McAfee MVISION Mobile

Microsoft Endpoint Manager

Integration Guide

September 2021

Contents

Preface

This guide explains the process of integrating the MVISION Mobile Console and Microsoft Endpoint Manager (formerly Intune) Mobile Device Management (MDM) and Mobile Application Management (MAM) software.

Audience

The intended audience for this guide is an MVISION Mobile Console administrator. The MVISION Mobile Console application provides threat protection to mobile devices, and the system administrator sets policies for threats, and also monitors and manages threats detected.

Related Documentation

For more information and specific configuration information about MDM, SIEM, and iOS, Android Platforms, search for "MVISION Mobile" in the McAfee document Portal at https://docs.mcafee.com

Overview

When an MDM or MAM is integrated, the MVISION Mobile Console:

- Synchronizes users and devices from the MDM or Azure AD.
- Provides transparent user access to MVISION Mobile.
- Provides more granular and specific protection actions.

McAfee MVISION Mobile detects malicious activity and, depending on the platform, can take actions locally. When MVISION Mobile is integrated with an MDM, protection actions are performed by the MDM, providing a very powerful protection tool. When MVISION Mobile is integrated with MAM, the risk posture is identified as mobile threats are detected when the app is launched.

In detecting an event, the new risk posture level, defined by the severity of the event, is sent to Microsoft Endpoint Manager with secure APIs. Microsoft Endpoint Manager starts a workflow to take specific actions that match the level provided, as defined by the Microsoft Endpoint Manager Administrator.

Different workflows are created to handle different risk posture levels on devices through device compliance policies, and apps policies for security at the application level. With that threat posture from MAM, Microsoft Endpoint Manager blocks the user's access to the protected app. An example of a protected app is Outlook. With this protection it:

- Provides the user with instructions on how to resolve the issue.
- Sends the appropriate device risk posture to Microsoft Endpoint Manager.

Once the risk issue is resolved, it restores access to the app.

Integration Modes

You can set up your integration with the MVISION Mobile Console and Microsoft Endpoint Manager with these different modes:

- MDM only, which supports managed devices.
- MAM only, which supports unmanaged devices.
- MDM and MAM, which supports both managed and unmanaged devices.
- Third-party MDM and Microsoft MAM, which supports MAM for devices managed by a different MDM. This option is only for the MVISION Mobile app.

Prerequisite Requirements

Integration with Microsoft Endpoint Manager requires a connection between the McAfee MVISION Mobile Console and the Microsoft Endpoint Manager API server. This is accomplished via the Internet using SSL on TCP port 443. In a typical Microsoft Endpoint Manager deployment, there are no changes that need to occur for this communication.

The following table details specific requirements for the Microsoft Endpoint Manager integration.

Item	Specifics
Microsoft Endpoint Manager enrolled device	iOS or Android
Android Version	v6.0 or higher
iOS Version	v10.0 or higher
MVISION Mobile App for Android	v4.12 or higher The MDM with MAM and Third-Party MDM with MAM options require MVISION Mobile 4.17 or higher.
MVISION Mobile App for iOS	v4.12 or higher The MDM with MAM and Third-Party MDM with MAM options require MVISION Mobile 4.17 or higher.
Administrator Account for Microsoft Endpoint Manager Console	Initially, the role of “Global Administrator” is required. Once the initial setup is completed, the “Limited Administrator” with the “Intune Administrator” is sufficient.
MS Authenticator on iOS (optional)	If MS Authenticator is used, then SSO on iOS devices is required.
License Granted to User	Ensure that the “Enterprise Mobility + Security E3” or “Enterprise Mobility + Security E5” license is applied to the user created on the Microsoft Endpoint Manager console.

Azure Active Directory Global Administrative Credentials	Must have “Global Administrator” access to sign-in, read the user profile, access the directory, read directory data, and send device information to Microsoft Endpoint Manager.
MVISION Mobile Console Admin Credential	Must have Admin credentials.
Groups	You must set up your groups in Microsoft Endpoint Manager.
MDM Password	Do not use a colon(:) in the MDM password field, or use ‘password’ as a password value.

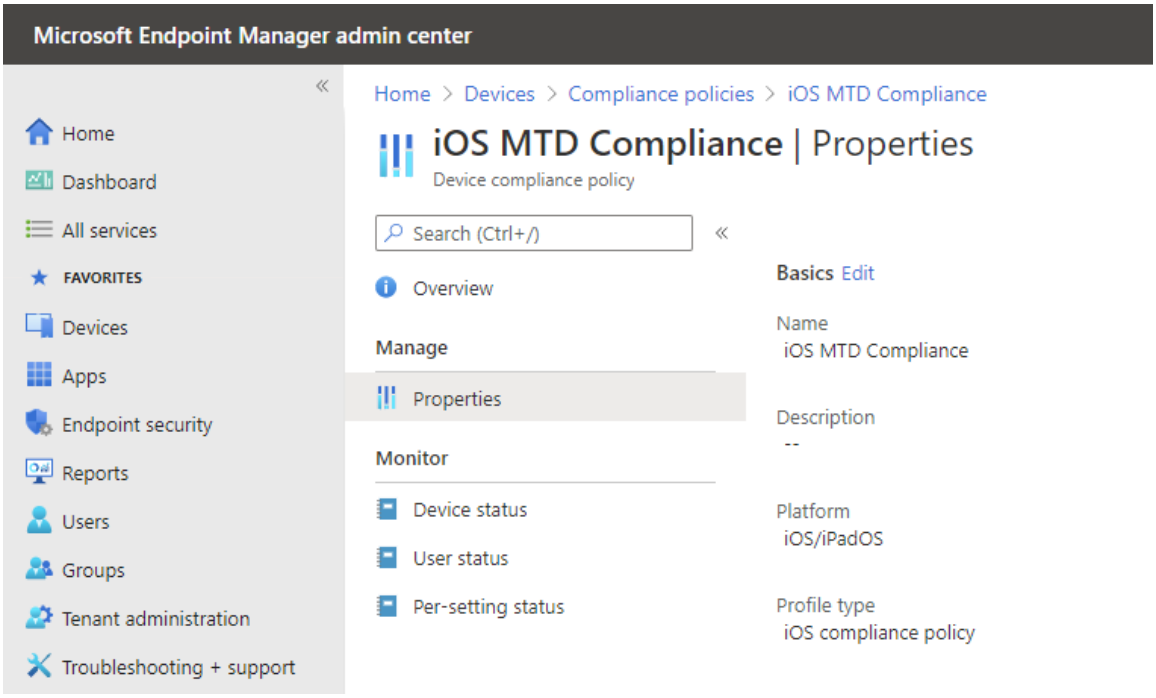
About MDM, MAM, and MVISION Mobile Console Communication

McAfee MVISION Mobile integrates with Microsoft Endpoint Manager MDM, and the MVISION Mobile Console is configured to share information with the Microsoft Endpoint Manager console through API access. When MVISION Mobile detects an event, it consults the current Threat Policy on the device, and if there is a specific MDM action defined, this is communicated to the MVISION Mobile Console. The MVISION Mobile Console then reaches out to the proper Microsoft Endpoint Manager API Server and performs the action defined for the device’s risk posture level.

McAfee MVISION Mobile integrates with Microsoft Endpoint Manager MAM and the MVISION Mobile Console as an information source for device compliance to evaluate Conditional Access rules based on the risk that often accompanies bring-your-own-device (BYOD) issues that arise with unmanaged devices. In limiting the type of apps that users can have on their own devices (non-company-owned), this integration prevents compromised devices from spreading the malware, or actual security threat, to other devices on the network. When the MAM detects the threat, it removes the device from the network until the threat is resolved and the device is again safe to access the company network.

