

● JAMF NATION LIVE

Stop Asking, Start Declaring

The DDM Only Life



Scott Mackay

SR SALES ENGINEER



Anthony Darlow

SR CONSULTING
ENGINEER

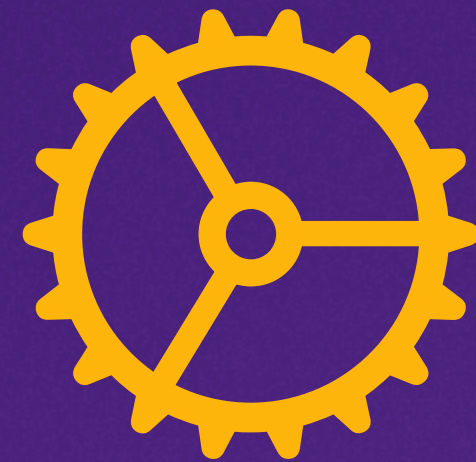
● JAMF NATION LIVE

Session Takeaways



What DDM Truly Is

Exposing the full toolkit



How DDM Works

Whats going on under the hood



Real Life Applications

In a DDM only world what could we achieve today



How Well Do You Know

Declarative Device Management

Declaration Types



Configurations



Activations



Management



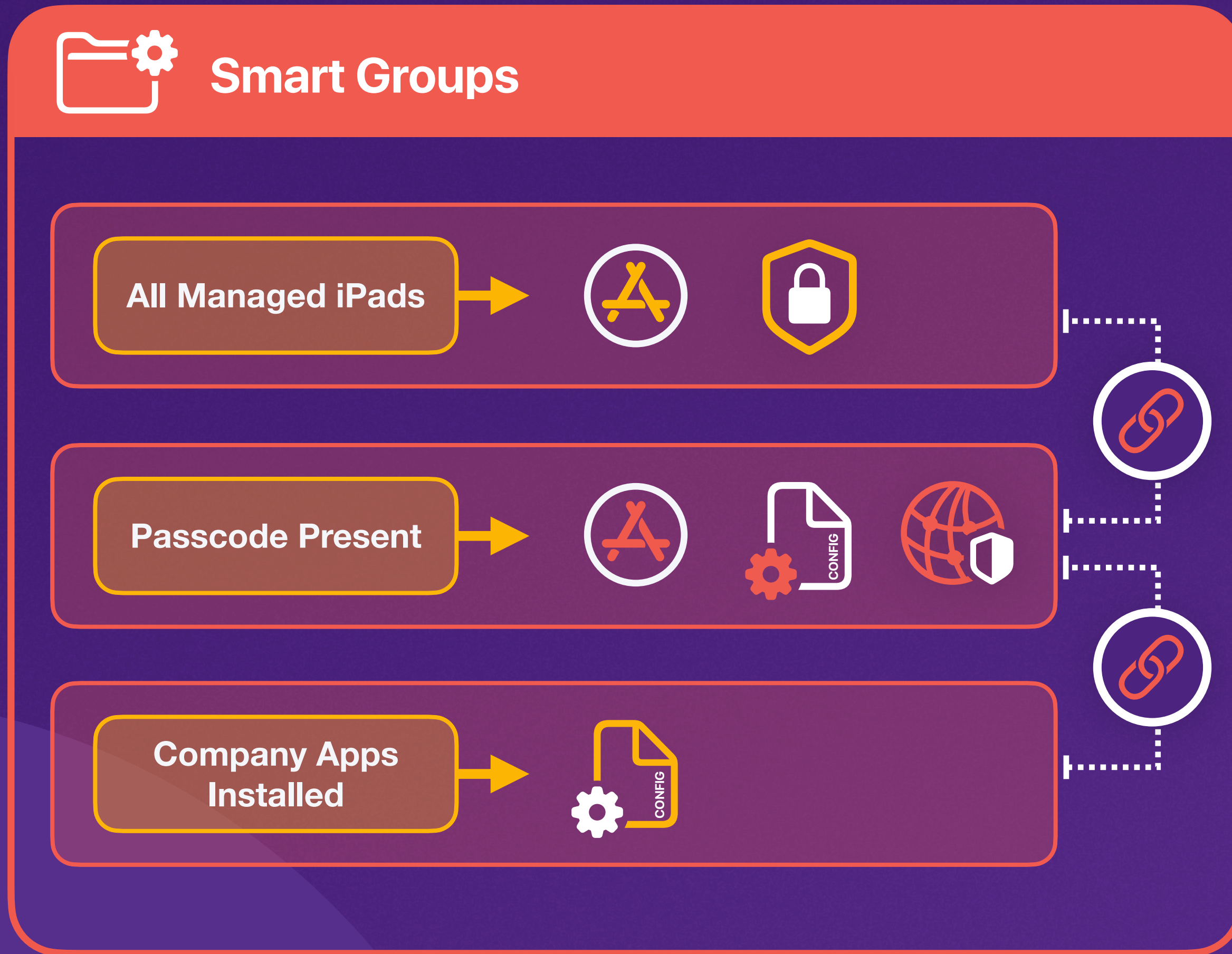
Assets

An employee picks up their new iPhone on their first day, eager to get started. But until they set a passcode, the apps they need won't install and there's no clear indication of when their device will actually be ready to use.



All Possible Today

With MDM

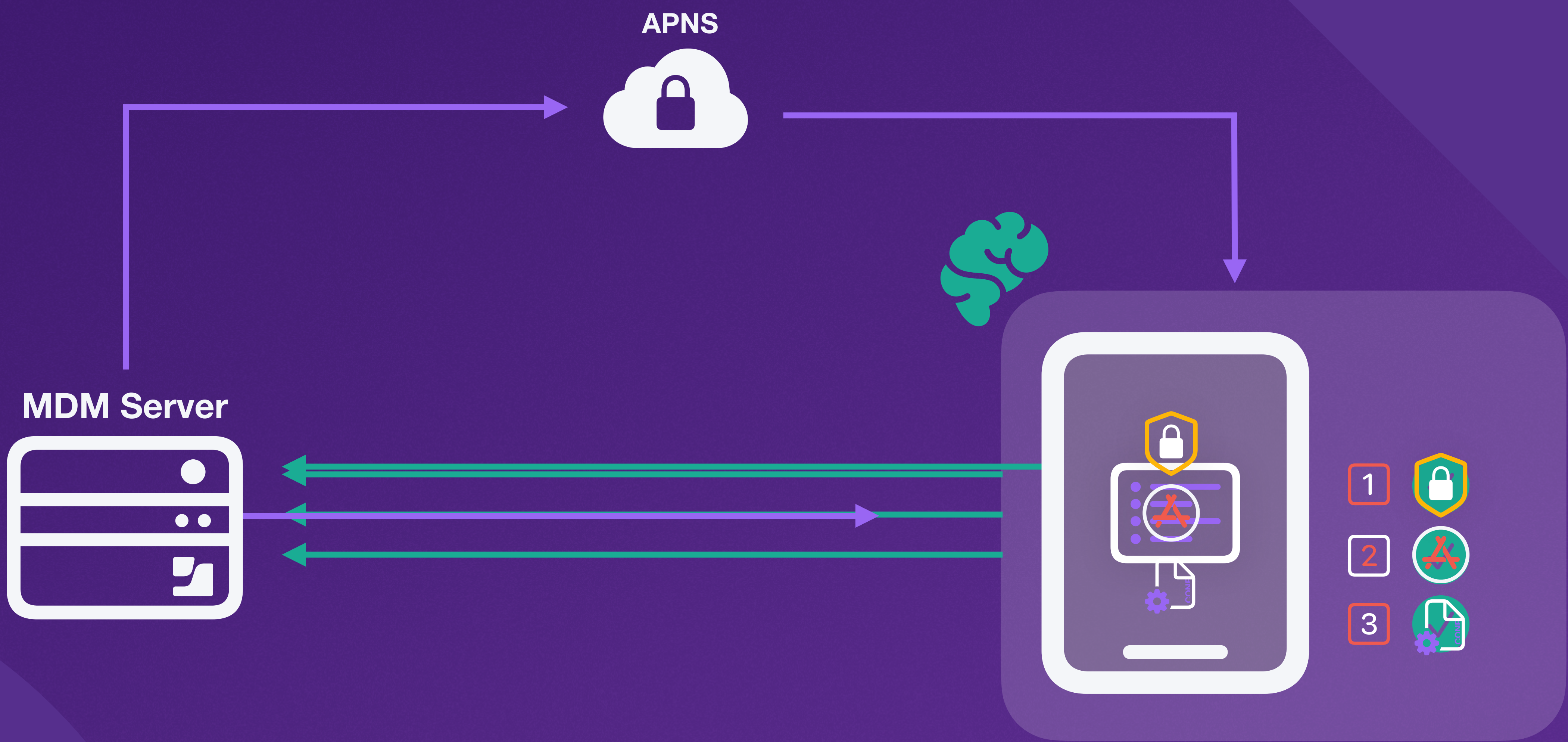




A Better Way

Declarative Device Management

Declarative Device Management



An employee picks up their new iPhone on their first day, eager to get started. But until they set a passcode, the apps they need won't install and there's no clear indication of when their device will actually be ready to use.



whatsnew.jamfcloud.com

Full Jamf Pro

Mobile devices : Configuration profiles

← Security - Passcode copy

Options Scope Self Service

Search...

