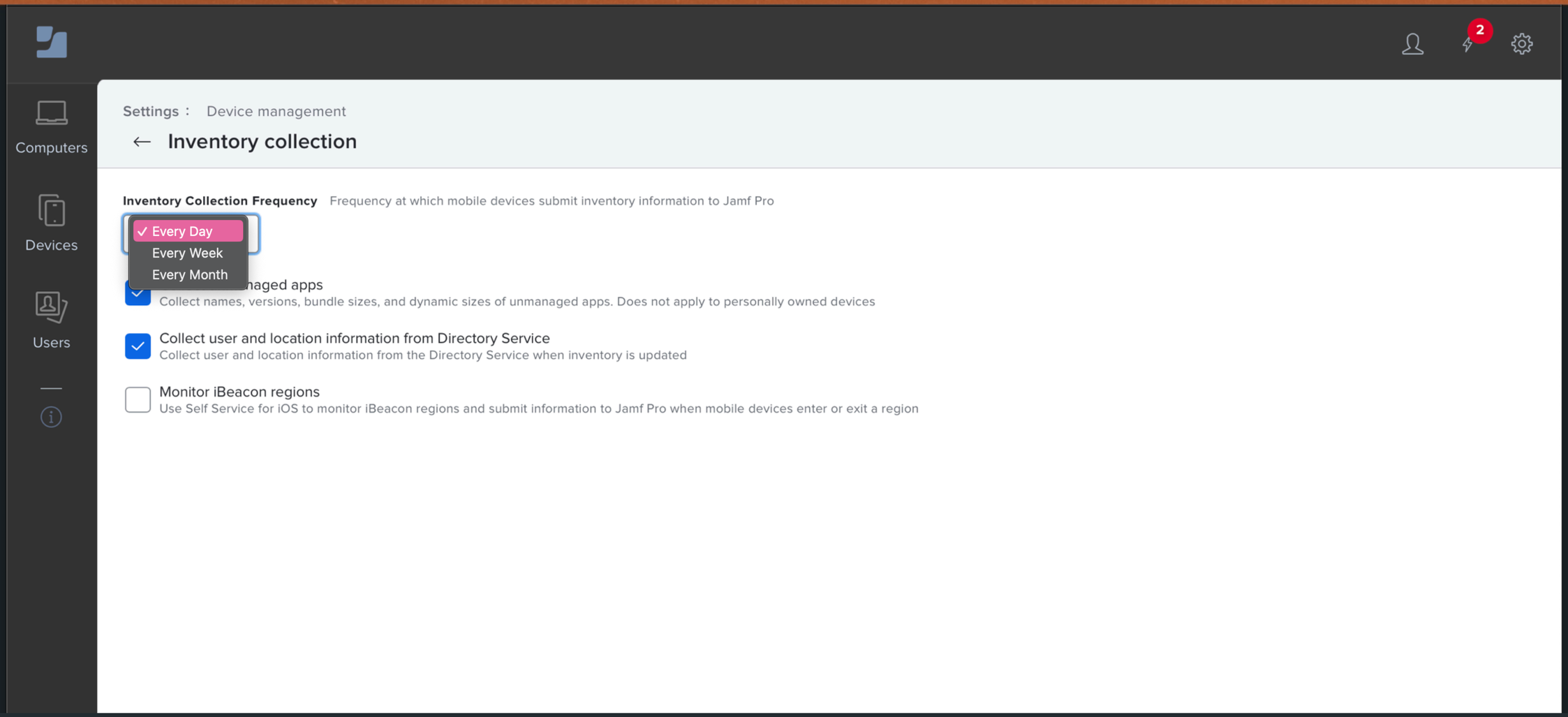
https://http.cat/status/418

© copyright 2002-2023 Jamf

Jamf Pro API Scalability Best Practices

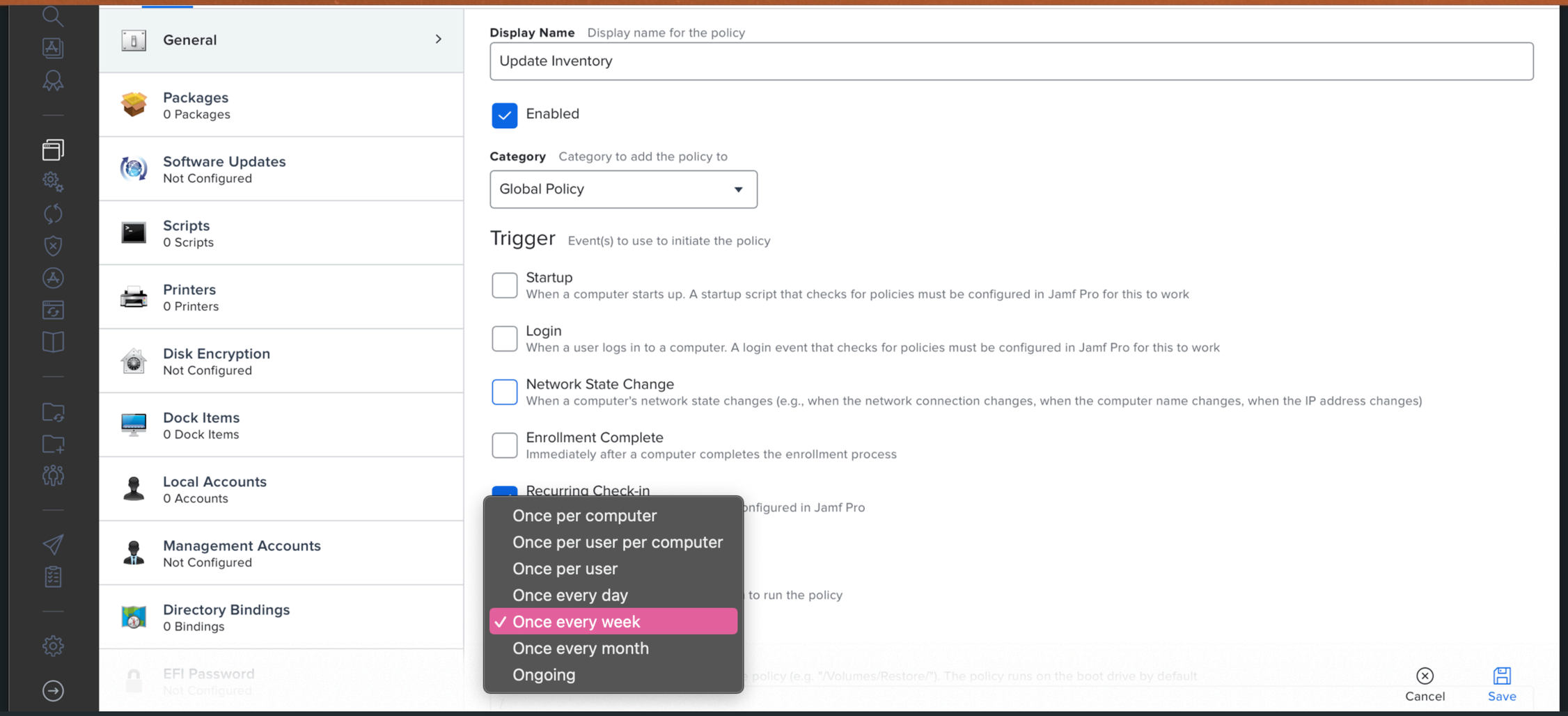
- Syncing Device Inventory Data
  - Think about when devices update inventory.

© copyright 2002-2023 Jamf



https://learn.jamf.com/bundle/jamf-pro-documentation-10.47.0/page/Mobile_Device_Inventory_Collection_Settings.html

© copyright 2002-2023 Jamf



https://learn.jamf.com/bundle/jamf-pro-documentation-10.47.0/page/Computer_Inventory_Collection.html

© copyright 2002-2023 Jamf

MACMULE

DOING THE DONKEY WORK TO MAKE YOU LOOK LIKE A SMART ASS!!

Search ...