Device Compliance Overview

McAfee interacts with the Microsoft Endpoint Manager MDM through API’s that provide the ability to modify device configurations securely over the internet. Microsoft Endpoint Manager takes specific actions based on the Device Threat Level defined for a device and the Device Health setting shown in the figure. The details of setting this up are in the “Device Actions, Policies, and Remediation” section.



The possible device threat levels are Secured, Low, Medium, and High. The Admin defines the minimally acceptable device threat level in the “Device Health” policy.

These levels correspond to the McAfee MVISION Mobile severity levels:

Microsoft Endpoint Manager Device Threat Level	**McAfee MVISION Mobile Threat Level**
Secured	Normal
Low	Low
Medium*	Elevated
High	Critical

Note: *McAfee recommends that the user selects the minimally safe device threat level to be Medium.*

The device Risk Posture in the MVISION Mobile Console is the highest severity level of a pending event assigned to a device.

MVISION Mobile sends the device's updated risk posture in response to a threat if the Threat Policy is set to “Inform EMM” for that threat. The severity of the threat is sent to Microsoft Endpoint Manager and matched up with the device threat level on Microsoft Endpoint Manager.

Device Application Deployment Set Up

To deploy the device application, such as McAfee MVISION Mobile, through Microsoft Endpoint Manager, use the app from the App Store for the iOS version and the Google Play Store for the Android version.

Configuration Steps

Some configuration steps are performed on the Microsoft Endpoint Manager side. Other steps are performed for MVISION Mobile Console. After setting up the configuration, the following occurs:

- Devices and their associated users are synchronized through integration
- Device and user management functions are handled at the Microsoft Endpoint Manager console

Synchronization also provides SSO access so that users can utilize their Azure credentials when starting the device application. The Microsoft Authenticator app is optional for the device where MVISION Mobile or a given app is installed. If MS Authenticator is desired, set this app up in Microsoft Endpoint Manager from the App store and assign it to the same iOS devices that are protected by MVISION Mobile.

When an iOS user starts MVISION Mobile, the user is redirected to login through Microsoft Authenticator with their Azure credentials. Android users do not need to have Microsoft Authenticator on their device but still use their Azure credentials to log into MVISION Mobile. See the appendices for information on the iOS and Android user experiences.

For Microsoft Endpoint Manager, the Google Play Store MVISION Mobile link is used with a referrer attribute for MVISION Mobile activation. See the "*Appendix D - Google Play Store MVISION Mobile Link with Referrer Attribute*" in the "*MVISION Mobile Console Configuration Guide*" for more information.

NOTE: *The Google Play Store referrer attribute functionality is supported for Android OS version 9 or earlier. This functionality also requires the Google Play Store app Release 8.3.73 or later.*

After the initial synchronization during the MDM Integration setup, devices are managed through a scheduled synchronization process that runs every four hours. Any changes in the group(s) being used for synchronization are duplicated at the MVISION Mobile Console. If devices are removed, then they are removed from the MVISION Mobile Console. Doing this does not remove any of the events associated with that device.

Synchronization begins once the connector is available.

This link provides additional information on MAM:

https://docs.microsoft.com/en-us/mem/intune/apps/mam-faq

Important: *Do not remove an integration from the MVISION Mobile Console (or, in other words, de-provision an Endpoint Manager connection in the MVISION Mobile Console) if you have multiple Endpoint Manager connections setup in MVISION Mobile Console for the same Endpoint Manager tenant. You can edit the instance, for instance, to remove or add groups. You can remove an integration instance or a connection in MVISION Mobile Console if there is not another connection for the same Endpoint Manager tenant.*

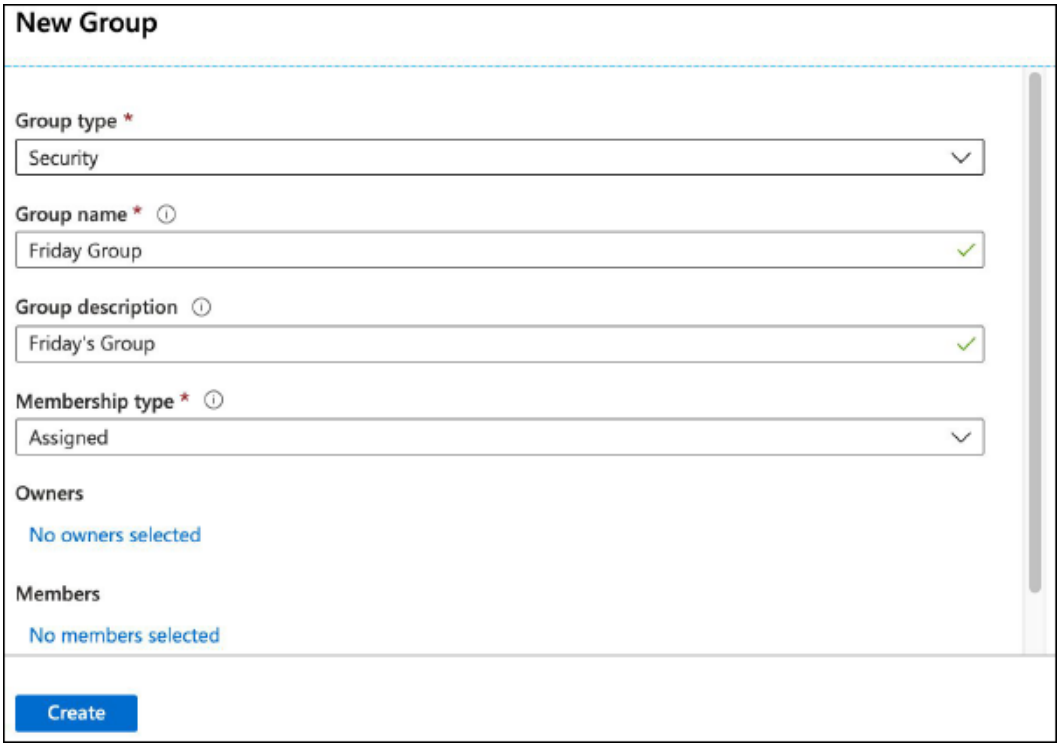
Integrate MVISION Mobile with Microsoft Endpoint Manager

This section provides the steps to integrate the MVISION Mobile apps with Microsoft Endpoint Manager. Groups and users need to be set for MDM or MAM integration.

Creating Groups in the Endpoint Manager Console

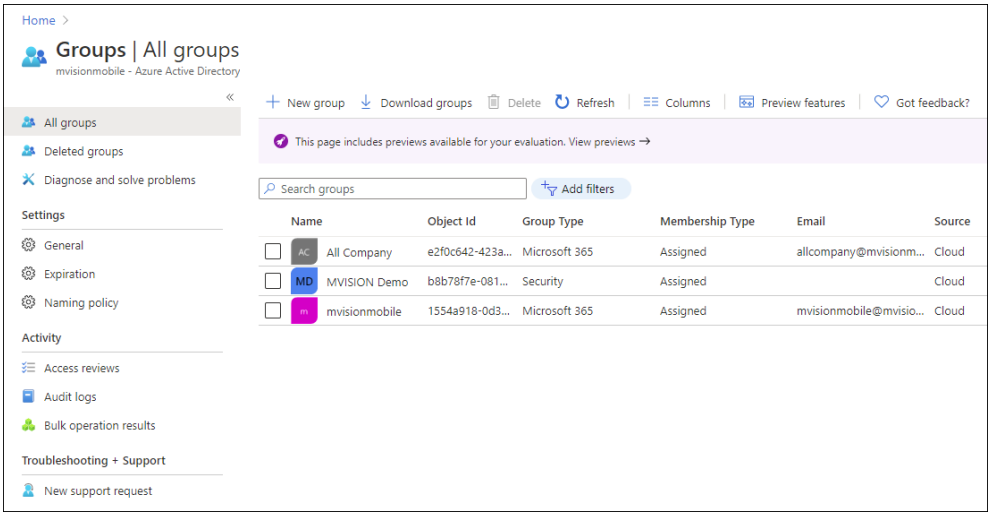
To create the Groups in the Endpoint Manager Console:

1. Log in to the main Microsoft Endpoint Manager console and in the navigation panel and select **Groups.**
2. The Groups page is shown listing all the current Groups which are defined. Click **+ New group** at the top of the window.
3. The **New Group** window opens to allow the creation of a new group. For the **Group type**, select **Security**. This group type is **required** because only groups of this type are synchronized.



