HOL-2451-09-DWS (NEW) Getting Started with the Digital Workspace

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Module 2 - Introduction to Apple iOS Management (30 minutes) Beginner

Introduction	[134]
This lab module will focus on introducing the concepts of Unified Endpoint Management (UEM) with Workspace ONE. This lab will w you through how to enroll an iOS device and deploy device profiles to configure your iOS devices to leverage UEM functionality.	alk
DO NOT Enroll Personal iOS Devices	[135]
IMPORTANT: You SHOULD NOT enroll a personal device for the upcoming exercise!	
Personal devices may be enrolled into other UEM providers which can cause undesired conflicts and issues.	
To complete this lab, we recommend you use a test device ONLY and avoid enrolling personal devices in the lab.	
Login to the Workspace ONE UEM Console	[136]
To perform most of the lab, you will log into the Workspace ONE UEM Admin Console.	

Launch Firefox Browser



Double-click the Firefox shortcut located on the desktop of the virtual machine you are currently connected to.

Enter the Admin Username for the Workspace ONE UEM Admin Console

🗋 Region A 🗋 Region B 📮 VMware Horizon 🔤 VMware Tech Zone	WS1 UEM Console	
	Workspace ONE [™] UEM 2	
	Username Vour VLP Email Address Remember	
	3	
	Next Trouble logging in	

- 1. Select the WS1 UEM Console link from the Bookmark Toolbar
- 2. Enter your Username. This is the email address that you have associated with your VMware Learning Platform (VLP) account that you utilized to take Hands-on Labs.
- 3. Click Next, then advance to the next step of the lab manual to enter the password.

NOTE - If you see a Captcha, please be aware that it is case sensitive!

Authenticate to the Workspace ONE UEM Console

[139]

🗅 Region A 🗋 Region B 📮 VMware Horizon 🗧 VMware Tech Zone	🕲 WS1 UEM Console	
	25	
	Workspace ONE [™] UEM	
24 C	Username	
	Remember	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	Password	
	2	
	Log In	
	Log in as a different user Trouble logging in	

The password field will be displayed after entering your username.

- 1. Enter VMware1! for the Password field.
- 2. Click the Log In button.

NOTE: Due to lab restrictions, you may need to wait here for a minute or so while the Hands On Lab contacts the Workspace ONE UEM Hands On Labs server.

Accept the VMware General Terms

[140]



You will be presented with the VMware General Terms.

- 1. Select the box next to I Agree to the VMware General Terms.
- 2. Click the Accept button.

NOTE: The following steps of logging into the Administration Console will only need to be done during the initial login to the console.

Address the Initial Security Settings

After accepting the Terms of Use, you will be presented with this Security Settings pop-up

Security Setting Password Recovery	Question 1		
Password Recovery Question *	What was your child	hood nickr 👻 2	
Password Recovery Answer *	VMware1!	Show 3	1
Confirm Password Recovery Answer *	VMware1!	show 4	
A four-digit Security restricted actions (ty PIN must be entered (configured by authori	d. It is required in the console for s zed administrators in System Secu	ome rity
Security PIN *	1234	show 5	
Confirm Security PIN *	1234	show 6	ļ

The Password Recovery Question is in case you forget your admin password and the Security PIN is to protect certain administrative functionality in the console.

- 1. You may need to scroll down to see the Password Recovery Questions and Security PIN sections.
- 2. Select a question from the Password Recovery Question drop-down (default selected question is ok here).
- 3. Enter VMware1! in the Password Recovery Answer field.
- 4. Enter VMware1! in the Confirm Password Recovery Answer field.
- 5. Enter 1234 in the Security PIN field.
- 6. Enter 1234 in the Confirm Security PIN field.
- 7. Click the Save button when finished.

Console Highlights



A popup window will appear after you complete your security questions.

Click the 'X' in the upper right corner to close the Workspace ONE UEM Console Highlights window.

Create a Device Restriction Profile

In this section, we will create a restriction profile that will disable the camera and disable Siri on the device. We will set the profile for auto-deployment, so that the profile is installed automatically when the device is enrolled.

[143]

Add A Profile

Add ~ 10	Ļ	☆	?
Admin			
Device			
User			
Compliance Policy			
Content			
Profile 2			
Internal Application			
Public Application			

In the top right corner of the Workspace ONE UEM console,

- 1. Click Add.
- 2. Click Profile.

Select Platform

[145]



Select the Context

Select Context		
User Profile	Device Profile	

Click the Device Profile context option.



Configure General Payload

Find Payload	General		
General 1	General		
Passcode	Name *	iOS Restriction Profile	
Restrictions	Version	1	
Wi-Fi	Version		
VPN	Description		
Email	Deployment	Managed	
Exchange ActiveSync	Deployment	мападео	Ť
Notifications	Assignment Type	Auto 3	~
LDAP	Allow Demoval	Aluma	
CalDAV	Allow Removal	Aiways	Ŷ
Subscribed Calendars	Managed By	your@email.shown.here	
CardDAV			
Web Clips	Smart Groups	All Devices (your@email.shown.here)	×
Credentials		Start typing to add a group	٩

1. Select General if not selected already

2. Enter iOS Restriction Profile for the Name field

- 3. Ensure the Assignment Type is Auto
- 4. Click the Smart Groups dropdown field and select All Devices (your@email.shown.here)

Configure Restriction Payload



- 1. Click on the Restrictions payload in the left panel
- 2. Click Configure

Disable Siri

[149]



- 1. Scroll down approximately one page to find the Allow Siri option.
- 2. Uncheck the Allow Siri checkbox listed under the Device Functionality section. This will disable Siri on the device.
- 3. Take note of the iOS version and Supervised requirements for each restriction. The target device receiving this restriction must on the listed iOS version or higher (ie: iOS 5) and must be Supervised if the Supervised tag is also shown. For example: The Allow Siri restriction does not require the device to be Supervised, but the Allow Manual Profile Installation restriction does. Take note of these requirements and ensure your devices meet all of the requirements shown when publishing restriction profiles.
- 4. Click Save & Publish.

NOTE: Supervised devices give schools and business greater control over iOS device that they own. Supervising devices allows administrators additional device restrictions that are not possible with Bring Your Own Device (BYOD) scenarios to respect end user privacy.



Publish the Profile

[150]

(1) Grid only shows the devices through direct assignments, however this resource might have workflow based assignments too.						
			Assignment Status	All ×	Filter Grid	Ċ
ssignment Status	Friendly Name	User	Platform/OS/Model	Phone Number	Organization Group	
			No Records Found			

Click Publish.

Validate profile creation



- 1. Click Resources.
- 2. Expand Profiles & Baselines.
- 3. Click Profiles.

4. Validate that you see iOS Restriction Profile in the Profiles List.



Validate Device Configuration Before Enrollment

Some things you can ask me: FaceTime "FaceTime Lisa" Apps "Launch Photos" Messages "Tell Susan I'll be right there" Siri Apple Pay 'Apple Pay \$20 to Khira'' 3 Siri helps you get things done just by asking. Siri can even make suggestions before you ask in apps, search, and keyboards. Calendar "Set up a meeting at 9" To use Siri, press and hold the Home button or say "Hey Siri" when your iPad is connected to power. Translation Sports "Did the Giants win?" Photos "Find my Italy trip last month" 2 Camera Turn On Siri Not Now

Before enrolling your device, confirm that Siri is available for use on your iOS app so you can confirm that the iOS Restriction Profile properly disables Siri once the device is enrolled in an upcoming step.

- 1. Activate Siri on your device (holding the Home or Side button, depending on your device).
- 2. If Siri is disabled, tap Turn On Siri.
- 3. Ensure you see Siri is listening for input, confirming that Siri is enabled on the device.



iOS Device Enrollment using testuser

In this section, we are going to enroll an iOS device. The upcoming steps will need to be completed from an iOS device.

Download and Install Workspace ONE Intelligent Hub from App Store (IF NEEDED)

earch					
	Intelligent H VMware Workspa	ub ce ONE			仓
	¢				
38K RATINGS	AGE	CHART	DEVELOPER	LANGUAGE	SIZE
4.4	4+	#83		EN	157.3
****	Years Old	Business	AirWatch, LLC	+ 18 More	MB
Preview					version 23.03.1
Sign on once to e	asily access work apps	м	anage your account from any	device	Receive notifications at
Apps 3 Seen Mentre Vegas		Crea Account Res A	Boon	,	Notifications Priory Of Vanish States and Apple
Tradeshow 2018		terpretore 1 terro This (terror	n Mateupes 		
+ Facebas	Jun M (23)	Ren's Phone Ren's Paul	Nerseyk Pryfan		Testay
🗖 💫 🖸 🌞		Nutricators Seguri Anut	Preferences Reserved Devices The arresting the device will necessary and an advantage	r New Anderson	Vir prove Nar proved of explicit in the day. Naractive description (sense of
Weigner (M.) Error 1 Erst					

NOTE: Checked out devices will likely have the Workspace ONE Intelligent Hub already installed. You may skip this step if your device has the Workspace ONE Intelligent Hub installed.

At this point, if you are using your own iOS device or if the device you are using does NOT have the Workspace ONE Intelligent Hub Application installed, then install the application from the App Store.

To Install the Workspace ONE Intelligent Hub application from the App Store, open the App Store application and download the free Workspace ONE Intelligent Hub application.

Launching the Workspace ONE Intelligent Hub



Launch the Hub app on the device.

NOTE: If you have your own iOS device and would like to test you will need to download the Workspace ONE Intelligent Hub app first.

Enter the Server URL



Once the Hub has launched you can enroll the device. To do so, follow the below steps.

- 1. Enter **labs.awmdm.com** for the **Server** field.
- 2. Tap the **Next** button.

NOTE: If on an iPhone, you may have to close the keyboard by clicking Done in order to click the Continue button.

Find your Group ID in the Workspace ONE UEM Console



Return to the Workspace ONE UEM Console,

- 1. To find the Group ID, hover your mouse over the Organization Group tab at the top of the screen. Look for the email address you used to log in to the lab portal.
- 2. Your Group ID is displayed at the bottom of the Organization Group pop up.

NOTE: The Group ID is required when enrolling your device in the following steps.

[157]

Attach the Workspace ONE Intelligent Hub to your Sandbox

labs.awmdm.com {Your Group ID}	
Next 2	

Return to the Workspace ONE Intelligent Hub application on your iOS Device,

- 1. Enter your Group ID for your Organization Group for the Group ID field. Your Group ID was noted previously in the Finding your Group ID step.
- 2. Tap the Next button.

NOTE: If on an iPhone, you may have to close the keyboard by clicking Done in order to click the Next button.

Enter User Credentials



```
[159]
```

You will now provide user credentials to authenticate to Workspace ONE UEM.

- 1. Enter **testuser** in the Username field.
- 2. Enter VMware1! in the Password field.
- 3. Tap the **Next** button.

Skip Password Save

[160]



If prompted for password saving, click Not Now

Review privacy notice

[161]

	We value your privacy
G	Messages
	Personal Email All of your own accounts are private.
	Personal Photos We do not store nor have access to your photos.
	Continue

The Workspace ONE Intelligent Hub will show a privacy message detailing what is collected and what is not collected from the device. The next step is to download the configuration profile to enroll your device into Workspace ONE UEM. Tap **Continue** to begin.

Setup device profile

[162]



The next step is to download the configuration profile to enroll your device into Workspace ONE UEM.

Tap Download profile to begin.

Allow Website to download a configuration profile

[163]



When prompted that the website is trying to download a configuration profile, tap Allow.

Close Profile Downloaded Notification



When the Profile Downloaded notification is displayed, click Close.

[164]



Steps to download profile

1. When prompted to download the profile, tap **vm**ware[®] on Allow HANDS-ON LABS MANUAL | 154

2. After the download is complete, tap on
Now that the profile is downloaded, tap **Tap here when download finishes**. This will return you to the Intelligent Hub application where you will install the profile.

Install device profile



The next step is to Install the configuration profile to enroll your device into Workspace ONE UEM.

Tap Install profile to begin.



[165]

Open the Settings App

[166]



An instructional prompt will inform users how to finish their enrollment profile installation in the Settings app. Tap Open the Settings app to continue.

Open the Downloaded Profile

Settings	5	〈 General	Profile	
Profile Downloaded		DOWNLOADED PF	ROFILE	
Airplane Mode	2	Workspace	oace Services ace	>
ᅙ Wi-Fi	vmwareguest			
8 Bluetooth	On			
(1) Cellular Data				
Notifications				
Sounds				
C Do Not Disturb				
Screen Time				
General				

In the Settings app.