Mail Not configured

Network Relay Not configured

Network Usage Rules Not configured

Notifications Not configured

Passcode Settings configured: 4

Restrictions Not configured

SCEP Not configured

Skip Setup Items Not configured

Passcode Settings configured: 4

Exclude all

Setting

Require Passcode
Enforce setting passcode on the device. Include

Complex Passcode
Passcode cannot contain repeating, ascending, and descending character sequences.
 Include

Alphanumeric Value
Passcode must contain at least one letter and one number.
 Include

Minimum Passcode Length
Smallest number of passcode characters allowed
10 Include

Minimum Number of Complex Characters
Smallest number of non-alphanumeric characters allowed
 Include

Cancel Save

```
1 <dict>
2   <key>PayloadContent</key>
3   <array>
4     <dict>
5       <key>PayloadDisplayName</key>
```

```
<key>PayloadIdentifier</key>
```

```
<string>com.apple.mobiledevice.passwordpolicy.44E0F228-6228-4FC1-8BCE-B81CA6589D68</string>
```

```
10   <string>JAMF Software</string>
```

```
<key>allowSimple</key>
```

```
<false/>
```

```
<key>forcePIN</key>
```

```
<true/>
```

```
<key>maxInactivity</key>
```

```
<integer>1</integer>
```

```
<key>minLength</key>
```

```
<integer>10</integer>
```

```
26   </array>
```

```
27 </dict>
```

```
28
```



```
1 <dict>
2   <key>PayloadContent</key>
3   <array>
4     <dict>
5       <key>PayloadDisplayName</key>
6       <string>Passcode Payload</string>
7       <key>PayloadIdentifier</key>
8       <string>com.apple.mobiledevice.passwordpolicy.44E0F228-6228-4FC1-8BCE-B81CA6589D68</string>
9       <key>PayloadOrganization</key>
10      <string>JAMF Software</string>
11      <key>PayloadType</key>
12      <string>com.apple.mobiledevice.passwordpolicy</string>
13      <key>PayloadUUID</key>
14      <string>44E0F228-6228-4FC1-8BCE-B81CA6589D68</string>
15      <key>PayloadVersion</key>
16      <integer>1</integer>
17      <key>allowSimple</key>
18      <false/>
19      <key>forcePIN</key>
20      <true/>
21      <key>maxInactivity</key>
22      <integer>1</integer>
23      <key>minLength</key>
24      <integer>10</integer>
25    </dict>
26  </array>
27 </dict>
28
```

But...DDM Only



Configurations



Activations



Management



Assets

whatsnew.jamfcloud.com

Pro

Dashboard
Computers
Devices
Users
Blueprints
Compliance
Settings

Resource center

Blueprints / Security Passcode

Security Passcode

Describe what this blueprint is used for.

Status
Incomplete
Define scope and add components

Components library All

passcode

Passcode Policy
com.apple.configur...
Configuration

Passcode Policy

com.apple.configuration.passcode.settings
Apply passcode policy

iOS 15.0+ iPadOS 15.0+ macOS 13.0+ visionOS 2.0+ watchOS 10.0+ [More details](#)

Search

Require passcode on device
RequirePasscode
Enforce setting passcode on the device.
Yes **No**
Setting required
To implement any passcode settings, require a passcode on device.

Require complex passcode
RequireComplexPasscode
Passcode cannot contain repeating, ascending, and descending character sequences.
Yes **No**

Require alphanumeric passcode
RequireAlphanumericPasscode
Passcode must contain at least one letter and one number.
iOS 16.2+ iPadOS 16.2+ macOS 13.1+ visionOS 2.0+

Cancel Add



```
2  "Type": "com.apple.configuration.passcode.settings",
3  "Identifier": "EB13EE2B-5D63-4EBA-810F-5B81D07F5017",
5  "Payload": {
6    "RequirePasscode": true,
7    "RequireComplexPasscode": true,
8    "MinimumLength": 10,
9    "MaximumInactivityInMinutes": 1
10 }
```



```
1 {
2   "Type": "com.apple.configuration.passcode.settings",
3   "Identifier": "EB13EE2B-5D63-4EBA-810F-5B81D07F5017",
4   "ServerToken": "E180CA9A-F089-4FA3-BBDF-94CC159C4AE8",
5   "Payload": {
6     "RequirePasscode": true,
7     "RequireComplexPasscode": true,
8     "MinimumLength": 10,
9     "MaximumInactivityInMinutes": 1
10  }
11 }
12
```



“So....”

DDM IS just like config Profiles”

Configurations

```
1 {
2     "Type": "com.apple.configuration.passcode",
3     "Identifier": "EB13EE2B-5D63-4EBA-81",
4     "ServerToken": "E180CA9A-F089-4FA3-E",
5     "Payload": {
6         "RequirePasscode": true,
7         "RequireComplexPasscode": true,
8         "MinimumLength": 10,
9         "MaximumInactivityInMinutes": 1
10    }
11 }
12
```

Declaration Types



Configurations



Activations



Management



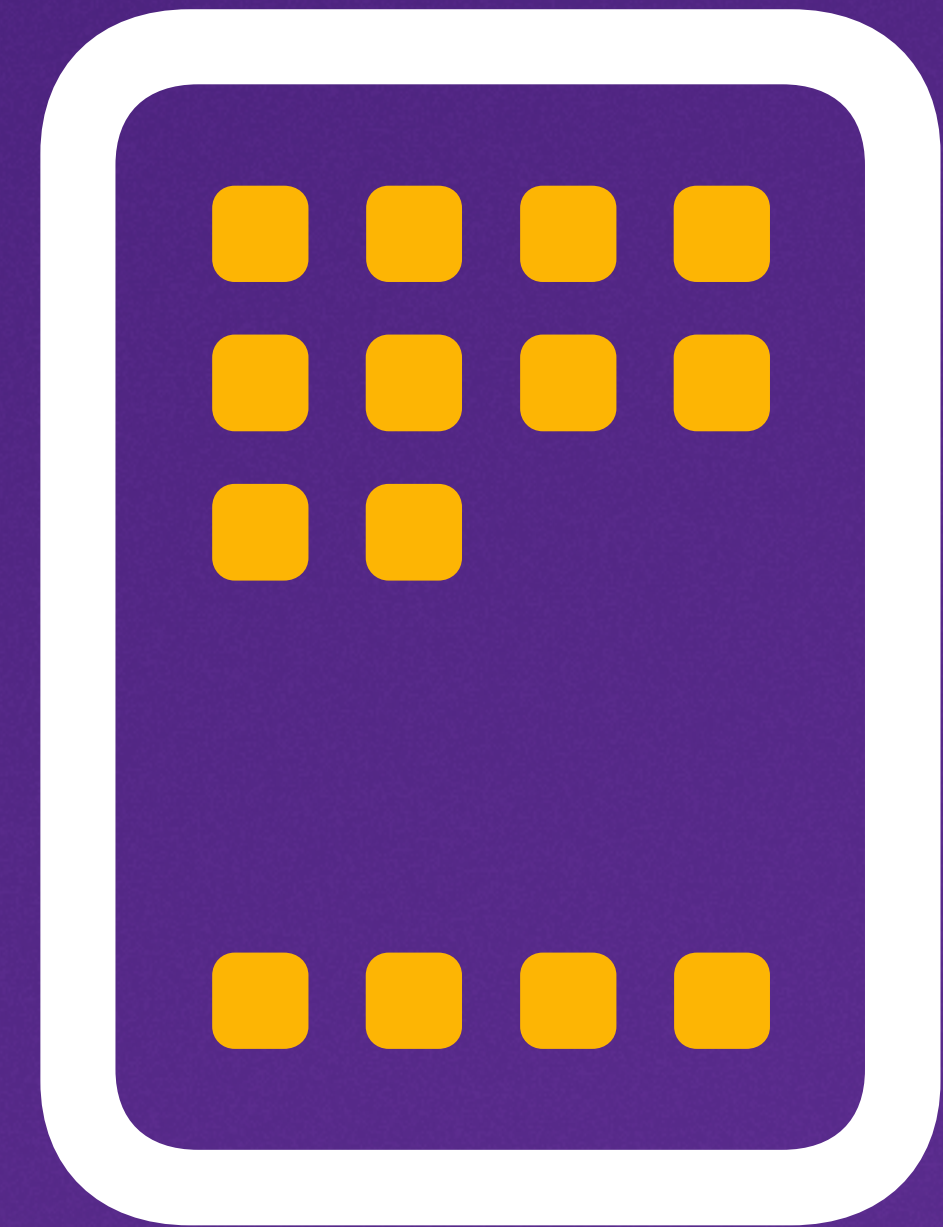
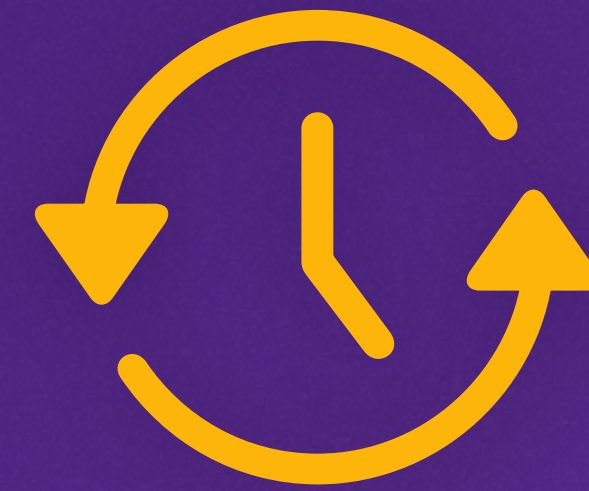
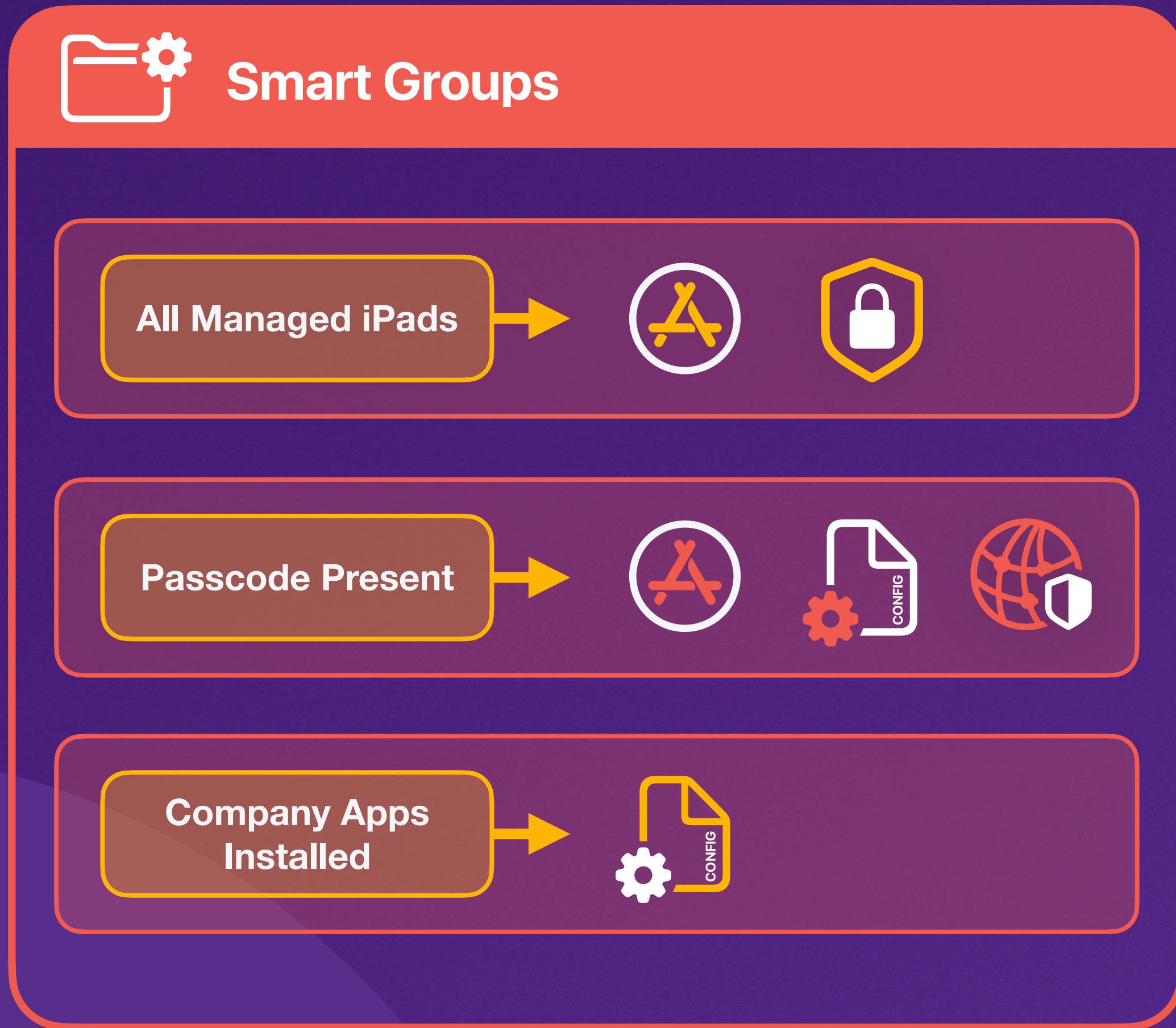
Assets

