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Extension Attributes: The What, the Why, and the How



Steve Wood

Jamf

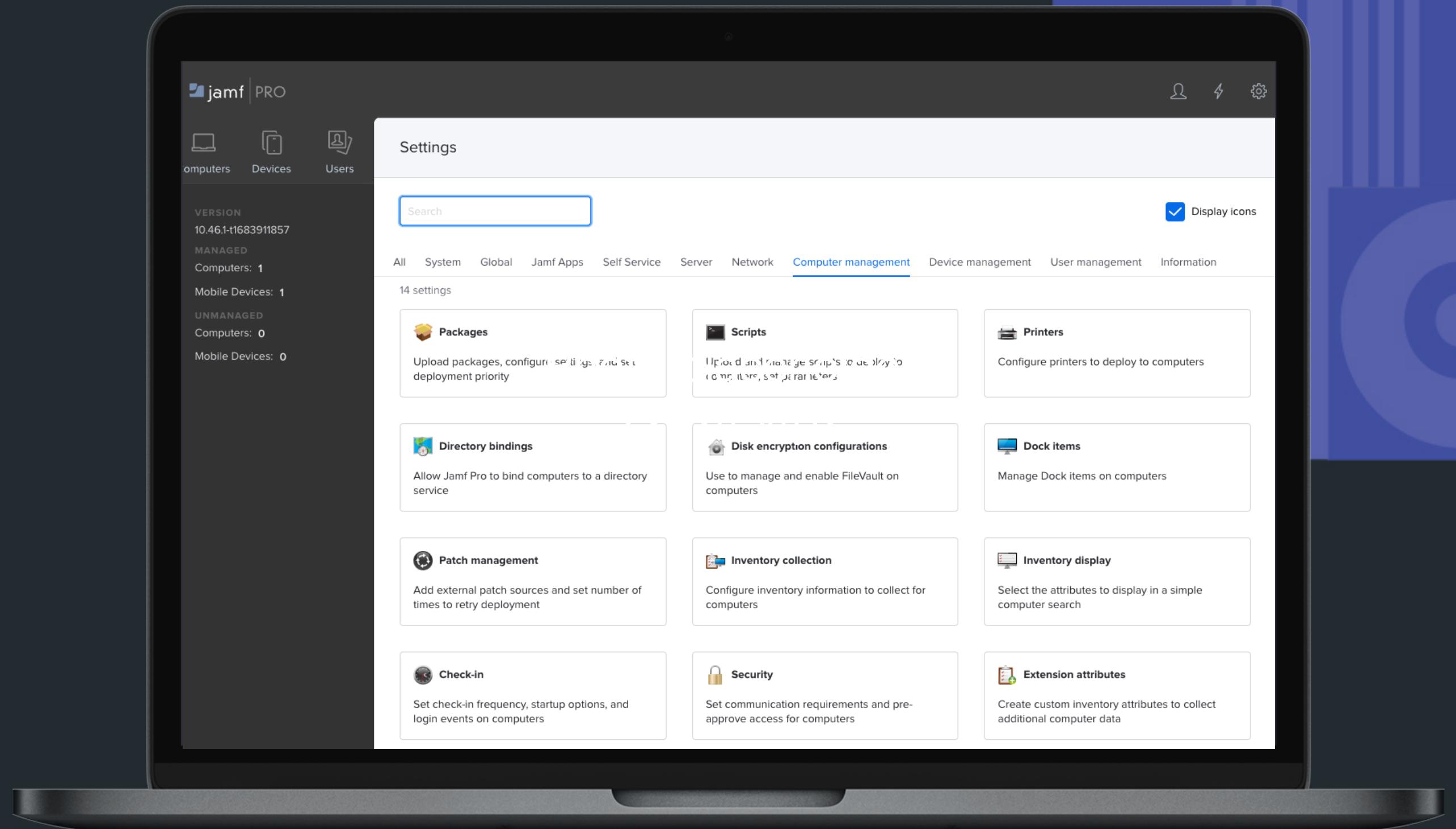


Lee Collik

Jamf



**“In a world of standardized device management,
Extension Attributes offer
the creativity needed to
address complex
organizational challenges.”**



Why Are They Useful?