- 1. Tap Profile Downloaded.
- 2. Tap Workspace Services Profile

Install the Workspace ONE MDM Profile

[168]



1. Tap Install in the upper right corner of the Install Profile dialog box.

NOTE: If you have a passcode on your device, you will be prompted to input the passcode to continue.

2. Tap Install for the pop-up prompt to confirm.

iOS MDM Profile Warning



You should now see the iOS Profile Installation warning explaining what this profile installation will allow on the iOS device.

Tap Install in the upper-right corner of the screen.

Trust the Remote Management Profile.



Trust

management?

Cancel

You should now see the iOS request to trust the source of the MDM profile.

Tap Trust when prompted at the Remote Management dialog.

iOS Profile Installation Complete

[171]

	Warlan an Oamiaaa
	Workspace Services
Signed by	*.awmdm.com Verified ✓
Description	Workspace profile to separate work and personal data and activate access to work applications and services on your device.
Contains	Mobile Device Management Certificate
More Detai	ls

You should now see that the iOS Profile was successfully installed.

Tap **Done** in the upper right corner of the prompt.

Navigate to Workspace ONE Intelligent Hub



Your enrollment is now completed! Return to the Workspace ONE Intelligent Hub app.



Continue to Hub



Mware[®]

[173]

Configuring Hub	_

You will see that the profile is not successfully configured.

- 1. Tap Take me to Hub to continue.
- 2. A Configuring Hub loading bar will display, wait for this to complete and then continue to the next step.

Accept Notifications for Hub (IF NEEDED)



Tap Allow if you get a prompt to allow notifications for the Hub app.

Skip the Introduction (IF PROMPTED)



Click Skip.



Confirm the Privacy Policy

[176]

Privacy Fivacy Fivac	Privacy Privac	S7 AM Wed Sep 22	@ 63
 Surface Management There for an overview of data collected from this device to provide access to this applications. Provide Management There for an overview of the data that this app may collect about device. Nour company has access to this data and some or all of the data collected is based on your company has access to this data and some or all of the data collected is based on your company. 	<image/> <text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text>	Privacy	
 Your Privacy Matters.VMware Workspace ONE collects information to provide secure access to your work data and applications. Below you will find an overview of data collect by Workspace ONE and Hub to provide optimal performance, security and support. For information about how your company handles information collected by Workspace ONE please contact your company. For information regarding the data VMware collects in connection with your use of this application for product improvement and other analytics purposes, see the Trust & Assurance Center and VMware's Privacy Notices. Contact your company's IT administrator if you want to find out how to un-enroll your deviated discontinue access to this app. Device Management Tap here for an overview of data collected from this device to provide access to work resources and to secure company data stored on this device. The data collected is based on your company's configuration. Your company has access to this data and some or all of the data collected may be visible to your IT administrator. Data Collected by Hub Tap here for an overview of the data that this app may collect about device hardware, diagnostics and user information to function properly, and to secure company data stored on this device. Your company has access to this data and some store of this data and some data collected may be visible to your IT administrator. Hub Permissions Tap here for an overview for the device permissions that this app will require to function properly. These permissions can be changed at any time within your device settings but may impact app functionality. Your Company's Privacy Policy 	Your Privacy Matters. VMware Workspace ONE collects information to provide secure access to your work data and applications. Below you will find an overview of data collected by Workspace ONE and Hub to provide optimal performance, security and support. For information about how your company handles information collected by Workspace ONE, please contact your company. For information regarding the data VMware collects in connection with your use of this application for product improvement and other analytics purposes, see the Trust & Assurance Center and VMware's Privacy Notices. Contact your company's IT administrator if you want to find out how to un-enroll your device and discontinue access to this app. Device Management Tap here for an overview of data collected from this device to provide access to work resources and to secure company data stored on this device. The data collected may be visible to your IT administrator. Data Collected by Hub Tap here for an overview of the data that this app may collect about device hardware, diagnostics and user information to function properly, and to secure company data stored on this device. The data collected may be visible to your Company has access to this data and some or all of the data stored on this device. Your company has access to this data and some or all of the data stored on this device. Your company has access to this data and some data collected may be visible to your IT administrator. Hub Permissions Tap here for an overview for the device permissions that this app will require to function properly. These permissions can be changed at any time within your device settings but may impact app functionality. Your Company's Privacy Policy		
For information regarding the data VMware collects in connection with your use of this application for product improvement and other analytics purposes, see the Trust & Assurance Center and VMware's Privacy Notices. Contact your company's IT administrator if you want to find out how to un-enroll your deviated discontinue access to this app.	For information regarding the data VMware collects in connection with your use of this application for product improvement and other analytics purposes, see the Trust & Assurance Center and VMware's Privacy Notices. Contact your company's IT administrator if you want to find out how to un-enroll your device and discontinue access to this app. Device Management Tap here for an overview of data collected from this device to provide access to work resources and to secure company data stored on this device. The data collected is based on your company's configuration. Your company has access to this data and some or all of the data collected may be visible to your IT administrator. Data Collected by Hub Tap here for an overview of the data that this app may collect about device hardware, diagnostics and user information to function properly, and to secure company data stored on this device. Your company has access to this data and some data collected may be visible to your IT administrator. Hub Permissions Tap here for an overview for the device permissions that this app will require to function properly. These permissions can be changed at any time within your device settings but may impact app functionality. Your Company's Privacy Policy Contact your IT administrator for information about how your company handles information collected by this app.	Your Privacy Matters. VMware Workspace ONE collects information to provide sec access to your work data and applications. Below you will find an overview of data col by Workspace ONE and Hub to provide optimal performance, security and support. information about how your company handles information collected by Workspace (please contact your company.	ure ecte For)NE,
Contact your company's IT administrator if you want to find out how to un-enroll your devi and discontinue access to this app. Device Management Tap here for an overview of data collected from this device to provide access to work resources and to secure company data stored on this device. The data collected is based on your company's configuration. Your company has access to this data and some or all of the data collected may be visible to your IT administrator. Data Collected by Hub Tap here for an overview of the data that this app may collect about device hardware, diagnostics and user information to function properly, and to secure company data stored on this device. Your company has access to this data and some data collected may be visible to your IT administrator. Hub Permissions Tap here for an overview for the device permissions that this app will require to function properly. These permissions can be changed at any time within your device settings but may impact app functionality. Your Company's Privacy Policy	Contact your company's IT administrator if you want to find out how to un-enroll your device and discontinue access to this app. Device Management Tap here for an overview of data collected from this device to provide access to work resources and to secure company data stored on this device. The data collected is based on your company's configuration. Your company has access to this data and some or all of the data collected may be visible to your IT administrator. Data Collected by Hub Tap here for an overview of the data that this app may collect about device hardware, diagnostics and user information to function properly, and to secure company data stored on this device. Your company has access to this data and some data collected may be visible to your IT administrator. Hub Permissions Tap here for an overview for the device permissions that this app will require to function properly. These permissions can be changed at any time within your device settings but may impact app functionality. Your Company's Privacy Policy Contact your IT administrator for information about how your company handles information collected by this app.	For information regarding the data VMware collects in connection with your use of application for product improvement and other analytics purposes, see the Trust Assurance Center and VMware's Privacy Notices.	this &
Device Management Tap here for an overview of data collected from this device to provide access to work resources and to secure company data stored on this device. The data collected is based on your company's configuration. Your company has access to this data and some or all of the data collected may be visible to your IT administrator. Data Collected by Hub Tap here for an overview of the data that this app may collect about device hardware, diagnostics and user information to function properly, and to secure company data stored on this device. Your company has access to this data and some data collected may be visible to your IT administrator. Hub Permissions Tap here for an overview for the device permissions that this app will require to function properly. These permissions can be changed at any time within your device settings but may impact app functionality. Your Company's Privacy Policy	Device Management Tap here for an overview of data collected from this device to provide access to work resources and to secure company data stored on this device. The data collected is based on your company's configuration. Your company has access to this data and some or all of the data collected may be visible to your IT administrator. Data Collected by Hub Tap here for an overview of the data that this app may collect about device hardware, diagnostics and user information to function properly, and to secure company data stored on this device. Your company has access to this data and some data collected may be visible to your IT administrator. Hub Permissions Tap here for an overview for the device permissions that this app will require to function properly. These permissions can be changed at any time within your device settings but may impact app functionality. Your Company's Privacy Policy Contact your IT administrator for information about how your company handles information collected by this app.	Contact your company's IT administrator if you want to find out how to un-enroll your and discontinue access to this app.	devic
Data Collected by Hub Tap here for an overview of the data that this app may collect about device hardware, diagnostics and user information to function properly, and to secure company data stored on this device. Your company has access to this data and some data collected may be visible to your IT administrator. Hub Permissions Tap here for an overview for the device permissions that this app will require to function properly. These permissions can be changed at any time within your device settings but may impact app functionality. Your Company's Privacy Policy	Data Collected by Hub Tap here for an overview of the data that this app may collect about device hardware, diagnostics and user information to function properly, and to secure company data stored on this device. Your company has access to this data and some data collected may be visible to your IT administrator. Hub Permissions Tap here for an overview for the device permissions that this app will require to function properly. These permissions can be changed at any time within your device settings but may impact app functionality. Your Company's Privacy Policy Contact your IT administrator for information about how your company handles information collected by this app.	Device Management Tap here for an overview of data collected from this device to provide access to work resources and to secur company data stored on this device. The data collected is based on your company's configuration. Your company has access to this data and some or all of the data collected may be visible to your IT administrato	e
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Your Company's Privacy Policy	Your Company's Privacy Policy Contact your IT administrator for information about how your company handles information collected by this app.	Hub Permissions Tap here for an overview for the device permissions that this app will require to function properly. These permissions can be changed at any time within your device settings but may impact app functionality.	
Contact your IT administrator for information about how your company handles information collected by this app		Your Company's Privacy Policy	app

Tap I Understand when shown the Privacy policy.

Accept the Data Sharing Policy

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Tap I Agree for the Data Sharing policy.

Confirm the Device Enrollment in the Hub App

[178]



	Account	Done
	testuser Basic Account	
Two Easter Authentication	Updated Today at 1:35 PM	~
		01
This Device		>
Support		>
Legal		>
Privacy		>
About		>

Confirm that the Hub app shows the user account (testuser) that you enrolled with...

You have now successfully enrolled your iOS device with Workspace ONE UEM! Continue to the next step.

Validate Device After Restriction Profile

You will now validate that the restriction profile for disabling Siri on the device is applying as expected. You will confirm the restriction profile in two ways:



[1/9]

- 1. Inspecting the Mobile Device Management profile that was installed to the device in previous steps to confirm that the restriction is present.
- 2. Attempting to interact with Siri on the device.

Validate the Restriction Profile in Settings

[180]



Tap the Settings app.



Navigate to Profiles & amp; Device Management

Airplane Mode			
ᅙ Wi-Fi	Tahoe	Background App Refresh	
8 Bluetooth	On	Date & Time	
Notifications		Keyboard	
Sounds		Gestures	
C Focus		Fonts	
Screen Time		Dictionary	
🙆 General 🕕			
Control Center		VPN & Device Management	

- 1. Tap General.
- 2. Scroll down to find the VPN & Device Management option.
- 3. Tap VPN & Device Management.

Open the Device Manager Profile



Tap the Device Manager profile under Mobile Device Management.

Inspect Restrictions

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< Back	Profile
	Device Manager
Signed by	y *.awmdm.com Verified ✓
Description	 Device Management profile to manage and activate access to work applications and services on your device
Contains	 Mobile Device Management 4 Restrictions Certificate
More Deta	ails
Restriction	ns 4

Tap Restrictions to inspect the restrictions associated with this profile.

Confirm Siri Not Allowed Restriction



Confirm that the Siri not allowed restriction is included in the list.

Validate Siri is Disabled on the Device

Attempt to activate Siri on your device again by holding the home button and notice that Siri no longer responds.

If you navigate to the Settings app, you will also notice that the Siri & Search settings are no longer available on the device.

Un-enrolling Your iOS Device

You are now going to un-enroll the iOS device from Workspace ONE UEM.

NOTE: The term "Enterprise Wipe" does not mean reset or completely wipe your device. This only removes the MDM Profiles, Policies, and content which the Workspace ONE Intelligent Hub controls.

It will NOT remove the Workspace ONE Intelligent Hub application from the device as this was downloaded manually before the user enrolled in to Workspace ONE UEM.