An employee picks up their new iPhone on their first day, eager to get started. But until they set a passcode, the apps they need won't install and there's no clear indication of when their device will actually be ready to use.



All Possible Today

With MDM



But...DDM Only



Configurations



Activations

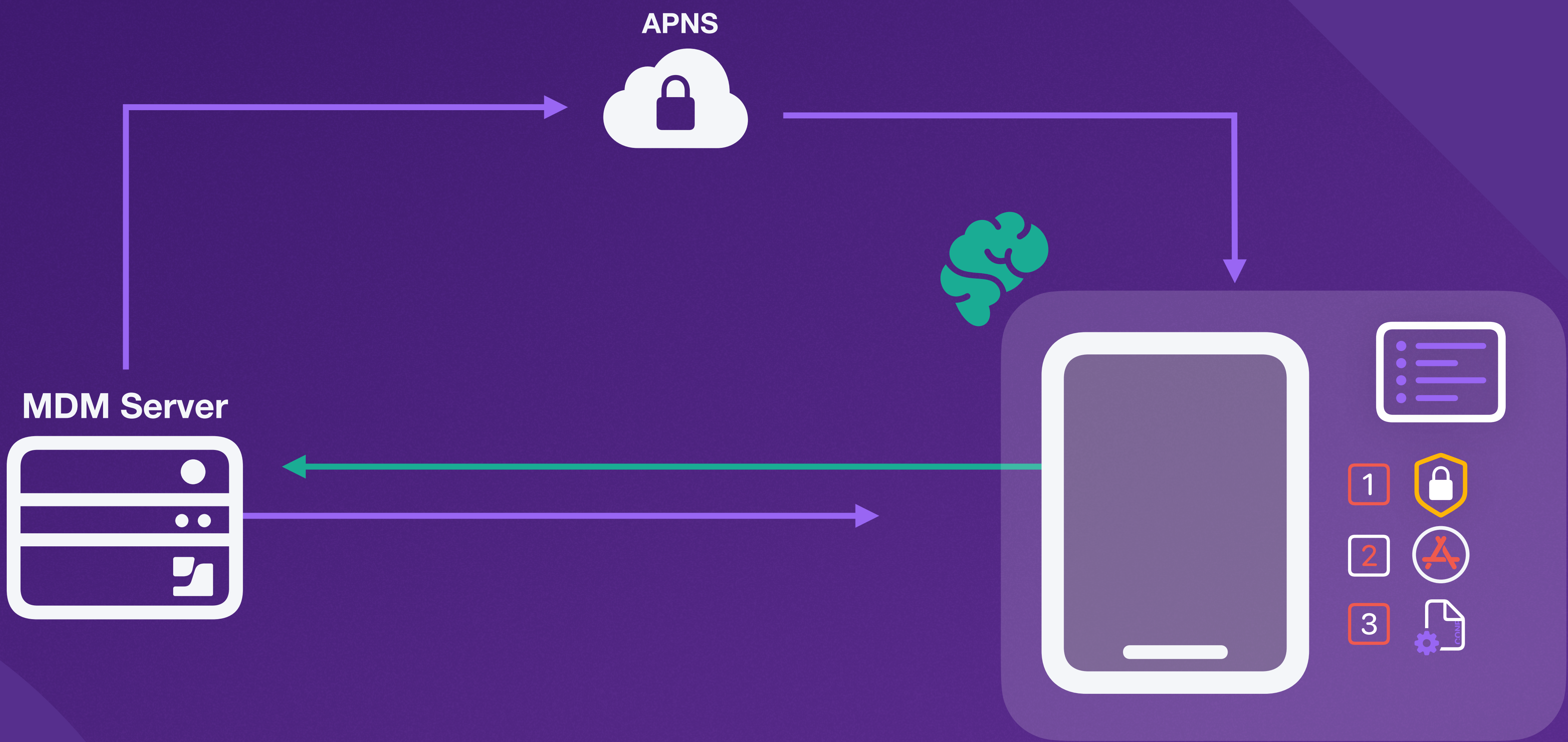


Management



Assets

Declarative Device Management

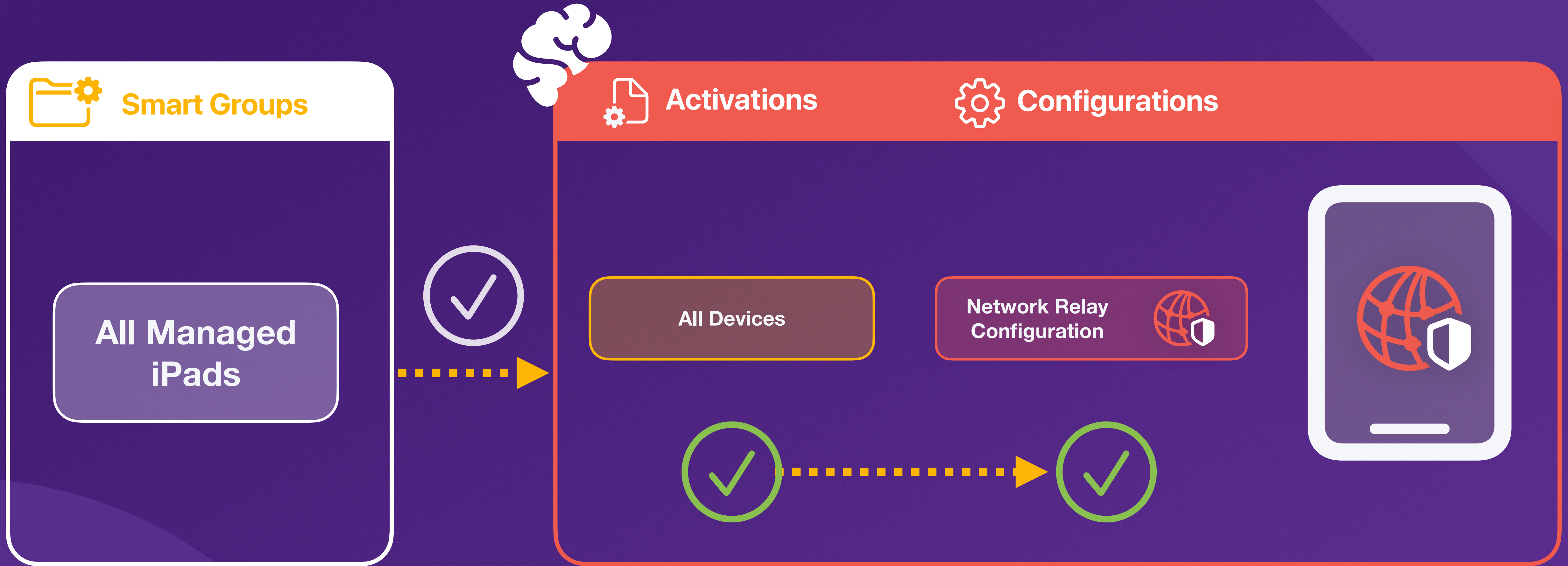


Declarative Device Management



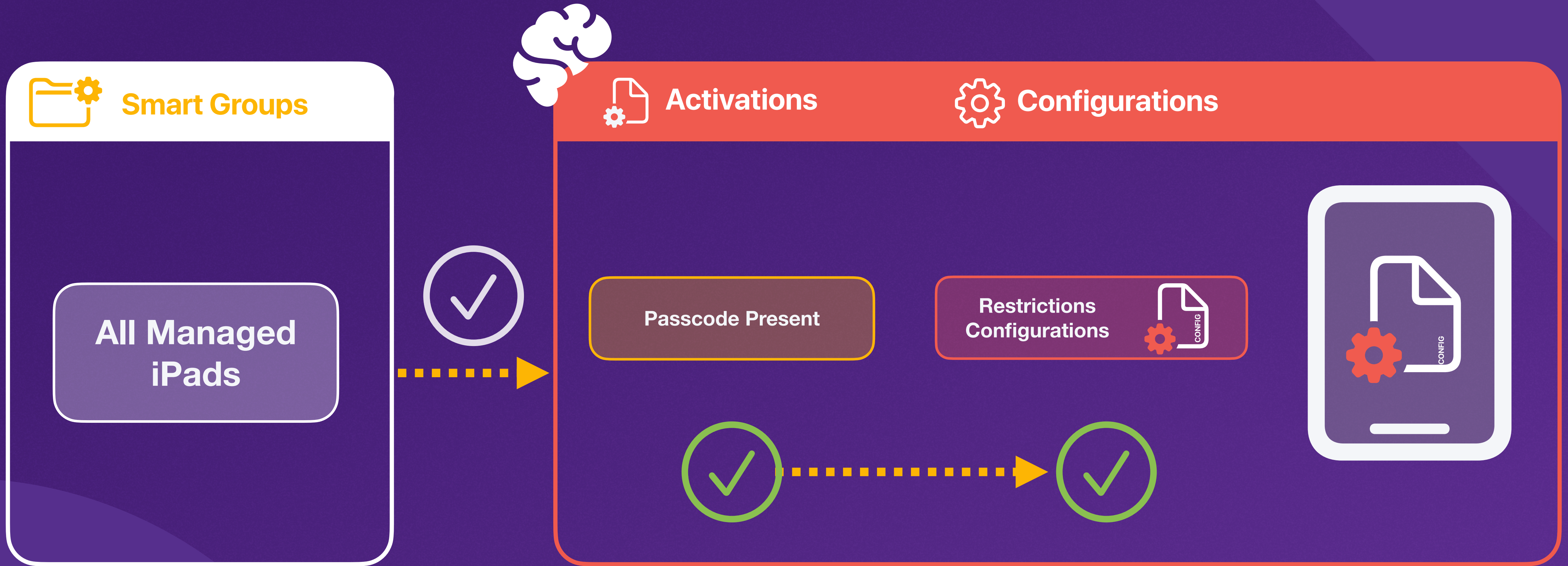
Activations

Bringing Conditional Logic to the Device



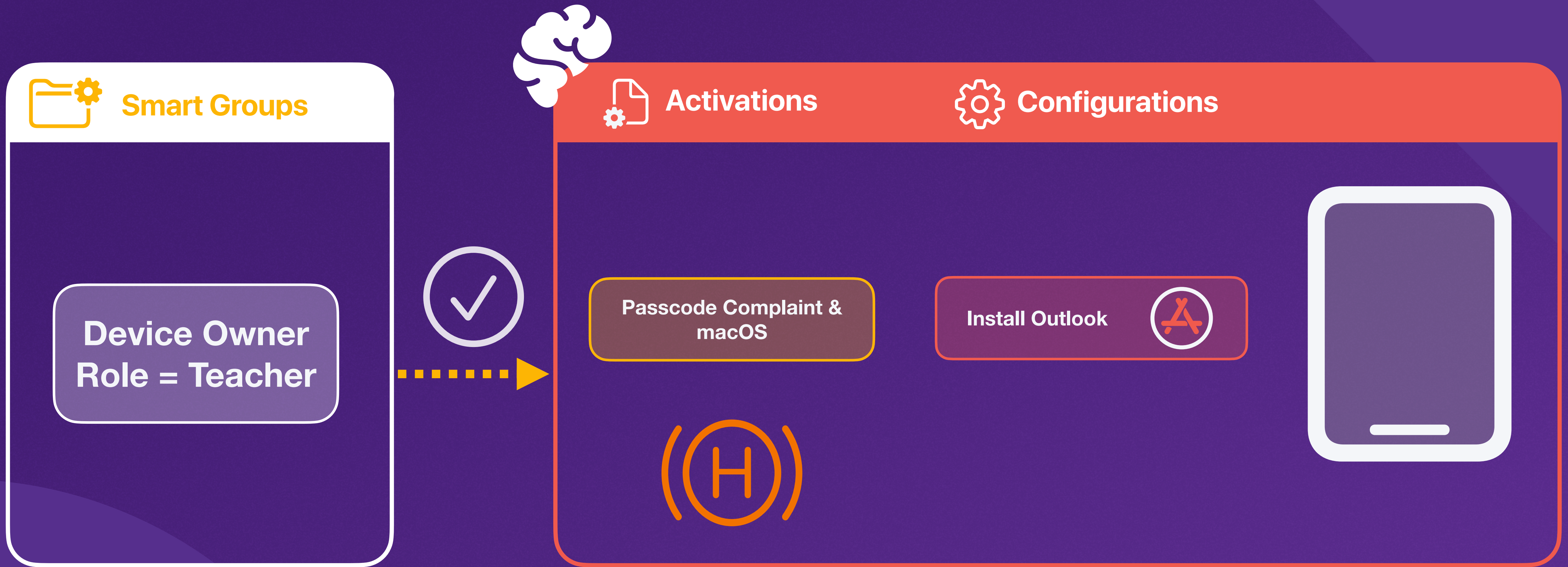
Activations