- Extend the inventory data
 - Gather data you want/need

**“Extending our data
inside of Jamf Pro
has helped me to stay
on top of our expanding
fleet of devices“**

Jill - Sr. Client Engineer



The Enrollment Period

- User Account Details
- App Registration Info
- Date Deployed

Extension Attributes

Country of Usage (Cloud Identity): AT

Date Deployed: 2022-01-17

Jamf Connect Users: 0

Jamf Protect - Binary Version: 4.2.0.3

Jamf Protect - Last Check-in: 2023-07-29 19:06:57

Jamf Protect - Plan ID: 1

macOS Compatibility: Sonoma*

SecureToken Users: cibuild



← Date Deployed

Display Name Display name for the extension attribute

Date Deployed

Enabled (script input type only)

Description Description for the extension attribute

Data Type Type of data being collected

Date (YYYY-MM-DD hh:mm:ss) ▾

Inventory Display Category in which to display the extension attribute in Jamf Pro

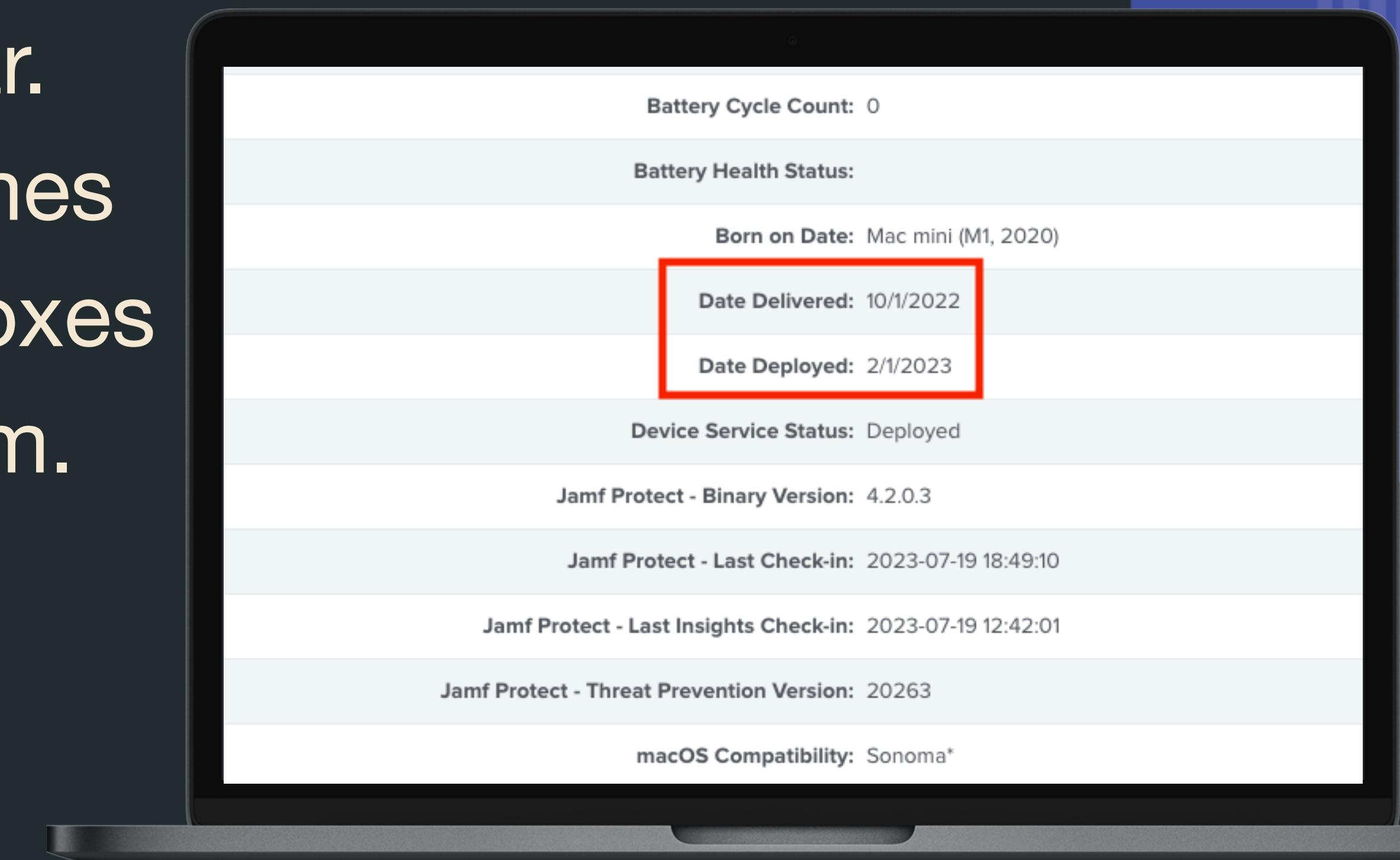
Extension Attributes ▾

Input Type Input type to use to populate the extension attribute

Text Field ▾



“We would get shipments of devices throughout the year. These devices would sometimes sit on the shelves sealed in boxes until there was a need for them. By tracking delivery and deployment dates, we can ensure we aren't wasting our AppleCare warranty time“



← 2023 Deployments

[Search](#)[Criteria](#)[Display](#)[Reports](#)