THE MULE'S MUSINGS CATEGORISED

- **APPLICATION** (10)
- **BECAUSE** (7)
- **ERRORS** (45)
- **EXTENSION ATTRIBUTE** (6)
- **HOW TO** (72)
- **INFO** (16)

SUBMIT USER INFORMATION FROM AD INTO THE JSS AT LOGIN V2

A couple of years ago I posted on how we "Submitted User Information From AD Into The JSS At Login" Since the Casper Suite 8.61 was release, the JSS has been able to perform this function. Below is a guide on how to leverage this.

Contents [hide]

1 Prerequisites
2 Submitting User Information
2.1 Departments
2.2 Buildings

Prerequisites

Your JSS needs to have at least one LDAP server specified, with the correct attribute mappings for your environment. Below is an example of the mappings that we use, (you can use Directory Utility to find these attributes as shown here).

https://macmule.com/2014/05/04/submit-user-information-from-ad-into-the-jss-at-login-v2/

© copyright 2002-2023 Jamf

Jamf Pro API Scalability Best Practices

- Syncing Device Inventory Data
  - Think about when devices update inventory
    - Mobile Devices (iOS, tvOS, iPadOS) = daily
    - Computers (macOS) = more often

© copyright 2002-2023 Jamf

Guides

Search ⌘K

JAMF PRO DOCUMENTATION

- Which API Should I Use?
- Jamf Pro Device Enrollment Guide
- Populating Dummy Data
- Webhooks
- Extension Attributes
- Jamf Pro API Scalability Best Practices
- Application & Custom Settings
- Kernel and System Extensions
- Sticky Sessions for Jamf Cloud
- Jamf Log Stream

OTHER RESOURCES

- Compliance Reporter
- Data Streams
- Jamf Connect
- Jamf Protect
- Jamf School
- Jamf Marketplace
- macOS Application Packaging Best

Webhooks

Learn about the event notification system used by Jamf Pro

Overview

Webhooks allow you to subscribe to specific events on a Jamf Pro instance. When an event occurs, an HTTP POST payload is sent to a specified URL. Below is a list of the supported webhook events, descriptions of how the events are triggered and samples of the data structures they POST. Sample payloads can be found below, with data types described for each field.

The `epoch` data type includes milliseconds, which is equivalent to a 13 digit integer value. The `jssID` attribute corresponds with the Jamf Pro assigned ID of the referenced object, this value can be found in the URI when accessing the the object via the Jamf Pro user interface. For example, a ComputerAdded event with a `jssID` value of 52 would correspond with a computer record with ID 52 and could be viewed in the UI via URL similar to the following: `https://instance.jamfcloud.com/computers.html?id=52&o=r`.

ComputerAdded

This event is triggered when a new computer is enrolled into Jamf Pro. This event will not trigger if a computer record already exists within inventory for a device that is re-enrolled. For more information on the various computer enrollment methods, see the Administrator's Guide.

JSON XML

TABLE OF CONTENTS

- Overview
- ComputerAdded
- ComputerCheckIn
- ComputerInventoryCompleted
- ComputerPatchPolicyCompleted
- ComputerPolicyFinished
- ComputerPushCapabilityChanged
- DeviceAddedToDEP
- JSSShutdown
- JSSStartup
- MobileDeviceCheckIn
- MobileDeviceCommandCompleted
- MobileDeviceEnrolled

https://developer.jamf.com/developer-guide/docs/webhooks

© copyright 2002-2023 Jamf

CONTENTS

Copyright and Trademarks

Jamf Pro Documentation

Overview of Technologies

Before You Begin

System Settings

Global Management Settings

Jamf Application Integrations

Jamf Self Service

Server Infrastructure

Network Organization

Declarative Device Management Capabilities with Jamf Pro

Jamf Pro automatically sends a remote management command to enable declarative device management on the device during the following events:

- Enrollment with Jamf Pro for newly enrolled devices. Declarative device management is supported with all enrollment types (Automated Device Enrollment, Device Enrollment, and User Enrollment)
- During the next device check-in for existing devices that are eligible for declarative device management

Example:
When a device is upgraded to iOS 16 or iPadOS 16, it automatically becomes enabled for declarative device management, and the following operations occur:

- Via the status channel, the device proactively reports the new OS version to Jamf Pro, and Jamf Pro updates its inventory information.
- Any smart groups or advanced searches that use OS version as criteria are recalculated.
- The device evaluates itself against existing declarations installed on the device and applies any configuration updates based on available activation logic.

Identifying Devices That Have Declarative Device Management Enabled

You can identify if an individual computer or mobile device has declarative device management enabled by viewing its General inventory information.

ON THIS TOPIC

General Requirements

Declarative Device Management Capabilities with Jamf Pro

Identifying Devices That Have Declarative Device Management Enabled

https://learn.jamf.com/bundle/jamf-pro-documentation-current/page/Declarative_Device_Management.html

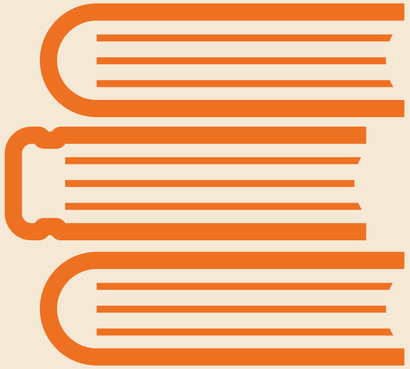
© copyright 2002-2023 Jamf

Example:
When a device is upgraded to iOS 16 or iPadOS 16, it automatically becomes enabled for declarative device management, and the following operations occur:

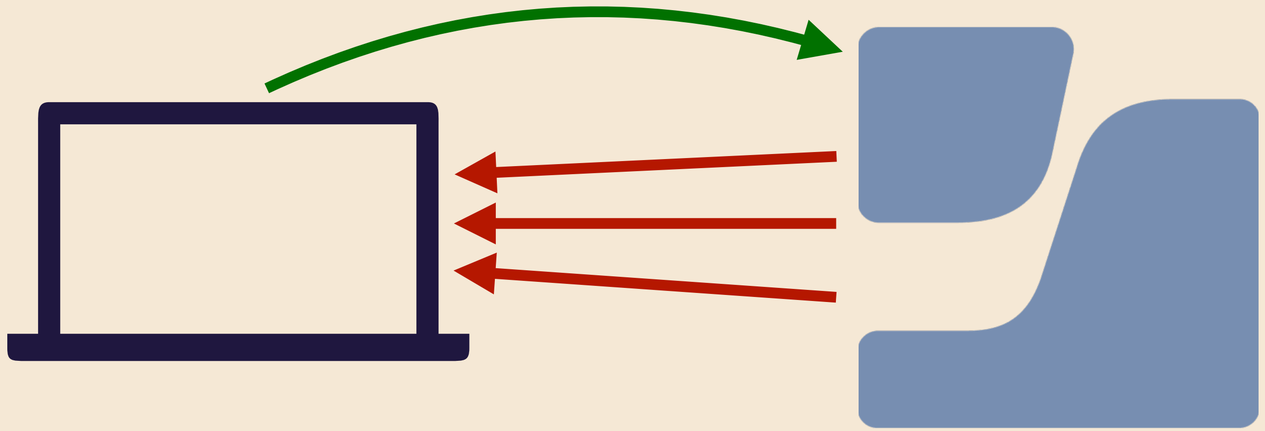
- Via the status channel, the device proactively reports the new OS version to Jamf Pro, and Jamf Pro updates its inventory information.
- Any smart groups or advanced searches that use OS version as criteria are recalculated.
- The device evaluates itself against existing declarations installed on the device and applies any configuration updates based on available activation logic.