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[185]

[184]

Enterprise Wipe (Un-Enroll) Your iOS Device

GETTING STARTED	Dashboard		Devices		
	List View 2		List View		
MONITOR	Device Updates				
	Lifecycle	>	Filters » O ADD DEVICE	LAYOUT 🗸	C EXPORT V Search List
DEVICES	Profiles & Resources	>	● QUERY ● SEND LOCK C REBOOT DEVICE ①	SHUT DOWN	MORE ACTIONS 🗸 4 i item s
器	Compliance Policies	>		-	
ACCOUNTS	Certificates	>	Last Seen 🔺 General Info	Platform	Management
***	Provisioning	>	testuser iPad iOS 12.4.5 FLMJ your@email.shown.here	Apple iOS iPad Mini wi	Enterprise Wipe 5 Latest Available OS Update
APPS & BOOKS	Peripherals	>	UEM Managed Corporate - Dedicated	12.4.5	

Enterprise Wiping will remove all the settings and content that were pushed to the device after it was enrolled. It will not affect anything that was on the device prior to enrollment.

Return to the Workspace ONE UEM Console,

- 1. Click Devices
- 2. Click List View
- 3. Click the checkbox next to the device you want to Enterprise Wipe
- 4. Click More Actions
- 5. Click Enterprise Wipe

including applications and profiles.

Enter your security PIN

again.

Restricted Action - Enterprise Wipe You are about to perform the Enterprise Wipe action. Please review all the information below carefully and then enter your Security PIN to proceed. (i) An Enterprise Wipe will unenroll and remove all managed enterprise resources from the selected device(s), This action cannot be undone and re-enrollment will be required for AirWatch to manage these device(s)

Last Seen Friendly Name C/E/S User Platform Model Organization Group ▲ 9m testuser iPad iOS ... C testuser Apple iOS iPad your@email.shown.. ÷∎ ₽ Security PIN: 2 3

After selecting Enterprise Wipe, you will be prompted to enter your Security PIN which you set after you logged into the Workspace ONE UEM console to 1234.

Enter 1234 for the Security PIN. You will not need to press enter or continue, the console will confirm your PIN showing "Successful" below the Security PIN input field to indicate that an Enterprise Wipe has been requested.

NOTE: If 1234 does not work, then you provided a different Security PIN when you first logged into the Workspace ONE UEM Console. Use the value you specified for your Security PIN.

NOTE: If the Enterprise Wipe does not immediately occur, follow the below steps to force a device sync:

- 1. On your device, tap the Workspace ONE Intelligent Hub application
- 2. Tap This Device
- 3. Tap Send Data near the top of the screen. If this does not make the device check in and immediately un-enroll, continue to Step #4.
- 4. If the above doesn't make it immediately un-enroll, then tap Connectivity [Status] under Diagnostics.
- 5. Tap Test Connectivity at the top of the screen.

NOTE: Depending upon Internet connectivity of the device and responsiveness of the lab infrastructure, this could take a couple of minutes or more if there is excessive traffic occurring within the Hands On Lab environment.

Feel free to continue to the "Force the Wipe" step to manually uninstall the Workspace ONE UEM services from the device if network connectivity is failing.

Verify the Un-Enrollment

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Return to the device springboard. Notice that any applications pushed through Workspace ONE UEM have been removed from the device. In addition, navigating to Settings > General > Profiles will show that the Workspace Services profile has been removed from the device and any configurations pushed have been reverted.

NOTE: The Workspace ONE Intelligent Hub will still be on the device because that was downloaded manually from the App Store. Due to lab environment settings, it may take some time for the signal to traverse through the various networks out and back to your device. Continue on to the next step to force the wipe if the needed.

Force the Wipe - IF NECESSARY

[190]

	Settings	General		
≻ Airpla	ine Mode	About		>
ᅙ Wi-Fi		Software Lindate		· 、
Bluet	ooth On	Software Opuate		í.
		AirDrop		>
D Notifi	cations	AirPlay & Handoff		>
soun	ds	Picture in Picture 2		>
C Do No	ot Disturb	Ĭ	/	
Scree	en Time	iPad Storage		>
		Background App Refresh		>
🔅 Gene	ral			
8 Contr	ol Center	Date & Time		>
AA Displa	ay & Brightness	Keyboard		>
🔡 Home	e Screen & Dock	Fonts		>
Acces	ssibility	Language & Region		>
🛞 Wallp	aper	Dictionary		>
Apple	Pencil			
Touch	ID & Passcode	VPN 3	Not Connected	>
🗖 Batte	ry	Device Management Wor	kspace Services	>
🕛 Priva	су			
		Legal & Regulatory		>
🙏 App S	Store			
🤜 Walle	t & Apple Pay	Reset		>

If your device did not wipe, follow these instructions to ensure the wipe is forced immediately. Start by opening the iOS Settings app.

- 1. Tap General in the left column.
- 2. Scroll down to view the Device Management option.
- 3. Tap Device Management at the bottom of the list of General settings.

Force the Wipe - IF NECESSARY

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Tap the Device Manager profile that was pushed to the device.
Force the Wipe - IF NECESSARY

Control Con Workspace Services Signed by *.awmdm.com Verified 🗸 Description Workspace profile to separate work and personal data and activate access to work applications and services on your device. Contains Mobile Device Management 3 Certificates More Details > 1 **Remove Management Remove Management** 2 Cancel Remove

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1. Tap Remove Management on the Workspace Services profile

NOTE: If prompted for a device PIN, enter it to continue

2. Tap Remove on the Remove Management prompt

After removing the Device Manager profile, the device will be un-enrolled. Feel free to return to the Verify the Un-Enrollment step to confirm the successful un-enrollment of the device.

Validate Device after Un-Enrolling

Once the device has unenrolled, the restrictions that you pushed to disable Siri will be removed but will not modify any other aspects of your device. Attempt to activate Siri again and confirm that Siri is now working.

Summary

Managing your devices with Workspace ONE UEM empowers your administrators to ensure devices are operating and accessing corporate resources securely without violating user privacy. Now that you know how to enroll a device and push a profile, consider exploring the other lab topics available in this module to further expand your Workspace ONE UEM knowledge.

This concludes the Introduction to Apple iOS Management module.

Note that this Hands-On Lab *does not* cover the full breadth and capabilities for managing iOS and tvOS with Workspace ONE. Please see VMware's TechZone for videos, blogs, and documentation that can help you with advanced topics in iOS/tvOS management, such as:

- Apple Business Manager and Automated Device Enrollment
- Device Staging and Enroll-on-Behalf
- Volume Purchased Application Deployment
- Kiosk Mode
- Certificates and Identity/Directory Integration
- Productivity Apps
- Check-In, Check-Out
- · Unified App Catalog and Single Sign-On via Hub Services and VMware Access
- Apple Education Integration (e.g Apple School Manager
- ... and More!

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Module 3 - Introduction to Apple macOS Management (45 minutes) Intermediate

Introduction

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In this lab module, we will explore some Workspace ONE administration features and concepts available for the macOS platform. This lab will give you a better understanding of how macOS devices are enrolled, what management options you have available, and how these options can improve and impact the user experience by configuring macOS and publishing applications.

Before you can start the lab, make sure you review the next page to ensure you can successfully complete the lab.

Pre-Requisites

To successfully complete this Hands-On Lab, you'll need to ensure you have the following pre-requisites:

• An Apple device running macOS version 10.14.0 (Mojave) or later.

DO NOT Enroll Personal macOS Devices

IMPORTANT: You SHOULD NOT enroll a personal device for the upcoming exercise!

Personal devices may be enrolled into other UEM providers which can cause undesired conflicts and issues.

To complete this lab, we recommend you use a test device ONLY and avoid enrolling personal devices in the lab.

Login to the Workspace ONE UEM Console

To perform most of the lab, you will log into the Workspace ONE UEM Admin Console.

Launch Firefox Browser



Double-click the Firefox shortcut located on the desktop of the virtual machine you are currently connected to.



Enter the Admin Username for the Workspace ONE UEM Admin Console

🗅 Region A 🗋 Region B 📮 VMware Horizon 🗧 VMware Tech Zone	WS1 UEM Console	
	Workspace ONE" UEM	
	Username Vour VLP Email Address	
	L Kemeniker	
	3	
	Next	
	<u>Trouble logging in</u>	

- 1. Select the WS1 UEM Console link from the Bookmark Toolbar
- 2. Enter your Username. This is the email address that you have associated with your VMware Learning Platform (VLP) account that you utilized to take Hands-on Labs.
- 3. Click Next, then advance to the next step of the lab manual to enter the password.
- NOTE If you see a Captcha, please be aware that it is case sensitive!

Authenticate to the Workspace ONE UEM Console

[203]

j Kegion A Kegion B 📮 VMiware Horizon 🛛 🔤 VMiware Tech ∠one	WST UEM Console	
	Workspace ONE" UEM	
	Username Remember Password VMware1!	
	Log In Log in as a different user	

The password field will be displayed after entering your username.

- 1. Enter VMware1! for the Password field.
- 2. Click the Log In button.

NOTE: Due to lab restrictions, you may need to wait here for a minute or so while the Hands On Lab contacts the Workspace ONE UEM Hands On Labs server.

Accept the VMware General Terms

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You will be presented with the VMware General Terms.

- 1. Select the box next to I Agree to the VMware General Terms.
- 2. Click the Accept button.

NOTE: The following steps of logging into the Administration Console will only need to be done during the initial login to the console.

Address the Initial Security Settings

After accepting the Terms of Use, you will be presented with this Security Settings pop-up

Security Setting	gs		
Password Recovery	Question 1		-
Password Recovery Question *	What was your childh	nood nickr 👻 2	
Password Recovery Answer *	VMware1!	Show 3	1
Confirm Password Recovery Answer *	VMware1!	show 4	
Security PIN ——			-
A four-digit Securit restricted actions (settings).	ty PIN must be entered. (configured by authorize	. It is required in the console for some ed administrators in System Security	
Security PIN *	1234	show 5	
Confirm Security PIN *	1234	show 6	Ĵ
		7 5 4	VE

The Password Recovery Question is in case you forget your admin password and the Security PIN is to protect certain administrative functionality in the console.

- 1. You may need to scroll down to see the Password Recovery Questions and Security PIN sections.
- 2. Select a question from the Password Recovery Question drop-down (default selected question is ok here).
- 3. Enter VMware1! in the Password Recovery Answer field.
- 4. Enter VMware1! in the Confirm Password Recovery Answer field.
- 5. Enter 1234 in the Security PIN field.
- 6. Enter 1234 in the Confirm Security PIN field.
- 7. Click the Save button when finished.

Console Highlights



A popup window will appear after you complete your security questions.

Click the 'X' in the upper right corner to close the Workspace ONE UEM Console Highlights window.

Accessing Your Workspace ONE Access Tenant Details

Workspace ONE Intelligent Hub end-user services are configured via the Hub Services admin console. Hub Services is co-located with Workspace ONE Access. Think of Hub Services as the server-side component and Intelligent Hub as the end-user client.

The following sections will guide you through accessing your Workspace ONE Access tenant, logging in, then accessing the Hub Services admin console.



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Accessing Your Workspace ONE Access Tenant Details in the UEM Console

A temporary Workspace ONE Access tenant has been generated for you to use throughout this lab. The Workspace ONE Access tenant URL and login details were uploaded to the Content section in the Workspace ONE UEM Console at the start of the lab.

GETTING	Content	~ 2	Content > Content		
STARTED	Dashboard				
	Lint Mary		List View		
	LIST VIEW		LIEM Managed Corporate File Servers		
Ð	Repositories	>	Corporate rile servers		
DEVICES	Categories		Filters >> 🕒 ADD CONTENT	Storage	Used (%)
	Featured Content				
RESOURCES	Batch Status			• 501	
ඊ	Mobile Flows		Name	C/E/S	Managed By
ACCOUNTS	Cottings	r7	vIDM Tenant Details for your@		
	Setungs	Ľ	1.0	N/A	your@email.shown.here
CONTENT			106 Bytes		

In the Workspace ONE UEM Console:

- 1. Click **Content** on the far left
- 2. Expand Content at the top
- 3. Click List View
- 4. Find the text file named vIDM Tenant Details for your@email.shown.here.txt and click the checkbox beside it to select the file
- 5. Click Download

Open the Downloaded Text File

Image: Show all downloads
 Image: Show all downloads

After the file downloads, click the vIDM Tenant Details for your@email.shown.here.txt file from the download bar to open it.

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Copy the Tenant URL

vIDM Tenant Details for your@email.shown	here - yourname1234.txt - Notepad
File Edit Format View Help	1
Tenant URL: https://yourname1234.vidmpreview.com Admin Username: Administrator Admin Password: VMware1!	Undo Cut Copy 2 Paste Delete Select All Right to left Reading order Show Unicode control characters Insert Unicode control character

1. Select the Tenant URL text and right-click

2. Click Copy

NOTE: Your tenant name will match your Group ID in the Workspace ONE UEM Console and will be entered in the UEM console in an upcoming step.