Bringing Conditional Logic to the Device



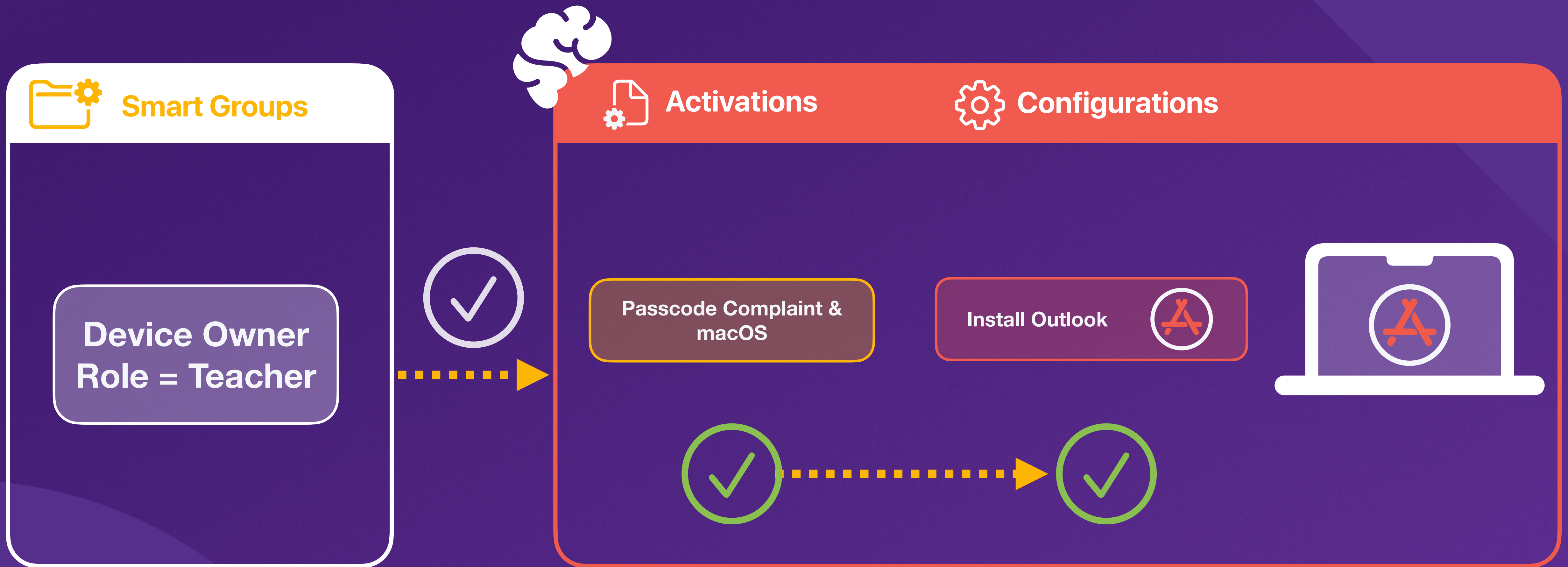
Activations

Bringing Conditional Logic to the Device



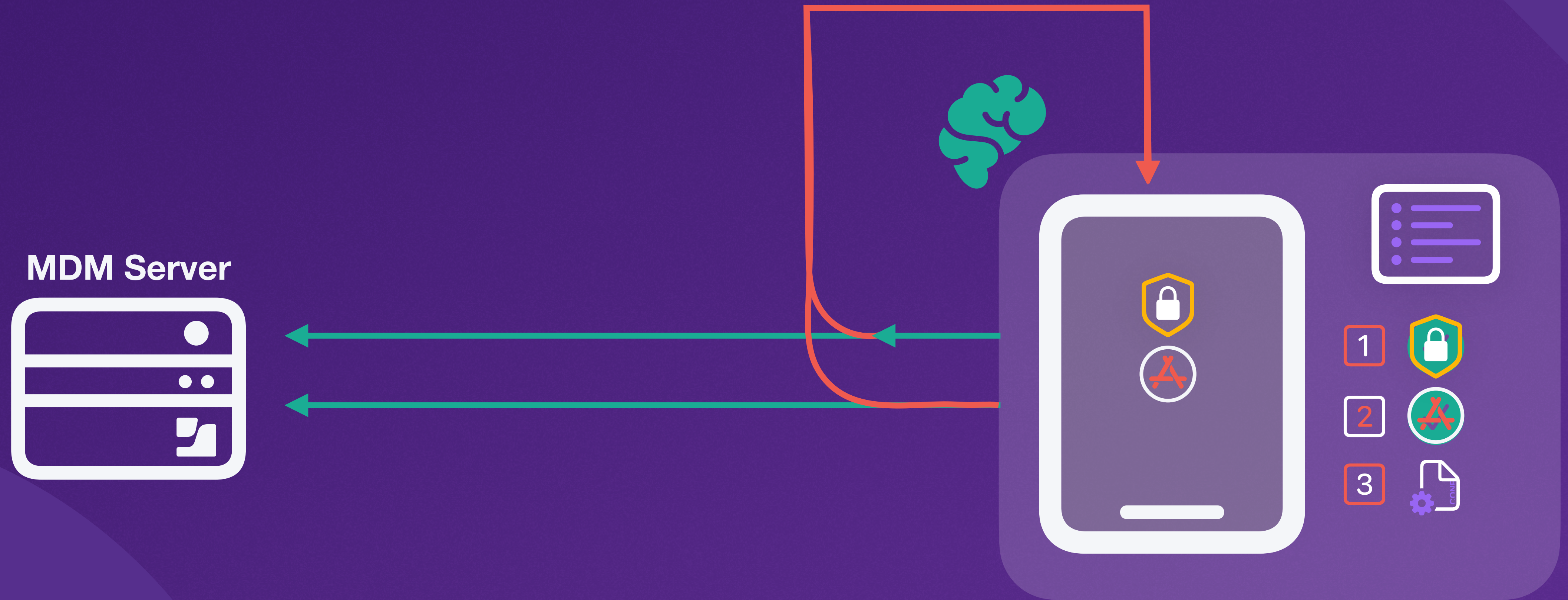
Activations

Bringing Conditional Logic to the Device



Device Status & Status Channel Device

Declarative Device Management



```
1 {
2   "Type": "com.apple.activation.simple",
3   "Identifier": "04BECEFA-47B9-4F2E-8040-246509A52409",
4   "ServerToken": "CBE396A0-637B-438D-9F0C-EA912A5BB587",
5   "Payload": {
6     "Predicate": "@status(device.model.family) == 'AppleTV'",
7     "StandardConfigurations": [
8       "892853C1-DDD1-4562-84B9-1591A76AD42B"
9     ]
10  }
11 }
```