AND/OR	CRITERIA	OPERATOR	VALUE	
<input type="button" value="▼"/>	Date Deployed	<input type="button" value="before (yyyy-mm"/> ▾	<input type="text" value="2024-01-01"/>	
<input type="button" value="and ▾"/>	<input type="button" value="▼"/>	Date Deployed	<input type="button" value="after (yyyy-mm-d"/> ▾	<input type="text" value="2022-12-31"/>



12 Computers in "2023 Deployments"

Filter Re + New

1 - 12 of 12

NAME	SERIAL NUMBER	OPERATING SYSTEM VERS...	MODEL	DATE DEPLOYED
Jake's Rockstar Computer		11.0.1	13-inch MacBook Pro (Early 2015)	2023-07-10
Jake's Mac mini	A02X111HV3X	10.15.1	Mac mini (2018)	2023-06-05
Jamf's Virtual Machine	ZMX6WVDR LH	12.3.0	VirtualMac2,1	2023-06-26
jamfVM	Z927P9RMWN	12.5.1	VirtualMac2,1	2023-05-15
Jeremy's Mac mini	A02X111HV2X	10.15.1	Mac mini (Late 2014)	2023-05-15
MacBook Pro	C02ZT11VLVDL	10.15.1	MacBook Pro (13-inch, 2018)	2023-04-24
MinneMini's Mac mini	H2WDV8K6Q6NV	12.1.0	Mac mini (M1, 2020)	2023-04-24
SpaceGreyBook	C02ZK6GXLVDL	12.1.0	MacBook Pro (13-inch, 2018)	2023-03-27



← Look for Unmigrated Connect Users

Display Name Display name for the extension attribute

Look for Unmigrated Connect Users

Enabled (script input type only)

Description Description for the extension attribute

Data Type Type of data being collected

String

Inventory Display Category in which to display the extension attribute in Jamf Pro