Activate Hub Services

The activation flow for Hub Services depends on whether you are a new customer or an existing customer.

New Customers to Workspace ONE

New cloud customers who purchased Workspace ONE after January 2019 have Hub Services activated automatically as part of the instance provisioning process. Workspace ONE UEM, Workspace ONE Access, and Hub Services consoles are connected together, and the Hub catalog is enabled for the Intelligent Hub app.

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Existing Cloud Workspace ONE UEM Customers

Existing customers can configure Workspace ONE Access tenant URL, tenant admin username and password to activate Hub Services. If you do not have a Workspace ONE Access tenant, you can request one from the Workspace ONE UEM administrator console itself, using the Request a Cloud Tenant button.

For this lab, we have already provided you a Workspace ONE Access tenant which we will use in the next step to active Hub Services.

Navigate to Workspace ONE Hub Services

[214]

Q Ậ ☆ ⑦ your@email ∽
MY SERVICES
Workspace ONE Hub Services
Workspace ONE Access
Workspace ONE Intelligence
Workspace ONE UEM

Return to the UEM console in the Firefox browser.

- 1. Click the My Services button
- 2. Click on Workspace ONE Hub Services



Get Started



Click Get Started to begin the Hub Services activation process.

Activate Hub Services

Activate Hub Se	rvices			\times
Hub Services is co-locate Access Tenant below. If y VMware or file a support	ed with Workspace ONE Access. To configure, pro you don't know your Tenant, you can locate this i t ticket if you can't find this information.	ovide details a nformation in 1	bout your Workspace ON the email you received fro	e ^
Note: You can use certain	n capabilities of Hub Services without configuring	Workspace O	NE Access.	
Tenant URL *	https://yourname1234.vidmpreview.com			
	Don't have a Cloud Tenant? You can req Workspace ONE Access Cloud Tenant n	Redo	Ctrl+∠ Ctrl+Shift+Z	
	REQUEST CLOUD TENANT	Cut Copy	Ctrl+X Ctrl+C	
Username *	Administrator 3	Paste 1 Paste as plain	Ctrl+V text Ctrl+Shift+V	
Password *	VMware1! 4	Select all	Ctrl+A	
Test to confirm Worksp	ace ONE UEM and Workspace ONE Access are	Spell check Writing Directi	ion 🕨	
O Test connection success	full_6	Inspect	Ctrl+Shift+I	
TEST CONNECTION	5		CANCEL	• SAVE

- 1. Right-click in the Tenant URL field and click Paste
- 2. Ensure that you have entered the URL from the notepad file you downloaded in the earlier step. If the clipboard is blank or carrying some other value, go back and copy the tenant URL from the notepad file you downloaded earlier.
- 3. Enter Administrator for the username
- 4. Enter VMware1! for the password
- 5. Click Test Connection
- $\mbox{6.Ensure that the success message } {\sf Test \ Connection \ Successful! is displayed }$
- 7. Click Save to continue



Launch Hub Services



Ensure that the message confirming Hub Services has been successfully activated is displayed. You have now successfully Activated Hub Services for your tenant!

Activate macOS Hub App Catalog

When you activate Hub Services with your Workspace ONE UEM tenant, the unified app catalog available in Hub Services will be used in the Intelligent Hub app on enrolled devices. One additional setting is needed to activate the modern unified app catalog with Hub Services - you will need to disable the legacy catalog for macOS.

In this section, you are going to activate the Hub App Catalog for macOS.

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Log Out of Hub Services

Services	LOG OUT OF HUB SERVICES
Home View announcements and metrics about Intelligent Hub.	
Welcome to Hub Services Manage your employees' Intelligent Hub experience.	

1. Click Log out of Hub Services

Navigate to Catalog Settings

[220]



In the Workspace ONE UEM Console

- 1. Click Groups & Settings
- 2. Click All Settings

Override the Legacy Catalog Settings

Settings your@email.shown.here Authentication Publishing Customization > System > Devices & Users 6 🔿 Inherit Override Current Setting Apps 1 > App Scan Catalog Title* Catalog Workspace ONE Web This corresponds to the catalog title that appears on the home screen of the device. To prevent wrapping Workspace ONE 2 of text, it is recommended tha... Show More Application Categories Paid Public Applications Platforms App Restrictions Publish the catalog to devices in this Organization Group. Legacy Catalog settings will de External App Repository webclip/shortcut profile. Application Removal Protection AirWatch Catalog 3 Legacy Catalog (iOS) ENABLED DISABLED General Standalone Catalog Legacy Catalog (macOS) ENABLED DISABLED Featured Applications

- 1. Click Apps
- 2. Click Workspace ONE
- 3. Click AirWatch Catalog
- 4. Click General
- 5. Click Publishing
- 6.Select Override for Current Setting
- 7. Select Disabled for Legacy Catalog (macOS)

This will disable the older web clip based Catalog for the macOS platform. Instead, users will receive the new Hub App Catalog which provides an updated app catalog with richer features, but also includes features such as notifications, people search, a custom home page, and more.

Save Changes

your@email.shown.here		3×
Legacy Catalog (Android)	ENABLED DISABLED	
Legacy Catalog (Windows Desktop)	ENABLED DISABLED	
lcon	UPLOAD Click Button to Upload	
Child Permission *	O Inherit only Override only Override	2 SAVE

- 1. Scroll down to the bottom
- 2. Click Save
- 3. Click the X to close the Settings window

Create Profiles

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This exercise explores how to modify the macOS device behavior using Profiles.

Profiles are the mechanism by which Workspace ONE UEM manages settings on a macOS device. macOS profile management is done in two ways: device level and enrollment-user level. You can set appropriate restrictions and apply appropriate settings regardless of the logged-on user. You can also apply settings specific to the logged-on user on the device.

All profiles are broken down into two basic sections, the General section and the Payload section.

• The General section has information about the Profile, its name and some filters on what device will get it.



• The Payload sections define actions to be taken on the device.

Every Profile must have all required fields in the General section properly filled out and at least one payload configured.

Device Profiles are typically used to control settings that apply system-wide. Device profiles can include items such as VPN and Wi-Fi configurations, Global HTTP Proxy, Disk Encryption, and/or Directory (LDAP) integration.

In this exercise, you will create a profile that disables various macOS System Preferences from being changed by the end user.

Add a macOS Profile

	Apps	>	Resources > Profiles & Baselines
	Profiles & Baselines	~	2 Profiles
FREESTYLE	Profiles		3
	Baselines		Filters » ADD V 4
MONITOR	Profile Resources		Profile Details Add Profile 5 ge
D.	Settings	>	Upload Profile
DEVICES	Device Updates		Batch Import
##	Sensors		
RESOURCES	Scripts		

Return to the Workspace ONE UEM administration console in Google Chrome:

- 1. Click Resources
- 2. Expand Profiles & Baselines
- 3. Click Profiles
- 4. Click Add
- 5. Click Add Profile



Select Profile Platform

Add Profile		
Select a platform to start:		
Android	iOS Apple iOS	macOS Apple macOS

Click macOS.

Select the Profile Context

Select Context		
User Profile	Device Profile	

There are two contexts for Profiles: User and Device. User Profiles will apply the configuration to only the logged in user on the device. Device Profiles will apply the configuration to the entire device.

Click Device Profile.



Configure General Payload

nd Payload	Conoral	
eneral 1	General	
asscode	Name *	macOS Device Restrictions 2
etwork	Version	1
PN	(Clain)	
redentials	Description	
EP	Deployment	Managod
ock	Deployment	wanageo v
estrictions	Assignment Type	Auto 3 ·
oftware Update	Allow Domousi	Alumin
arental Controls	Allow Removal	Aiways
rectory	Managed By	your@email.shown.here
ecurity & Privacy		
ernel Extension blicy	Smart Groups	Start typing to add a group 4 a
ivacy Preferences	Exclusions	All Corporate Dedicated Devices (your@email.shown.here)
isk Encryption	•	All Corporate Shared Devices (your@email.shown.here)
		All Devices (your@email.shown.here) 5



Configure the device profile as follows:

- 1. Select the General payload if not already selected
- 2. Enter macOS Device Restrictions for the profile name
- 3. Confirm Auto is selected for the Assignment Type
- 4. Scroll down to view the Smart Groups field and click in the search box
- 5. Select the All Devices (your@email.shown.here) group from the list

Each tab on the left is a "Payload". These represent different features or restrictions you can configure on the device with the selected platform and context of the Profile. You may have more than one Payload per Profile, but it is best practice to generally keep one Payload per Profile (excluding the General payload, which is required).

The configurations you have made with create a macOS device context profile that will be automatically assigned and applied to any macOS device that enrolls in your organization group.

Add the Restrictions Payload



- 1. Click the Restrictions payload
- 2. Click Configure

Clicking Configure will add the Restrictions payload to the Profile and allow you to determine what restrictions will be applied to the macOS device with this Profile.

Configure the Restrictions Payload

Restrictions						
Preferences 1	olications	Widgets	Media	Sharing	Functionality	_
Restrict System Preference panes		2				
C Enable selected items	Oisable se	elected items	3			
Accessibility	🖸 🤇					
App Store						
Bluetooth						
CDs And DVDs						
Date & Time						
Desktop & Screen Saver						
Dictation & Speech						
						Θ
					SAVE AND PUBLISH	L

- 1. Click the Preferences tab
- 2. Enable the Restrict System Preference panes checkbox
- 3.Select Disable Selected Items
- 4. Enable the Accessibility checkbox
- 5. Click Save & Publish

This will prevent the end users from being able to access or change the Accessibility settings under System Preferences.

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Preview and Publish Profile

[230]

(i) Grid only shows	s the devices through dire	ct assignments, ho	wever this resource might have work	flow based assignments to	D.	
			Assignment Status	; All ×	Filter Grid	0
Assignment Status	Friendly Name	User	Platform/OS/Model	Phone Number	Organization Group	
			No Records Found			
					2 PUBLISH	CANCEL

- Normally, a list of devices that would receive this configuration would be displayed here. Since you have not enrolled a macOS device yet, no devices are displayed.
- 2. Click Publish.

Confirm the Profile was Created

Reso	urces 🕻 Profiles & Baselines						
Pro	ofiles					â	*
Filt	ers » ADD V		LAY	DUT 🗸 🖒 EXF	PORT 🗸		
	Profile Details	Payloads	Managed By	Assignment Type	Assigned Groups		
0	macOS Device Restrictions Apple macOS - Device Restrictions	1	your@email.shown.here	Auto	All Devices		

The macOS Device Restrictions profile is now added to the list of Profiles in your organization group. You can see how many Payloads (excluding General) are configured, the assignment type, and assigned groups. If you need to edit the Profile, you would return to this view in order to make changes.

This Restrictions profile is now published and will be automatically assigned to any macOS device that enrolls in your organization group. You will confirm this Restrictions profile is applying on the device after enrolling a device in a later step.

Create Sensors

Sensors allow you to quickly and securely automate data collection from your endpoints with common scripting languages. macOS Sensors supports Bash, Python 3, and Zsh, and Windows Desktops support PowerShell.

This collected data can be used as conditions in the Freestyle Orchestrator feature to take action based on the condition and value of this data. You can learn more about Freestyle Orchestrator in *Module 1 - Introduction to Freestyle Orchestrator*. You can also use Workspace ONE Intelligence to create reports and dashboards based on your Sensor data.

In this section, you will create a Sensor for macOS which will query the type of processor that is used on the device.

[232]

Navigate to Sensors



The first time you access the Sensors page, an overview will be presented with a link to the VMware docs articles for macOS Sensors and Windows Desktop Sensors. Refer to these links for additional documentation around Sensors.

- 1. Click Resources
- 2. Click Sensors
- 3. Scroll down to the bottom of the page
- 4. Click Get Started

Add a macOS Sensor

[234]

Sensors > Sensors i	
ADD V 1 IGN EDIT DELETE macOS 2 Linux Windows	T

- 1. Click Add
- 2. Click macOS

Add General Information

Name

Description (Optional)

Determine x64 (Intel) vs arm (M Series)

2

Imacos_cpu_arch

Imacos_cpu_arch</td

- 1. Enter **macos_cpu_arch** for the Name
- 2. Optionally enter Determine x64 (Intel) vs arm (M Series) for the description
- 3.Click Next

This sensor will be used to report if the device's CPU architecture is x64 (using the Intel chip) or arm (using the M series chip).

