

# Zimperium zConsole

MobileIron Integration Guide zConsole Release 4.16

**November 2018** 

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# **Preface**

This document is a guide for integrating Zimperium products with the MobileIron Mobile Device Management (MDM).

# **Related Documentation**

Zimperium support documentation is found in the Customer Portal at the following web site: http://support.zimperium.com.

# **Audience**

The intended audience for this guide is a zConsole administrator. This guide helps administrators to provide integration with the MobileIron MDM. The zIPS application provides threat protection to mobile devices. The system administrator for zConsole sets policies for threats, and also monitors and manages the detected threats. See "Zimperium zConsole Configuration Guide" for more information.

# **New Features**

Refer to the "Zimperium zConsole Release Notes" document for the list of new features in this release.

# **Document Update Log**

Update Date	Release	Summary	Description
Feb 2018	4.8	MobileIron integrated MDM agent support	Configuration instructions to support the Integrated MobileIron Threat Defense.
May 2018	4.12	Made updates for zConsole 4.12	Updated information and versions for Cloud and MTD. Updated the admin roles needed for a MobileIron Cloud API user.
July 2018	4.13	Updated Requirements Section and Updated Information on Local on-device actions	<ul> <li>Updated the MobileIron MDM enrolled device Core minimum version from v8 to v9</li> <li>Added steps to configure MI on-device actions for Core.</li> </ul>
October 2018	4.13	Updated Activation Details	<ul> <li>Updated the plist tables and added activation details.</li> <li>Added Appendix A - MobileIron Messaging and Device Activation</li> </ul>

			- Updated the MobileIron product name to align as "MobileIron Threat Defense"
November 2018	4.16	Include Support for MobileIron Spaces	Update the notes and screenshot on adding an MDM to include the MobileIron Spaces.

# Overview

Integration with a Mobile Device Management (MDM) system is not required. However, when a MobileIron MDM is integrated, the zConsole provides the following:

- Synchronization of devices and their associated users into zConsole.
- MobileIron Threat Defense (MTD) or transparent user enrollment for zIPS if not using MTD.
- More granular and specific actions to protect data on the device and the device itself.

Zimperium zIPS detects malicious activity and depending on the platform, is able to take some defined actions locally. However, when zIPS is integrated with an MDM, actions can be performed by the MDM, providing a very powerful protection tool. MobileIron has built the zIPS z9 engine into their Core and Cloud MDM Agents via MobileIron Threat Defense. Therefore, zIPS is not required to effectively protect devices managed with MobileIron MDM. The MTD product is enabled on the MDM managed device and the agent enrolls with zConsole directly.

This provides the ability to perform local actions on the device at an MDM level without the need to have zConsole tell MobileIron to take some action. The actions happen locally on the device. (This is supported on MI Core today. MI Cloud is expected to support this as well in the future.)

The MobileIron Administrator can setup different workflows to handle different threats via a MobileIron TRM (Core only at this time) or via zConsole that the zConsole Administrator can choose through the Policy page.

For MobileIron Threat Defense on Core, when a threat is detected on the device, the Mobile@Work MDM Agent is notified locally on the device and perform the action on the device. For all others at this time, when a threat is detected, the zConsole instructs the MobileIron console to move the device to the chosen Label in the Threat Response Policy/Matrix (TRM). The workflow assigned to that Label determines the action that MobileIron takes on the device. The communication from the zConsole to the MobileIron console is performed securely with a MobileIron API call.

# Requirements

Item	Specifics
MobileIron MDM enrolled device (Non	Core: minimum v9
Integrated)	Cloud (Current SaaS version)
MobileIron Core with MobileIron Threat	Core: v9.6.0.1
Defense	iOS Mobile@Work MDM Agent: v9.7.0

	Android Mobile@Work MDM Agent: v9.6.0
	(Core v10.0.0.1 and Mobile@Work v10 are
	needed to support local MTD actions)
MobileIron Cloud with MobileIron Threat	MobileIron Cloud Release 52
Defense	MobileIron Go for iOS Client: v3.2
	MobileIron Go for Android Client: v2018.04.23
API Administrator Account in MobileIron	Setup with the proper role defined in section
management console.	below.

# **Architecture**

Zimperium integrates with MobileIron MDM on different logical levels which are described in the "Zimperium zConsole Configuration Guide" available in the customer portal. Each level is addressed further on in this document with the specific configuration instructions. To achieve level 2 – 4 integrations, zConsole is configured to share information with the MobileIron console through API REST calls. When MTD/zIPS detects an event, it consults the current TRM resident on the device and if the action involves MobileIron, it is either performed locally or communicated to the zCloud server. The zCloud server then reaches out to the proper MobileIron API Server and provide the commands to perform the configured action.

MobileIron (MI) Core and MobileIron Cloud environments are configured differently and this guide details each configuration in separate sections. The key difference from a zConsole integration point of view is that MI Core manages devices and performs actions locally while MI Cloud instances manage devices and actions via device groups.

In addition, MI Core supports the integration of MobileIron Threat Defense directly in the Mobile@Work MDM Agent. This does not require zIPS on the device since the Mobile@Work agent has the Zimperium z9 engine built in, providing the same protection as zIPS. To enable and configure MobileIron Threat Defense in the Mobile@Work agent, see the section on MobileIron Core MDM - MobileIron Threat Defense.

# MobileIron Core MDM with MobileIron Threat Defense

In this configuration, MobileIron Threat Defense, powered by the Zimperium Z9 engine is activated in the MobileIron Core Mobile@Work Agent. Since the engine is already built into the Mobile@Work Agent, zIPS does not have to be pushed down to the device. When a device enrolls in MI Core in this scenario, the MobileIron Mobile@Work Agent is configured with the activation code to enable the z9 engine and communicates with the proper Zimperium zConsole. The actions that can be taken in response to a threat are defined in the MI Console and are performed locally on the device.

The following sections describe the different configuration levels for MobileIron Core MDM with MobileIron Threat Defense.

# Level 1: Basic Application Deployment

Since MobileIron Threat Defense is provided by the Mobile@Work Agent, the agent on the device needs to be updated with the activation code to enable the feature. This is done differently between iOS and Android but, in both cases, the same MobileIron Activation Code is required. This code is retrieved after the MobileIron Core MDM integration has been performed in the next step.

## Level 2a: Device and User Synchronization

When device synchronization occurs, the zConsole requests certain information from the MobileIron MDM. That information is used to determine if suspicious profiles are installed on devices that are protected by zIPS as well as all applications on each device.

The information saved for each device includes:

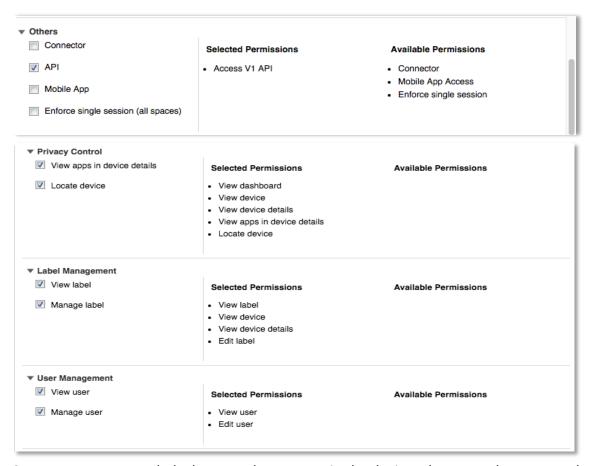
- UUID, Device ID, Apps installed, and email address (if anonymous user functionality is not enabled).
- For zConsole, prior to release 4.13, serial number and IMEI are saved.

#### **Setup User Synchronization**

1) Create a MobileIron administrator with the proper API access.

Navigate to: Devices & Users/ Users/ Add/ Add Local User.

Then, Admin/ Click on the user and assign the Admin role below:

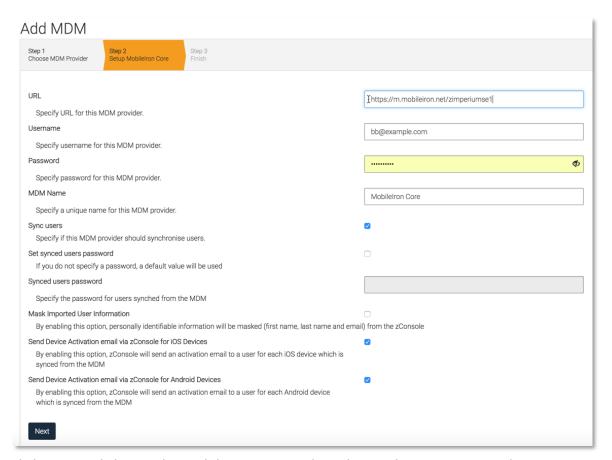


- 2) Create one or more Labels that you plan to contain the devices that are to be protected if you do not have one that already exists. The zConsole application uses these label(s) to synchronize devices and associate users to zConsole.
- 3) Log into zConsole and navigate to Manage/ MDM.
- 4) Click Add MDM and select MobileIron Core.