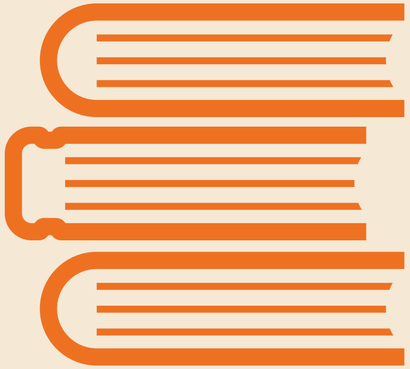
https://learn.jamf.com/bundle/jamf-pro-documentation-current/page/Declarative_Device_Management.html

© copyright 2002-2023 Jamf

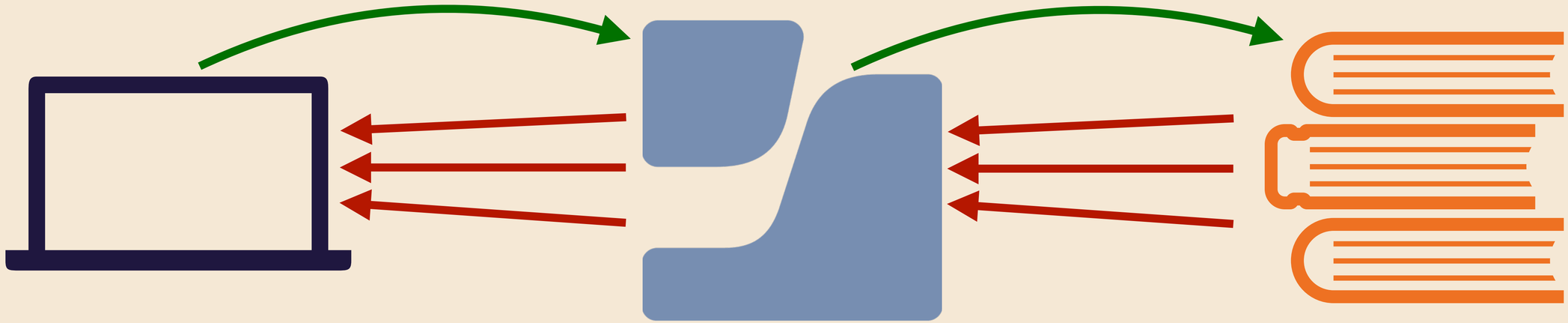


© copyright 2002-2023 Jamf

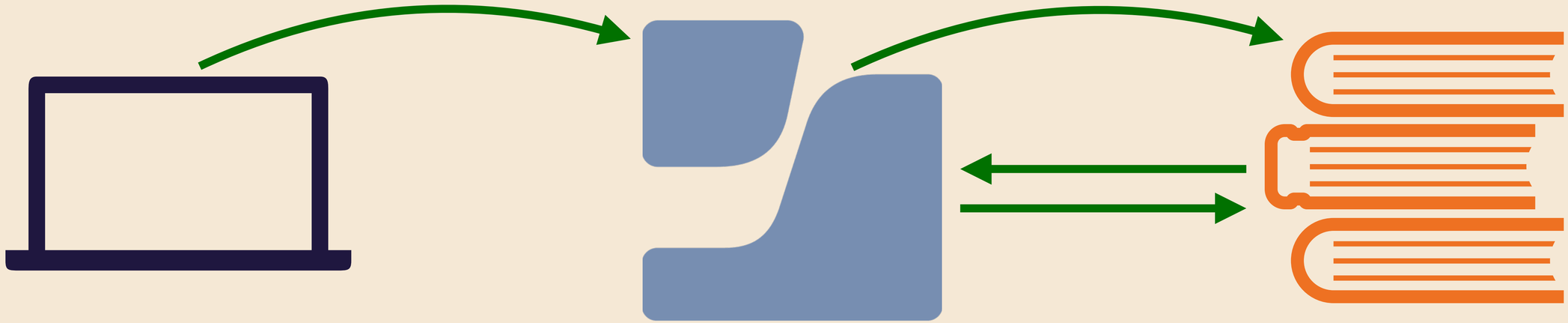




© copyright 2002-2023 Jamf



© copyright 2002-2023 Jamf



© copyright 2002-2023 Jamf

jamf NATION Jamf Nation Feature Requests

Search all feature requests

Home / Search results / JN-I-27493

Add a new feature request | Edit feature request Subscribe

1

VOTED

Status	Submitted
Categories	Jamf Pro
Created by	Ben Toms
Created on	31 Jul, 2023

RELATED FEATURE REQUESTS

IOs update button in device management

Smart Mobile Device Groups for App Management Status

Add Criteria "Management Status" in Smart Mobile Device

Declarative Device Management status channel update Webhooks

It would be fantastic if we could have webhooks for when a device updates Jamf Pro via Declarative Device Management's status channel.

Especially, when the devices OS has changed.

Jamf Nation Tags Jamf Pro, Webhooks

COMMENTS 0 VOTES 1

+ Add a comment

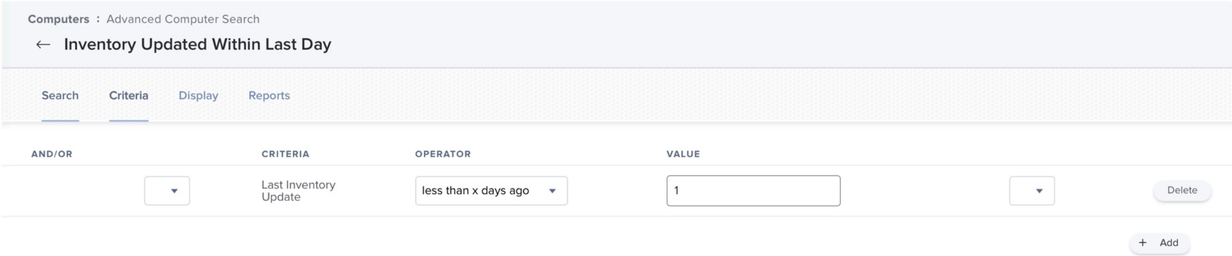
https://ideas.jamf.com/ideas/JN-I-27493

© copyright 2002-2023 Jamf

Webhooks
Extension Attributes
Jamf Pro API Scalability Best Practices
Application & Custom Settings
Kernel and System Extensions
Sticky Sessions for Jamf Cloud
Jamf Log Stream

OTHER RESOURCES
Compliance Reporter
Data Streams
Jamf Connect
Jamf Protect
Jamf School
Jamf Marketplace
macOS Application Packaging Best Practices
Managed App Configuration
Single Login with Single Sign-on Extensions
Application Header Best Practices
Jamf API License Agreement
API Style Guide

For applications that do not require realtime data, Jamf recommends performing full inventory syncs no more than once every 24 hours. To further optimize performance and remove redundant data, Jamf recommends using a filter to request only devices that have submitted inventory within the last day. This can be accomplished via the Classic API with the use of Advanced Searches and a criteria and operator similar to the following.



Advanced search criteria for identifying devices that have submitted inventory recently.

By requesting the results of the computer or mobile device advanced search, we can build a list of devices that have changed since the last sync. This will avoid fetching individual device records which may be powered off, decommissioned or otherwise have been inactive since the last sync. After receiving the list of devices that have submitted inventory within the last day, requests to each device record can be made for full inventory details of the device.

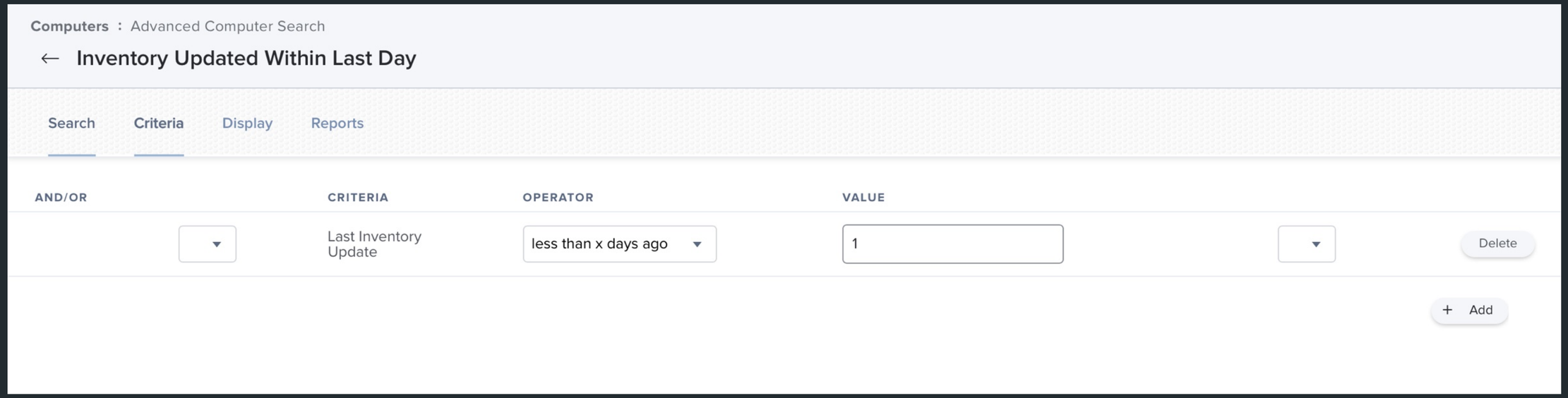
This same process can be accomplished via the Jamf Pro API in a much simpler manner for managed computers, via the use of the `general.reportDate` filter parameter. By using this filter, you can obtain a list of only the devices which have submitted inventory since the specified date. For more information on filtering, see Filtering with RSQL. Filtering is not yet supported for mobile devices in the Jamf Pro API.