Enter the Sensor Details

LanguageZsh✓Execution ContextSystem✓Response Data TypeString3✓CodeUPLOAD🔊

- 1. Select **Zsh** for the Language
- 2. Select System for the Execution Context
- 3. Select String for the Response Data Type

Copy and Paste the Sensor Code

Language	Zsh	~	
Execution Context	System	~	
Response Data Type	String	~	
Code	UPLOAD (j)		
<pre>1 #!/bin/zsh 2 3 touch /tmp/cpu_arch 4 PROC=\$(/usr/bin/una 5 echo \$PROC > /tmp/c 6 echo \$PROC 4</pre>	a.txt me -m) ppu_arch.txt		
		CANCEL BACK NE	ТХТ

This Sensor is setup to use the Zsh language and is targeting the System (Device-wide) execution context rather than the Current User context setting which will run against the currently logged in user of the device. The Response Data Type indicates what will be returned from the script: A String (text), Integer (number), Boolean (true/false), or Date Time.

In this case, the Sensor will read the CPU architecture, which will either be "x64" or "M1", so it is returning the value as a String.

- 1. Click and drag to highlight the below code block, starting from **#!/bin/zsh** to **echo \$PROC**, and drag and drop it the **Code** section to paste the necessary sensor code.
- 2. Click Next.

Note: We manually entered the code in this exercise but you can also upload a file containing the code instead.



#!/bin/zsh

touch /tmp/cpu_arch.txt
PROC=\$(/usr/bin/uname -m)
echo \$PROC > /tmp/cpu_arch.txt
echo \$PROC

Save & amp; Assign the Sensor

[238]

Variables	ADD			
Key	Value		+=	ŵ
	Max 200 characters			

You can optionally create variables to use with this script, but it is not needed for this use case. Click Save & Assign to proceed.

Assign a macOS Sensor

ssignments	Workflow Assignments	
NEW ASSIGNM	ENT 2/E PRIORITY	

- 1. Notice the warning stating that Employee Owned devices will be automatically excluded from Sensor assignments due to privacy reasons, as Sensors can query sensitive details from the device.
- 2. Click New Assignment.

vmware[®]
Assign to All Devices

Assignment Name

Select Smart Group

Start typing to add a group

All Corporate Dedicated Devices(your@email.show..

All Devices(your@email.shown.he..

All Devices(your@email.shown.here)

Image: Constraint of the product of the pro

- 1. Enter All Devices for the Assignment Name
- 2. Click the Select Smart Group field
- 3. Select the All Devices (your@email.shown.here) group
- 4. Click Next

For ease, you will deploy this sensor to all non-Employee Owned devices that enroll into your organization. In a real deployment, you could target specific Smart Groups that you wish to deploy this Sensor to.

Configure Deployment Triggers

Select which tr	iggers should cause this sensor to run on assigned devices
Triggers	 Periodically (1) Login Log Out Startup User Switch Network Change (1)
	CANCEL BACK SAVE

- 1. Select Periodically for the Triggers
- 2. Click Save

You can select more than one trigger, so consider what would fit your user case best when creating Sensors in your organization.

Confirm Sensor Creation

Signments Workf	low Assignments			>
 Devices with Employ 	ee Owned ownership type will be	automatically excluded from the Sensor a	ssignment for user privacy reasons.	×
Priority	Name	Smart Groups	Trigger	
1	All Devices	1	Periodically	×
				•

1. Your All Devices sensor is now created. If more than one Assignment was created, they would all show up here and you could

use the left handlebar to re-arrange the Priority between them as necessary.

2. Click Close to return to the Resources page.

You have now successfully created and assigned a macOS Sensor which will report back if the device's CPU architecture is "x64" (Intel) or "arm" (M1). Once you enroll a device in later steps, you will view this sensor and confirm the value.

Sensors are powerful options for securely automating data collection for your endpoints. Consider what other use cases you could accomplish with sensors, and check our the *macOS Sensors examples* in the documentation for ideas.

Create Scripts

[243]

Scripts allow you to automate custom configuration tasks on your devices with common scripting languages, including PowerShell, Bash, Python 3, and Zsh. These scripts can be deployed automatically, on demand through Intelligent Hub for self service, or in Freestyle Orchestrator to power complex sequences.

Navigate to Scripts



The first time you access the Scripts page, an overview will be presented with a link to the VMware docs articles for *macOS Scripts* and *Windows Desktop scripts*. Refer to these links if you desire more documentation around Scripts.

- 1. Click Resources
- 2. Click Scripts
- 3. Scroll down to the bottom of the page
- 4. Click Get Started

Add a macOS Script

[245]



1. Click Add

2. Click macOS

Add General Information

General

Name

macos_set_hostname

Description (Optional)

Sets the device hostname from a variable

App Catalog Customization

Image: Cancel

1. Enter macos_set_hostname for the Name.

2. Optionally enter Sets the device hostname from a variable for the description.

- 3. Leave the App Catalog Customization disabled. If you wish to configure how the script is displayed to users in Intelligent Hub, such as its display name and icon, you can configure those settings by enabling App Catalog Customization. You will provision this script through a Freestyle Orchestrator workflow, so we will not be focused on providing this script to users in Intelligent Hub for self service.
- 4. Click Next.

Enter the Script Details



- 1. Select Zsh for the language
- 2. Select System for the Execution Context
- 3. Enter **30** as the Timeout value
- 4. Click Upload to select a file containing the code you wish to use for this Script. Optionally, you could enter the code in the Code window below this section.

We will explain each of these settings in an upcoming step.

Upload the macos_set_hostname.zsh File



- 1. Click Documents
- 2. Click HOL
- 3.Click macOS
- 4.Select macos_set_hostname.zsh
- 5.Click Open



Confirm Script Details

Language	Zsh	~			
Execution Context	System	~			
Timeout	30				
Code	UPLOAD				
1 #!/bin/bash 2 /usr/sbin/scutilset 3 /usr/sbin/scutilset 4 /usr/sbin/scutilset	LocalHostName \$HOSTNAME ComputerName \$HOSTNAME HostName \$HOSTNAME	1	CANCEL	PREVIOUS	

1. Confirm that the script uploaded. Alternatively, you can choose to type the code directly into the window.

2. Click Next.

You will create a value for the **\$HOSTNAME** variable in the next step.

Set a Value for the Hostname Variable

			2
\$HOSTNAME	Value		4
	{DeviceSerialNumber}	Device Serial Number	
	{UserPrincipalName}	User Principal Name	
	{DeviceSerialNumberLastFour}	vice Serial Number (Last Four Digits)	
	{DevicePlatform}	Device Platform	
	{DeviceModel}	Device Model	1
	{DeviceOperatingSystem}	Device Operating System	
	{DeviceUidLastFour}	Device UDID (Last Four Digits)	
	{DeviceReportedName}	Device Reported Name	
\$HOSTNAME	{UserPrincipalName}{DeviceSerial	Numberl astEour} 6	±_ m̂
	Max 200 characters		

LZJ

The value of the \$HOSTNAME variable can be statically set, or dynamically set by using lookup values. Lookup values retrieve the value from the device at runtime to allow for dynamic values. For example, the **{UserPrincipalName}** lookup value will substitute the actual user principal name of the enrolled user on the device.

- 1. Enter **\$HOSTNAME** for the key
- 2. Click the Lookup button to see a list of options
- 3. Select {UserPrincipalName} from the list
- 4. Click the Lookup button again
- 5. Select {DeviceSerialNumberLastFour} from the list

6.Confirm your value is **{UserPrincipalName}{DeviceSerialNumberLastFour}**. You can also optionally type this value in instead.

7. Click Save

This will cause the **\$HOSTNAME** variable to dynamically pull the UPN and Last 4 Device Serial Numbers to create the record. So if our UPN was **testuser** and our last four serial numbers were **1234**, the new **\$HOSTNAME** value retrieved from the device would be **testuser1234**.

Confirm Script was Created

Â

Scripts @				
ADD Y EDIT AS	SIGN			2
Name T	Language 🝸 Platform 🍸	Managed By	Last Modified	Assignment
macos_set_hostname	Zsh macOS	your@email.shown.here	Jun 14, 2021, 5:21:11 PM by jsheets@vmware.com	0
				ltems 1 – 1 of 1

1. Confirm that the script was created successfully.

Deploy a 3rd Party macOS Application (Internal Applications)

VMware integrates with the *Open-Sourced "munki" project* for third-party application management on enrolled macOS devices. Administrators can manage third-party (non-AppStore) software using the *internal apps* view in Workspace ONE UEM. The integration allows administrators to consume a global CDN for software delivery, without requiring the administrators to fully understand munki's inner workings and configuration.

In this exercise, you will enable the application catalog and deploy an Application to your device.



Note: Workspace ONE UEM also provides a second facility for delivering software/configurations and running scripts/commands on a macOS device. This method, known as Product Provisioning, is outside the scope of this exercise. For more information, refer to *Deploying Third-Party macOS Applications: VMware Workspace ONE Operational Tutorial* on VMware TechZone.

Recommended Methods to Deliver Software

[253]

Administrators can deliver software to macOS using multiple methods. As a quick reference, VMware recommends using the following methods to deliver software to macOS devices:

- Mac App Store Applications: VMware recommends delivering any application that may be available on the Mac App Store be delivered as a Volume-Purchased app from Apple Business Manager. Apps should be assigned via device-based licenses and set to auto-update if the application is not business-critical.
- Non-Store Applications: As much as possible, 3rd-Party applications which are not available through the app store should be delivered as an Internal Application (leveraging the underlying munki integration).

Enable macOS Software Management

<u>NOTE</u>: The steps in this section have already been completed for you in the Hands-On Lab. You DO NOT need to Enable Software Management as it has already been completed on your behalf.

Prior to deploying a macOS Application, VMware Workspace ONE UEM administrators must enable their environments for Software Management. The following items are pre-requisites for macOS Software Management:

- 1. For On-Premise Installations, "File Storage" must be enabled (Settings > Installation > File Path).
- 2. "Software Management" must be enabled (Settings > Devices & Users > Apple > Apple macOS > Software Management)
- 3.VMware AirWatch Agent for macOS version 3.0 (or newer). Note the best experience is provided via macOS Intelligent Hub.

Continue to the next step.

Access All Settings (REFERENCE ONLY)

[255]



<u>NOTE</u>: The steps in this section have already been completed for you in the Hands-On Lab. You DO NOT need to Enable Software Management as it has already been completed on your behalf.



- 1. Click Groups & Settings
- 2. Click All Settings

Enable File Storage (REFERENCE ONLY)

[256]



<u>NOTE</u>: The steps in this section have already been completed for you in the Hands-On Lab. You DO NOT need to Enable Software Management as it has already been completed on your behalf.

- 1. Ensure you are at the Global Organization Group unless your particular setup requires configuring at child Organization Groups.
- 2. Expand Installation
- 3. Click File Path
- 4. Scroll the file paths screen and click Enabled for File Storage Enabled
- 5. Enter the path of a file share accessible from your Device Services and Console servers.
- 6. Click Disabled for File Storage Caching Enabled unless you have planned and sized your Device Services server accordingly.
- 7. Click Enabled for File Storage Impersonation Enabled
- 8. Enter the username credentials to impersonate in order to access the file storage path
- 9. Enter the password for the impersonation user
- 10Confirm the password for the impersonation user
- 11.Click Test Connection and ensure you see Connection Succeeded

12Click Save

Enable Software Management (REFERENCE ONLY)

> System	Devices & Users > Apple > Apple macOS	
Devices & Users	Software Management 📀	
> General	8	
× Apple 2	Saved Successfully	
APNs For MDM	6	
> Apple iOS	Current Setting Override	
 Apple macOS 	6	
Agent Application	Enable Software ENABLED DISABLED	
Agent Settings 4		
Software Management		
AppleCare	Child Permission* OInherit only Override only 💽 Inherit or	Override
Automated Enrollment		
MDM Sample Schedule	SAVE	
Device Enrollment Program		

<u>NOTE</u>: The steps in this section have already been completed for you in the Hands-On Lab. You DO NOT need to Enable Software Management as it has already been completed on your behalf.

- 1. Expand Devices & Users
- 2. Expand Apple
- 3. Expand Apple macOS
- 4. Click Software Management
- 5. Click Override
- 6.Click Enabled for Enable Software Management
- 7. Click Save
- 8. Ensure settings are Saved Successfully

Prepare macOS Applications for Deployment

<u>NOTE</u>: These steps are optional as the necessary application files are included for you in the Hands-on Lab. If you wish to see how to extract the necessary files for app deployment on macOS, continue with these steps. If not, *CLICK HERE* to continue to uploading the app files.