# 5) Enter information pertinent for the MobileIron integration.

URL URL of the MobileIron API Server  Username MobileIron Administrator created with the API role access  Password Password of the MobileIron Administrator  MDM Name The name used in zConsole to reference this MDM integration this is prepended to the group name to form the zConsole	on.
Password Password of the MobileIron Administrator  MDM Name The name used in zConsole to reference this MDM integration that is prepended to the group name to form the zConsole	on.
MDM Name  The name used in zConsole to reference this MDM integration of the group name to form the zConsole to the group name to	on.
This is prepended to the group name to form the zConsole	on.
	į
group name	
group name.	
Sync Users Check this box to ensure users/devices are synchronized wi	:h
the MobileIron Labels chosen in the next page.	
Set synced users password Check this box to override the default password during user	
sync. If this is not checked a default password is computed a	ıS
follows for all users that are synchronized:	
Start with the Zimperium environment name (this can be	
supplied by your Customer Success contact), change all	
uppercase letters to lowercase and also change all spaces to dashes. Then append "1234!" to the end.	'
dasties. Their append 1254: to the end.	
So, the value 'Zimperium Test' becomes 'zimperium-test123	41'
This is for informational purposes only. The user does not n	
to know their credentials.	
Synced users password The override value of the password to use for each user who	en e
they are synchronized.	
Mask Imported Users Check this box to mask personally identifiable information	
Information about the user when displayed, for instance name or email	
address.	
Send Device Activation email Check this box to send an email to the user for every iOS de	vice
via zConsole for iOS Devices synced with the MDM.	
<u>'</u>	
Send Device Activation email Check this box to send an email to the user for every Andro	d
via zConsole for Android device synced with the MDM.	ļ
Devices	ļ



 Click Next and choose the MobileIron Space. Then choose the groups to synchronize, then click Finish.

#### Step 2 Setup MobileIron Core Step 1 Choose MDM Provider Space: Global Available MDM Groups Selected zConsole Groups zAction moDemo2 0 Zimperium modemolabel 0 Zimperium Mobile IPS moLabel moLabel2 zIPS Group If a user is a member of more then one MDM group, the user will be placed in the zConsole group with the

**Note**: Spaces are used to separate managed entities for the ease of administration, such as an organizational hierarchy. Now users can sync devices for MobileIron spaces, along with the default space.

Edit MDM

Finish

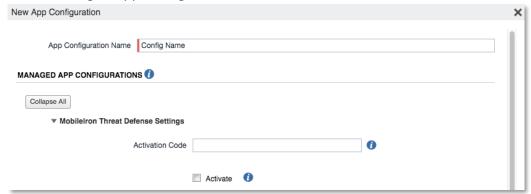
When more than one label is chosen the highest label in the list has the highest priority and so on down the list. If a device is present in more than one label, the label that applies is the highest label for the device.

7) Device and user synchronization starts.

#### **Enable MobileIron Threat Defense**

Now that a valid MobileIron MDM Integration has been setup, retrieve the activation code for MobileIron Threat Defense and apply it the Mobile@Work agent on the device.

- 1) Log into the zConsole and navigate to Manage/ MDM.
- 2) Locate the MobileIron that was just configured and copy the MobileIron Activation Code to your clipboard.
- 3) Log into the MobileIron Console.
- 4) Follow these steps for iOS devices:
  - a) Navigate to Apps/ App Catalog.
  - b) Locate the iOS Mobile@Work entry. If one does not exist add it from the App Store and associate the required labels.
  - c) Click on the Mobile@Work app and Edit.
  - d) Ensure that the following options are enabled:
    - i) Allow conversion of app from unmanaged to managed (iOS 9 or later).
    - ii) Send installation request or send convert unmanaged to managed apprequest (iOS 9 and later) on device registration or sign-in.
    - iii) Send installation or convert unmanaged to managed app request to guarantined devices.
  - e) Under Managed App Configurations, click Add+

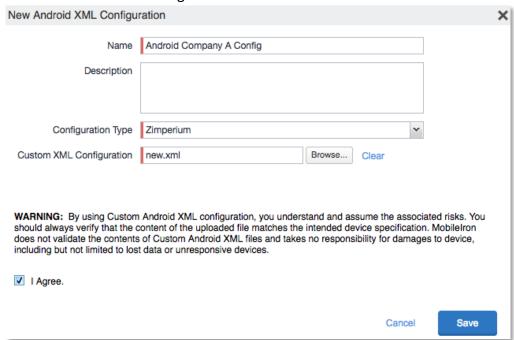


- f) Enter a name for this App Configuration.
- g) Click Expand.
- h) Enter the Activation Code.
- i) Enable Activate.
- j) Save the settings.

- 5) Follow these steps for Android devices:
  - a) Create an XML file comprised of the following content:
     <?xml version="1.0" encoding="UTF-8"?><zimperium><token>insert activation token</token></zimperium>
  - b) Ensure there are no extra CR's or LF's in the file after it is saved.
  - c) In the MobileIron console navigate to: Policies & Configs/ Configurations and click **Add New**.
  - d) Click on Android/ Android XML Configuration.



e) Enter a Name for this configuration.



- f) Provide a description.
- g) Choose Zimperium for the Configuration Type.
- h) Browse to the XML file created above and upload it.

- i) Enable the 'I agree' checkbox, and then click Save.
- j) Assign the required Labels to this new Android\_XML Configuration.

At this point MobileIron Threat Defense is enabled for both iOS and Android. When a user enrolls their device, the Activation code is sent to the Mobile@Work agent and MobileIron Threat Defense starts to run.

The device shows up immediately in the zConsole in the default group and after the MDM Integration is automatically synchronized, it shows in the assigned group.

## Level 3: Basic Protection

MobileIron Integration Level three does not apply. Proceed to level four.

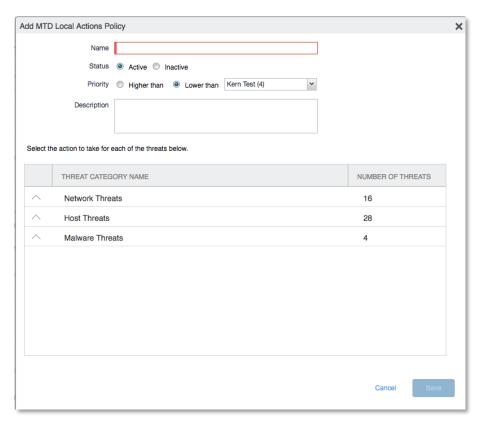
#### Level 4: Full Protection

The Zimperium integration with MobileIron provides the ability to perform actions directly on the device with no need for the round robin communication through the internet to the device. With MobileIron Threat Defense built into the Mobile@Work MDM agent, when a threat is detected, the agent is alerted by the MTD and takes defined actions locally. This provide a way to protect data on the device as well as the device itself when an attack occurs without having to go out to the internet.

To accomplish this, the MobileIron administrator simply sets up one or more MTD Local Action Policies via the MobileIron console. This provides a mechanism for notification to the user as well as required.

From the MobileIron console perform the following steps:

- 1) Navigate to Policies & Configs.
- 2) Navigate to Policies.
- 3) Click on Add New and choose MTD Local Actions.
- 4) Fill on the actions and notifications as required per the companies use case. A description of how to do this can be found in the MobileIron documentation set.



5) Options for iOS Actions include:



6) Options for Android Actions include:

## None

Wipe the device

Quarantine: Remove All

Configurations

Quarantine: Do not remove Wi-Fi settings for Wi-Fi-only

devices

Quarantine: Do not remove Wi-Fi settings for all devices

Quarantine: Remove

Managed apps, and block

new downloads

Disable Bluetooth

Disconnect from WIFI

Select the desired option.

- 7) Click Save.
- 8) Assign the appropriate Label to this new Policy.

# MobileIron Core Integration with zIPS

The following sections describe the different configuration levels for MobileIron Core Integration with zIPS.

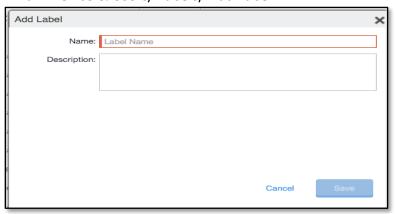
## Level 1: Basic Application Deployment

If you are not using MobileIron Threat Defense, zIPS can be deployed. To deploy the zIPS application through MobileIron, ask your Customer Success Team at Zimperium for the iOS and Android version of zIPS. Or deploy via the public App Store for iOS and Play Store for Android.

Log into MobileIron Core. If no appropriate Label exists for the application deployment, create a Label. Create a new Internal Application and upload the proper application file (IPA for iOS and APK for Android) to MobileIron. Assign the Label to the application and publish.