4. Enter the **Group name** and enter the **Group description.**
5. Select the **Membership type** of **Assigned.**

6. If any of the members assigned to this group are already created, click **Members**, and add the users to the group; otherwise, the members are assigned to the Group when the member is created.
7. Click the **Create** button, and the listing of all groups opens with the group you added.

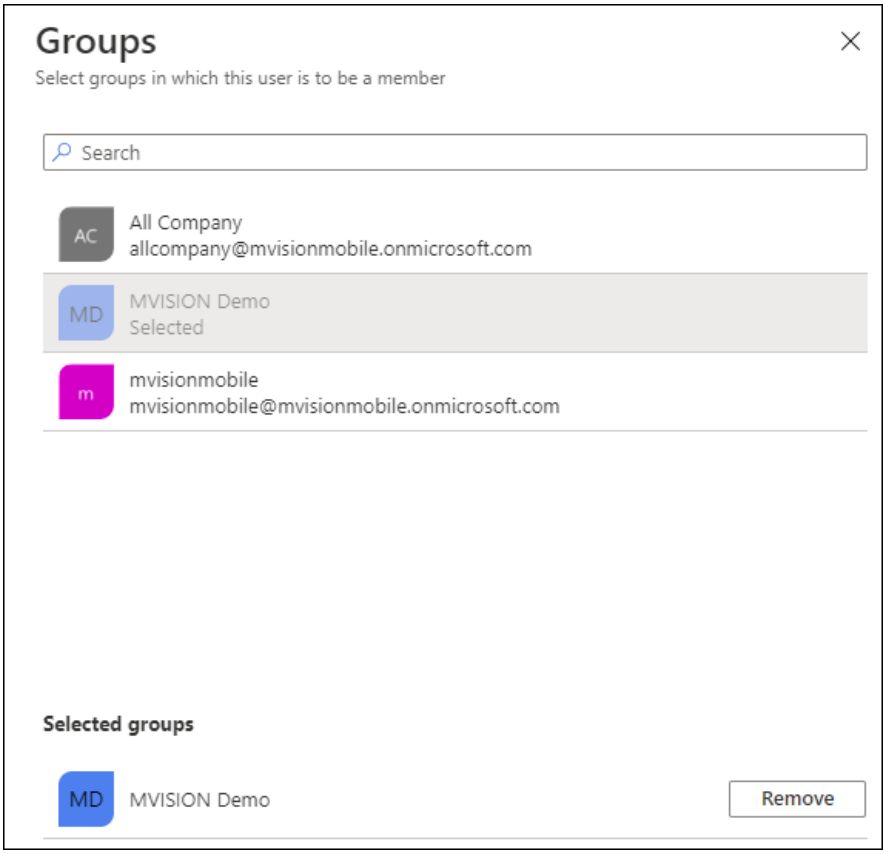


Warning: *Nested groups are not synchronized automatically. You must add nested groups manually.*

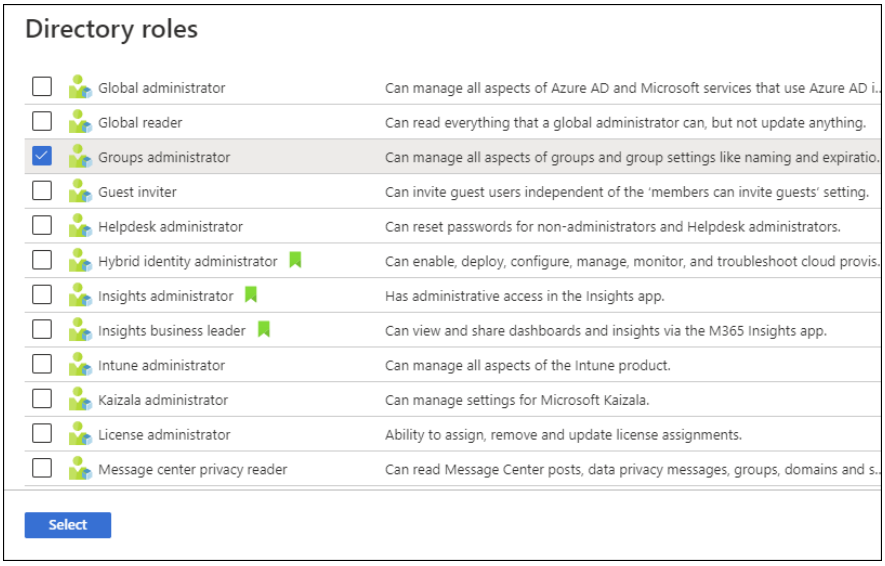
Creating Users in the Endpoint Manager Console

Ensure the user is logged in as a user having the "Global Administrator" role. If the user does not have this role, create an administrator user to use for API access by performing the following steps:

1. Log in to Microsoft Endpoint Manager and click **Users** in the navigation panel. The list of users displays.
2. Click **+ New user**, and the page opens to create the new user.
3. Enter the user information.
4. Assign the user to a Group. Click the link for Groups, and search and click the desired Group.



5. When all the desired Groups are selected, click the **Select** button.
6. The role of the user needs to be selected. Click the link for the Roles and the list of User Roles opens.



7. Select the desired role(s) for the user, click the **Select** button.
8. Set the settings and Job Info values.

9. Click the **Create** button to define the user. The list of all defined users displays.
10. Assign the License to the User.

Overview on Setting Up Microsoft MDM or MAM with MVISION Mobile Console

Configuring the MVISION Mobile Console is required and needed to have:

- MVISION Mobile login to the MVISION Mobile backend server
- Device and user synchronization (for MDM)

This table describes the modes for Microsoft Endpoint Manager MDM and MAM.

Mode	Section Link
MDM only, which supports managed devices	See the Setting Up Microsoft MDM Only and MVISION Mobile Console section for details.
MAM only, which supports unmanaged devices	See the Setting Up Microsoft MAM Only and MVISION Mobile Console section for details.
MDM and MAM, which supports both managed and unmanaged devices	See the Setting Up Microsoft MDM and MAM and MVISION Mobile Console section for details.
Third-party MDM and Microsoft MAM, which supports MAM for devices managed by a different MDM	See the Setting Up Third-Party MDM and Microsoft MAM and MVISION Mobile Console section for details.

Important: *Do not remove an integration from the MVISION Mobile Console (or, in other words, de-provision an Endpoint Manager connection in the MVISION Mobile Console) if you have multiple Endpoint Manager connections setup in MVISION Mobile Console for the same Endpoint Manager tenant. You can edit the instance, for instance, to remove or add groups. You can remove an integration instance or a connection in MVISION Mobile Console if there is not another connection for the same Endpoint Manager tenant.*

Setting up Microsoft MAM Only and MVISION Mobile Console

Configuring Microsoft MAM involved setting up MVISION Mobile Console and Microsoft Endpoint Manager. These sections describe those configurations.

Configuring MVISION Mobile for MAM Only

After setting up groups and users, the next step is connecting the Microsoft Endpoint Manager environment to the MVISION Mobile Console.

Perform the steps in the section "Configuring MVISION Mobile Console for MDM Only, MAM Only, or MDM and MAM" to set up the MVISION Mobile Console integration for MAM. Then continue through this section and complete these steps.