6

```
"Predicate": "@status(device.model.family) == 'AppleTV'",
```

The screenshot shows a GitHub repository page for 'apple/device-management'. The commit history table is as follows:

Name	Last commit message	Last commit da...
..		
account.list.caldav.yaml	Release-v26.0	8 months ago
account.list.carddav.yaml	Release-v26.0	8 months ago
account.list.exchange.yaml	Release-v26.0	8 months ago
account.list.google.yaml	Release-v26.0	8 months ago
account.list.ldap.yaml	Release-v26.0	8 months ago
account.list.mail.incoming.yaml	Release-v26.0	8 months ago
account.list.mail.outgoing.yaml	Release-v26.0	8 months ago
account.list.subscribed-calendar.yaml	Release-v26.0	8 months ago
app.managed.list.yaml	Release-v26.0	8 months ago
device.identifier.serial-number.yaml	Release-v26.0	8 months ago
device.identifier.udid.yaml	Release-v26.0	8 months ago
device.model.family.yaml	Release-v26.0	8 months ago
device.model.identifier.yaml	Release-v26.0	8 months ago
device.model.marketing-name.yaml	Release-v26.0	8 months ago
device.model.number.yaml	Release-v26.0	8 months ago

GET

/v1/ddm/{clientId}/status-items Retrieve the Status Items from the latest Status Report for a device

```
1 {
2     "key": "device.model.family",
3     "value": "iPad",
4     "lastUpdateTime": "2026-05-31T19:18:35.829"
5 },
6 {
7     "key": "device.operating-system.build-version",
8     "value": "23B85",
9     "lastUpdateTime": "2026-05-31T19:18:35.83"
10 },
11 {
12     "key": "device.operating-system.family",
13     "value": "iPadOS",
14     "lastUpdateTime": "2026-05-31T19:18:35.83"
15 },
16 {
17     "key": "device.operating-system.supplemental.extra-version",
18     "value": "",
19     "lastUpdateTime": "2026-05-31T19:18:35.831"
20 },
21 {
22     "key": "device.operating-system.version",
23     "value": "26.1",
24     "lastUpdateTime": "2026-05-31T19:18:35.832"
```

Declaration Types



Configurations



Activations



Management



Assets



Declaration Management

Additional properties sent to the device from a Management Service which the device can use as additional Activation predicates

```
1 {
2   "Type": "com.apple.management.properties",
3   "Identifier": "187C9F47-297C-4811-80C4-2E19D3C11963",
4   "ServerToken": "526CE2FB-DB79-409A-825D-8C5DC5EE873E",
5   "groups": [
6     "teacher",
7     "grade 1",
8     "grade 2",
9     "it-admin"
10  ]
11 }
12 }
13 }
14 }
```



Key : ANY



Type : ANY

DDM

A Venn diagram consisting of three overlapping circles. The top circle is brown and labeled 'DDM'. The bottom-left circle is maroon and labeled 'DMS'. The bottom-right circle is light purple and labeled 'Other'. The circles overlap in the center, and each overlaps with the other two.

DMS

Other



Configurations



Activations

An employee picks up their new iPhone on their first day, eager to get started. But until they set a passcode, the apps they need won't install and there's no clear indication of when their device will actually be ready to use.

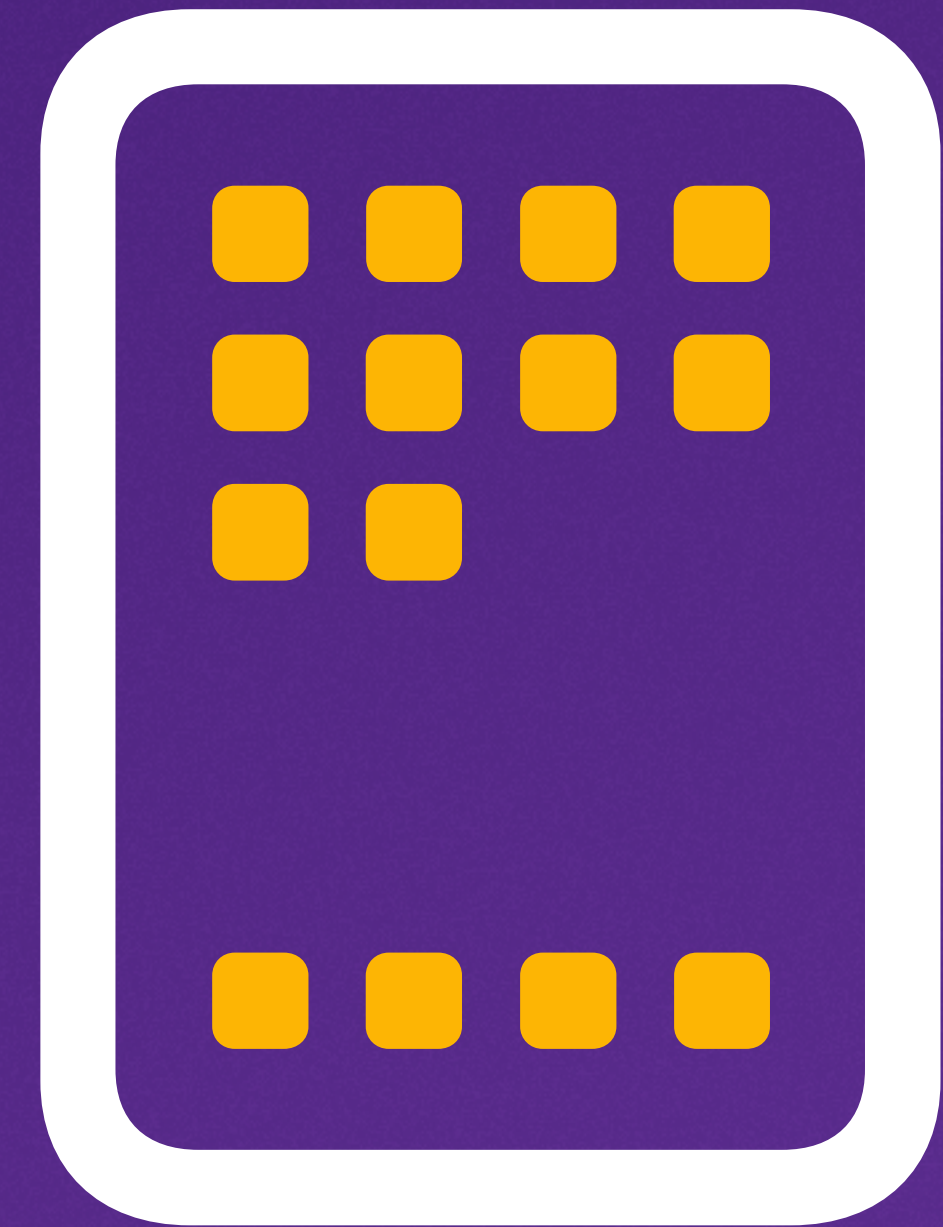
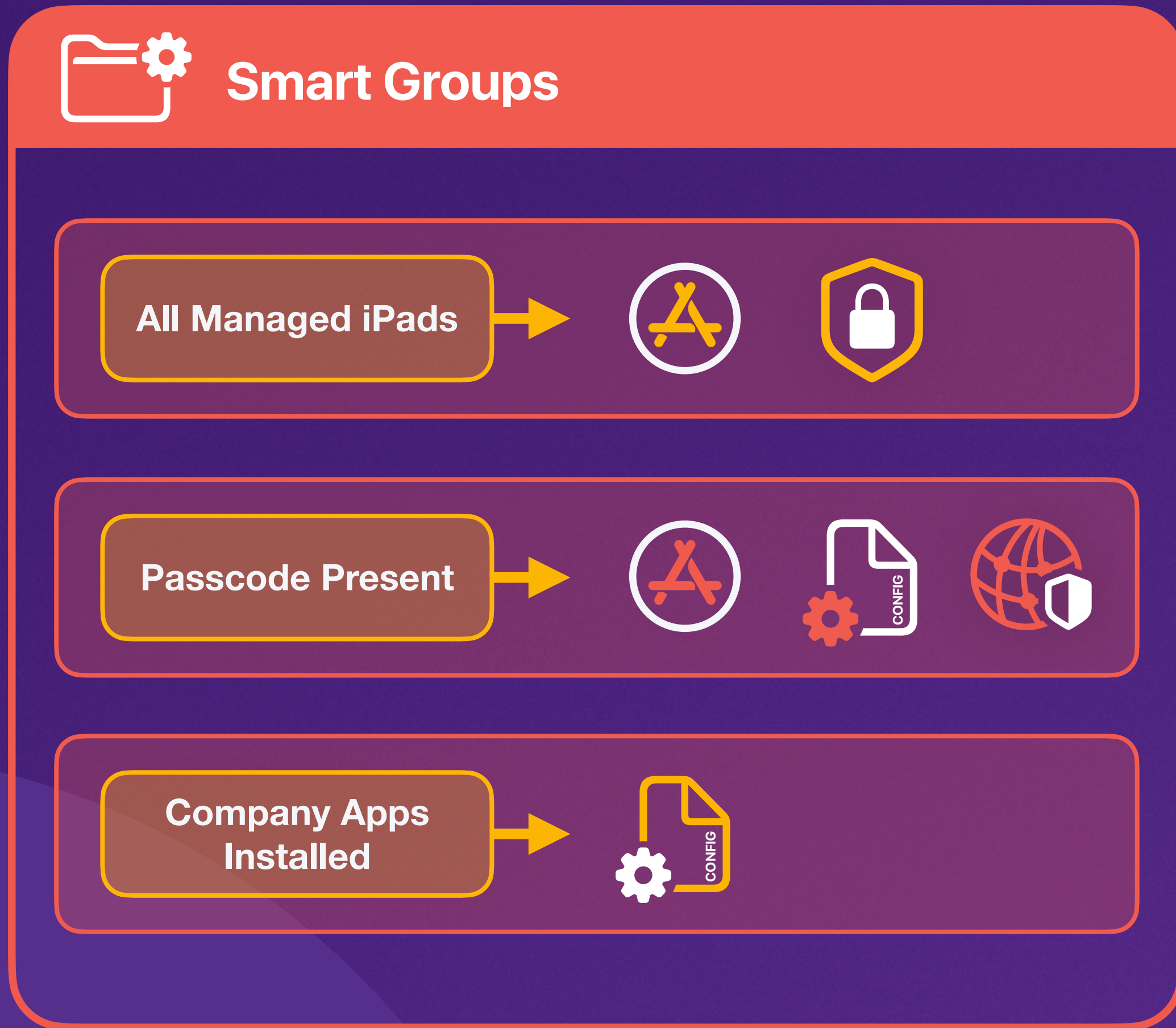
FINALLY Live Demo!