Perform the following steps:

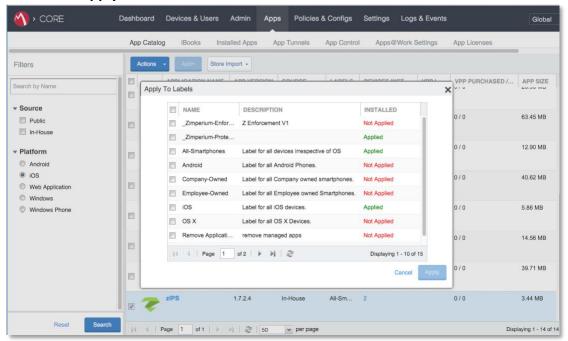
- 1) Create a Label to be assigned to devices that need to deploy zIPS.
  - a. Device & Users/ Labels/ Add Label



- b. Enter Label Name and short description
- c. Click Save
- 2) Upload and create zIPS application
  - a. Apps/Add+



- b. Click **Next** and add/update information as needed in the next two screens and then click **Finish**.
- c. The application is now ready to be deployed.
- 3) Assign the label created in step 1) to this application.
  - a. Click the radio button in front of the application just imported and click **Actions** and **Apply to Label**.



- b. Choose the label created in step 1) and click Apply.
- 4) Assign this label to all devices that are required to be protected by zIPS
  - a. Device & Users/ Devices.
  - b. Click on the radio button next to all devices to be protected.
  - c. Click **Actions** and then choose **Apply to Label**.
  - d. Choose the Label to be applied and click Apply.

# Level 2a: User Synchronization

To avoid having to create user credentials and the user management lifecycle, users and their devices can be synchronized through MDM integration. This allows all user management functions to be handled at the MDM console.

After the initial User Synchronization during the MDM Integration setup, users are managed through a scheduled synchronization process that runs every four hours. If we see additional devices in the label(s) being used for synchronization, we add them and their users to zConsole.

If we see devices removed, then we also remove them from the zConsole. Doing this does not remove their events logged since they have been created.

## **Ad-hoc MDM Synchronization**

Due to the four-hour MDM synchronization window, there are times where a new MDM user has zIPS pushed down to their device and attempts to start it prior to the device actually being synchronized from the MDM. zConsole handles this by doing an ad-hoc synchronization when zIPS tries to activate but no information yet exists for it.

The zConsole application receives the identification information from zIPS used for the authentication and matches it up with the proper customer for authentication. Once that happens, zConsole retrieves that device and user information from the MDM configured for that customer. zIPS on that device is now authenticated and allowed to proceed. For this to work correctly, zIPS must be deployed as follows:

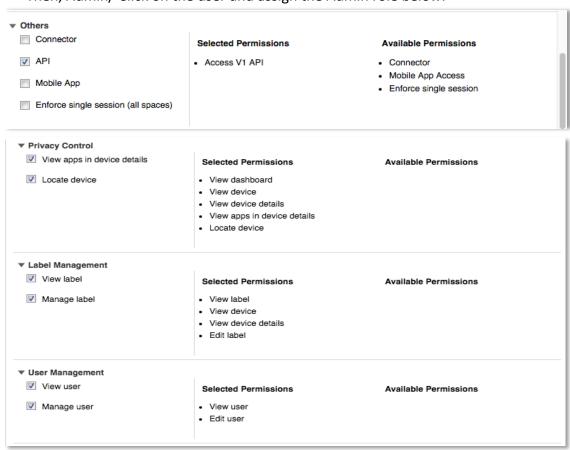
- **iOS**: Associate a plist file with the zIPS application that pushes down the fields used for the ad-hoc sync. This is described in the section "Level 2b: Auto Sign-in/Advanced Application Deployment" below.
- > Android: Ad-hoc MDM synchronization for Android required the zIPS application to be modified. Contact your Zimperium Customer Support Team to set this up for Android.

When user synchronization occurs, the zConsole requests certain information from the MobileIron MDM. That information is used to determine if suspicious profiles are installed on devices that are protected by zIPS as well as all applications on each device. The information saved for each device includes:

- UUID, Device ID, Apps installed, and email address (if anonymous user functionality is not enabled).
- For zConsole, prior to release 4.13, serial number and IMEI are saved.

## **Setup User Synchronization**

Create a MobileIron administrator with the proper API access.
 Navigate to: Devices & Users/ Users/ Add/ Add Local User.
 Then, Admin/ Click on the user and assign the Admin role below:

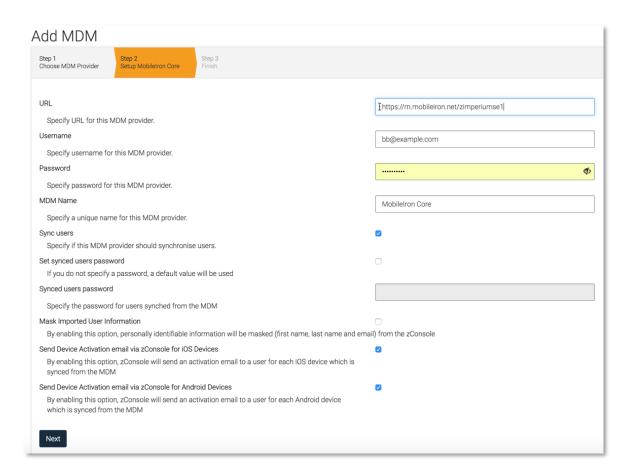


- 2) Create one or more Labels that contain the devices that are protected if you do not have one that exists. The zConsole uses these label(s) to synchronize devices and their associated users.
- 3) Log into zConsole and navigate to Manage/ MDM.
- 4) Click Add MDM and select MobileIron Core.

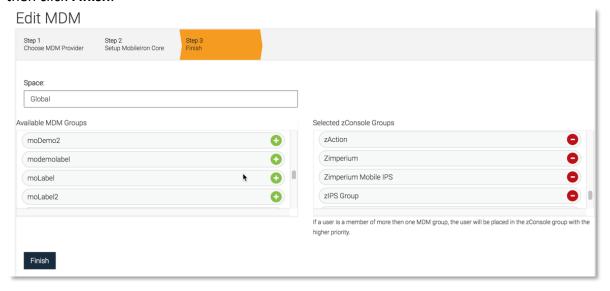


5) Enter information pertinent for the MobileIron integration indicated in the table.

Item	Specifics
URL	URL of the MobileIron API Server
Username	MobileIron Administrator created with the API role access
Password	Password of the MobileIron Administrator
MDM Name	The name used in zConsole to reference this MDM integration.
	This is prepended to the group name to form the zConsole
	group name.
Sync Users	Check this box to ensure users/devices are synchronized with
	the MobileIron Labels chosen in the next page.
Set synced users password	Check this box to override the default password during user
	sync. If this is not checked a default password is computed as
	follows for all users that are synchronized:
	Start with the Zimperium environment name (this can be
	supplied by your Customer Success contact), change all
	uppercase letters to lowercase and also change all spaces to
	dashes. Then append the string "1234!" to the end.
	So, the value 'Zimperium Test' becomes 'zimperium-test1234!'
Synced users password	The override value of the password to use for each user when
	they are synchronized.
Mask Imported Users	Check this box to mask personally identifiable information
Information	about the user when displayed, for instance, name and email
	address.
Send Device Activation email	Check this box to send an email to the user for every iOS device
via zConsole for iOS Devices	synced with the MDM.
Send Device Activation email	Check this box to send an email to the user for every Android
via zConsole for Android	device synced with the MDM.
Devices	
· · · · · ·	



6) Click **Next** and choose the MobileIron Space. Then, choose the groups to synchronize, then click **Finish**.



**Note**: Spaces are used to separate managed entities for the ease of administration, such as an organizational hierarchy. Now users can sync devices for MobileIron spaces, along with the default space.

When more than one label is chosen the highest label in the list has the highest priority and so on down the list. If a device is present in more than one label, the label that applies is the highest label for the device.

- 7) Device and user synchronization now starts.
- 8) This can be verified by going to the Devices or Users pages in the zConsole to verify they are showing up. The device entries are greyed out until the user starts up zIPS and activates the applications.

## Level 2b: Auto Sign-in/Advanced Application Deployment

The Zimperium zIPS application in both iOS and Android Enterprise (Android for Work) auto activate the user if MDM user synchronization has been configured. The process is different on each platform as described below.

#### iOS Activation

Zimperium's iOS zIPS application takes advantage the Managed Application Configuration when the app is pushed down to the device. This provides the best user experience, allowing the user to startup iOS zIPS without having to enter any credentials. The Managed Application configuration pre-programs iOS zIPS with this information.

This configuration is done within MobileIron. After adding the application:

• For zIPS Release 4.4.x and earlier, create a plist file that contains the information using variables as outlined in the table.

Configuration Key	Value Type	Configuration Value
serial	String	\$DEVICE_SN\$
(serial is not included in		
zConsole Release 4.13 or later)		
uuid	String	\$DEVICE_UUID\$
imei	String	\$DEVICE_IMEI\$
(imei is not included in zConsole		
Release 4.13 or later)		
wifimac	String	\$DEVICE_MAC\$

**Note**: The configuration keys are case sensitive.

For zIPS 4.4.x and earlier, the plist file is created as a text file in the following format using the variables in the above table.