Configuring Endpoint Manager for MAM

After setting up the MVISION Mobile Console, the next step is configuring the Microsoft Endpoint Manager environment for MAM. You must:

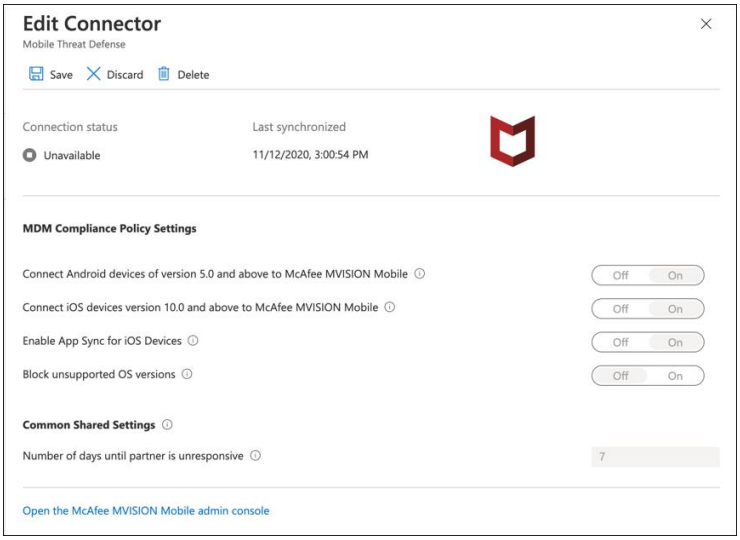
- Configure the MTD Connector
- Create the App Protection Policies

Configure the MTD Connector

Warning: *If you migrate from the Zimperium connector to the MVISION Mobile connector, active devices change from "Pending Activation" status to "Active" the next time the device checks-in with the MVISION Mobile Console.*

Perform these steps to set up the MTD Connector properties:

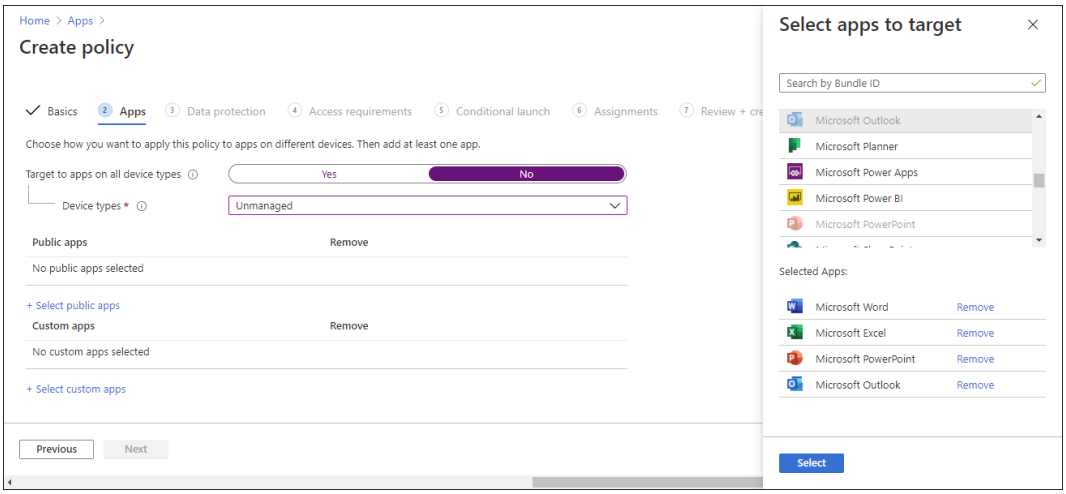
1. Login to Microsoft Endpoint Manager.
2. Click and navigate to **Tenant Administration** > **Connectors and tokens** > **Mobile Threat Defense**.
3. Click **McAfee MVISION Mobile** as the MTD Connector.
4. Under the **MDM Compliance Policy Settings** section, consider turning on the sliders for **Connect Android Devices**, **Connect iOS Devices**, and **Enable App Sync for iOS Devices**.
5. Make sure the sliders for **Connect Android Devices** and **Connect iOS Devices** are set to **On** in the **App Protection Policy Settings** area. This forces the Microsoft Office 365 apps to check for the device threat level provided by MVISION Mobile before launching.



Create and Configure the APP Protection Policy

Perform these steps to set up the app protection policy for both iOS and Android:

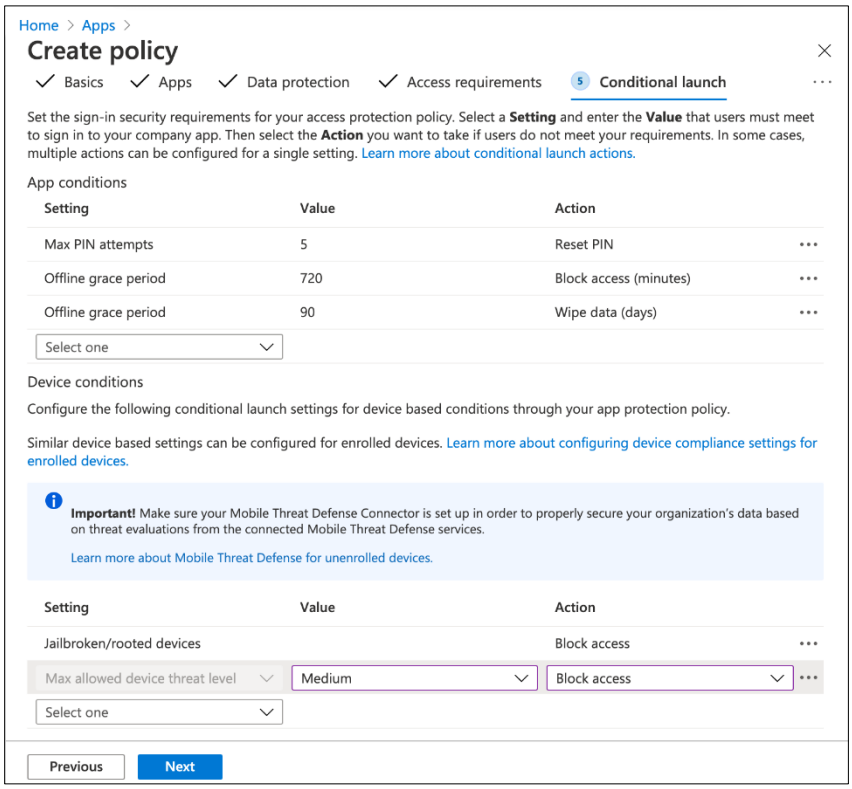
1. Login to Microsoft Endpoint Manager.
2. Click and navigate to **Apps > Apps Protection Policies**.
3. Click **+ Create policy**
4. Select the type of policy, either **iOS/iPadOS or Android**.
5. Type a unique policy name and click **Next**.
6. Change the **Target to Apps on all Device Types** toggle to **No**.
7. Set the **Device Types** to **Unmanaged**.
8. Under the **Public Apps** section, click **+ Select Public Apps** and search and select one or more apps to target and click **Select**. This figure shows Microsoft Outlook selected.