Updated about 1 year ago

Mobile Devices (iOS, tvOS, iPadOS)
Computers (macOS)
Frequency of Syncs

https://developer.jamf.com/developer-guide/docs/ jamf-pro-api-scalability-best-practices#frequency-of-syncs

© copyright 2002-2023 Jamf



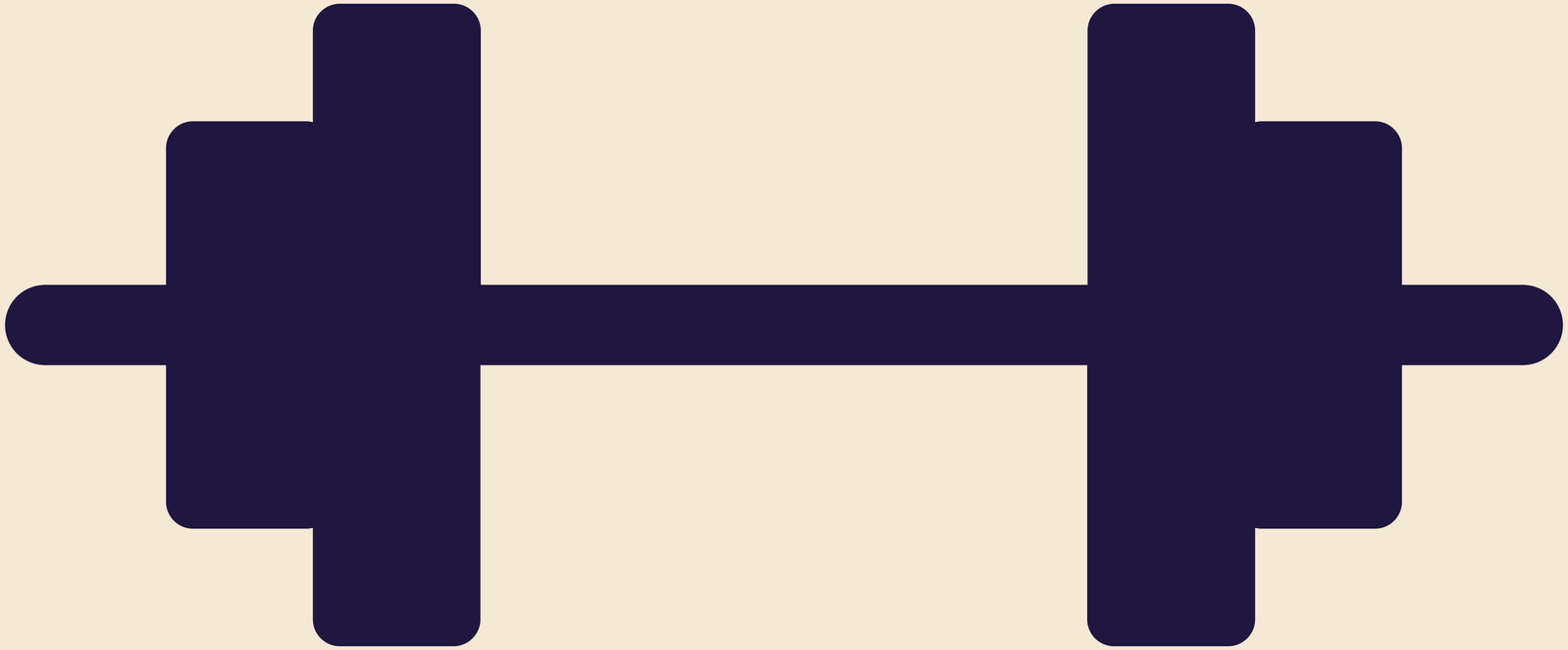
https://developer.jamf.com/developer-guide/docs/ jamf-pro-api-scalability-best-practices#frequency-of-syncs

© copyright 2002-2023 Jamf

Jamf Pro API Scalability Best Practices

- Syncing Device Inventory Data
  - Think about when devices update inventory
    - Mobile Devices (iOS, tvOS, iPadOS) = daily
    - Computers (macOS) = more often
  - Use an advanced search

© copyright 2002-2023 Jamf



© copyright 2002-2023 Jamf

```
<storage>
  <device>
    <disk>disk0</disk>
    <model>APPLE SSD AP1024R</model>
    <revision>874.120.</revision>
    <serial_number>0ba01683e3bc6e3e</serial_number>
    <size>1000555</size>
    <drive_capacity_mb>1000555</drive_capacity_mb>
    <connection_type>NO</connection_type>
    <smart_status>Verified</smart_status>
    <partitions>
      <partition>
        <name>xarts</name>
        <size>524</size>
        <type>other</type>
        <partition_capacity_mb>524</partition_capacity_mb>
        <percentage_full>2</percentage_full>
        <available_mb>504</available_mb>
        <filevault_status>Not Encrypted</filevault_status>
        <filevault_percent>0</filevault_percent>
        <filevault2_status>Not Encrypted</filevault2_status>
        <filevault2_percent>0</filevault2_percent>
      </partition>
      <partition>
        <name>Hardware</name>
        <size>524</size>
        <type>other</type>
        <partition_capacity_mb>524</partition_capacity_mb>
```


© copyright 2002-2023 Jamf

```
  <percentage_full>2</percentage_full>
  <available_mb>315500</available_mb>
  <filevault_status>Not Encrypted</filevault_status>
  <filevault_percent>0</filevault_percent>
  <filevault2_status>Not Encrypted</filevault2_status>
  <filevault2_percent>0</filevault2_percent>
</partition>
<partition>
  <name>Macintosh HD (Boot Partition)</name>
  <size>994662</size>
  <type>boot</type>
  <partition_capacity_mb>994662</partition_capacity_mb>
  <percentage_full>3</percentage_full>
  <available_mb>315500</available_mb>
  <filevault_status>Encrypted</filevault_status>
  <filevault_percent>100</filevault_percent>
  <filevault2_status>Encrypted</filevault2_status>
  <filevault2_percent>100</filevault2_percent>
  <boot_drive_available_mb>315500</boot_drive_available_mb>
  <lvgUUID/>
  <lvUUID/>
  <pvUUID/>
</partition>
<partition>
  <name>Update</name>
  <size>994662</size>
  <type>other</type>
  <partition_capacity_mb>994662</partition_capacity_mb>
  <percentage_full>1</percentage_full>
  <available_mb>315500</available_mb>
```


© copyright 2002-2023 Jamf

```
<partition>
  <name>Macintosh HD (Boot Partition)</name>
  <size>994662</size>
  <type>boot</type>
  <partition_capacity_mb>994662</partition_capacity_mb>
  <percentage_full>3</percentage_full>
  <available_mb>315500</available_mb>
  <filevault_status>Encrypted</filevault_status>
  <filevault_percent>100</filevault_percent>
  <filevault2_status>Encrypted</filevault2_status>
  <filevault2_percent>100</filevault2_percent>
  <boot_drive_available_mb>315500</boot_drive_available_mb>
  <lvgUUID/>
  <lvUUID/>
  <pvUUID/>
</partition>
```


© copyright 2002-2023 Jamf

```
<partition>
  <name>Macintosh HD (Boot Partition)</name>
  <size>994662</size>
  <type>boot</type>
  <partition_capacity_mb>994662</partition_capacity_mb>
  <percentage_full>3</percentage_full>
  <available_mb>315500</available_mb>
  <filevault_status>Encrypted</filevault_status>
  <filevault_percent>100</filevault_percent>
  <filevault2_status>Encrypted</filevault2_status>
  <filevault2_percent>100</filevault2_percent>
  <boot_drive_available_mb>315500</boot_drive_available_mb>
  <lvgUUID/>
  <lvUUID/>
  <pvUUID/>
</partition>
```