## For iOS Ad-Hoc MDM sync to function properly, add these two new plist values.

Configuration Key	Value Type	Configuration Value
tenantid	String	Contact your Customer Support Team
defaultchannel	String	Contact your Customer Support Team

• For zIPS Release 4.7 and later, create a plist file that contains the information using variables as outlined in the table.

Configuration Key	Value Type	Configuration Value
uuid	String	\$DEVICE_UUID\$
tenantid	String	Contact your Customer Support Team
defaultchannel	String	Contact your Customer Support Team

Note: The configuration keys are case sensitive.

For zIPS 4.7 and later, the plist file is created as a text file in the following format using the variables in the above table.

Add this plist file to MobileIron via the console:

- 1) Policies & Configs/ Configurations/ Add New/ iOS & OS X/ Managed App Config.
- 2) Select the file you just created above to upload.
- 3) Enter the bundle ID for the iOS app, com.zimperium.zIPS. (**Note**: If you are using the zIPS app from the Apple Play Store, use the bundle ID: com.zimperium.zIPS.appstore)
- 4) Click on the radio button by the new Managed App Configuration item.
- 5) More Actions/ Add to Label: Choose the label associated with the iOS zIPS app.

#### 6) Click Apply.

Each time the iOS zIPS app gets pushed to a device it contains the information specified in the plist file. When the user clicks on the zIPS app, they automatically sign into the proper zConsole environment.

#### **Android Activation**

Android Enterprise (Android for Work) users can continue to use the managed app config for activations. You need to make sure you are passing the right device ID value for the configuration parameter. The variables are the same set as the plist variables in the "iOS Activation" section.

For native Android devices, activations require the use of activation URLs. These can be sent to end users via the zConsole or the MDM. Clicking on zIPS without the link does not activate zIPS for Android Devices. When a user runs the app with the activation URL link, it activates and downloads the proper TRM.

To access activation links, use the zConsole Manage page and select the MDM tab. After the MDM has been added, the activation link is provided for devices. This activation link is used along with appending the MDM device identifier. The zConsole page displays the expiration date and time, and if needed the link can be regenerated.

See the "Zimperium zConsole Configuration Guide" in the section "MDM Activation" for more information on the MDM activation links.

The administrator sends the concatenated activation link by email or text to users, along with instructions to accept the zIPS app being pushed to them.

#### **Activation with MobileIron Messaging**

MobileIron supports message templates where you can send a customized email to users. This is an optional activation method. See "Appendix A - MobileIron Messaging and Device Activation" for information on how to set up these notifications.

## Level 3: Basic Protection

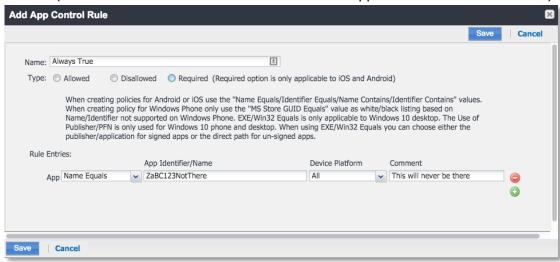
MobileIron Integration Level three does not apply. Proceed to level four.

## Level 4: Full Protection

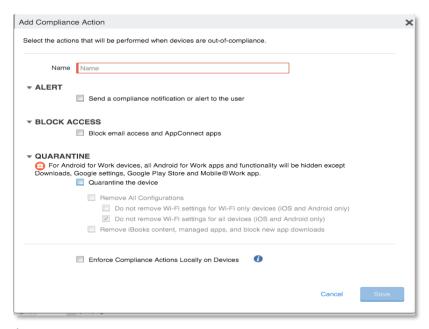
The Zimperium integration with MobileIron provides the ability to apply a specific Label to the device within the customer's MobileIron environment. This allows the MobileIron administrator to define specific actions such as to quarantine a device, remove email access, assign a configuration or even unenroll a device (which happens automatically). To accomplish this, the MobileIron administrator needs to coordinate with the zConsole administrator what specific actions are needed and do the following configuration for each one with a unique label. MDM Integration with zConsole also has to be setup and functional.

This Label assigned to the device is pre-assigned to a Policy that is always evaluated as TRUE which activates a Compliance Action. The configuration involves the following:

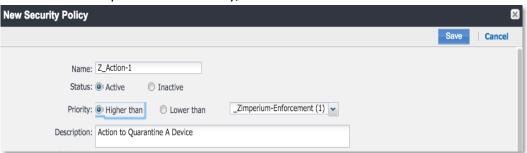
- Building an App Control Rule
- Linking it to a Policy that is then configured to a Compliance Action.
- 1) Create a new App Control Rule that evaluates to be true so that whatever Policy it is used in, always runs when a device is assigned to it:
  - a. Apps
  - b. App Control
  - c. Add (use the fields below to create a check for an application that does not exist)



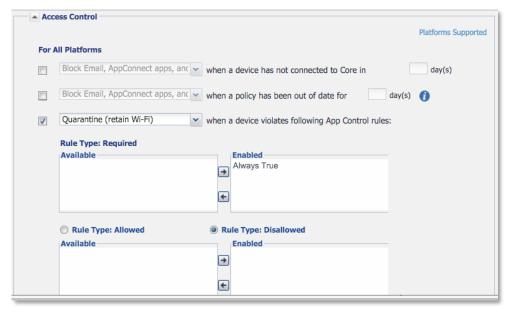
- d. Save
- 2) Define a Compliance Action which affects the device under threat:
  - a. Policies & Configs
  - b. Compliance Actions
  - c. Add+ (to add a new Compliance Action using the dialog box below)



- d. Save
- 3) Create a Policy that keys off of the App Control Rule:
  - a. Policies & Configs
  - b. Policies
  - c. Add New (Choose Security form the drop-down list)
  - d. Choose a name and ensure Active is checked.
  - e. Enter a description for this Policy/Action

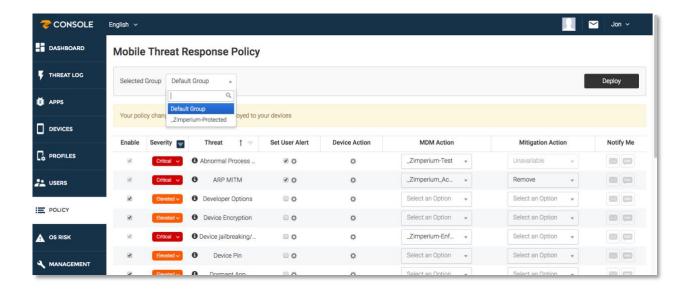


- f. Scroll down to Access Control
- g. Click on the radio button for "When a device violates the following App Control rules:"
- h. Choose the Compliance Action created earlier
- i. Choose the App Control rule "Always True" and move to the Enabled side



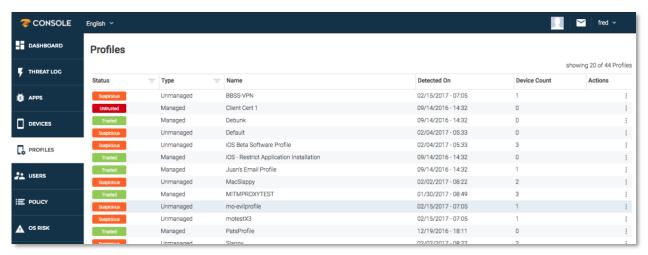
- j. Click Save
- 4) Assign a Label that is referenced in the zConsole Threat Response Policy/Matrix.
  - a. Click the radio button in the front of this new Policy
  - b. More Actions
  - c. Apply to Label
  - d. Choose the label to apply to this Policy that can be used in the zConsole (if needed you can create a new label)

This is now a new Action that can now be selected in the Threat Response Policy/Matrix such as shown under the MDM actions column below. An MDM sync might have to occur for this to be visible.



# iOS Profiles (MobileIron Core)

Zimperium collects managed and unmanaged profiles through the MDM integration. These profiles are displayed in the Profiles page and any unmanaged profiles are defined as Suspicious.

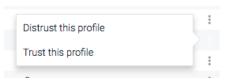


The Profiles page filter contains the following:

Column	Description
Status	Display profiles that match the selected status of Trusted, Untrusted, Suspicious
Туре	Display profiles that match the selection of Managed, Unmanaged
Name	Sort profiles based on their name
Detected On	Sort profiles by date/time that they were detected
Device Count	Sort profiles by number of devices they are installed on

The Admin can modify the profile to either be trusted or distrusted. The lifecycle of an unmanaged profile detected by zIPS is the following:

- 1) After an MDM synchronization, qualify any new profiles.
- 2) Define which are MDM Managed and which are Unmanaged.
- 3) Set any Unmanaged Profiles to be suspicious and send an alert as defined in the Threat Response Policy/Matrix.
- 4) The Admin can then go to the Profiles page to find this unmanaged Profile. Click on the three dots to the right of the profile and select either **Trust this profile** or **Distrust this profile**. If Distrust is selected a new zIPS alert is created and the Threat Response Policy/Matrix is chosen.