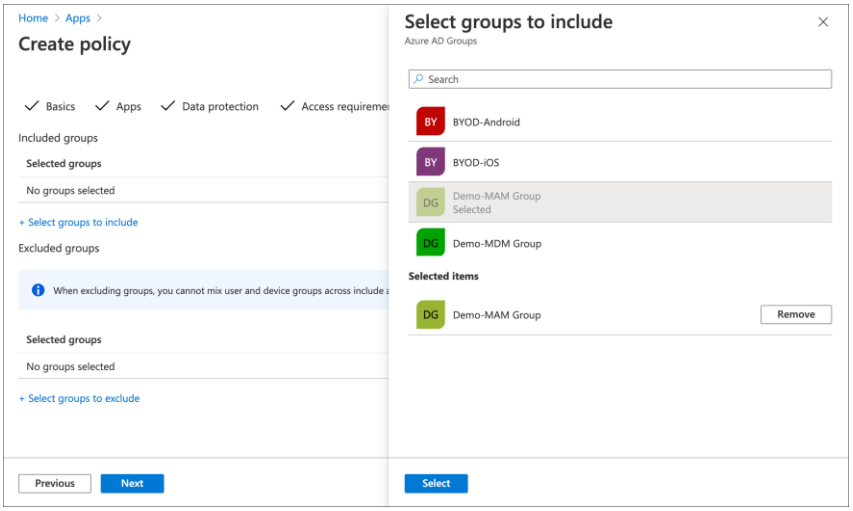
NOTE: *For a list of the currently supported MAM apps, see this website: https://docs.microsoft.com/en-us/mem/intune/apps/apps-supported-intune-apps*

9. After selecting the desired app(s) to target, click the **Next** button.
10. The **Data Protection** tab configures settings that dictate how the managed apps interface with other apps on the device. Select the settings that meet your organization's requirements and then click **Next**.
11. The **Access Requirements** tab configures settings that dictate how apps are launched on the device. Select the settings that meet your organization's requirements. Consider the defaults as a good baseline and then click **Next**.
12. The **Conditional Launch** tab configures the device conditions. In the Device Conditions section, add a setting for **Max Allowed Device Threat Level**. Select the maximum value and desired action for when the threat threshold is crossed and click **Next**. This figure shows this being set.
    Important: *This setting is key and links McAfee MVISION Mobile MTD to the device's threat posture. If Microsoft Endpoint Manager does not have a threat posture for the device, it communicates with the app through the SDK to alert the user to install the*

McAfee MVISION Mobile app. The user is then unable to use the managed app until they install and activate MVISION Mobile.



13. The **Assignments** tab assigns the policy to the group or groups of users and devices. Click **+Select Groups to Include** and choose the desired group(s) and click **Next**.



14. Review the policy settings and click **Create** to add the policy.
15. Repeat these steps and create an app protection policy for the other platform, either **iOS/iPadOS** or **Android**, depending on what you chose for the first policy.

If you selected the MAM only mode, you now have the MAM configuration for Microsoft Endpoint Manager integration with McAfee MVISION Mobile MTD complete.

Setting Up Microsoft MDM Only and MVISION Mobile Console

Configuring MVISION Mobile for MDM Only

***Warning**: If you configured a Microsoft Endpoint Manager integration in the MVISION Mobile Console before the 4.28.13 release, that integration uses the Zimperium connector in Microsoft Endpoint Manager. If you migrate from the Zimperium connector to the MVISION connector, active devices change from "Pending Activation" status to "Active" the next time the device checks in with MVISION Mobile Console.*

For MVISION Mobile Console Release 4.28.13, configuring any new Microsoft Endpoint Manager integration sets up the integration to use the MVISION connector in Microsoft Endpoint Manager.

For MVISION Mobile Console Release 4.30.x or later, configuring any new Microsoft Endpoint Manager integration sets up the integration to use the MVISION connector in Microsoft Endpoint Manager for the first integration. Or, for additional integrations, it uses the same connector in Microsoft Endpoint Manager that you had previously.

After setting up groups and users, the next step is connecting the Microsoft Endpoint Manager environment to the MVISION Mobile Console.

Configuring the MVISION Mobile Console is required and needed to have:

- Device and User synchronization
- MVISION Mobile Console login

Perform the steps in the section "Configuring MVISION Console for MDM Only, MAM Only, or MDM and MAM" to set up the MVISION Mobile Console Integration. Then continue through the remaining sections here to configure the Microsoft Endpoint Manager and synchronization.

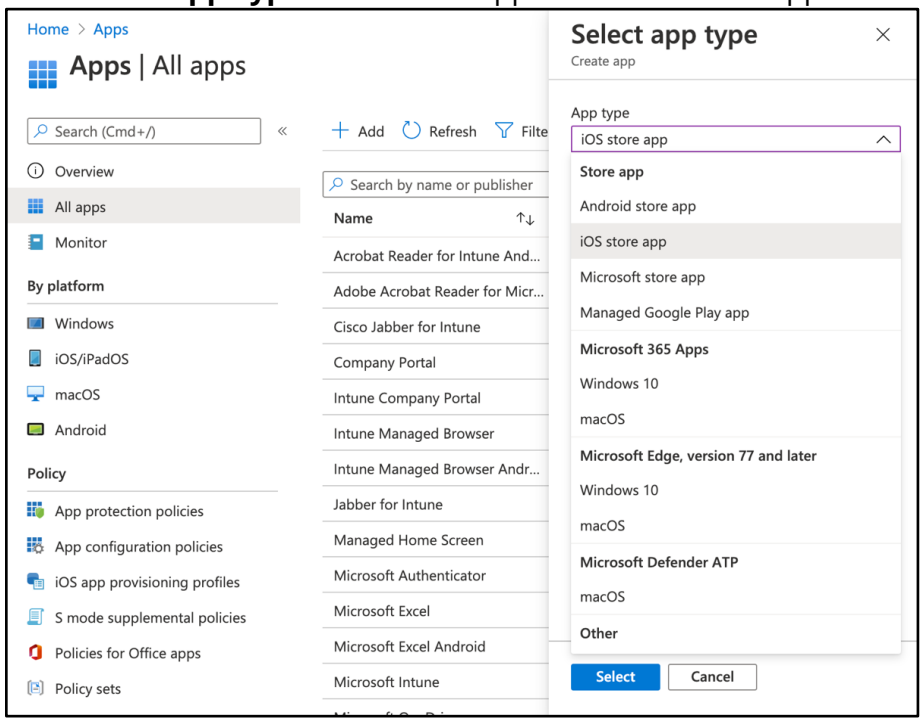
On-Demand Device Synchronization for MDM

Due to the four-hour synchronization window, there are times when a newly enrolled device has the MVISION Mobile app pushed down to their device and attempts to start it prior to the device actually being synchronized with the MDM. This is not an issue when integrated with Microsoft Endpoint Manager, MVISION Mobile handles on-demand device synchronization with single sign-on via Microsoft Azure and Microsoft Endpoint Manager services. To handle this, auto activation has to be enabled. This is covered in the "Configuring the Device Auto-Activation" section.