© copyright 2002-2023 Jamf

```
<partition>
  <name>Macintosh HD (Boot Partition)</name>
  <size>994662</size>
  <type>boot</type>
  <partition_capacity_mb>994662</partition_capacity_mb>
  <percentage_full>3</percentage_full>
  <available_mb>315500</available_mb>
  <filevault_status>Encrypted</filevault_status>
  <filevault_percent>100</filevault_percent>
  <filevault2_status>Encrypted</filevault2_status>
  <filevault2_percent>100</filevault2_percent>
  <boot_drive_available_mb>315500</boot_drive_available_mb>
  <lvgUUID/>
  <lvUUID/>
  <pvUUID/>
</partition>
```

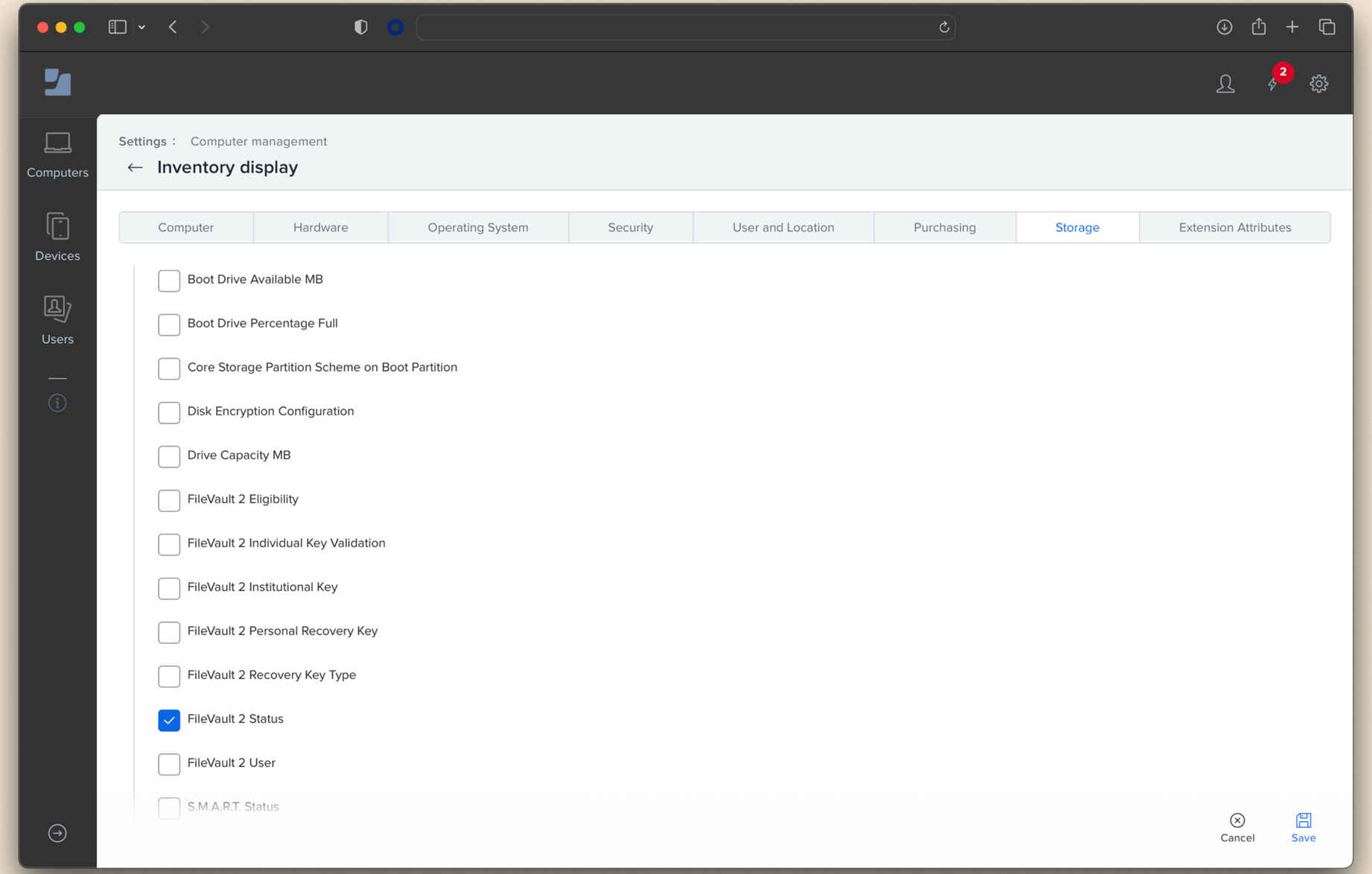

© copyright 2002-2023 Jamf

<Serial_Number>123456789</Serial_Number>
<Administrator_Rights/>
<Last_Enrollment>2023-05-31 19:45:41</Last_Enrollment>
<Full_Name>Ben Toms</Full_Name>
<Restrictions>Unassigned</Restrictions>
<Active_Directory_Status>Not Bound</Active_Directory_Status>
<IP_Address>86.13.92.24</IP_Address>
<Notes/>
<Drive_Capacity_MB>1000555</Drive_Capacity_MB>
<Operating_System_Name>macOS</Operating_System_Name>
<MDM_Capability>Yes</MDM_Capability>
<Total_RAM_MB>16384</Total_RAM_MB>
<Email_Address/>
<Machine_Role/>
<FileVault_2_Status>Boot Partitions Encrypted</FileVault_2_Status>
<Enrolled_via_Automated_Device_Enrollment>YES</Enrolled_via_Automated_Device_Enrollment>
<Last_Check_in>2023-07-31 16:54:28</Last_Check_in>
<Asset_Tag/>
<Battery_Capacity>1</Battery_Capacity>
<Supervised>Yes</Supervised>
<Last_Inventory_Update>2023-07-31 16:25:38</Last_Inventory_Update>
<Operating_System_Version>13.4.1</Operating_System_Version>
<User_Approved_MDM>YES</User_Approved_MDM>
<Phone_Number/>
<Managed_By>_datajardotmobi</Managed_By>
<Last_Reported_IP_Address>192.168.0.21</Last_Reported_IP_Address>
<Model>MacBook Pro (14-inch, 2021)</Model>
<Username>ben</Username>
<Computer_Group>

© copyright 2002-2023 Jamf

<FileVault_2_Status>Boot Partitions Encrypted</FileVault_2_Status>

© copyright 2002-2023 Jamf



© copyright 2002-2023 Jamf

Jamf Cloud but no SIEM? Never fear, the API is here!

© copyright 2002-2023 Jamf

README.md

JAMFSoftwareServer.log Messages

This repo contains a list of messages which can appear in the JAMFSoftwareServer.log, with a note as to what action might be required due to the messages being generated.

Please reach out to Jamf Support if any questions, & Pull Requests accepted to add more messages.

The log message snippets are displayed in the 1st column, scroll to the right for any recommended steps.

The messages have an assigned status, as per:

Status	Description
💥	Severe events which needs immediate attention.
💣	Events which if left unchecked can lead to service disruption.
⚠️	An event that needs attention, but is not service affecting.
🆗	Non-issue, an informative event.