# MobileIron Cloud Integration with MobileIron Threat Defense

In this configuration, MobileIron Threat Defense, powered by the Zimperium z9 engine is activated in the MobileIron Core Mobile Go Agent. Since the engine is already built into the Mobile Go Agent, zIPS does not have to be pushed down to the device. When a device enrolls in MI Cloud in this scenario, the MobileIron Mobile Go Agent is configured with the activation code to enable the z9 engine and communicate with the proper Zimperium zConsole.

The following sections describe the different configuration levels for MobileIron Cloud Integration with MobileIron Threat Defense.

## Level 1: Basic Application Deployment

Since MobileIron Threat Defense is provided by the Mobile Go Agent, the agent on the device needs to be updated with the activation code to enable the feature. This is done differently in iOS and Android. But in both cases, the same MobileIron Activation Code is required. This code can be retrieved after the MobileIron Cloud MDM integration has been performed in the next step.

# Level 2a: User Synchronization

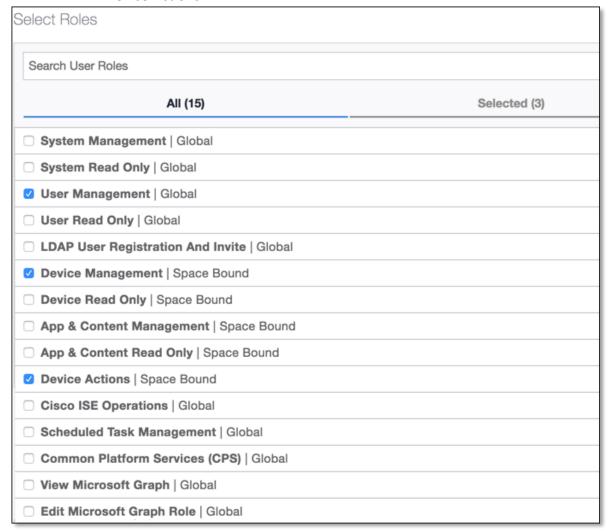
To avoid having to create user credentials and the user management lifecycle, users and their devices from selected device groups can be synchronized through MDM integration. This allows all user and device management functions to be handled at the MDM console.

After the initial User Synchronization during the MDM Integration setup, users are managed through a scheduled synchronization process that runs every four hours. If additional devices are in the device group(s) being used for synchronization, they are added along with their users to zConsole. If devices are removed, then they are also removed from the zConsole. Doing this does not remove their events logged since they have been created.

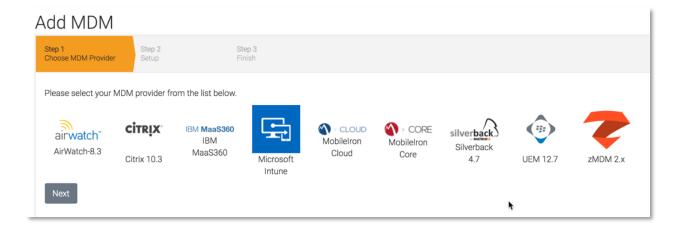
#### **Setup User Synchronization**

- 1. Create a MobileIron administrator with the proper API access.
  - a. Navigate to: Users/ Users/ +Add/ Single User
  - b. Enter the information for this new administrator and click **Done**.

- Click on the new administrator and select the Actions drop-down. Select Assign Roles.
   Add the proper roles to the new administrator and click Next, and then click Done. For instance, add the following roles:
  - User Management
  - Device Management
  - Device Actions



- 3. Create one or more device groups that you plan to contain the devices that are protected, if a device group does not exist yet for this purpose. zConsole uses these device group(s) to synchronize devices and their associated users.
- 4. Log into zConsole and navigate to Manage/ MDM.
- 5. Click on **Add MDM** and select MobileIron Cloud.

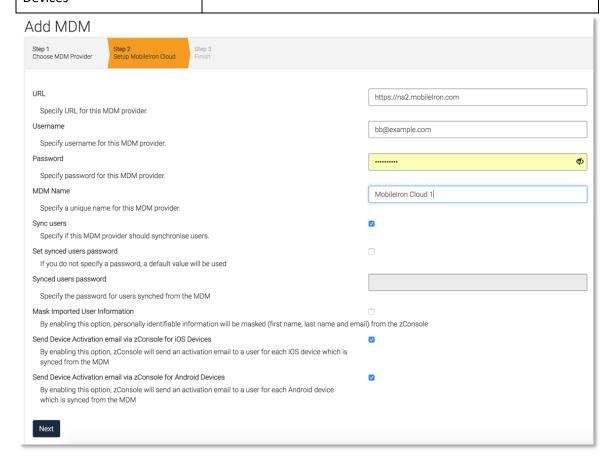


6. Enter information pertinent for the MobileIron integration

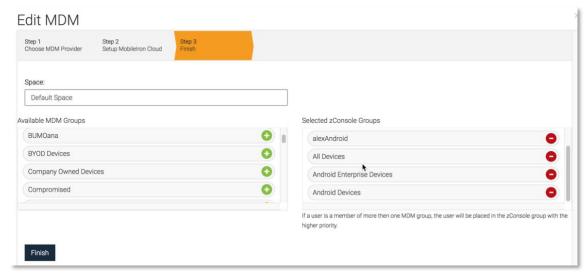
Item	Specifics
URL	Url of the MobileIron API Server
Username	MobileIron Administrator created with the API role access
Password	Password of the MobileIron Administrator
MDM Name	The name used in zConsole to reference this MDM integration.
	This is prepended to the group name to form the zConsole
	group name.
Sync Users	Check this box to ensure users/devices are synchronized with
	the MobileIron Labels chosen on the next page.
Set synced users password	Check this box to override the default password during user
	sync. If this is not checked a default password is computed as
	follows for all users that are synchronized:
	Start with the Zimperium environment name (this can be
	supplied by your Customer Success contact), change all
	uppercase letters to lowercase and also change all spaces to
	dashes. Then append "1234!" to the end.
	So, the value 'Zimperium Test' becomes 'zimperium-test1234!'
Synced users password	The override value of the password to use for each user when
	they are synchronized.
Mask Imported Users	Check this box to mask personally identifiable information
Information	about the user when displayed, for instance name or email
	address.
Send Device Activation email	Check this box to send an email to the user for every iOS device
via zConsole for iOS Devices	synced with the MDM.

Send Device Activation email via zConsole for Android Devices

Check this box to send an email to the user for every Android device synced with the MDM.



7. Click **Next** and choose the MobileIron Space. Then, choose the groups to synchronize, then click **Finish**.



**Note**: Spaces are used to separate managed entities for the ease of administration, such as an organizational hierarchy. Now users can sync devices for MobileIron spaces, along with the default space.

When more than one device group is chosen the highest group in the list has the highest priority and so on down the list. If a device is present in more than one group, the group that applies is the highest group for the device.

- 8. Device and user synchronization now starts.
- This can be verified by going to the Devices or Users pages in the zConsole to verify they are showing up. The device entries are greyed out until the user starts up zIPS and zIPS is activated.

#### **Enable MobileIron Threat Defense**

Now that a valid MobileIron MDM Integration has been setup, retrieve the activation code for MobileIron Threat Defense and apply it the Mobile Go agent on the device.

- 1) Log into the zConsole and navigate to Manage/ MDM.
- 2) Locate the MobileIron Cloud that was just configured and copy the MobileIron Activation Code to your clipboard.
- 3) Log into the MobileIron Console.
- 4) Perform the following steps for iOS devices:
  - a) Navigate to Apps / App Catalog.
  - b) Click on the **MobileIron Go** app link for iOS to open the app details page. (If the app is not listed, add it as a managed app from the App Store).
  - c) Click on the **App Configurations** tab.

- d) Click the plus sign next to the **iOS Managed App Configuration** to display the Configuration Setup page.
- e) Provide a name for this entry.
- f) Under the MobileIron Threat Defense Settings, enter the Activation Code (license token from Zimperium) and select the **Activate** option.

**Note:** De-select the **Activate** option to disable MobileIron Threat Defense feature for the MobileIron Go app.

- g) Select one of the following distribution options:
  - All Devices
  - No Devices (this is the default)
  - Custom
- h) Click **Update**.
- i) Navigate back to the **App Configurations** tab.
- j) Click Install on device
- k) Click Install Application configuration settings
- Click Edit, scroll to the bottom of the screen and choose the option to Convert to Managed App.
- m) Click Update.
- 5) Perform the following steps for Android devices:
  - a) Navigate to **Configurations**.
  - b) Click +Add.
  - c) Click MobileIron Threat Defense.
  - d) In the 'Create MobileIron Threat Defense Configuration' page, enter a name for the configuration.
  - e) (Optional) Enter a description.
  - f) In the Configuration Setup section, select the vendor **Zimperium**.
  - g) In the License Key field, enter your unique encrypted MobileIron Threat Defense activation code from Zimperium.
  - h) Click Next.
  - i) Select the **Enable this configuration** option.
  - j) Select one of the following distribution options:
    - All Devices
    - No Devices (this is the default)
    - Custom
  - k) Click Done.