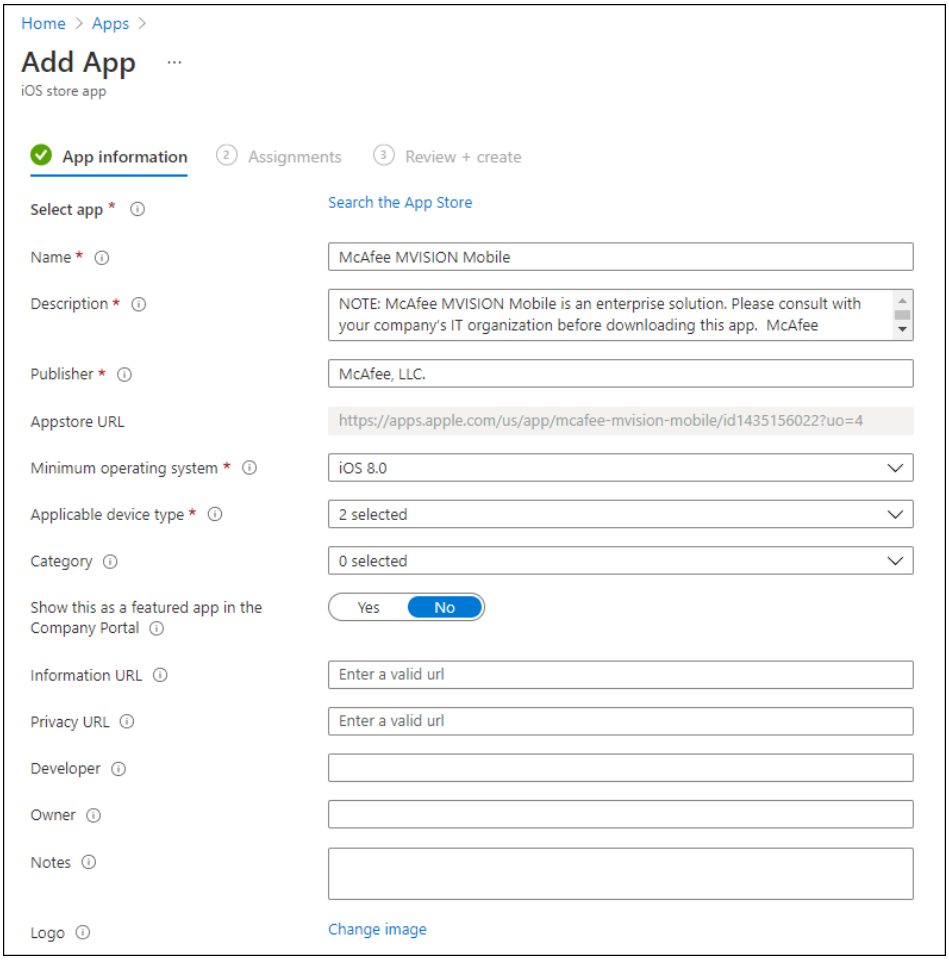
Configuring Microsoft Endpoint Manager and Apps for MDM

Perform the following steps:

1. Login to Microsoft Endpoint Manager.
2. Navigate to **Apps**.
3. Then click **All Apps** and **+ Add**.
4. Choose the **App Type** of iOS store app or Android store app and click **Select**.



5. Search the App Store for **McAfee MVISION Mobile** and then click the **Select** button.
6. In the **App Information** tab, enter the **Information URL** and then select the **Next** button.



7. In the **Assignments** tab, select one or more groups.
8. Review the settings and click **Create**.
9. Repeat these steps for the other platform, either iOS or Android.

Setting Up Microsoft MDM and MAM and Mobile Console

This option allows you to use the Microsoft MDM and also use the Microsoft MAM functionality.

Configuring MVISION Mobile Console for MDM and MAM

After setting up groups and users, the next step is connecting the Microsoft Endpoint Manager environment to the MVISION Mobile Console.

Configuring MVISION Mobile Console is required and needed to have:

- Device and User synchronization (with MDM)
- MVISION Mobile Console login

Perform the steps in the section "Configuring MVISION Mobile Console for MDM Only, MAM Only, or MDM and MAM" to set up the MVISION Mobile Console Integration. Then continue through the remaining sections here to configure the Microsoft Endpoint Manager and synchronization.

Configuring Microsoft Endpoint Manager for MDM and MAM

Step through these other sections in this document.

MDM Setup:

- Reference this section for information on device synchronization "On-Demand Device Synchronization for MDM."
- Configure the apps for MDM. See "Configuring Microsoft Endpoint Manager and Apps for MDM" for these steps.

MAM Setup:

- Configure the MTD Connector. See "Configure the MTD Connector" for these steps.
- Create the App Protection Policies. See "Create and Configure the App Protection Policy" for these steps.

Setting Up a Third-Party MDM + Microsoft MAM and Mobile Console

This option allows you to use an MDM other than Microsoft's MDM, and also use Microsoft's MAM functionality.

Configuring the Third-Party MDM

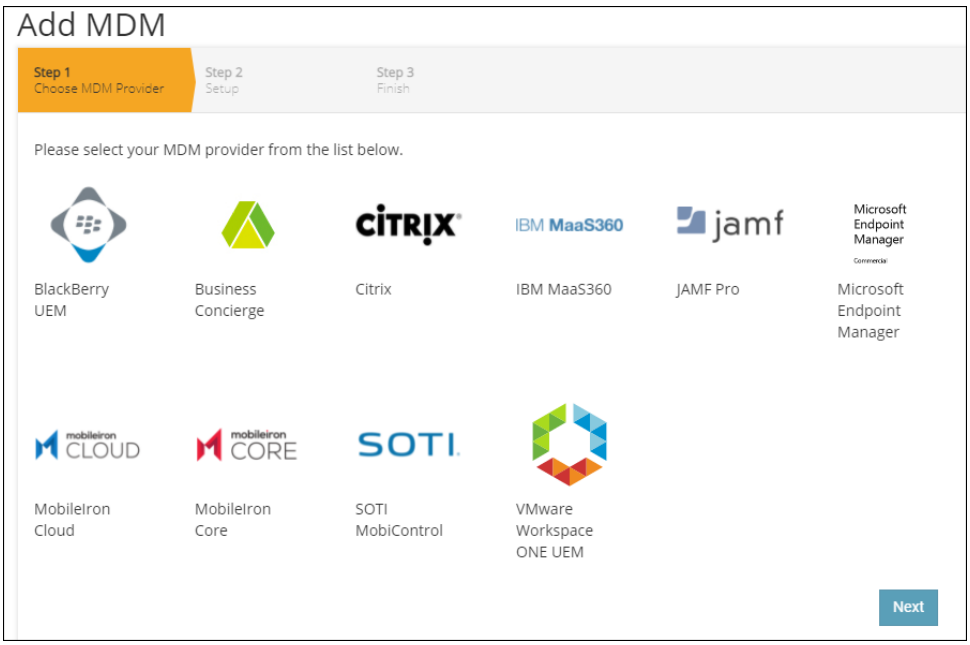
Configure your third-party MDM integration. Refer to the documentation on the Zimperium Support Portal for information on other MDM integrations. The link to the portal is in this section "Related Documentation."

Configuring MVISION Mobile Console for Third-Party MDM + MAM

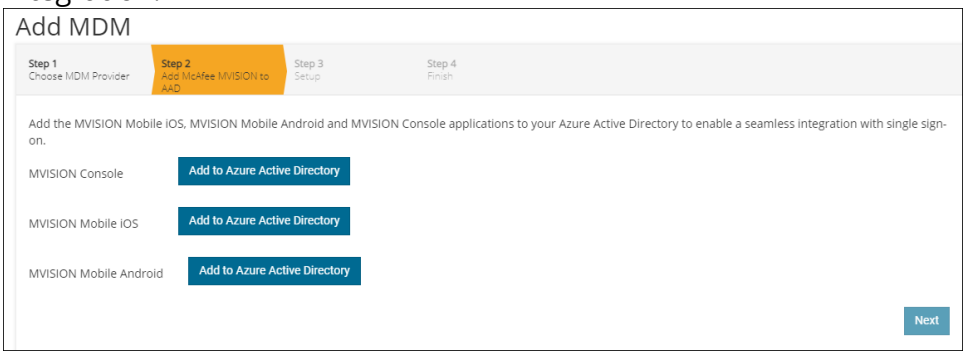
After setting up groups and users, the next step is connecting the Microsoft Endpoint Manager environment to the MVISION Mobile Console.

Perform these steps to set up the MVISION Mobile Console Integration:

1. Login to the MVISION Mobile Console.
2. Navigate to the **Manage** page and select the **Integrations** > **MDM** tab.
3. Click **Add MDM** and select the **Microsoft Endpoint Manager** icon.



4. The next step is to add the 'MVISION Console', the 'MVISION Mobile iOS', and the 'MVISION Mobile Android' applications to the Azure Active Directory to enable the integration.