<u>NOTE</u>: These steps require a macOS device.



[258]

In this section, you will download the Workspace ONE Admin Assistant tool and use it to prepare another 3rd-Party application for deployment.

Download Evernote

[259]

<u>NOTE</u>: These steps are optional as the necessary application files are included for you in the Hands-on Lab. If you wish to see how to extract the necessary files for app deployment on macOS, continue with these steps. If not, *CLICK HERE* to continue to uploading the app files.

NOTE: These steps require a macOS device.

Councies d Evernote for free Top Hit O Untitled evernote.com/download	
SEVERNOTE WHY EVERNOTE FEATURES + PLANS + Help Log In Download	

On a macOS device, open Safari or a web browser of your choice.

1. Enter https://evernote.com/download in the URL bar. Press ENTER.

2. Click Download.

The DMG file for Evernote will download to the Downloads folder.

Download the Workspace ONE Admin Assistant Tool

<u>NOTE</u>: These steps are optional as the necessary application files are included for you in the Hands-on Lab. If you wish to see how to extract the necessary files for app deployment on macOS, continue with these steps. If not, *CLICK HERE* to continue to uploading the app files.

<u>NOTE</u>: These steps require a macOS device.

••• • • < >	🛛 🦳 https://getwsone.com/AdminAssistant/VMwareAirWatchAdminAssistant.dmg	,	• û + ū
🧐 Best Note Taking App - Organize Y	ur Notes with Evernote	Ø Untitled	_

In the same tab as you downloaded Skitch, paste the link in Safari to download the **Workspace ONE Admin Assistant** tool and press **ENTER** on the keyboard: https://getwsone.com/AdminAssistant/VMwareAirWatchAdminAssistant.dmg

The DMG file will download to the Downloads folder.

Begin Installing Workspace ONE Admin Assistant Tool

<u>NOTE</u>: These steps are optional as the necessary application files are included for you in the Hands-on Lab. If you wish to see how to extract the necessary files for app deployment on macOS, continue with these steps. If not, *CLICK HERE* to continue to uploading the app files.

<u>NOTE</u>: These steps require a macOS device.



On the dock, perform the following:

- 1. Click the Downloads folder.
- 2. Click VMwareWorkspaceONEAdminAssistant.dmg.

Launch Installer Package

<u>NOTE</u>: These steps are optional as the necessary application files are included for you in the Hands-on Lab. If you wish to see how to extract the necessary files for app deployment on macOS, continue with these steps. If not, *CLICK HERE* to continue to uploading the app files.

<u>NOTE</u>: These steps require a macOS device.



Double-click the VMware Workspace ONE Admin Assistant.pkg file

Continue Installer

<u>NOTE</u>: These steps are optional as the necessary application files are included for you in the Hands-on Lab. If you wish to see how to extract the necessary files for app deployment on macOS, continue with these steps. If not, *CLICK HERE* to continue to uploading the app files.

<u>NOTE</u>: These steps require a macOS device.



Click Continue



Review and Continue Installer

<u>NOTE</u>: These steps are optional as the necessary application files are included for you in the Hands-on Lab. If you wish to see how to extract the necessary files for app deployment on macOS, continue with these steps. If not, *CLICK HERE* to continue to uploading the app files.

<u>NOTE</u>: These steps require a macOS device.



1. Review the License Agreement and click Continue

2. Click Agree.

[264]

<u>NOTE</u>: These steps are optional as the necessary application files are included for you in the Hands-on Lab. If you wish to see how to extract the necessary files for app deployment on macOS, continue with these steps. If not, *CLICK HERE* to continue to uploading the app files.

<u>NOTE</u>: These steps require a macOS device.

🔴 🕘 🔍 🤤 lr	nstall VMware Workspace ONE Admin Assistant
	Standard Install on "Macintosh HD"
 Introduction License Destination Select Installation Type Installation Summary 	This will take 110.2 MB of space on your computer. Click Install to perform a standard installation of this software for all users of this computer. All users of this computer will be able to use this software.
	Go Back Install

Click Install.



Enter Admin Credentials

<u>NOTE</u>: These steps are optional as the necessary application files are included for you in the Hands-on Lab. If you wish to see how to extract the necessary files for app deployment on macOS, continue with these steps. If not, *CLICK HERE* to continue to uploading the app files.

<u>NOTE</u>: These steps require a macOS device.

	Installer is trying to install new software.
	Enter your password to allow this.
	User Name: administrator 1
_	Password: ••••••• 2
	Cancel Install Software

If prompted for administrative credentials, enter the credentials required to install.

- 1. Enter the username for the device
- 2. Enter the password for the device
- 3. Click Install Software

Close the Installer

<u>NOTE</u>: These steps are optional as the necessary application files are included for you in the Hands-on Lab. If you wish to see how to extract the necessary files for app deployment on macOS, continue with these steps. If not, *CLICK HERE* to continue to uploading the app files.

<u>NOTE</u>: These steps require a macOS device.



- 1. Click Close when the installer completes
- 2. Click Move to Trash to clean up the installer

Launch VMware Admin Assistant Tool

<u>NOTE</u>: These steps are optional as the necessary application files are included for you in the Hands-on Lab. If you wish to see how to extract the necessary files for app deployment on macOS, continue with these steps. If not, *CLICK HERE* to continue to uploading the app files.

<u>NOTE</u>: These steps require a macOS device.



- 1. Launch Launchpad
- 2. Enter Workspace in the search bar
- 3. Click Workspace ONE Admin Assistant

Drag and Drop Evernote

<u>NOTE</u>: These steps are optional as the necessary application files are included for you in the Hands-on Lab. If you wish to see how to extract the necessary files for app deployment on macOS, continue with these steps. If not, *CLICK HERE* to continue to uploading the app files.

<u>NOTE</u>: These steps require a macOS device.



1. With the Workspace ONE Admin Assistant open, click the Downloads folder on the Dock.

- 2. Click and Drag the Evernote DMG.
- 3. Drag and Drop the Evernote DMG onto the Workspace ONE Admin Assistant app file upload section.

The Workspace ONE Admin Assistant Tool begins parsing the file to extract information necessary to deploy the software.

Monitor Process and Reveal Files

<u>NOTE</u>: These steps are optional as the necessary application files are included for you in the Hands-on Lab. If you wish to see how to extract the necessary files for app deployment on macOS, continue with these steps. If not, *CLICK HERE* to continue to uploading the app files.



Parsing	
Evernote-10.16.7-mac-ddl-ga-2732.dmg	
Parsing completed Preveal in Finder Done	
	Add More

- 1. Monitor the progress of the parsing. The result will change to a green checkmark when it is completed, which may take 15 30 seconds.
- 2. In the pop-up window, click Reveal in Finder



Review Generated Files

<u>NOTE</u>: These steps are optional as the necessary application files are included for you in the Hands-on Lab. If you wish to see how to extract the necessary files for app deployment on macOS, continue with these steps. If not, *CLICK HERE* to continue to uploading the app files.

NOTE: These steps require a macOS device.

•••	< > Evernote-10.16.7			~ C
	📄 Workspace ONE Admin Assistant 💦	Evernote-10.16.7	Evernote-110.16.7.dmg	_
ด AirDrop			Evernote-10.16.7.plist	2)
🙏 Applications	1 1		Evernote.png	
🖃 Desktop				
🕒 Documents				
Downloads				
Recents				
⊟ Connect 2				
🗔 holadmin				
Network				
Blue				
Purple				

In the Finder window:

1. Note the Path of the Output for the Evernote files: "/Documents/Workspace ONE Admin Assistant/Evernote-##.##.##

2. Note the output from the Assistant tool as described below:

Evernote-**##**.**##**.**dmg** -- The Application has been packaged into a DMG file. (Note: MPKG and PKG file **Evernote**-**##**.**##**.**plist** -- A metadata file (referenced as the pkginfo.plist in munki documentation) **Evernote.png** -- An icon image extracted from the app used for user-friendly display in the console

All output for the Admin Assistant tool follows the convention ~/Documents/Workspace ONE Admin Assistant/{AppName-Version}. At the time this lab was created, Evernote was at version 10.16.7 but may be different depending on when you take this lab.

Deploy a 3rd Party macOS Application

You will now use the provided Workspace ONE Assist dmg and plist files to upload Workspace ONE Assist as a 3rd party macOS application in Workspace ONE UEM.

Add an Application File



Return to the the Workspace ONE UEM Administrator Console in the Hands-on Lab interface:

- 1. Click Resources
- 2. Expand Apps
- 3. Click Native
- 4. Click the Internal tab
- 5. Click Add
- 6.Click Application File

Upload the Application File

Add Application	ſ	
Organization Group ID	your@email.shown.here	
Application File *		UPLOAD

Click Upload.

Choose File for Upload

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Click Choose File.



Select the Assist PKG File



- 1. Click Documents
- 2. Click HOL
- 3.Click macOS
- 4. Click Assist-21.03.00.014.pkg
- 5.Click Open



Upload the Assist PKG File

[277]

Add	×	
Type OLocal File Link		
You have used 0 MB of 20000 MB		
SAVE	CANCEL	

Click Save to upload the select Assist-21.03.00.014.pkg file.

NOTE: The pkg file may take 1-2 minutes to upload! Continue to the next step once the upload finishes.

Continue After Uploading Application

Add Applicatior	1		×
Organization Group ID *	your@email.shown.here		
Application File *	Assist-21.03.00.014.pkg	UPLOAD	
		CONTINUE	CANCEL

Click Continue.

vmware[®]

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Configure Deployment Type

Add Applicatior	١	×
Application File	Assist-21.03.00.014.pkg	
Deploy this file as a Bo Software Management	otstrap Package for Expedited Delivery or manage the complete lifecycle with Full	
Select how you want to	deploy this file below.	
Deployment Type	EXPEDITED DELIVERY FULL SOFTWARE MANAGEMENT	
Such as .dmg, .pkg, and Additional metadat Download and Inst then upload the me	a is required to configure full software lifecycle management for this file. all the VMware AirWatch Admin Assistant Tool to generate a metadata file (.plist), etadata file once complete. Click here for more info	
Generate Metadata	* Workspace ONE Admin Assistant for macOS	
Metadata File *	UPLOAD 3	
	CONTINUE	EL

1. Select Full Software Management for the Deployment Type

- 2. The Workspace ONE Admin Assistant for macOS can be downloaded from this page if needed. This is for informational purposes only, you do not need to download the Workspace ONE Admin Assistant as we have already reviewed how to utilize the app on a macOS device in previous steps.
- 3. Click Upload to provide the Metadata file for this app.
Choose Metadata File

[280]



Click Choose File.

Select the Workspace ONE Assist plist File



- 1. Click Documents
- 2. Click HOL
- 3.click macOS
- 4. Click Assist-21.03.00.014. plist
- 5.Click Open



Upload the Assist plist File

[282]



Click Save to upload the selected Assist-21.03.00.014 plist file.

Continue after Metadata File Upload

Add Application		×
Application File	Assist-21.03.00.014.pkg	
Deploy this file as a Boo Software Management.	tstrap Package for Expedited Delivery or manage the complete lifecycle with Full	
Select how you want to o	deploy this file below.	
Deployment Type	EXPEDITED DELIVERY FULL SOFTWARE MANAGEMENT	
Configure advanced dep such as .dmg, .pkg, and	loyment options to manage the complete software lifecycle for macOS file types mpkg. Click here for more info	
 Additional metadata Download and Instal then upload the met 	is required to configure full software lifecycle management for this file. Il the VMware AirWatch Admin Assistant Tool to generate a metadata file (.plist), adata file once complete. Click here for more info	
Generate Metadata	* Workspace ONE Admin Assistant for macOS	
Metadata File *	Assist-21.03.00.014.plist	
	CONTINUE	EL

- 1. The Assist metadata file is now uploaded.
- 2. Click Continue.

Configure the Application

Add Application - Assist v 21.03.00.014 macOS Internal | Managed By: your@email.shown.here | Application ID: com.vmw.macos.Assist | A... Details Files Scripts Deployment Terms of Use Images Name * 1 Assist Managed By your@email.shown.here Application ID * com.vmw.macos.Assist 21.03.00.014 App Version * Current UEM Version 21 3 0 14 (i) ls Beta YES NO Update Notifications NOTIFY NONE SAVE & ASSIGN CANCEL

The Workspace ONE Assist application and corresponding metadata have been uploaded to Workspace ONE UEM!

 The Details tab contains the application ID, version, supported device models, and more. This information is gathered from the provided plist metadata. Feel free to review the Details and other tabs as desired but do not make any changes!
 Click the Images tab.