Log Message Snippets	S
`Fatal error logged during server initialization`	
`APNs Certificate is expired.`	
`[llmentProgramDeviceHelper] - 403 The organization has not accepted latest Terms and`	

5 forks

Report repository

Releases

No releases published

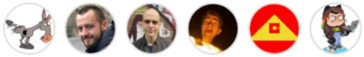
Create a new release

Packages

No packages published

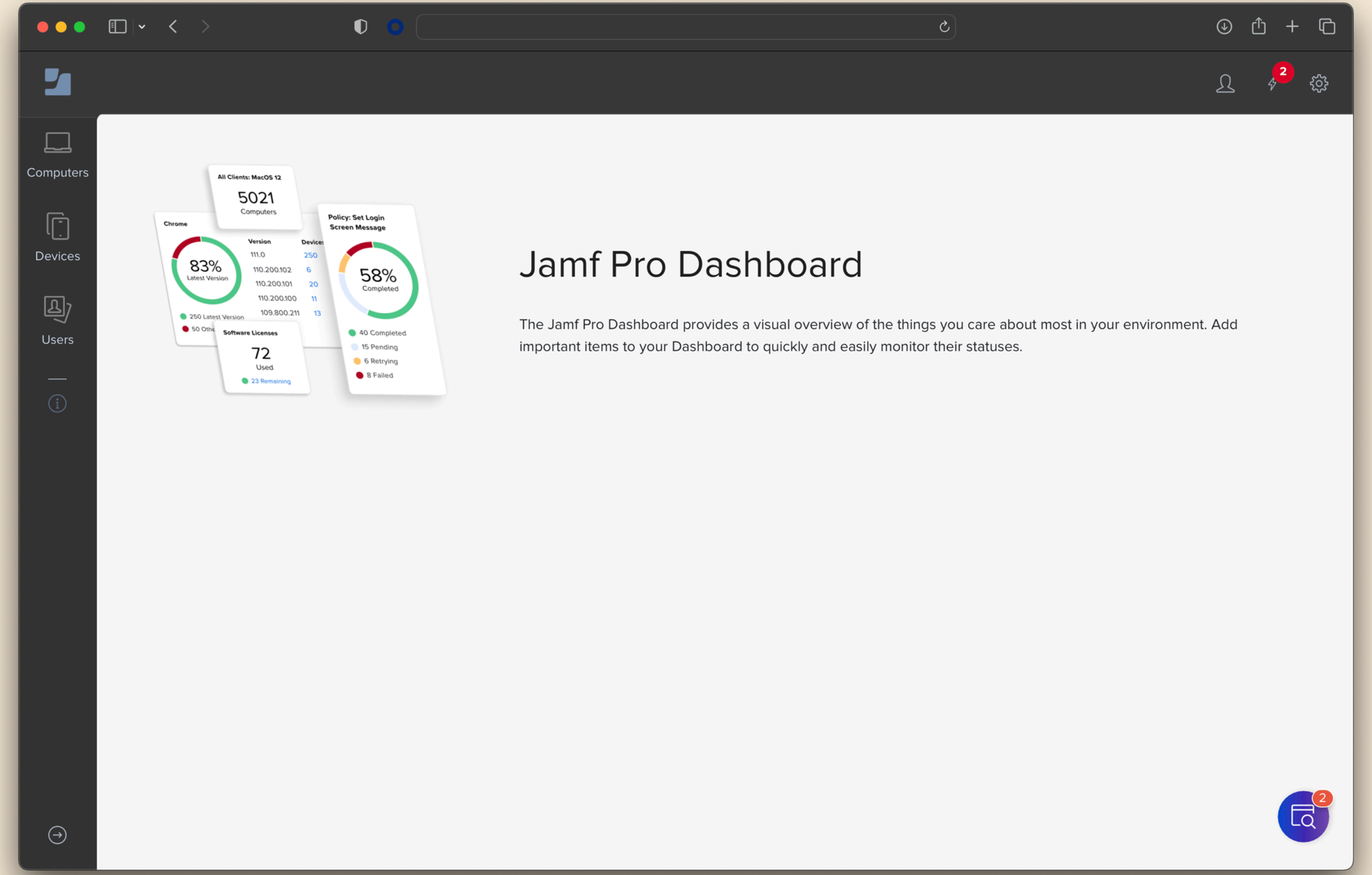
Publish your first package

Contributors 6

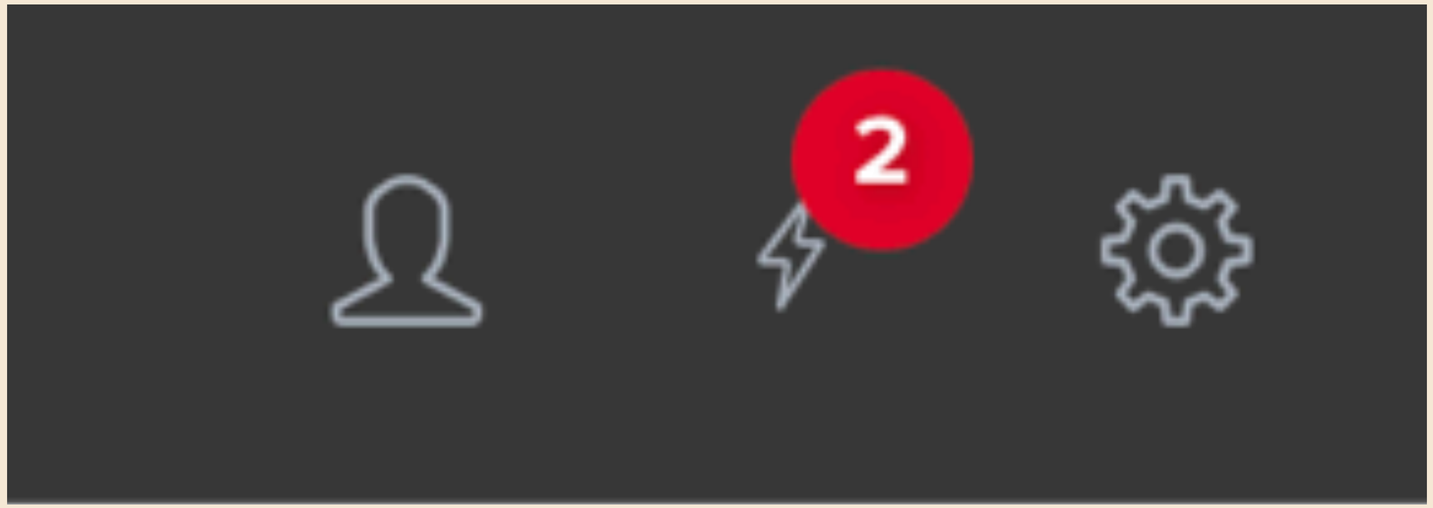


https://github.com/dataJAR/JAMFSoftwareServer.log-Messages

© copyright 2002-2023 Jamf



© copyright 2002-2023 Jamf



© copyright 2002-2023 Jamf

jamf

API References | Documentation

v10.48.0 | Home | Guides | Recipes | API Reference | Changelog | Search ⌘K

- enrollment-customization
- enrollment-customization-preview
- icon
- inventory-information
- inventory-preload
- jamf-connect
- jamf-management-framework
- jamf-package
- jamf-pro-information
- jamf-pro-initialization
- jamf-pro-initialization-preview
- jamf-pro-notifications
  - Get Notifications for user and site GET
  - Delete Notifications DELETE
- jamf-pro-notifications-preview
- jamf-pro-server-url-preview
- jamf-pro-user-account-settings
- jamf-pro-user-account-settings-preview

Get Notifications for user and site

GET https://yourServer.jamfcloud.com/api/v1/notifications

Gets notifications for user and site

RESPONSE

200
Successful response

Updated 20 days ago

← jamf-pro-notifications | Delete Notifications →

LANGUAGE

Shell | Swift | Ruby | Python

CURL

REQUEST

```
1 curl --request GET \
2      --url https://yourserver.jamfcloud.com/api/v1/no
3      --header 'accept: application/json'
```

RESPONSE | EXAMPLES

Choose an example:

application/json

200

https://developer.jamf.com/jamf-pro/reference/get_v1-notifications

© copyright 2002-2023 Jamf

2023 JNUC

- enrollment-customization-preview
- icon
- inventory-information
- inventory-preload
- jamf-connect
- jamf-management-framework
- jamf-package
- jamf-pro-information
- jamf-pro-initialization
- jamf-pro-initialization-preview
- jamf-pro-notifications
  - Get Notifications for user and site GET
  - Delete Notifications DELETE
- jamf-pro-notifications-preview
- jamf-pro-server-url-preview
- jamf-pro-user-account-settings
- jamf-pro-user-account-settings-preview
- jamf-pro-version
- jamf-protect
- ldap
- local-admin-password