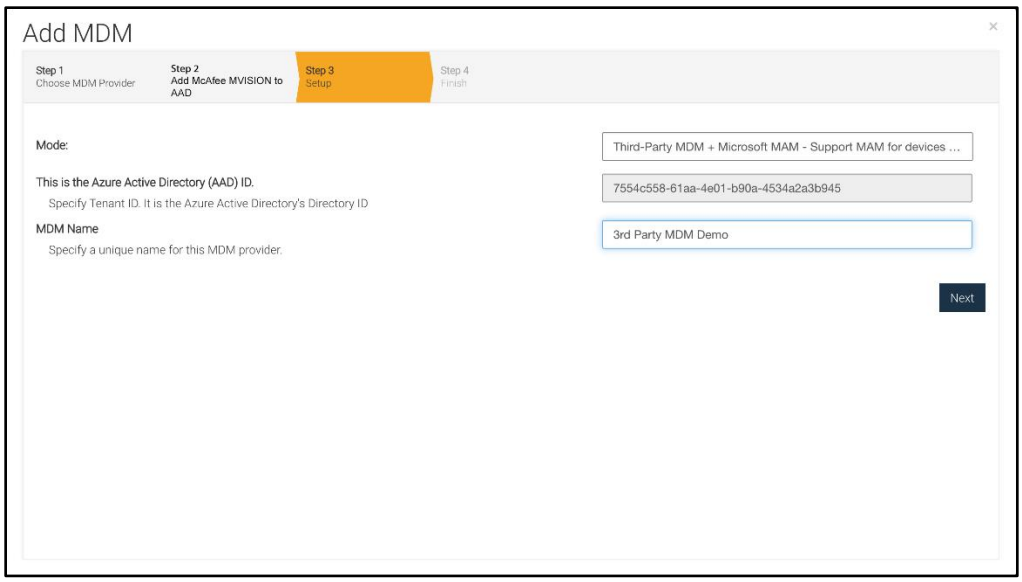
   a. To add the MVISION Console, click the **Add to Azure Active Directory** button for each.
   The Microsoft sign-in window opens. Enter the login and password.

      ***Note**: You must authenticate successfully for all three for the integration to work successfully.*

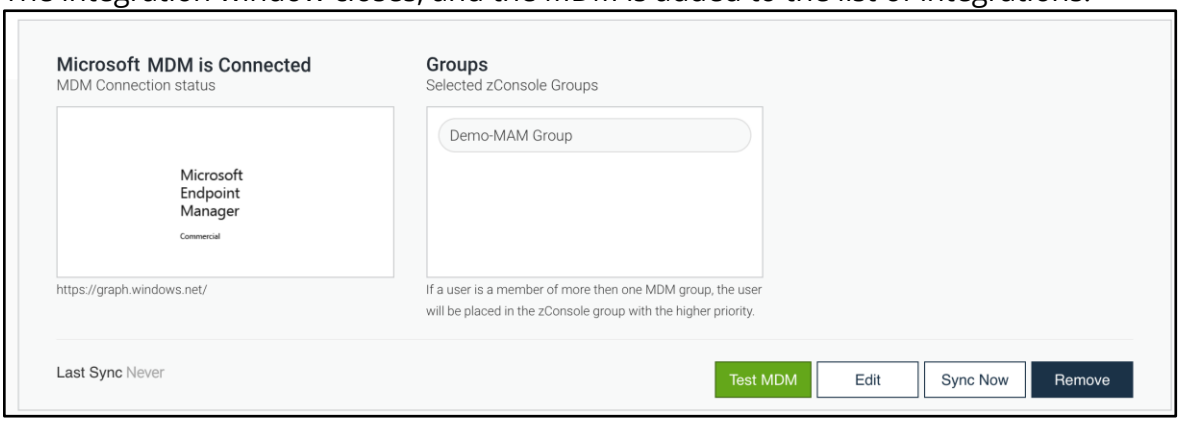
   b. The next step is to accept permission for the connection.
   c. Repeat these steps for MVISION Mobile iOS and MVISION Mobile Android.
   d. Verify that all the MVISION Mobile Console, MVISION Mobile iOS, and MVISION Mobile Android apps are accepted.

5. Click the **Next** button and the Add MDM **Step 3 Setup** window opens.

6. Select the **Third-Party MDM + Microsoft MAM** option.



7. Type a unique name in the **MDM Name** field for the environment.
8. The integration window closes, and the MDM is added to the list of integrations.



***Note**: The MAM ID in the MVISION Mobile Console is populated after launching MVISION Mobile from a MAM app.*

Configuring Microsoft Endpoint Manager for MAM

After setting up the MVISION Mobile Console, the next step is configuring the Microsoft Endpoint Manager environment for MAM. You must:

- Configure the MTD Connector. See "Configure the MTD Connector" for these steps.
- Create the App Protection Policies. See "Create and Configure the App Protection Policy" for these steps.

Configuring MVISION Mobile Console for MDM Only, MAM Only, or MDM and MAM

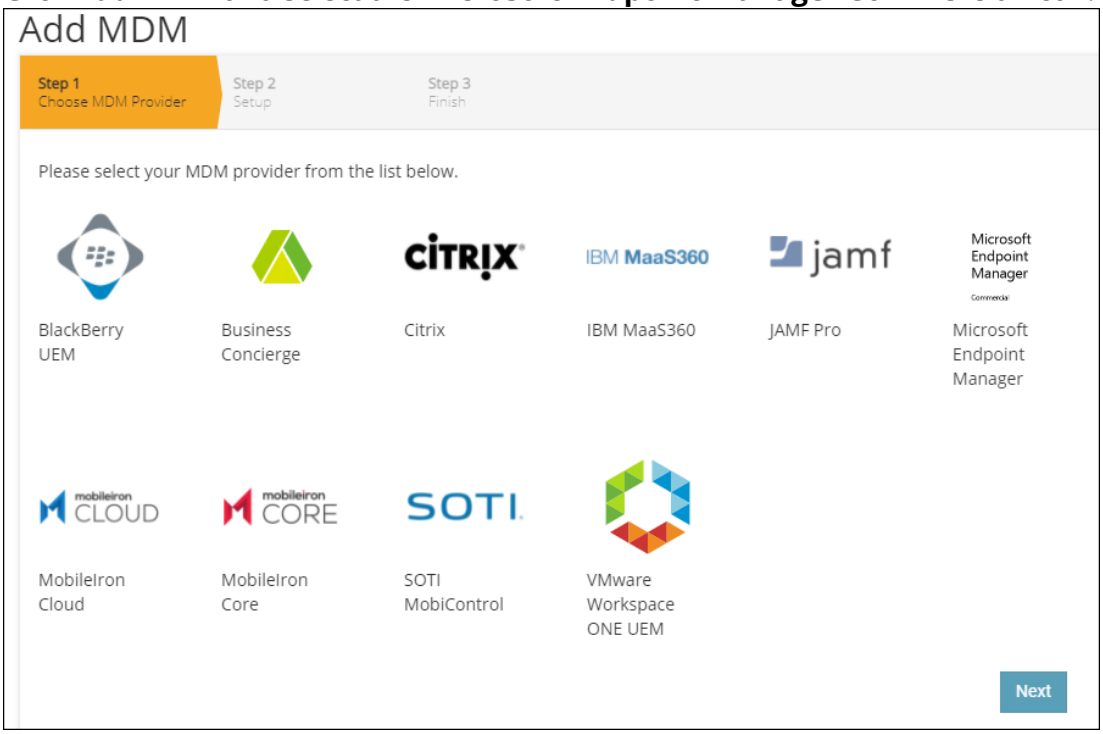
After setting up groups and users, the next step for several modes is connecting the Microsoft Endpoint Manager environment to the MVISION Mobile Console.