At this point the MobileIron Threat Defense is enabled for both iOS and Android. When a user enrolls their device, the Activation code is sent to the Mobile Go agent and MobileIron Threat Defense starts to run.

The device shows up immediately in the zConsole in the default group and after the MDM Integration is automatically synchronized, and it shows in the assigned group.

#### Level 3: Basic Protection

MobileIron Integration Level three does not apply. Proceed to level four.

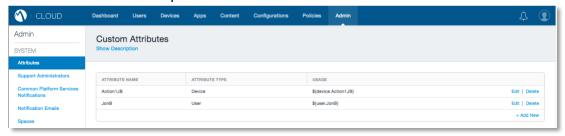
## Level 4: Full Protection

The Zimperium integration with MobileIron provides the ability to apply a specific Device Group to the device within the customer's MobileIron environment. This allows the MobileIron administrator to define specific actions such as to quarantine a device, remove email access, assign a configuration or even unenroll a device (which happens automatically). To accomplish this, the MobileIron administrator needs to coordinate with the zConsole administrator the specific actions that are needed and do the following configuration for each one with a unique Device Group. MDM Integration with zConsole also has to be setup and functional.

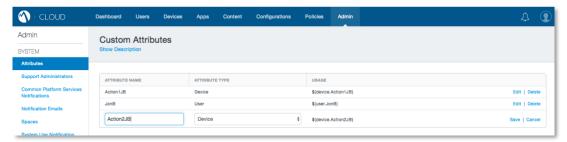
The MobileIron Cloud integration contains one built in MDM action to Lock the device. The following steps are not needed for that action to be used.

When a device is under attack and the MDM action is set to some Device Group from the integrated MobileIron server, zConsole assigns the device to that device group via API calls. To set this up several configurations need to be done on the MobileIron Console:

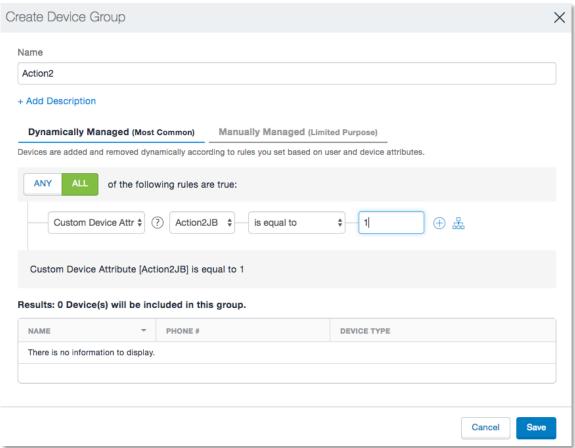
- 1) Log into the MobileIron Console
- 2) Navigate to the Admin page
- 3) Create a customer Device Attribute to be used to link the Device to the Device Group and Policy.
- 4) Click on the + Add New option.



5) Type the name of the new custom attribute and choose type **Device**. In the sample below the name is 'Action2JB'. Click **Save**.

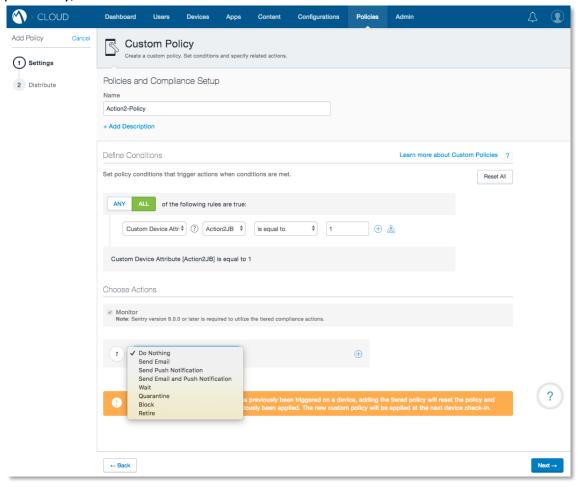


- 6) Create a dynamically managed Device Group based on the new Custom Device Attribute just created. navigate to Devices/ Device Groups. Click **+Add**.
- 7) Enter the new Device Group Name (This is the name that shows up in the TRM MDM actions column), Choose 'Custom Device Attribute' and then the new Custom Attribute just created with a value of '1'. Click **Save**.



- 8) Create an Policy that is linked to the new Device Group just created that you plan to contain the action to carry out to protect the phone. Navigate to Policies and click the **+Add** option.
- 9) Choose a Custom Policy. Enter the Custom Policy name and choose the conditions, Any or All. This "Any" or "All" option does not matter as there is only one condition. Choose

'Custom Device Attribute', the new Custom Attribute name and the value entered previously, '1'. Then choose the actions to be executed as shown below. Click **Next**.



The possible actions are:

- o Send Email
- o Send Push Notification
- Send Email and Push Notification
- o Wait
- o Quarantine
- o Block
- o Retire

For each option selected, an appropriate entry is displayed to enter more information, such as the text to be sent to the user if 'Send Push Notification' is chosen. More than one action can be chosen by clicking on the '+' sign to add another action.

10) On the Distribution page, assign this policy to 'No Devices' and then click **Done**.



- 11) Log into zConsole and perform an MDM sync to learn the new Device Groups. Navigate to MANAGE/ MDM. Click **Sync Now** and then **OK** for the MDM integration just modified.
- 12) The MDM actions column now include any new Device Groups created.

Actions assigned in the Threat Response Policy/Matrix happen automatically when the specific assigned threat is detected. For more information on this topic, see "Zimperium zConsole Configuration Guide" and the "MDM Capabilities Matrix" section in the Appendix.

## MobileIron Cloud Integration with zIPS

The following sections describe the different configuration levels for MobileIron Cloud Integration with zIPS.

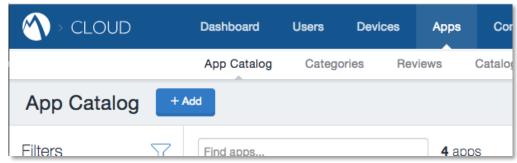
## Level 1: Basic Application Deployment

To deploy the zIPS application through MobileIron, ask your Customer Success Team at Zimperium for the iOS and Android version of zIPS.

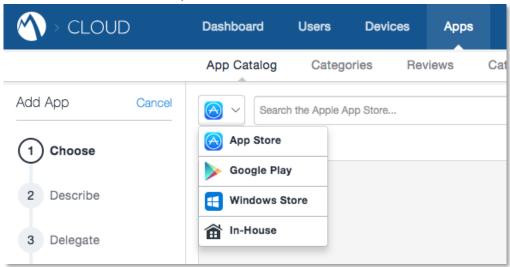
To deploy the zIPS app, log into MobileIron. Create a new In-House App and upload the proper application file (IPA for iOS or APK for Android). Distribute the app via your chosen method and publish.

## Perform the following steps:

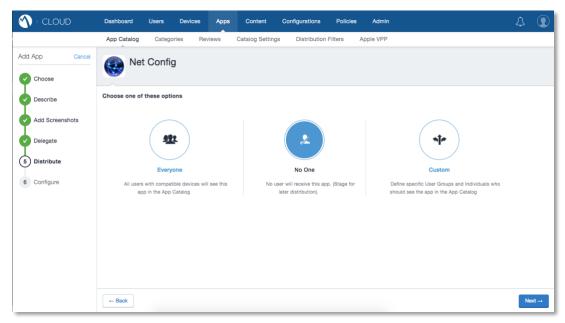
1) Navigate to Apps/ App Catalog/ +Add.



2) Choose 'In-House' from drop-down.



- Drag the apps IPA or APK file to the page and click Next→
- 4) Add the app details such as name and category and click **Next→** until you get to the distribution options.



- 5) Choose your distribution method and click Next>
- 6) Click Done

## Level 2a: User Synchronization

To avoid having to create user credentials and the user management lifecycle, users and their devices can be synchronized through MDM integration. This allows all user and device management functions to be handled at the MDM console.

After the initial User Synchronization during the MDM Integration setup, users are managed through a scheduled synchronization process that runs every four hours. If additional devices are in the device group(s) being used for synchronization, they are added along with their users to zConsole. If devices are removed, then they are also removed from the zConsole. Doing this does not remove their events logged since they have been created.

## **Ad-hoc MDM Synchronization**

Due to the four-hour MDM synchronization window, there are times where a new MDM user has zIPS pushed down to their device and attempt to start it prior to the device actually being synchronized from the MDM. zConsole handles this by doing an Ad-hoc synchronization when zIPS tries to activate but no information yet exists for it.