Extension Attributes

Input Type Input type to use to populate the extension attribute

Script

Default Mode

Default Theme

-T T+

Commands

```
44
45 for user in $(dscl . list /Users Password | awk '$2 != "*" {print $1}');do
46 if [[ "$user" != "$jamfManagementAccount" ] && ("$user" != "mbsetupuser") ]]; then
47 # Look in the dscl record for the user and see if there is an entry for OIDCProvider
48 # Jamf Connect will add that to the user record when it is migrated or created
49 MIGRATESTATUS=$(dscl . -read /Users/$user | grep "OIDCProvider: " | awk {'print $2'})
50 # If we didn't get a result, the variable is empty. Thus that user hasn't been migrated.
51 if [[ -z $MIGRATESTATUS ]]; then
52     # Add the user to the list of unmigrated users
53     listOfUnmigratedUsers+=$(echo "$user ")
54 fi
55 fi
56 done
57
58 # If the listOfUnmigratedUsers is empty, then everyone is a Jamf Connect user or has been migrated.
59 if [[ -z $listOfUnmigratedUsers ]]; then
60     echo "<result>No Unmigrated Users</result>"
61 # Else, return a list of short names of unmigrated users.
62 else
63     echo "<result>$listOfUnmigratedUsers</result>"
```



Extension Attributes

Battery Capacity Status: No battery

Battery Cycle Count: 0

Battery Health Status:

Born on Date: Mac mini (M1, 2020)

Connect Users: 2

Date Delivered: 1/1/2018

Date Deployed: 4/1/2018

Last Connect Menu Bar Login: Within limit

Look for Unmigrated Connect Users: unmigrated1 unmigrated2 unmigrated3

macOS Compatibility: Sonoma*

Jamf Protect - Binary Version: 4.2.0.3

Jamf Protect - Last Check-in: 2023-07-30 17:38:45

Jamf Protect - Last Insights Check-in: 2023-07-30 16:40:23

Jamf Protect - Threat Prevention Version: 20278

Last Connect Menu Bar Login: Within limit

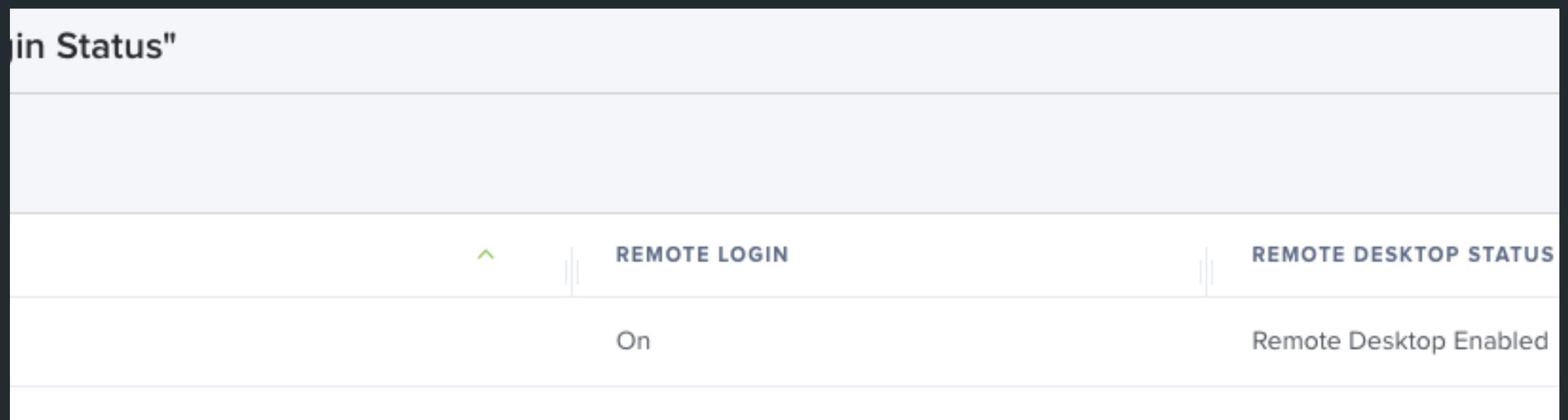
Look for Unmigrated Connect Users: unmigrated1 unmigrated2 unmigrated3

macOS Compatibility: Sonoma*

Retirement Date:

The Mid Life Crisis

- macOS Compatibility
- Service Status
- Battery Health
- Security Status



[← macOS Compatibility](#)**Display Name** Display name for the extension attribute

macOS Compatibility

 Enabled (script input type only)**Description** Description for the extension attribute**Data Type** Type of data being collected

String

Inventory Display Category in which to display the extension attribute in Jamf Pro

Extension Attributes

Input Type Input type to use to populate the extension attribute

Script

Default Mode

Default Theme

```
375 # Get the Model Type
376 mac_model=$( /usr/sbin/sysctl -n hw.model )
377
378 # Check for compatibility
379 model_result=$( model_check "${mac_model}" )
380
381 case "${model_result}" in
382     "Sonoma*")
383         version_string="14"
384     ;;
385     "Ventura*")
386         version_string="13"
387     ;;
388     "Monterey" )
389         version_string="12"
390     ;;
391     "Big Sur" )
392         version_string="11"
393     ;;
394     "Catalina" )
```



← 2024 Refresh

[Search](#)[Criteria](#)[Display](#)[Reports](#)

AND/OR	CRITERIA	OPERATOR	VALUE
<input type="button" value="▼"/>	macOS Compatability	<input type="button" value="does not match reg"/>	<input type="text" value="^[SV]*"/>
<input type="button" value="or"/> <input type="button" value="▼"/>	Date Delivered	<input type="button" value="more than x days ago"/>	<input type="text" value="730"/>



← Device Service Status

Display Name Display name for the extension attribute

Device Service Status

Enabled (script input type only)

Description Description for the extension attribute

Data Type Type of data being collected

String ▾

Inventory Display Category in which to display the extension attribute in Jamf Pro