● JAMF NATION LIVE

All Possible Today

With MDM



But...DDM Only



Configurations



Activations



Management



Assets

● JAMF NATION LIVE

Recap So Far.....



Configurations ≠ DDM

There are more than one type of Declaration



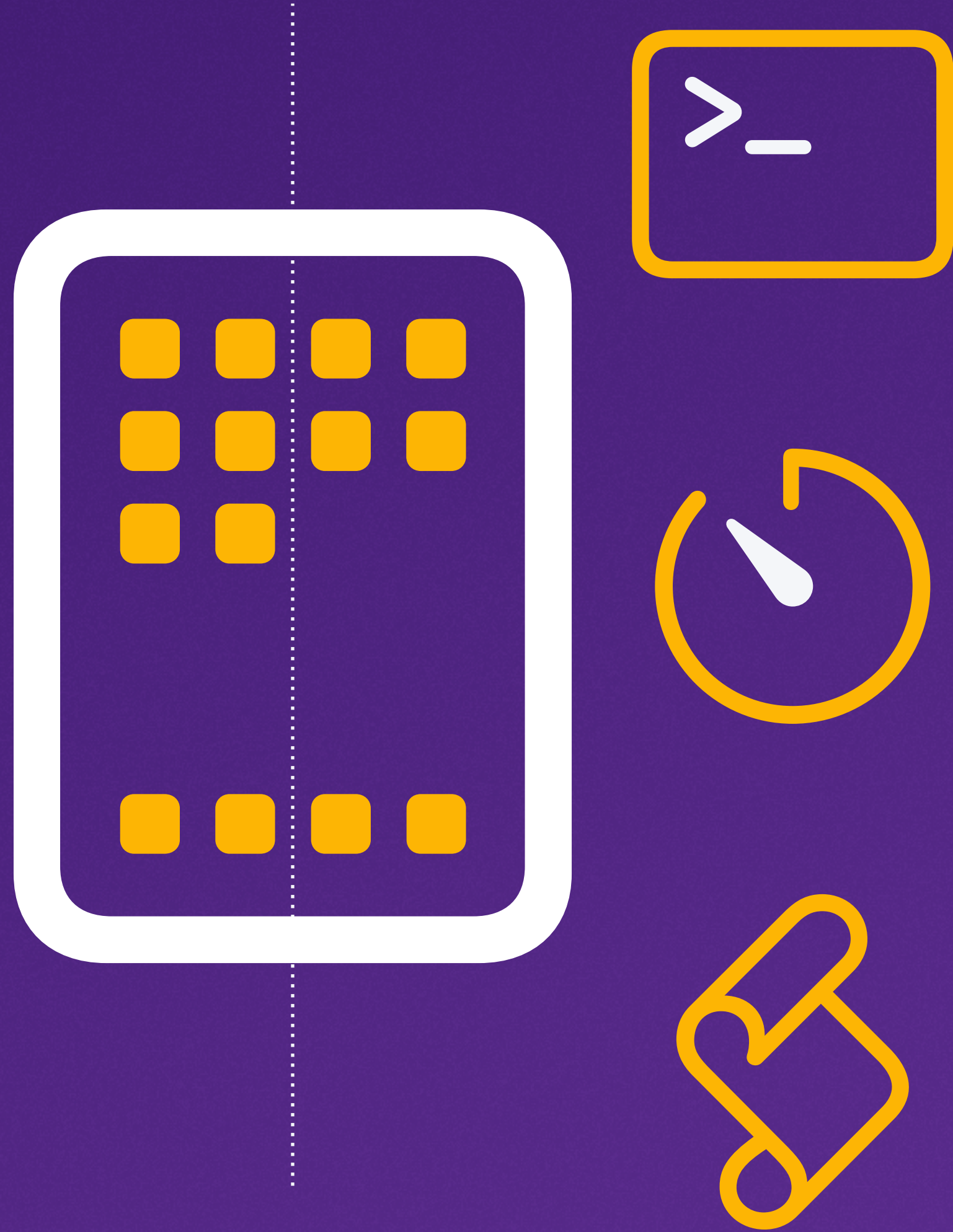
Bringing Logic to the Device

Predicates & Device Status provide conditional Activation

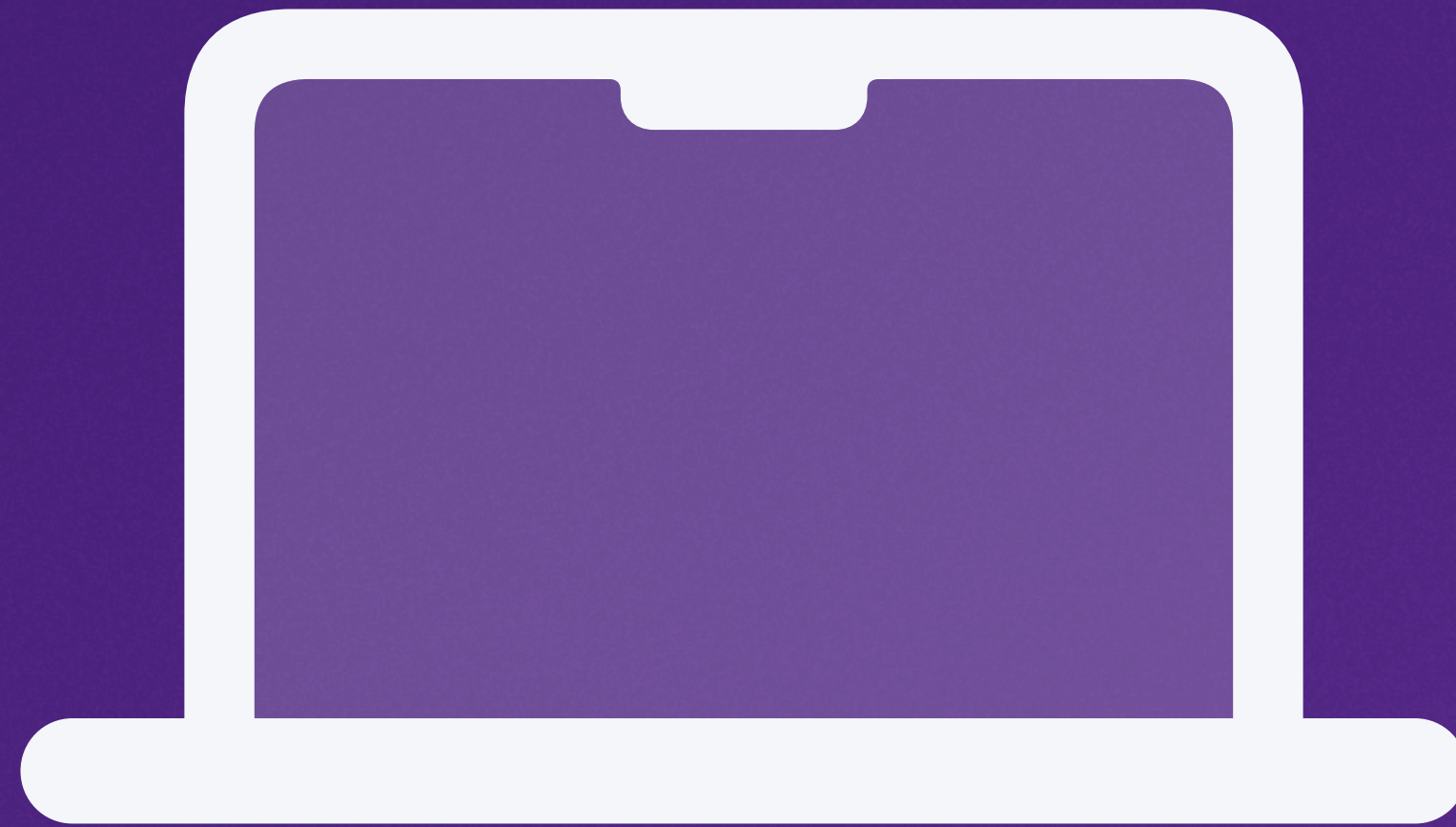
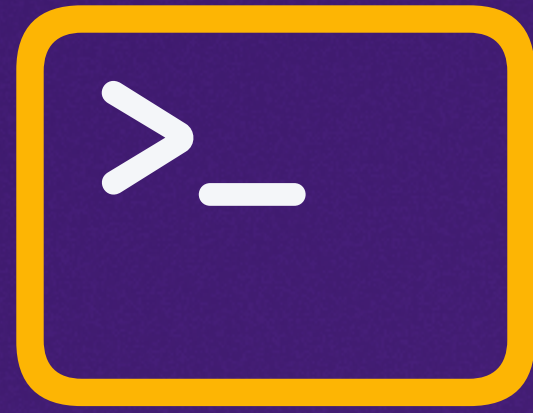


Applying In Real Time

Activations “turn on” Configurations



Back to the Mac... Why would you need DDM



An employee plugs a USB drive into their Mac, hoping to transfer some files. But their organisation needs to restrict what can be connected, not just block it silently and leave the employee confused. The challenge is enforcing USB controls while making sure the user understands why it happened and what to do next.