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Configure an Application Icon

macOS	Ad C Interna	Applic	ation - By: your@en	Assist v 2 nail.shown.here	Application ID: com.vm
Details	Files	Images	Scripts	Deployment	Terms of Use
Icon					
		1			
	L	1			
		a files			
C	lick or dr	ag mes			

You will need to add an icon for the application, which will be displayed in the app catalog and on the user's device once installed. Click the click or drag files here area to upload an image.

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Select the Assist Icon



1. Click Documents

- 2. Click HOL
- 3.Click macOS
- 4. The Workspace ONE Admin Assistant tool will also extract and provide an image to use. That image has been made available to you as Assist.png. Click Assist.png.
- 5. Click Open

Confirm the Icon and Save

macOS	Adc Interna	Applic	cation - By: your@en	Assist v 2 nail.shown.here	Application ID: com.vmw.macos.Assist A
Details	Files	Images	Scripts	Deployment	Terms of Use
lcon					
	Assist.	png	1		SAVE & ASSIGN

1. You can preview the uploaded icon here.

2. Click Save & Assign to configure which devices and users will receive the uploaded Workspace ONE Assist application.

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Configure Application Assignment

Distribution		
Name *	All Devices 1	
Description	Assignment Description	10
Assignment Groups *	To whom do you want to assign this app?	0
Deployment Begins *	All Corporate Dedicated Devices(your@email.shown.here) All Corporate Shared Devices(your@email.shown.here)	e West
App Delivery Method *	All Devices(your@email.shown.here)	j
Display in App Catalog	All Employee Owned Devices(your@email.shown.here)	í
	your@email.shown.here	

The Application Assignment determines which users and devices will receive the Workspace ONE Assist and how the app will be delivered. You will create an assignment rule that will publish the application automatically (installs the app without requiring user input) to all devices in your organization.

- 1. Enter a descriptive name for the assignment, such as **All Devices**.
- 2. Click the Assignment Groups section to see a list of available assignment groups.
- 3. Select All Devices (your@email.shown.here). This will cause the app to be distributed to all eligible devices enrolled in your organization.



Update App Delivery Method

Distribution Restrictions	Distribution	
	Name *	All Devices
	Description	Assignment Description
	Assignment Groups *	To whom do you want to assign this app? All Devices(your@email.shown.here) X
	Deployment Begins *	07/01/2021 💼 12:00 AM ~ (GMT-12:00) International Date Line West
	App Delivery Method *	• Auto On Demand
	Display in App Catalog	

1. Select Auto for the App Delivery Method.

Auto means the application will be published and installed on the device as soon as possible and without any user interaction needed. On Demand makes the app available to the device but does not begin an install, which can either be triggered by the user through the App Catalog or Self Service Portal or by an Administrator through the Workspace ONE UEM administration console.

2. Keep the Display in App Catalog option as Enabled.

This will show the Workspace ONE Assist app to the user in the app catalog, allowing them to install or reinstall the app if needed.

3. Click Restrictions.

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Enable App Restrictions

Restrictions can be applied to the assignment to change the behavior of the application.

 Click to enable the Remove on Unenroll restriction. This means that the Workspace ONE Assist app will be automatically removed from the user's device when the device is unenrolled (meaning it is no longer managed by Workspace ONE UEM).
 Click Create.

Save the App Assignment

ASSIGNMENT	NT				
Priority	Assignment Name	Description 1	Smart Groups	App Delivery Method	EMM Managed Access
0 ~	All Devices Default		1	Auto	🕑 Enabled

- You can confirm and edit your Assignments from this view. You can have multiple assignments that can be ordered by priority to determine which one is applied to devices that overlap multiple assignment types. For this simple use case, you will just leverage the single assignment to apply to all macOS devices in your organization.
- 2. Click Save.



Publish the Application

			Assignment Status All	✓ Search List C
ssignment Status	Friendly Name	User	Platform	Organization Group
		\bigtriangledown		
				Page Size 20 ∨

- 1. A list of devices that will receive this app are displayed here. The list is empty because you have not yet enrolled a macOS device.
- 2. Click Publish.

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Confirm the Application was Published

[293]

	ASSIST ∨ 21.03.(ternal ⊘Status: Active	00.014 Managed By: your@ema	EI	DIT ASSIGN	ADD VERSION	MORE
ummary	Details Devices	Assignment Files	More 🗸			
Assiss	Mortiflou Acci	Fuchariana				
Assign	Workflow Assi	gnments Exclusions				
Assign	ments Workflow Assi	gnments Exclusions Description	Smart Groups	App De	livery Method	Ċ

The Workspace ONE Assist app is now published! Any macOS device enrolled into your organization will now automatically be assigned the Workspace ONE Assist app and it will install without user interaction. When the device is unenrolled, the app will automatically be removed from the device.

You can return to this view (Resources > Native > Internal) and click the Workspace ONE Assist app to make changes to it in the future as needed, such as updating the assignments, adding a new app version, etc.

Continue to the next step.

Configure Post-Enrollment Onboarding Experience

Administrators can now keep users informed on the device provisioning process after enrollment completes by enabling the postenrollment onboarding experience in Workspace ONE UEM Intelligent Hub. After enrollment is finished, Intelligent Hub will display a new window which tracks all incoming application installs. Administrators can enable and customize the experience in the Workspace ONE UEM administrator console.

This feature requires Workspace ONE UEM 21.05 or later and and Workspace ONE Intelligent Hub 21.04 or later.

Enable Post-Enrollment Onboarding Experience



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- 1. Click Groups & Settings
- 2. Click All Settings

Navigate to Enrollment Settings

[296]



1. Expand Devices & Users

2. Expand General

3. Click Enrollment

Configure Optional Prompt

evices & Users 💙 General				
nrollment 💿				
Authentication Management	Mode Hub Integration Terms o	of Use Grouping	Restrictions	Optional Prompt
Current Setting	O Inherit Override			
Prompt for Device Ownership Type	ENABLED DISABLED			
Display Welcome Message	ENABLED DISABLED			
Display MDM Installation Message	ENABLED DISABLED			
Enable Enrollment Email Prompt	ENABLED DISABLED			
Enable Device Asset Number Prompt	ENABLED DISABLED			

- 1. Click the Optional Prompt tab
- 2. Select Override for Current Setting to make changes

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Configure the Post-Enrollment Onboarding Experience

[298]

macOS —		
Enable Post-Enrollment Onboarding Experience	ENABLED DISABLED	Intelligent Hub 21.04+
Preview	Welcome Header Welcome Subheader Body text: Body text: <td></td>	
Welcome Header	Hello, {FirstName}	
Welcome Subheader	Welcome to ACME Corp	6
Body Text	IT is installing all the tools you need to get started. We will let you know as soon as it's ready for use.	com).
Child Permission	○ Inherit only ○ Override only	SAVE

- 1. Scroll down to the bottom to find the macOS Settings
- 2. Select Enabled for the Enable Post-Enrollment Onboarding Experience option, then scroll down.
- 3. Leave the Welcome Header as the default Hello, {FirstName}, which will greet the user by their first name
- 4. Update the Welcome Subheader to Welcome to ACME Corp
- 5. Use the default Body Text or supply your own. Note that there is a 500 character count limit
- 6. When configuring the fields, you can use the **Plus (+)** button to see supported Lookup Values for this field. Lookup values, such as **{FirstName}**, will retrieve the value at runtime and replace it with the current value, allowing for easy dynamic variable retrieval.
- 7. Click Save
- 8. Click Close

The post-enrollment onboarding experience is now enabled and configured. This will provide a better user onboarding experience as users can easily track the progress on applications that are downloading and installing.

Installing the Workspace ONE Intelligent Hub for macOS

<u>NOTE</u>: These steps require a macOS device. If you do not have a macOS device, you can follow these steps in the manual to see the end result.

In this exercise, you will download and install the Workspace ONE Intelligent Hub on a macOS device.

Login to a macOS Device

<u>NOTE</u>: These steps require a macOS device. If you do not have a macOS device, you can follow these steps in the manual to see the end result.

Login to a macOS device as an administrator account.

Download the Workspace ONE Intelligent Hub

<u>NOTE</u>: These steps require a macOS device. If you do not have a macOS device, you can follow these steps in the manual to see the end result.

Open Safari or your preferred web browser.

- 1. Enter https://www.getwsone.com in the URL field, then press ENTER.
- 2. Click **Download Hub** under the macOS section. The Workspace ONE Intelligent Hub installer begins to download and will save to the downloads folder by default.

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Allow Downloads (IF NEEDED)

end result.

Do you want to allow downloads on "getwsone.com"? You can change which websites can download files in Websites Preferences. Cancel Allow

NOTE: These steps require a macOS device. If you do not have a macOS device, you can follow these steps in the manual to see the

If prompted to allow downloads on "getwsone.com", click Allow. Otherwise, continue to the next step.

Install the Workspace ONE Intelligent Hub

<u>NOTE</u>: These steps require a macOS device. If you do not have a macOS device, you can follow these steps in the manual to see the end result.

1. Click the Downloads folder in the dock (next to the Trash Bin).

2. Click the VMwareWorkspaceONEIntelligentHub.pkg file to begin the installer.

Continue at Introduction Screen

<u>NOTE</u>: These steps require a macOS device. If you do not have a macOS device, you can follow these steps in the manual to see the end result.

Click Continue.

Continue and Agree to Terms

<u>NOTE</u>: These steps require a macOS device. If you do not have a macOS device, you can follow these steps in the manual to see the end result.

		Softwa	are License Agreement	
Introd	luction		English 🗘	
Licen	se		VMWARE GENERAL TERMS	
Ins Ins Sur	To continue inst software license Click Agree to co the Installer. Read License	alling ti agreer ntinue o	he software you must agree to the terms of the ment. For click Disagree to cancel the installation and quit	erms uding ent") er of ; and nt. d for
			Offerings in an application service provider, service bureau, hosted or similar capacity for third parties.	IT service,
		1.4.	Benchmarking. Customer may use the Offerings to condu- performance testing and benchmarking studies. Customer may only distribute study results with VMware's approval. Customer may sub- to VMware by generating benchmarker approval.	y publish or nit requests

1. On the License page, click Continue.

2. Click Agree (to the license terms).

1. On the Standard Install page, click Install.

Begin Install

<u>NOTE</u>: These steps require a macOS device. If you do not have a macOS device, you can follow these steps in the manual to see the end result.

1. Click Install. You are now prompted to enter the computers administrator credentials.

2. Enter the username for the device.

3. Enter the password for the device.

4. Click the Install Software button.

NOTE: The install may take a few minutes, please be patient while the install completes.

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Close and Move to Trash

<u>NOTE</u>: These steps require a macOS device. If you do not have a macOS device, you can follow these steps in the manual to see the end result.

- 1. Click Close when the installer finishes.
- 2. Click Move to Trash to move the installer to the trash.

Enroll a macOS Device

[308]

In this exercise, you enroll a macOS device into Workspace ONE UEM. Enrollment is the action that brings a device under management and control by Workspace ONE UEM. There are a number of ways to enroll the various platforms (macOS included), but for this exercise we cover a basic enrollment scenario.

This enrollment flow is considered User-Approved per the functionality introduced in macOS High Sierra.

Begin macOS Enrollment Process

1. When the Hub Notification displays, click Enroll Now to start the enrollment process.

2. Alternatively, you can click the Hub Icon from the top bar and click Enroll Now to start the enrollment process.

Enter the Enrollment Server URL

1. Enter labs.awmdm.com in the Email or Server Address field

2. Click Next

[310]

Note: The Enrollment Wizard may take a small amount of time to launch based on the capabilities of the hardware. If you do not see the Enrollment Wizard immediately, be patient and wait for it to appear.

Find your Group ID in the Workspace ONE UEM Console

AND NAWA	S-ON LABS	your@email.shown.here 🔻
٢	✓ Getting Started	Organization Group your@email.shown.here
GETTING STARTED	Workspace ONE	Group ID
~	Device	groupid1234 2

Return to the Workspace ONE UEM Console,

- 1. To find the Group ID, hover your mouse over the Organization Group tab at the top of the screen. Look for the email address you used to log in to the lab portal.
- 2. Your Group ID is displayed at the bottom of the Organization Group pop up.

NOTE: The Group ID is required when enrolling your device in the following steps.

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Enter Enrollment Server Details

1. Enter your Group ID. This was documented in the previous steps titled Retrieve Your Group ID.

2. Click Next.

Enter Enrollment Credentials

- 1. Enter **testuser** for the enrollment username.
- 2. Enter **VMware1!** for the password.

3. Click Next.

Enable Device Management

Click Next to enable device management.