Extension Attributes ▾

Input Type Input type to use to populate the extension attribute

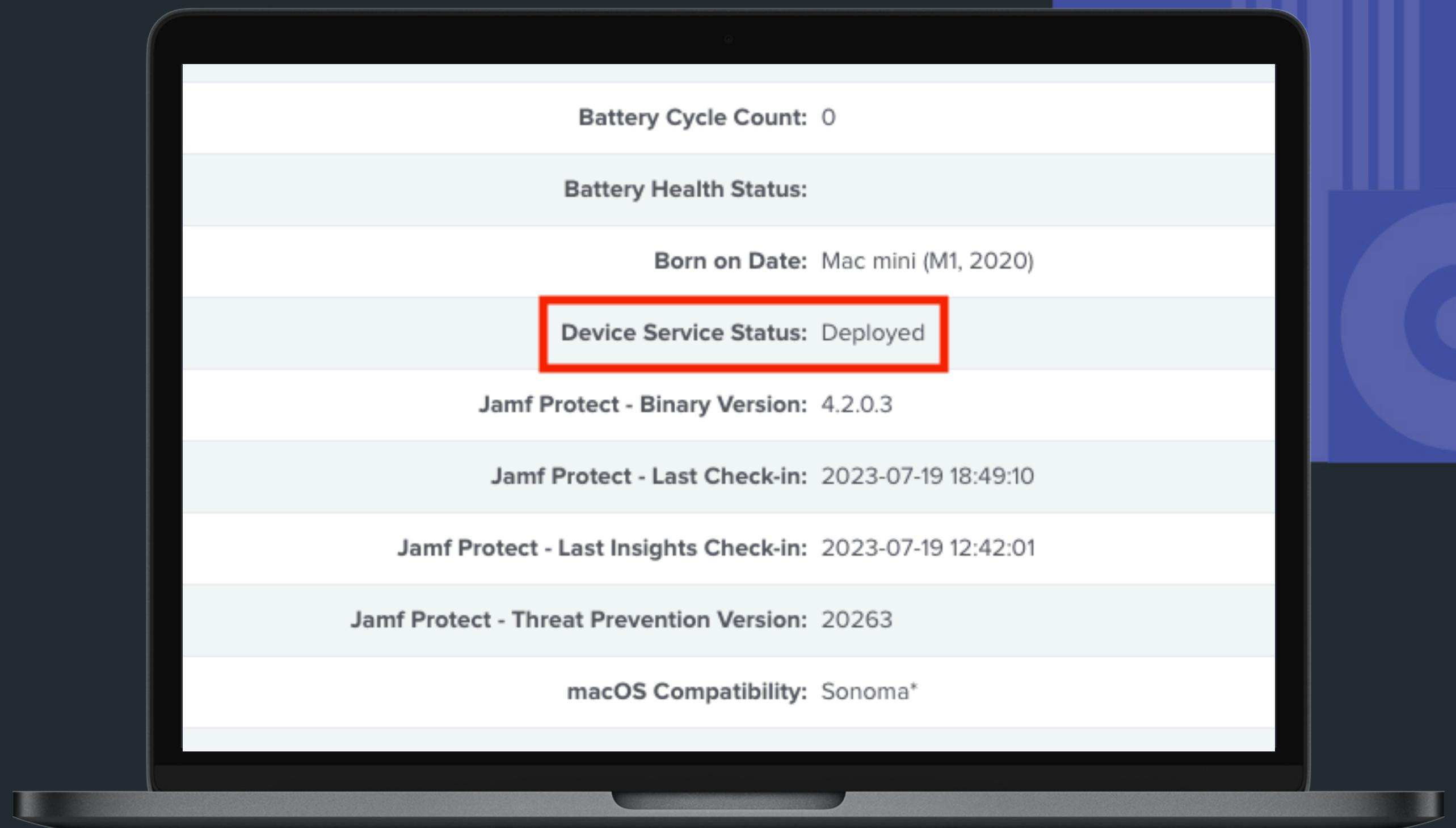
Pop-up Menu ▾

POP-UP MENU CHOICES

Deployed	Edit	Delete
New in Box	Edit	Delete
On Shelf	Edit	Delete
Out for Service	Edit	Delete
Repaired and Awaiting Deployment	Edit	Delete
Retired	Edit	Delete

(x) Cancel + Add
Save

This helps Jill keep track
of devices that are out
for repair or sitting on the
shelf ready for use



Late Stages of Life

- Retirement Date
- Selling Price



← Retirement Date

Display Name Display name for the extension attribute

Retirement Date

Enabled (script input type only)

Description Description for the extension attribute

Date of Retirement

Data Type Type of data being collected

Date (YYYY-MM-DD hh:mm:ss) ▾

Inventory Display Category in which to display the extension attribute in Jamf Pro

Extension Attributes ▾

Input Type Input type to use to populate the extension attribute

Text Field ▾

Extension Attributes

Battery Capacity Status: No battery

Battery Cycle Count: 0

Battery Health Status:

Born on Date: Mac mini (M1, 2020)

Connect Users: 2

Date Delivered: 1/1/2018

Date Deployed: 4/1/2018

macOS Compatibility: Sonoma*

Retirement Date: 7/4/2023

Jamf Protect - Binary Version: 4.2.0.3

Jamf Protect - Last Check-in: 2023-07-30 17:38:45

Jamf Protect - Last Insights Check-in: 2023-07-30 16:40:23

Jamf Protect - Threat Prevention Version: 20278

Last Connect Menu Bar Login: Within limit

Look for Unmigrated Connect Users: unmigrated1 unmigrated2 unmigrated3

macOS Compatibility: Sonoma*

Retirement Date: 7/4/2023



Settings : Computer management > Extension attributes

← Selling Price

Display Name Display name for the extension attribute

Selling Price

Enabled (script input type only)

Description Description for the extension attribute

Data Type Type of data being collected

Integer ▾

Inventory Display Category in which to display the extension attribute in Jamf Pro

Purchasing ▾

Input Type Input type to use to populate the extension attribute

Text Field ▾



Additional Ideas

- Keep track of SecureToken users
- Store Directory Attributes
- Store Compliance Info