Get N

GET http

Gets notif

RESPONSE

200 Successfu

Updated

jamf-p

Successful response

RESPONSE BODY

array of objects

object

type string

APNS_CERT_REVOKED APNS_CONNECTION_FAILURE APPLE_SCHOOL_MANAGER_T_C_NOT_SIGNED
BUILT_IN_CA_EXPIRED BUILT_IN_CA_EXPIRING BUILT_IN_CA_RENEWAL_FAILED
BUILT_IN_CA_RENEWAL_SUCCESS CLOUD_LDAP_CERT_EXPIRED CLOUD_LDAP_CERT_WILL_EXPIRE
DEP_INSTANCE_EXPIRED DEP_INSTANCE_WILL_EXPIRE DEVICE_ENROLLMENT_PROGRAM_T_C_NOT_SIGNED
EXCEEDED_LICENSE_COUNT FREQUENT_INVENTORY_COLLECTION_POLICY GSX_CERT_EXPIRED
GSX_CERT_WILL_EXPIRE HCL_BIND_ERROR HCL_ERROR INSECURE_LDAP
INVALID_REFERENCES_EXT_ATTR INVALID_REFERENCES_POLICIES INVALID_REFERENCES_SCRIPTS
JAMF_CONNECT_UPDATE JAMF_PROTECT_UPDATE JIM_ERROR
LDAP_CONNECTION_CHECK_THROUGH_JIM_FAILED LDAP_CONNECTION_CHECK_THROUGH_JIM_SUCCESSFUL
MDM_EXTERNAL_SIGNING_CERTIFICATE_EXPIRED MDM_EXTERNAL_SIGNING_CERTIFICATE_EXPIRING
MDM_EXTERNAL_SIGNING_CERTIFICATE_EXPIRING_TODAY MII_HEARTBEAT_FAILED_NOTIFICATION
MII_INVENTORY_UPLOAD_FAILED_NOTIFICATION MII_UNATHORIZED_RESPONSE_NOTIFICATION
PATCH_EXTENTION_ATTRIBUTE PATCH_UPDATE
POLICY_MANAGEMENT_ACCOUNT_PAYLOAD_SECURITY_MULTIPLE
POLICY_MANAGEMENT_ACCOUNT_PAYLOAD_SECURITY_SINGLE PUSH_CERT_EXPIRED
PUSH_CERT_WILL_EXPIRE PUSH_PROXY_CERT_EXPIRED SSO_CERT_EXPIRED SSO_IDP_CERT_EXPIRED
SSO_CERT_WILL_EXPIRE SSO_IDP_CERT_WILL_EXPIRE TOMCAT_SSL_CERT_EXPIRED
TOMCAT_SSL_CERT_WILL_EXPIRE USER_INITIATED_ENROLLMENT_MANAGEMENT_ACCOUNT_SECURITY_ISSUE
USER_MAID_DUPLICATE_ERROR USER_MAID_MISMATCH_ERROR USER_MAID_ROSTER_DUPLICATE_ERROR
VPP_ACCOUNT_EXPIRED VPP_ACCOUNT_WILL_EXPIRE VPP_TOKEN_REVOKED
DEVICE_COMPLIANCE_CONNECTION_ERROR CONDITIONAL_ACCESS_CONNECTION_ERROR
AZURE_AD_MIGRATION_REPORT_GENERATED BEYOND_CORP_CONNECTION_ERROR

Swift Ruby Python

```
--request GET \
--url https://yourserver.jamfcloud.com/api/v1/no
--header 'accept: application/json'
```

EXAMPLES

Choose an example:

application/json

200

https://developer.jamf.com/jamf-pro/reference/get_v1-notifications

© copyright 2002-2023 Jamf

APNS_CERT_REVOKED
APPLE_SCHOOL_MANAGER_T_C_NOT_SIGNED
BUILT_IN_CA_EXPIRED
BUILT_IN_CA_EXPIRING
CLOUD_LDAP_CERT_EXPIRED
CLOUD_LDAP_CERT_WILL_EXPIRE
DEP_INSTANCE_EXPIRED
DEP_INSTANCE_WILL_EXPIRE
DEVICE_ENROLLMENT_PROGRAM_T_C_NOT_SIGNED
JIM_ERROR
LDAP_CONNECTION_CHECK_THROUGH_JIM_FAILED
PUSH_CERT_EXPIRED
PUSH_CERT_WILL_EXPIRE
SSO_CERT_EXPIRED
SSO_CERT_WILL_EXPIRE
SSO_IDP_CERT_EXPIRED
SSO_IDP_CERT_WILL_EXPIRE
TOMCAT_SSL_CERT_EXPIRED
TOMCAT_SSL_CERT_WILL_EXPIRE
VPP_ACCOUNT_EXPIRED
VPP_ACCOUNT_WILL_EXPIRE
VPP_TOKEN_REVOKED

© copyright 2002-2023 Jamf

APNS_CERT_REVOKED
APPLE_SCHOOL_MANAGER_T_C_NOT_SIGNED
BUILT_IN_CA_EXPIRED
BUILT_IN_CA_EXPIRING
CLOUD_LDAP_CERT_EXPIRED
CLOUD_LDAP_CERT_WILL_EXPIRE
DEP_INSTANCE_EXPIRED
DEP_INSTANCE_WILL_EXPIRE
DEVICE_ENROLLMENT_PROGRAM_T_C_NOT_SIGNED
JIM_ERROR
LDAP_CONNECTION_CHECK_THROUGH_JIM_FAILED
PUSH_CERT_EXPIRED
PUSH_CERT_WILL_EXPIRE
SSO_CERT_EXPIRED
SSO_CERT_WILL_EXPIRE
SSO_IDP_CERT_EXPIRED
SSO_IDP_CERT_WILL_EXPIRE
TOMCAT_SSL_CERT_EXPIRED
TOMCAT_SSL_CERT_WILL_EXPIRE
VPP_ACCOUNT_EXPIRED
VPP_ACCOUNT_WILL_EXPIRE
VPP_TOKEN_REVOKED

© copyright 2002-2023 Jamf

alectrona / jamf-pro-notifications-alerter

Type / to search

Code | Issues | Pull requests | Wiki | Security | Insights

jamf-pro-notifications-alerter

Public

Watch 2 | Fork 1 | Star 9

main | 1 branch | 0 tags | Go to file | Add file | Code

ryangball fix heading type — 653e065 on Jun 28 — 6 commits

.circleci	initial commit	last month
.github/workflows	initial commit	last month
images	initial commit	last month
scripts	Switch quad spaces to tabs	last month
.gitignore	initial commit	last month
README.md	fix heading type	last month
bitbucket-pipelines.yml	initial commit	last month
notifications.txt	initial commit	last month

README.md

About

A tool designed for CI/CD pipelines that gets all Jamf Pro Notifications from a Jamf Pro server and posts them to Slack using a webhook.

alectrona.com

jamf | jamf-pro | jamf-github | jamfpro | jamfpro-scripts | jamf-pro-api | jamf-json

Readme
Activity
9 stars
2 watching
1 fork
Report repository

https://github.com/alectrona/jamf-pro-notifications-alerter

© copyright 2002-2023 Jamf

How to Run

Access the help with the `--help` option.

```
./jamf-pro-notifications-alerter.sh --help
```

```
OVERVIEW: A tool that retrieves Jamf Pro Notifications and posts them to Slack.

USAGE:
./jamf-pro-notifications-alerter.sh [--url] [--username] [--password] [--slack-webhook]

OPTIONS:

--url               The Jamf Pro URL.
--username          The Jamf Pro API username.
--password          The Jamf Pro API password.
--slack-webhook     A Slack webhook to post the Jamf Pro Notifications to.

ENVIRONMENTAL VARIABLES:

The below Environmental Variables can be used in place of command line options.

JAMF_PRO_URL
API_USER
API_PASS
SLACK_WEBHOOK

Note: Using any of the above command line options will override that option's associated
environmental variable.
```

https://github.com/alectrona/jamf-pro-notifications-alerter

© copyright 2002-2023 Jamf

Getting inventory data to devices: have you tried a profile?