The zConsole application gets the identification information from zIPS used for the authentication and matches it up with the proper customer for authentication. Once that happens, zConsole retrieves that device and user information from the MDM configured for

that customer. zIPS on that device is now authenticated and allowed to proceed. For this to work correctly, zIPS must be deployed as follows:

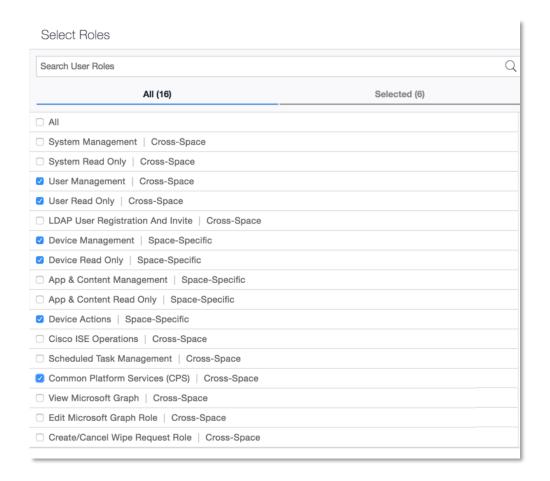
- **iOS**: Associate an App Configuration with the zIPS application that pushes down the fields to be used for the ad-hoc sync. This is described in the section "Level 2b: Auto Sign-in/Advanced Application Deployment" below.
- **Android**: Ad-hoc MDM synchronization for Android required the zIPS application to be modified. Contact your Zimperium Customer Support Team to set this up for Android.

When user synchronization occurs, the zConsole requests certain information from the MobileIron MDM. That information is used to determine if malicious apps are on the device. The information saved for each device includes:

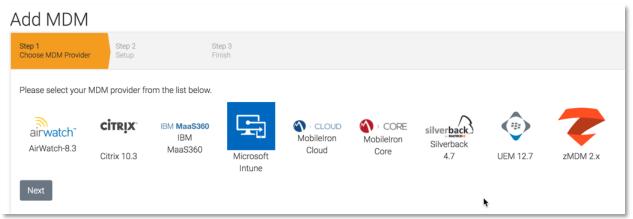
- UUID, Device ID, Apps installed, and email address (if anonymous user functionality is not enabled).
- For zConsole, prior to release 4.13, serial number and IMEI are saved.

#### **Setup User Synchronization**

- 1) Create a MobileIron administrator with the proper API access.
  - a) Navigate to: Users/ Users/ +Add/ Single User
  - b) Enter the information for this new administrator and click **Done**.
- 2) Click on the new administrator and select the **Actions** drop-down. Select **Assign Roles**. Add the proper roles to the new administrator and click **Next**, and then click **Done**. For instance, add the following minimum roles:
  - User Management
  - Device Management
  - Device Actions
  - User Read Only
  - Device Read Only
  - Common Platform Services (CPS)

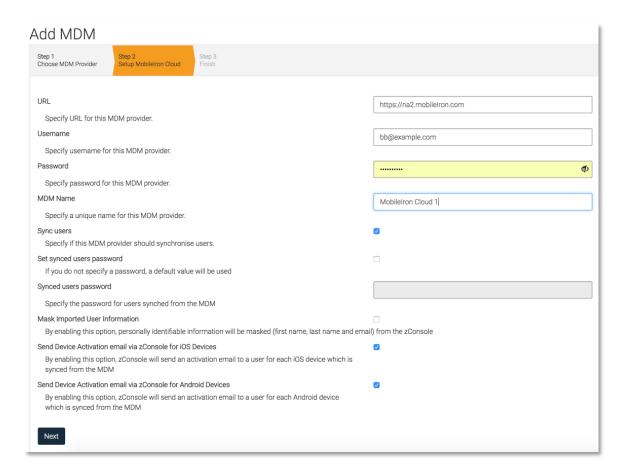


- 3) Create one or more device groups that you plan to contain the devices that are protected, if a device group does not exist yet for this purpose. zConsole uses these device group(s) to synchronize devices and their associated users.
- 4) Log into zConsole and navigate to Manage/ MDM.
- 5) Click Add MDM and select MobileIron Cloud.

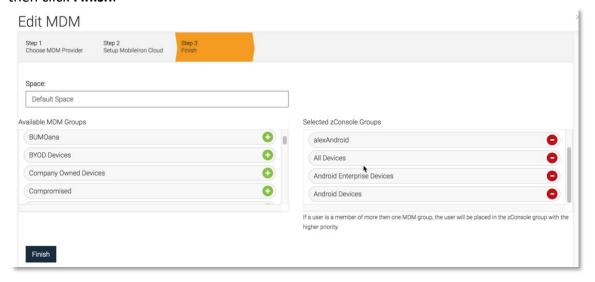


## 6) Enter information pertinent for the MobileIron integration

Item	Specifics	
URL	URL of the MobileIron API Server	
Username	MobileIron Administrator created with the API role access	
Password	Password of the MobileIron Administrator	
MDM Name	The name used in zConsole to reference this MDM integration.	
	This is prepended to the group name to form the zConsole	
	group name.	
Sync Users	Check this box to ensure users/devices are synchronized with	
	the MobileIron Labels chosen in the next page.	
Set synced users password	Check this box to override the default password during user	
	sync. If this is not checked a default password is computed as	
	follows for all users that are synchronized:	
	Start with the Zimperium environment name (this can be	
	supplied by your Customer Success contact), change all	
	uppercase letters to lowercase and also change all spaces to	
	dashes. Then append "1234!" to the end.	
	Co. the scale of (7) and a given Toat/ has a great (-) and a given to the 1224/	
Const.	So, the value 'Zimperium Test' becomes 'zimperium-test1234!'	
Synced users password	The override value of the password to use for each user when	
NA sala las a surte del Las as	they are synchronized.	
Mask Imported Users	Check this box to mask personally identifiable information	
Information	about the user when displayed, for instance name and email address.	
	address.	
Send Device Activation email	Check this box to send an email to the user for every iOS device	
via zConsole for iOS Devices	synced with the MDM.	
Send Device Activation email	Check this box to send an email to the user for every Android	
via zConsole for Android	device synced with the MDM.	
Devices	device syniced with the Midivi.	
Devices		



7) Click **Next** and choose the MobileIron Space. Then, choose the groups to synchronize, then click **Finish**.



**Note**: Spaces are used to separate managed entities for the ease of administration, such as an organizational hierarchy. Now users can sync devices for MobileIron spaces, along with the default space.

When more than one device group is chosen, the highest group in the list has the highest priority and so on down the list. If a device is present in more than one group, the group that applies is the highest group for the device.

- 8) Device/user synchronization now starts.
- 9) This can be verified by going to the Devices or Users pages in the zConsole to verify they are showing up. The device entries are greyed out until the user starts up zIPS and activates the application.

## Level 2b: Auto Sign-in/Advanced Application Deployment

The Zimperium zIPS application for both iOS and Android Enterprise (Android for Work) auto activate the user if MDM user synchronization has been configured. The process is different on each platform as described below.

#### iOS Activation

Zimperium's iOS zIPS application takes advantage of the Managed Application Configuration when the app is pushed down to the device. This provides the best user experience, allowing the user to startup iOS zIPS without having to enter any credentials. The Managed Application configuration pre-programs iOS zIPS with this information.

This configuration is done within MobileIron:

- 1) Navigate to: Apps/ App catalog/ and find the iOS zIPS app to be modified.
- 2) Click on the app, navigate to the App Configurations tab and select iOS Managed App Configuration.



## iOS Managed App Configuration

Centrally define app configuration options specific to this app and end users.

- 3) Click **Add** and enter a name for this configuration.
- 4) Add the configuration keys.

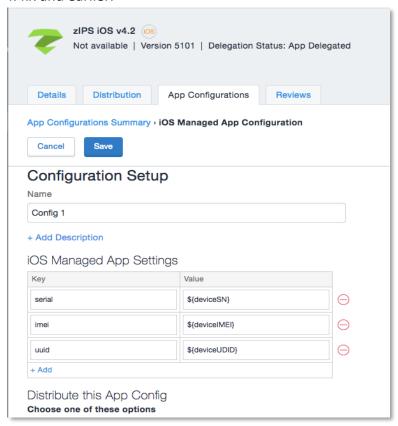
For zIPS Release 4.4.x and earlier the values are described in this table and figure.

Configuration Key	Value Type	Configuration Value
serial	String	\${deviceSN}
(serial is not included in zConsole		
Release 4.13 or later)		
imei	String	\${deviceIMEI}
(imei is not included in zConsole		
Release 4.13 or later)		

uuid	String	\${deviceUDID}
tenantid	String	Contact your Customer Support Team
defaultchannel	String	Contact your Customer Support Team

Note: The configuration keys are case sensitive.

This figure shows the Configuration Setup after adding some of the keys for zIPS Release 4.4.x and earlier.



For zIPS Release 4.7 and later the values are described in this table.

Configuration Key	Value Type	Configuration Value
uuid	String	\${devicePK}
tenantid	String	Contact your Customer Support Team
defaultchannel	String	Contact your Customer Support Team

**Note**: The configuration keys are case sensitive.

## 5) Click Save.

Each time the iOS zIPS app gets pushed to a device it contains the information specified in the plist file. When the user clicks on the zIPS app, they automatically sign into the proper zConsole environment.

#### **Android Activation**

Android Enterprise (Android for Work) users can continue to use the managed app config for activations. You need to make sure that you are passing the right device ID value for the configuration parameter. The variables are the same set as the plist variables in the "iOS Activation" section.