@stevewood_tx



@stevewood_tx



steve2504



lee-collik-58795797

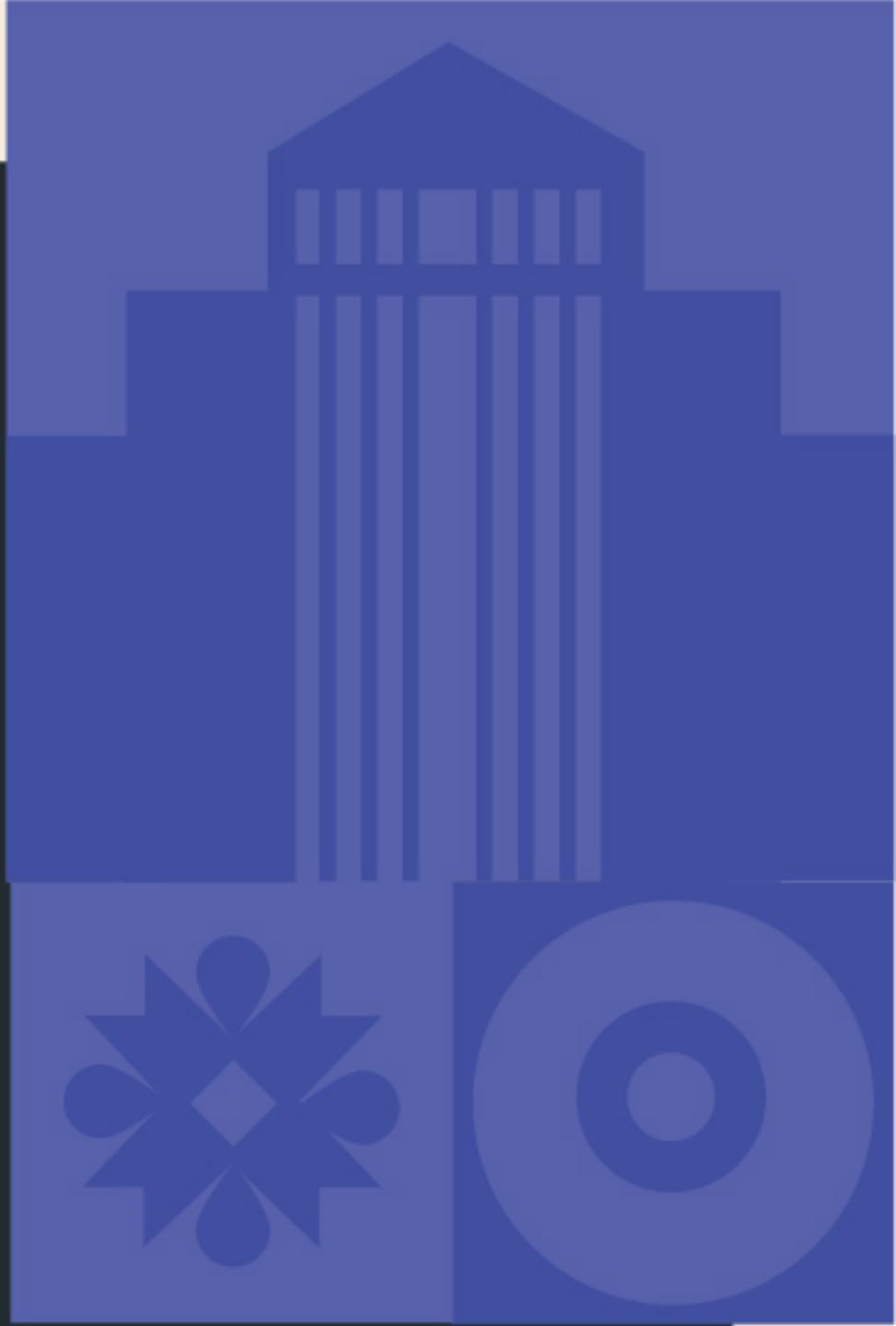


Presentation Resources

Braindate: Wednesday at 4 pm



Q & A



Thank you for
listening!