© copyright 2002-2023 Jamf

Variable	Inventory Information
$ASSET_TAG	Asset Tag
$BUILDINGID	Building ID
$BUILDINGNAME	Building Name
$DEPARTMENTID	Department ID
$DEPARTMENTNAME	Department Name
$DEVICENAME	Mobile Device Name
$EMAIL	Email Address
$EXTENSIONATTRIBUTE_#	Extension Attribute ID Number
$FULLNAME or $REALNAME	Full Name
$JSSID	Jamf Pro ID
$MACADDRESS	MAC Address
$PHONE	Phone Number
$POSITION	Position
$PROFILEJSSID	Jamf Pro ID of the Configuration Profile
$ROOM	Room
$SERIALNUMBER	Serial Number
$SITEID	Site ID
$SITENAME	Site Name
$UDID	UDID
$USERNAME	Username

https://learn.jamf.com/bundle/jamf-pro-documentation-10.39.0/page/Mobile_Device_Configuration_Profiles.html

© copyright 2002-2023 Jamf

App Security – Disable Copy-Paste	Use iOS 7+ "Managed Configuration" to set the copy/paste policy on the application.

Introduction
iOS Capabilities
Summary
App Configuration
App Tunnel
Single Sign-On
Security Policies
Appendix – Dev Tools

App Configuration

Use Case

Many enterprise applications require users to enter URL, port, email address, and various configurations as part of a one time setup of an application. These manual configurations can impact the adoption and success of an organization's mobile app initiatives, increase the burden on a help desk fielding calls from users, and adds the burden of maintaining documentation that needs to be updated frequently as new updates to the application are made available.

By leveraging the native APIs recommended by the AppConfig Community, these configurations can be automatically set remotely by the EMM server. This simplifies the setup process for end users, and alleviates the help desk and documentation burden. An app developer can define a set of configuration keys it accepts from an EMM server. An IT administrator can simply set the keys and values in the EMM provider's management console and they will be pushed to the app.

Apps commonly implement the following types of configurations:

Backend service configuration: server URL, port, use SSL, group/tenant code

User configuration: username, email, domain

Standard configuration keys for enterprise apps are included in Appendix I of this document.

How it Works

Requirements

- iOS 7+ device enrolled with Apple's mobile device management protocol

https://www.appconfig.org/ios.html

© copyright 2002-2023 Jamf

Jamf Self Service for iOS

CONTENTS

Before You Begin

System Settings

Global Management Settings

Jamf Application Integrations

Jamf Self Service

Jamf Self Service for macOS

Jamf Self Service for Mobile Devices

Jamf Self Service for iOS

Jamf Self Service for iOS Branding Settings

12. On the General pane, select "Install Automatically/Prompt Users to Install" from the **Distribution Method** pop-up menu, and configure any additional settings.
13. Click the **Scope** tab and configure the scope of the app.
14. On the **App Configuration** tab, add the following lines to the **Preferences** field:

```
<dict>
<key>INVITATION_STRING</key>
<string>$MOBILEDEVICEAPPINVITE</string>
<key>JSS_ID</key>
<string>$JSSID</string>
<key>SERIAL_NUMBER</key>
<string>$SERIALNUMBER</string>
<key>DEVICE_NAME</key>
<string>$DEVICENAME</string>
<key>MAC_ADDRESS</key>
<string>$MACADDRESS</string>
<key>UDID</key>
<string>$UDID</string>
<key>JSS_URL</key>
<string>$JPS_URL</string>
<key>MANAGEMENT_ID</key>
<string>$MANAGEMENTID</string>
</dict>
```

15. Click **Save**.

ON THIS TOPIC

General Requirements

Manually Installing Self Service with Volume Purchasing

Automatically Installing Self Service for iOS

Manually Installing Self Service for iOS

Installation Experience

https://learn.jamf.com/bundle/jamf-pro-documentation-current/page/Jamf_Self_Service_for_iOS.html#ariaid-title4

© copyright 2002-2023 Jamf

```
<dict>
<key>INVITATION_STRING</key>
<string>$MOBILEDEVICEAPPINVITE</string>
<key>JSS_ID</key>
<string>$JSSID</string>
<key>SERIAL_NUMBER</key>
<string>$SERIALNUMBER</string>
<key>DEVICE_NAME</key>
<string>$DEVICENAME</string>
<key>MAC_ADDRESS</key>
<string>$MACADDRESS</string>
<key>UDID</key>
<string>$UDID</string>
<key>JSS_URL</key>
<string>$JPS_URL</string>
<key>MANAGEMENT_ID</key>
<string>$MANAGEMENTID</string>
</dict>
```

https://learn.jamf.com/bundle/jamf-pro-documentation-current/page/Jamf_Self_Service_for_iOS.html#ariaid-title4

© copyright 2002-2023 Jamf

Variable	Inventory Information
$BUILDINGID	Building ID
$BUILDINGNAME	Building Name
$COMPUTERNAME	Computer Name
$DEPARTMENTID	Department ID
$DEPARTMENTNAME	Department Name
$EMAIL	Email Address
$EXTENSIONATTRIBUTE_#	Extension Attribute ID Number
$FULLNAME or $REALNAME	Full Name
$JSSID	Jamf Pro ID
$MACADDRESS	MAC Address
$PHONE	Phone Number
$POSITION	Position
$PROFILEJSSID	Jamf Pro ID of the Configuration Profile
$ROOM	Room
$SERIALNUMBER	Serial Number
$SITEID	Site ID
$SITENAME	Site Name
$UDID	UDID
$USERNAME	Username associated with the computer in Jamf Pro (computer-level profiles only)

https://learn.jamf.com/bundle/jamf-pro-documentation-10.39.0/page/Computer_Configuration_Profiles.html#ariaid-title2

© copyright 2002-2023 Jamf

Der Flounder

Seldom updated, occasionally insightful.

About | Contact

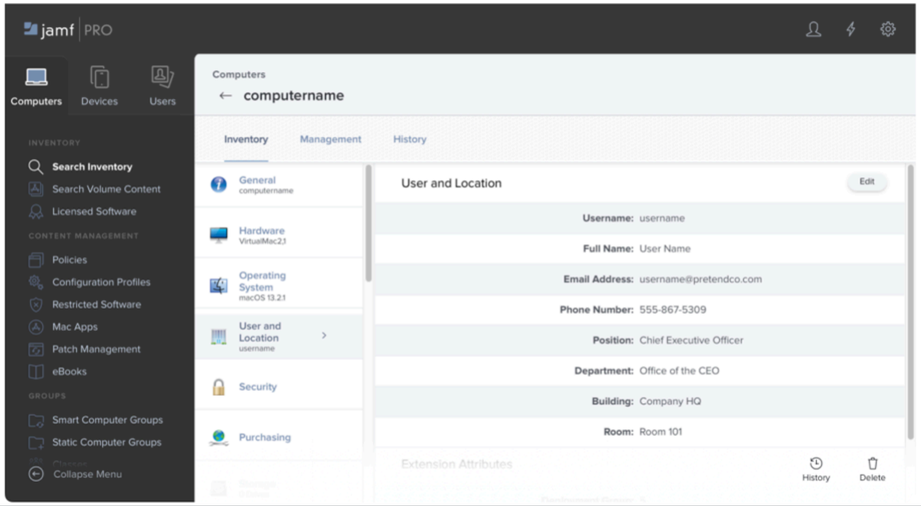
Type text to search here...

Home > Jamf Pro, Mac administration, Management Profiles > Providing Jamf Pro computer inventory information via macOS configuration profile

Providing Jamf Pro computer inventory information via macOS configuration profile

February 25, 2023 rtrouton Go to comments Leave a comment

Jamf Pro can store and make available a lot of information about a particular computer and who is using it as part of the computer's inventory record, but it can be challenging to access that information from the computer itself.



RSS feed

February 2023

M	T	W	T	F	S	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

« Jan Mar »

Recent Comments

Cesar Pineda on Identifying Mac laptops and de...

MO on Rebuilding your macOS Recovery...

Mo on Rebuilding your macOS Recovery...

OM on Rebuilding your macOS Recovery...

Chrtistof on Reclaiming drive space by thin...

https://derflounder.wordpress.com/2023/02/25/providing-jamf-pro-computer-inventory-information-via-macos-configuration-profile/

© copyright 2002-2023 Jamf

https://github.com/macmule/talks/tree/main/jnuc2023

© copyright 2002-2023 Jamf