For native Android devices, activations require the use of activation URLs. These can be sent to end users via the zConsole or the MDM. Clicking on zIPS without the link does not activate zIPS for Android Devices. When a user runs the app with the activation URL link, it activates and downloads the proper TRM.

To access activation links, use the zConsole Manage page and select the MDM tab. After the MDM has been added, the activation link is provided for devices. This activation link is used along with appending the MDM device identifier. The zConsole page displays the expiration date and time, and if needed the link can be regenerated.

See the "Zimperium zConsole Configuration Guide" in the section "MDM Activation" for more information on the MDM activation links.

The administrator sends the concatenated activation link by email or text to users, along with instructions to accept the zIPS app being pushed to them.

#### **Activation with MobileIron Messaging**

MobileIron supports message templates where you can send a customized email to users. This is an optional activation method. See "Appendix A - MobileIron Messaging and Device Activation" for more information on how to set up these notifications.

## Level 3: Basic Protection

MobileIron Integration Level three does not apply. Proceed to level four.

## Level 4: Full Protection

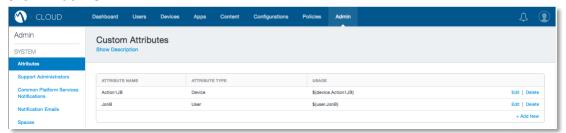
The Zimperium integration with MobileIron provides the ability to apply a specific Device Group to the device within the customer's MobileIron environment. This allows the MobileIron administrator to define specific actions such as to quarantine a device, remove email access, assign a configuration or even unenroll a device (which happens automatically). To accomplish this, the MobileIron administrator needs to coordinate with the zConsole administrator the

specific actions that are needed and do the following configuration for each one with a unique Device Group. MDM Integration with zConsole also has to be setup and functional.

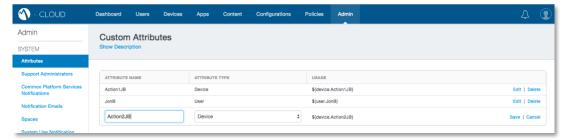
The MobileIron Cloud integration contains one built in MDM action to Lock the device. The following steps are not needed for that action to be used.

When a device is under attack and the MDM action is set to some Device Group from the integrated MobileIron server, zConsole assigns the device to that device group via API calls. To set this up several configurations need to be done on the MobileIron Console:

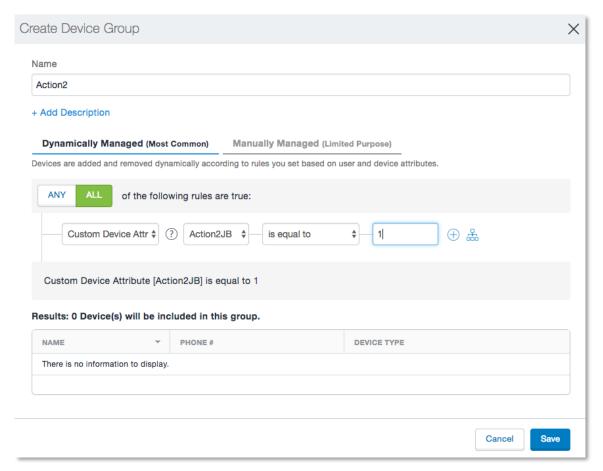
- 1. Log into the MobileIron Console.
- 2. Navigate to the Admin page.
- 3. Create a customer Device Attribute to be used to link the Device to the Device Group and Policy.
- 4. Click + Add New.



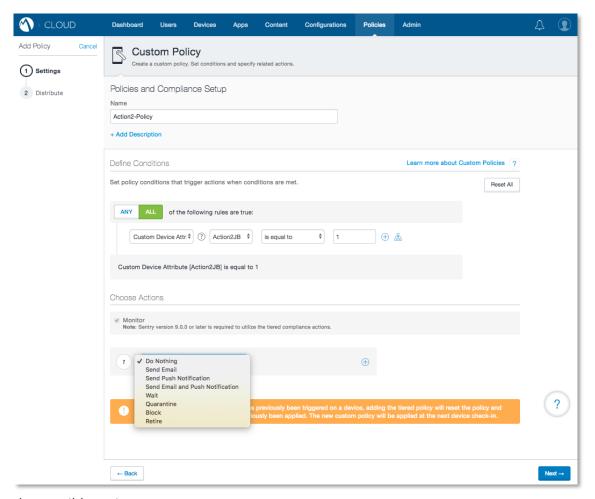
5. Type the name of the new custom attribute and choose type **Device**. In the sample below the name is 'Action2JB'. Click **Save**.



- 6. Create a dynamically managed Device Group based on the new Custom Device Attribute just created. navigate to Devices/ Device Groups. Click **+Add**.
- 7. Enter the new Device Group Name. (This is the name that shows up in the TRM MDM actions column). Choose 'Custom Device Attribute' and then the new Custom Attribute just created with a value of '1'. Click **Save**.



- 8. Create an Policy that is linked to the new Device Group just created that you plan to contain the action to carry out to protect the phone. Navigate to Policies and click **+Add**.
- 9. Choose a Custom Policy. Enter the Custom Policy name and choose the conditions, Any or All. This "Any" or "All" option does not matter as there is only one condition. Choose 'Custom Device Attribute', the new Custom Attribute name and the value entered previously, '1'. Then choose the actions to be executed as shown below. Click **Next**.



The possible actions are:

- Send Email
- Send Push Notification
- Send Email and Push Notification
- Wait
- Quarantine
- Block
- Retire

For each option selected, an appropriate entry is displayed to enter more information, such as the text to be sent to the user if 'Send Push Notification' is chosen. More than one action can be chosen by clicking on the plus-sign ('+') sign to add another action.

10. On the Distribution page, assign this policy to 'No Devices' and then click **Done**.



- 11. Log into zConsole and perform an MDM sync to learn the new Device Groups. Navigate to Manage/ MDM. Click on **Sync Now** and then **OK** for the MDM integration just modified.
- 12. The MDM actions column should now include any new Device Groups created.

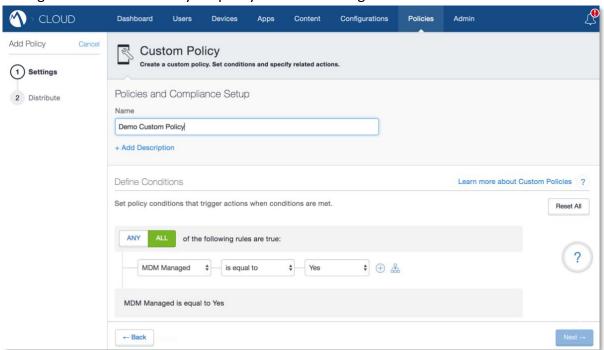
Actions assigned in the Threat Response Policy/Matrix happen automatically when the specific assigned threat is detected.

# Appendix A - MobileIron Messaging and Device Activation

MobileIron Cloud supports messaging where you can send a customized email to users. This is an optional activation method. This details the steps to configure a message template to send an email after the user's device is successfully enrolled.

Perform the following steps to set up an email after the user's device is enrolled.

- 1. Login to MobileIron Cloud at the following website: https://na2.mobileIron.com
- 2. Click **Policies** from the top menu.
- 3. Click **+Add** to add a new policy.
- 4. Select Custom Policy.
- 5. Give a name to your new policy and select the policy condition that the rule of 'MDM Managed' is set to 'Yes' and your policy looks like the figure below.



6. Scroll down and click the **Send Email** action.

7. Provide the required email subject and the body text. Here's an example of the email text snippet with an HTML link for the activation link.

```
After you have installed the zIPS app, click the link below to activate zIPS.

Activation Link:
<a href="https://activation.zimperium.com/activation?token=U2FsdGVkX183".".

bMGBnrSpI-kEIuvSE6olwZQREymFRi9h1VRM1Fos&MDM_ID=${devicePK}">Click here to activate zIPS</a>
```

**Note**: The activation URL has the MDM identifier of \${devicePK} added to the end of the URL and is in bold above.

- 8. Click the checkbox in the confirmation box.
- 9. Click Next.
- 10. Choose the option of which devices receive the email:
  - o All Devices
  - o No Devices
  - o Custom
- 11. Click Done.

This table provides the specific device identifier needed for the MDM ID field.

MDM System	MDM Device Identifier Variable
MobileIron Core	Core: \$DEVICE_UUID\$
MobileIron Cloud	Cloud: \${devicePK}

MobileIron supports messaging where you can tailor the MDM invitation email to a new user. This is changing the default email that the MDM sends. This details the steps to configure a message template to change the text for the MDM invitation email.

Perform the following steps to set up specific text for the invitation email to a new user.

- 1. Login to MobileIron Cloud at this website: https://na2.mobileIron.com
- 2. Click **Admin** from the top menu.
- 3. Click Email Templates.
- 4. Select End User Invitation.
- 5. Select the desired language/localization and edit the template text.
- 6. Provide the email subject text and body.

7. Click Preview and Save when complete.

**Note**: This template does not have any device specific information.

This figure shows the editing of this template.