[314]
Install the Workspace Services Profile

•••	< Profiles	
Q Search	Downloaded	
🕑 General	Workspace Services Profile not installed. Double-click to review.	
O Appearance	+ -	
(1) Accessibility		
Control Center		?
💽 Siri & Spotlight		
🖐 Privacy & Security		
Desktop & Dock		
Wallpaper		
Screen Saver		
Battery		
Lock Screen		
Touch ID & Password		

[315]

Are you sure	you want to install this profile?
Workspace Servic Workspace Verified	es
Description Workspace and activat on your dev	profile to separate work and personal data e access to work applications and services vice.
Signed	*.awmdm.com
Received	May 10, 2023 at 9:17 AM
Install 2	Ignore Cancel

Profiles		
Profiles is trying to enroll you in management (MDM) serv	a remote ice.	
Enter your passworth allow	v this.	
Password 4		
Cancel En	oll 5	

• • <	>	Profiles	Q þearch

After a few seconds, the Profiles System Preferences page will be displayed and prompt you to install the Workspace Services profile, which enrolls the device into mobile device management (MDM) with Workspace ONE UEM.

- 1. Click Install for the Workspace Services profile.
- 2. Click Install when prompted.
- 3. Enter the username of the device user.
- 4. Enter the password of the device user.
- 5.Click Enroll.
- 6.Click Close on the System Preferences window to close it.



Continue after Device Enrollment



Return to the Workspace ONE Intelligent Hub app and click Done when the installation completes.



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Accept Privacy and Data Sharing Prompts





When prompted:

- 1. Click I Understand for the Privacy Policy
- 2. Click I agree for the Data Sharing Policy

Validate Mac Enrollment

Follow the next steps to verify that the Mac has been successfully enrolled.



In upper-right corner:

- 1. Note the Workspace ONE icon in the menu bar. Click the icon to view the menu.
- 2. Note the menu shows your device as **Enrolled**.

Key Takeaways

- Agent-based macOS enrollment is streamlined and intuitive.
- Workspace ONE UEM supports a number of enrollment methods for macOS devices: web-based, agent-based, staged (preinstalled agent), enrollment on-behalf, and enrollment using the Apple Device Enrollment Program.
- Agent logs can be collected directly from the Workspace ONE Intelligent Hub. This eases helpdesk troubleshooting by allowing end-user to quickly send diagnostic information to helpdesk and/or administrative users.

Validate Configurations on an Enrolled macOS Device

The Workspace ONE Intelligent Hub will now display the onboarding settings that were configured previously in the Workspace ONE UEM administrator console.

[313]

[320]

	Activity Monitor App installation complete
	Completed
Hello, Test	Assist 44.3 MB v 21.3.0.14
Welcome to ACME Corp	Installed on May 10, 2023
IT is installing all the tools you need to get started. We will let you know as soon as it's ready for use.	
App installation complete	2
GET STARTED 4	

- 1. Confirm that the Header (Hello, {FirstName}), Subheader (Welcome to ACME Corp), and Body Text display your configured message for a personalized onboarding experience.
- 2. The app installation progress is shown here.
- 3.All apps that were configured to install on enrollment are shown in the Activity Monitor for easy and clear monitoring.
- 4. Once the Workspace ONE Assist app finishes installing, click Get Started.

Note: Users can click **Get Started** at any point to continue to the Hub app catalog before everything is completed, but this provides a clear method for monitoring if their device is fully configured or not before they begin using it.

	Activity Monitor App installation complete
Hello, Test	Completed Assist 44.3 MB v 21.3.0.14
UT is installing all the tools you need to get started. We will let you know as soon as it's ready for use.	Installed on May 10, 2023
App installation complete	
GET STARTED 4	

View Intelligent Hub App

•••	Apps	Q Search	304
☆ Favorites	Recommended All Apps Mac Apps Categories ~)	
C Apps	Recommended		
Support	Assist REINSTALL ↓ 44.3 MB V 21.03 ··· ☆ 5		
	All Apps		
	Assist REINSTALL □ 44.3 MB V 21.03 ···· 公		
TU Test User	Mac Apps		

The modern unified app catalog provided by Hub Services is displayed due to the configurations that you made. This enables the following features:

- Favorites
- Apps
- For You (Notifications)
- Support
- 1. Click the Apps tab. A list of available apps are shown on this page for the user to interact with. This could include virtual apps made available through Horizon in addition to native apps!
- 2. A list of filters are available based on the apps you have published to help the user find what they need.
- 3. The Refresh button will reload the app catalog.
- 4. The Activity Monitor can be viewed to track progress on new app installs that the user or administrator triggers on the device.

5. Apps can be added to your Favorites for easy access. Click the star icon to add Assist as a Favorite App.

[321]

Other Intelligent Hub Features (Optional)

•••	Apps	Q Search O 生
✓ Favorites	Recommended All Apps Mac Apps Categories ~	
Apps	2 Recommended	
() Support	3 Assist REINSTALL	
	46.5 MB V 21.03.00.014 U W	
	All Apps	
	Assist REINSTALL 46.5 MB V 21.03.00.014 ① ☆	
TU Test User	Mac Apps	

If desired, explore the other features in Intelligent Hub before continuing to the next step to verify the other configurations you published to the device.

- 1. The Favorites tab shows a list of apps that you have marked as a favorite for quick access.
- 2. The For You tab is a list of notifications sent by your administrators. This rich notifications can be configured in Hub Services.

You can learn more about these notifications in the Introduction to Workspace ONE Intelligent Hub and Hub Services module.

3. The **Support** tab provides a list of devices that are enrolled to your user account, a method for collecting logs, and configurable contact details to reach your administrators.

Continue to the next step when ready.

Validate the Workspace ONE Assist Install



[323]



- 1. Open Launchpad
- 2. Search for Assist
- 3. Click the Assist app that was installed by Workspace ONE UEM
- 4. After confirming that the app launches, click the Close button to close the app

This confirms that the Workspace ONE Assist app was successfully downloaded and installed on the device.

Validate the Restrictions Profile



- 1. Open System Preferences.
- 2. Confirm that the Accessibility options are disabled.

This confirms that the Restriction Profile you created to block these configurations in System Preferences has successfully applied to the device.

NOTE: If these options are still accessible, you may need to close and re-open System Preferences.

Validate the Device Sensor

Ê GETTING STARTED Dashboard Devices List View List View 88 Lifecycle FREESTYLE ADD DEVICE Compliance Policies LAY >> Filters \sim Certificates > Last Seen 🔺 General Info 1 3 Provisioning > testuser MacBook Air macOS 11.4.0 G5RN 4m ÷. your@email.shown.here DEVICES Peripherals > 1 UEM Managed | Corporate - Dedicated **Devices Settings**

Return to the Workspace ONE UEM administrator console:

- 1. Click Devices
- 2. Click List View
- 3. Click the enrolled macOS device to view the Device Details page

View the Device Sensors

[326]

Devices	> List View							< 1 / 1 Recent List
testu: MacBook A	Ser MacBe	00k Air m (Mid-2013) 11	nacOS 1.4.0 Own.			QUERY SEND	LOCK	MORE ACTIONS 💊
Summary	Compliance	Workflows	Profiles	Apps	Updates	Sensors 1	ipts S	ecurity Mor
						C EXPORT	▼ Sear	ch List
Ser	nsor Name 🔺		Sen	isor Value		Last Executed Date		Log
			×96	64		7/1/2021 9-41 AM		10

- 1. Click the Sensors tab
- 2. Confirm that the macos_cpu_arch sensor that was created is displayed. A Sensor Value of either x86_64 (for Intel chips) or ARM (for M series chips) will be displayed based on what your device's processor is.

If the Sensor has not processed on the device yet, you can force the Sensor to process by querying the Sensors on the device.

You can skip this and proceed to the next step if your Sensor has already executed.

mmary	Compliance	Profiles	Sensors	Scripts	Apps	Updates S	Device Information Security Profiles
						4 C EX	Apps Certificates
O ma	cos_cpu_arch		arm	54		Last Executed L	Management
	•	abs.awmdm.com					Manage Tunnel Access

- 1. Click More Actions
- 2. Click Sensors
- 3. Click OK
- 4. Click Refresh periodically and check if the macos_cpu_arch sensor is reporting data after executing

Key Takeaways

This completes your verification of the configurations you made for your macOS device! In summary, you configured and confirmed the following:

- 1. The Hub Services unified app catalog and other features were available on the device through the Intelligent Hub app
- 2. The Restriction profile to block the Desktop & Screen Saver and Accessibility settings in System Preferences was successful
- 3. The Sensor to detect the device's processor was deployed to the device and accessible from the Workspace ONE UEM administrator console
- 4. The Workspace ONE Assist app was successfully uploaded and deployed to the device
- 5. The custom Post-Enrollment Onboarding Experience was available on the device to help the user understanding if the onboarding process had been completed and what assets were included in onboarding



Enterprise Wipe a macOS Device

An Enterprise Wipe removes corporate data that was added to the device while leaving personal data intact. This can be used to retire devices from your organization or wipe lost devices to ensure that corporate apps and data are removed.

Initiate Enterprise Wipe



1. From the toolbar in the device details header, select More Actions.

2. Select Enterprise Wipe under the Management header in the drop-down menu.

Enter Security PIN to Confirm Wipe

You are about to perfor information below care	rm the Enterprise Wipe action. Please review all the efforts of the security and then enter your Security PIN to proceed. (i)
An Enterprise Wipe will unenrol including applications and profi	l and remove all managed enterprise resources from the selected device, les.
This action cannot be undone a again.	nd re-enrollment will be required for Workspace ONE to manage this device
Device and User Info	rmation
Security PIN:	
1 2 3 4 2 Forgot Security PIN?	
i olgot betenny i inti	

- 1. Scroll down until you see the section to Enter Security PIN.
- 2. Enter your security PIN **1234** to initiate the Enterprise Wipe.

Note: If you provided another PIN at the beginning of the lab, provide that security PIN instead.

Confirm Enterprise Wipe

GETTING	Dashboard		Devices						
SIARIED	List View 2		List V	iew					
	Lifecycle	>	2.50						
п	Compliance Policies	>	Filters	» ADD DEVICE		LAYOUT 🗸	5 0	RT 🗸 Search Lis	t
DEVICES	1 rtificates	>		General Info	Platform	User	Tags	Enrollment	Compliance
	Provisioning	>	_	testuser MacBook Air macOS 13.3.1 7FC2	Apple macOS			0	
RESOURCES	Peripherals	>	4	benjy.scoggins@gmail.com UEM Managed Corporate - Dedicated	MacBook Air "M2" 8 CPU/10 GF 13.3.1	PU 13"	\bigcirc	Unenrolled	Not Ava
용 ACCOUNTS	Devices Settings	Ø						<u> </u>	,
				3			-		

- 1. Click Devices
- 2. Click List View
- 3. Scroll to the right to find the Enrollment column for the macOS device
- 4. Confirm that the Enrollment column shows Unenrolled
- 5. If the device is not Unenrolled yet, periodically click the Refresh button to check the status

The Enterprise Wipe may take a few minutes to complete. Once completed, the corporate data and apps that were pushed to the device will be removed while leaving the personal data intact.

Once the Enrollment column reports Unenrolled, continue to the next step.

Validate the Enterprise Wipe on the macOS Device



- 1. Open System Preferences.
- 2. Confirm that the Desktop & Screen Saver and Accessibility settings are able to be configured again.

This confirms that the Restrictions Profile was removed when the device was unenrolled.



[332]



Verify Workspace ONE Assist Was Removed

[333]



- 1. Open Launchpad
- 2. Enter Assist in the search bar
- 3. Confirm that Workspace ONE Assist is not in the returned list of apps

Since the Workspace ONE Assist app was pushed with the Remove On Unenroll restriction, Workspace ONE Assist will be removed from the device when it is unenrolled.

Summary

This lab covered basic macOS administration using VMware Workspace ONE UEM and a user-initiated enrollment workflow. You

enrolled your macOS device, created profiles, deployed an application, locked the device, used Custom Attributes and then enterprise wiped the content and settings from the device.

Note that this Hands-On Lab *does not* cover the full breadth and capabilities for managing macOS with Workspace ONE. Please see VMware's TechZone for videos, blogs, and documentation that can help you with advanced topics in macOS management, such as:

- Apple Business Manager and Automated Device Enrollment
- Device Staging and Enroll-on-Behalf
- Volume Purchased Applications
- Kiosk Mode
- · Certificates and Identity/Directory Integration
- Mail Integration
- ... and More!



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Return to Lab Guidance

Use the Table of Contents to return to the Lab Overview page or another module.

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