Configurations



Activations

An employee plugs a USB drive into their Mac, hoping to transfer some files. But their organisation needs to restrict what can be connected, not just block it silently and leave the employee confused. The challenge is enforcing USB controls while making sure the user understands why it happened and what to do next.



To: itsupport@mycompany.com ▾

Cc:

Subject: I NEED a new Mac!

From: Justin Krisko - TheFinalBoss@mycompany.com

Signature: None ▾

Hi IT,

I **need** a new Mac, this one isn't working. It used to but it doesn't now.

I think the USB ports are all broken. I used to be able to plug in my trusty USB drive, where all of my work is stored and it showed up. I plug it in now and nothing happens. I know it's not my USB drive since when I plug it into my personal computer it works just fine.

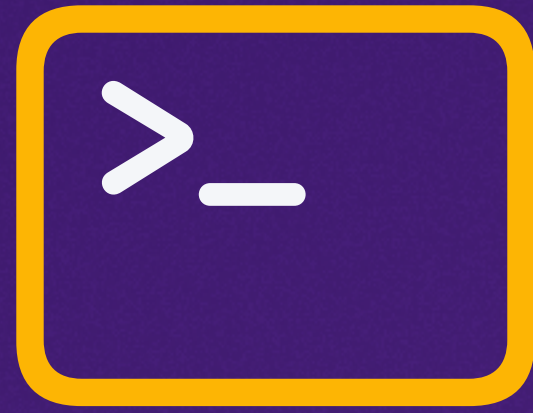
I need this to do my work, please order me a new Mac as soon as possible

Thanks,

Justin Krisko
Director

Sent from

All Possible Today



But...DDM Only



Configurations



Activations



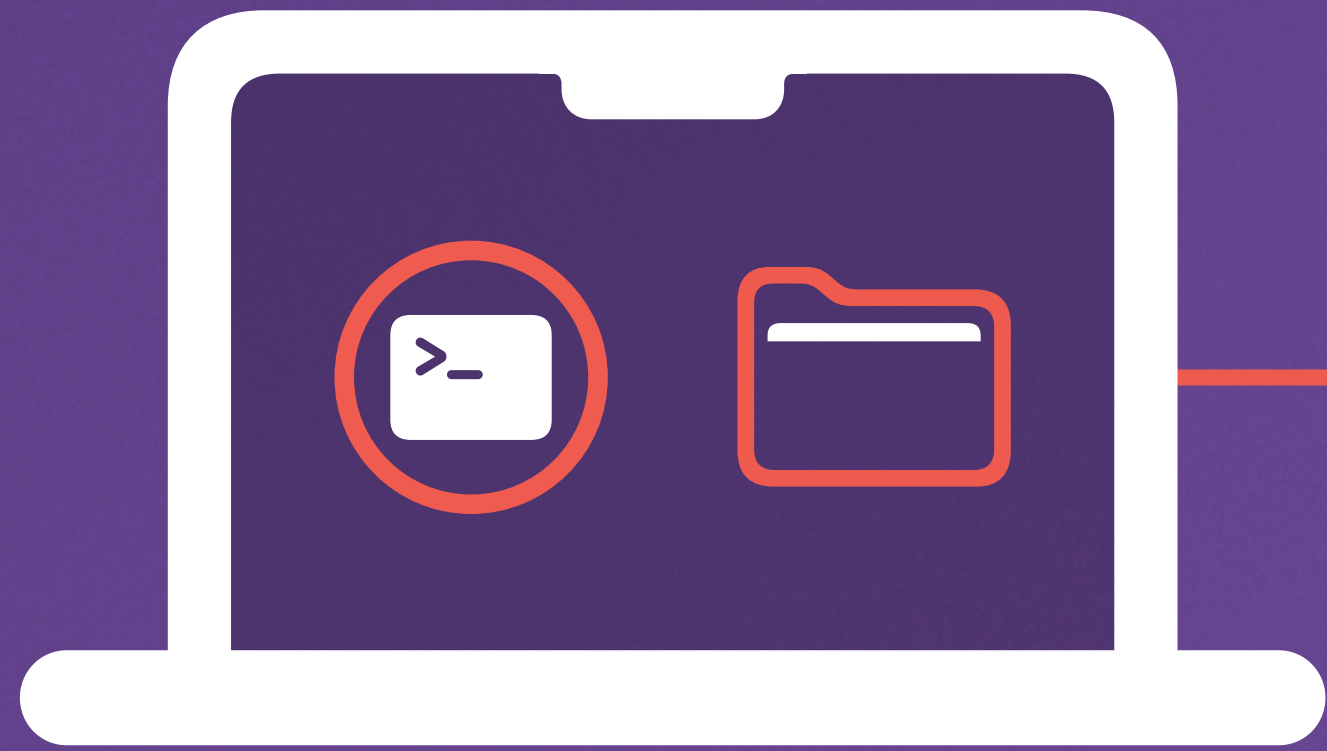
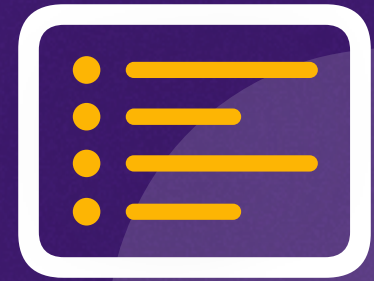
Management



Assets

Assets

Items needed by Configurations



Device is macOS AND
OS is 26+



Background
Services Task



Declaration Types



Configurations



Activations



Management



Assets

Declaration Types



Instructions

Instructions for the device in order to conform to a given state. Think Passcode, Safari Settings, OS Version



Conditions

A set of conditions that if evaluate to true “switches on” target configurations. Think smart groups but on device



Static State

Additional attributes or “state” sent by MDS that the device can evaluate Activations on. Think user details or device groups



Outsourced Items

Items needed by Configurations provided by an outside source. Think Certificates, Scripts or Files

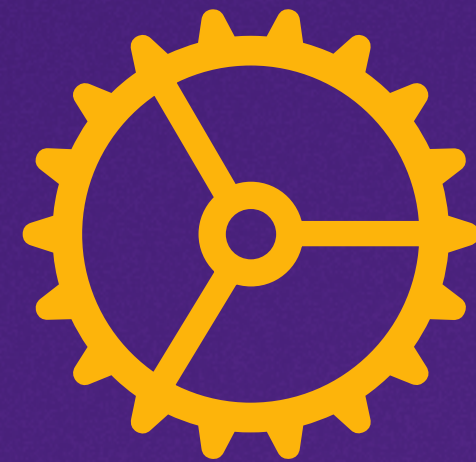
● JAMF NATION LIVE

Session Takeaways



What DDM Truly Is

Exposing the full toolkit



How DDM Works

Whats going on under the hood



Real Life Applications

In a DDM only world what could we achieve today

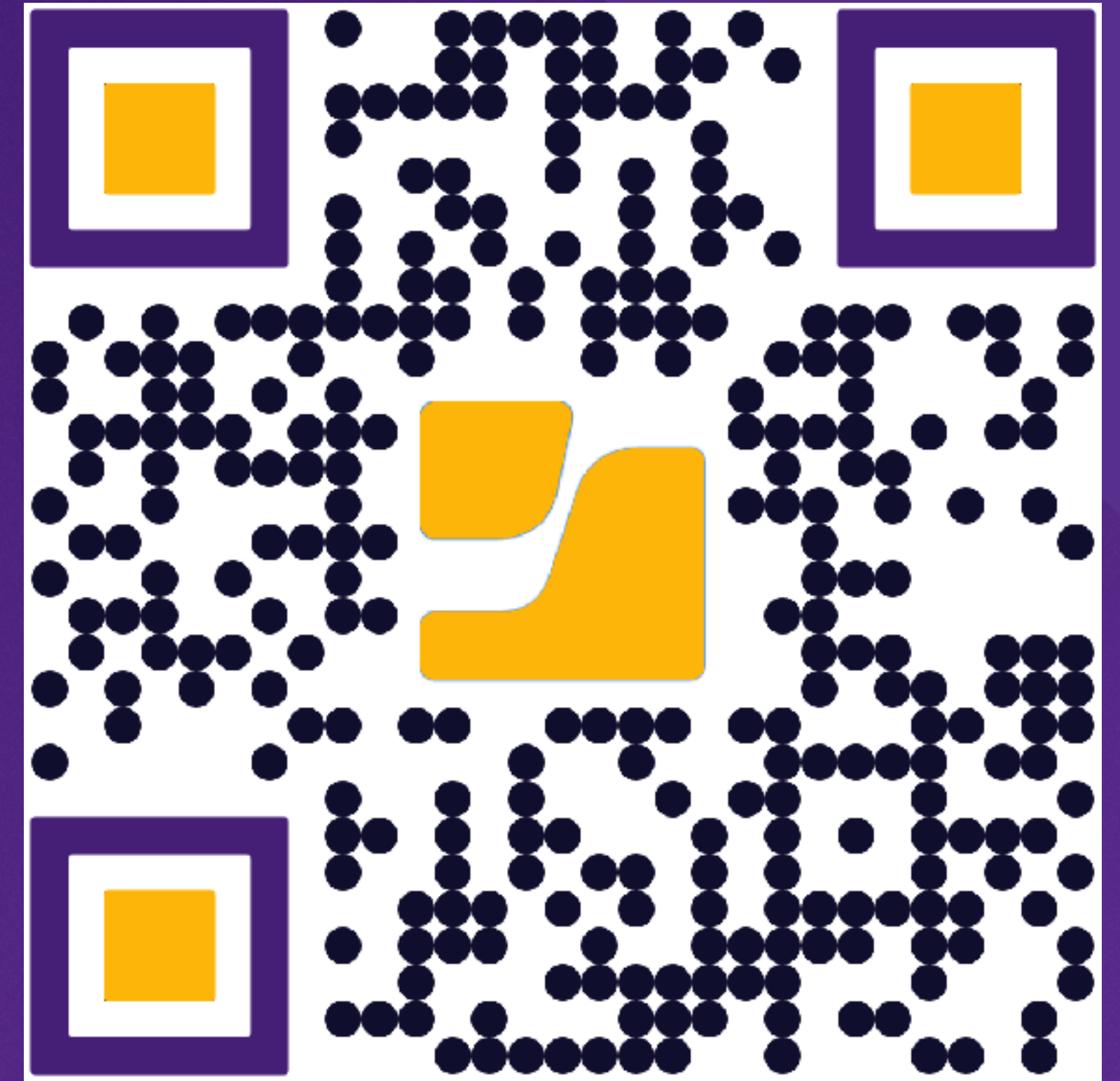
● JAMF NATION LIVE

Stop Asking, Start Declaring

The DDM Only Life



Any Questions?



Scott Mackay



Anthony Darlow

[Store](#)[Mac](#)[iPad](#)[iPhone](#)[Watch](#)[Vision](#)[AirPods](#)[TV & Home](#)[Entertainment](#)[Accessories](#)[Support](#)

Apple Platform Deployment

[Communities](#)[Table of Contents](#)

Use device management to deploy software updates to Apple devices

Declarative device management is the future of Apple device management. It allows a device to asynchronously apply settings and report status back to the device management service without constant polling. This is ideal for performance and scalability, and also provides an advanced approach to managing software updates. Declarative device management offers proactive status reporting from devices as values and configurations change. In this way, a device management service always has an up-to-date view on devices without having to perform regular queries.

Instead of sending a software update command to a device to initiate an update, a device management service declares the desired operating system version state and delegates the task to achieving that state to the device itself. This allows for a more resilient managed software update process and increased user transparency.

Leverage software update declarations

Device management services need to leverage software update declarations whenever possible. However, the legacy software update commands and profiles are still available and supported. They can work alongside software update declarations with the following changes:

- Deferrals defined by a declaration take precedence over deferrals configured by a restriction.
- Automatic software update settings on macOS applied by a declaration take precedence over automatic

Declarative Device Management is the

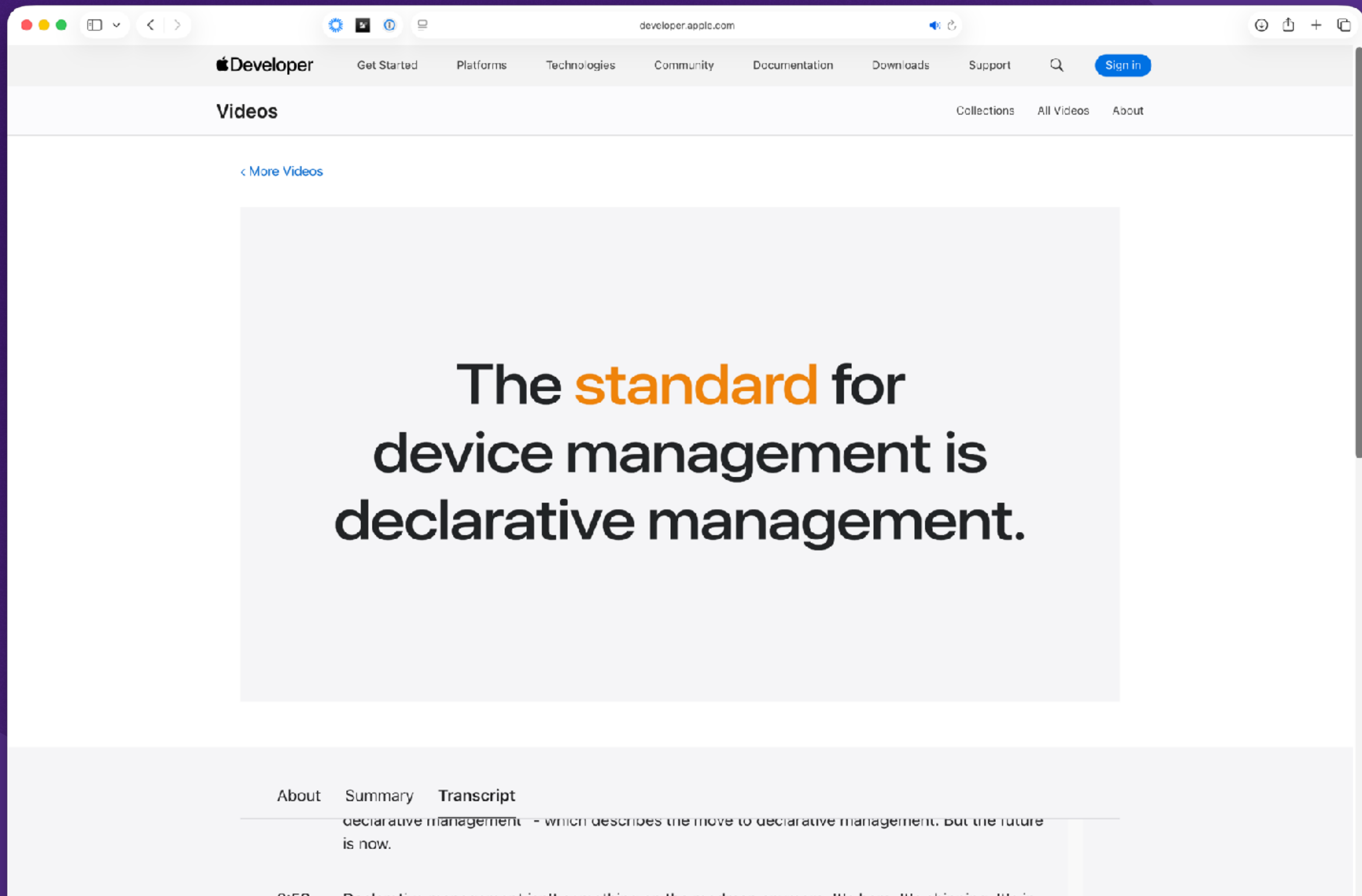
FUTURE

of managing Apple Devices

The **Jamf Platform** is the

FUTURE

of Apple management



The screenshot shows the Apple Developer website's 'Videos' section. The main content is a video player with a large text overlay that reads: "The **standard** for device management is declarative management." Below the video player, there are navigation tabs for "About", "Summary", and "Transcript". The "Transcript" tab is selected, and the beginning of the transcript is visible, starting with "declarative management - which describes the move to declarative management, but the future is now."

The **Jamf Platform** is the

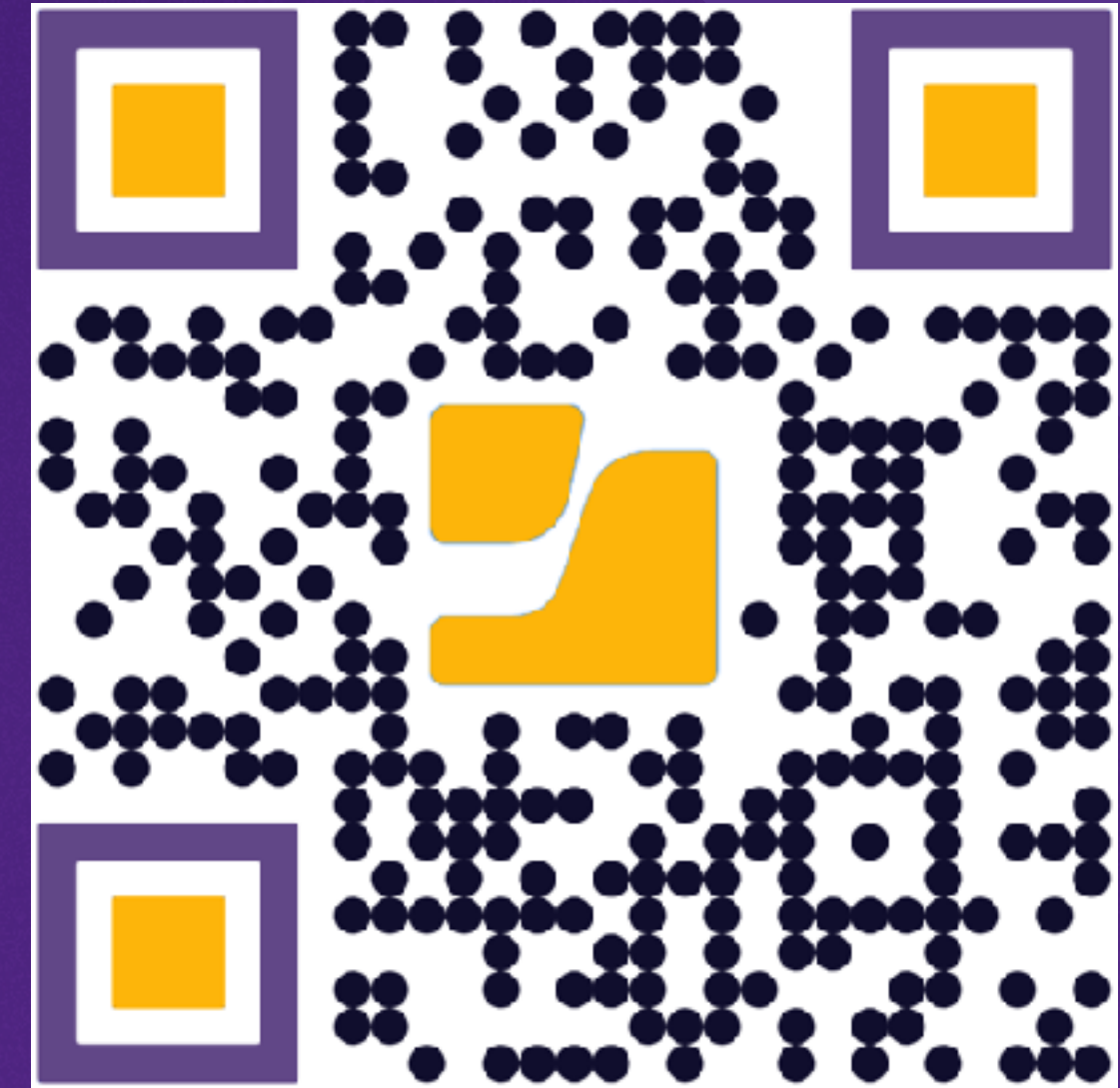
STANDARD

of Apple management

● **JAMF NATION LIVE**

Stop Asking, Start Declaring
The DDM Only Life

Thank You!



Resources available at
jamf.it/ddmjnl26



Scott Mackay



Anthony Darlow