Warning: *If you configured a Microsoft Endpoint Manager integration in the MVISION console prior to the 4.28.13 release, then that integration is using the Zimperium connector in Microsoft Endpoint Manager. If you migrate from the Zimperium connector to the MVISION connector, active devices change from "Pending Activation" status to "Active" the next time the device checks-in with MVISION Mobile Console.*

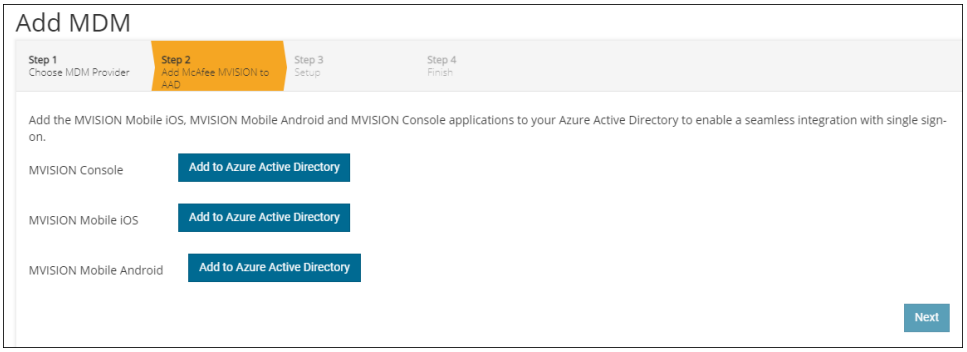
Configuring any new Microsoft Endpoint Manager integration in MVISION Mobile Console Release 4.28.13 or later, sets up the integration to use the MVISION connector in Microsoft Endpoint Manager.

Perform these steps to set up the MVISION Mobile Console Integration:

1. Login to MVISION Mobile Console.
2. Navigate to the **Manage** page and select the **Integrations** > **MDM** tab.
3. Click **Add MDM** and select the **Microsoft Endpoint Manager Commercial** icon.



4. The next step is to add the 'MVISION Console', the 'MVISION Mobile iOS', and the 'MVISION Mobile Android' applications to the Azure Active Directory to enable the integration.



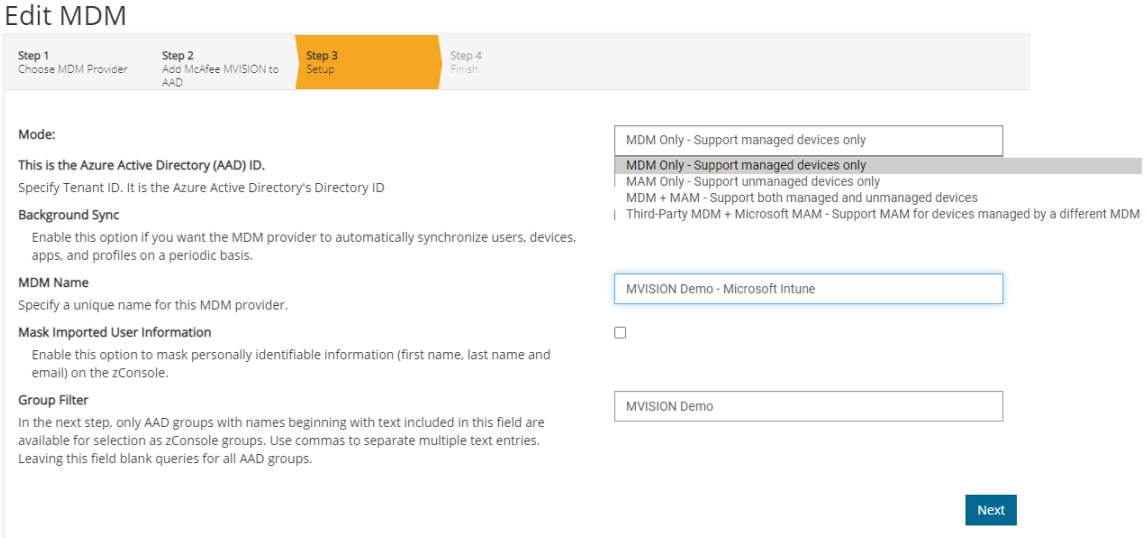
a. To add the MVISION Console, click the **Add to Azure Active Directory** button for each.
   The Microsoft sign-in window opens. Enter the login and password.

   ***Note**: You must authenticate successfully for all three for the integration to work successfully.*

b. The next step is to accept permission for the connection.
c. Repeat these steps for MVISION Mobile iOS and MVISION Mobile Android.

5. Verify that all the MVISION Console, MVISION Mobile iOS, and MVISION Mobile Android apps are accepted with MVISION Mobile Console only for the Government Cloud option.

6. Click the **Next** button and the **Add MDM Step 3 Setup** window opens.



7. Select the option that you want:
   a. MDM only which supports managed devices.
   b. MAM only which supports unmanaged devices.
   c. MDM and MAM which supports both managed and unmanaged devices.

For the third-party MDM with Microsoft MAM option, see the "Setting Up a Third-Party MDM + Microsoft MAM and MVISION Mobile Console" section.

8. Select the **Background Sync** checkbox if you want synchronization to be done in a background mode.
   ***Note**: For the MAM only option, devices do not show up in the regular device list since these devices are not managed.*

9. Give a unique name in the **MDM Name** field for the environment.

10. Select if you want user information masked and not shown.

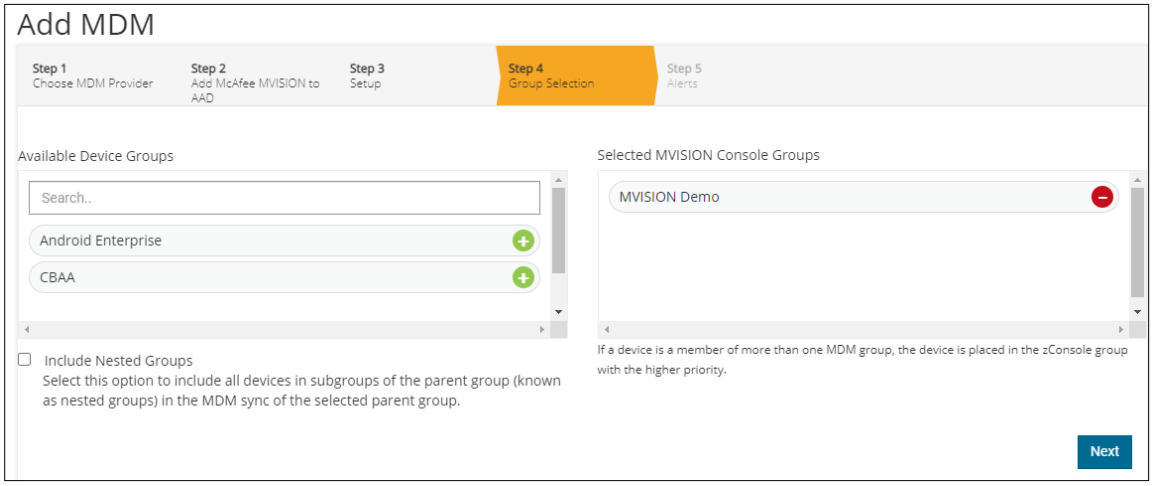
11. A group filter can be set, because if there is no group filter, all of the Groups appear when selecting the groups to manage. This filter is helpful when the environment is large and contains an extensive number of groups. It is recommended to use the Group Filter for ease of selecting the desired groups. Multiple group filters can be used and are separated with a comma.

    ***Note**: After the full initial synchronization during the MDM integration setup, a scheduled synchronization process runs every four hours.*

12. Click **Next**.

13. Select the groups in this step. Click the green plus icon, next to the Azure group(s) to synchronize from the **Available MDM Groups** on the left. After a group is chosen, it appears in the **Selected MVISION Mobile Console Groups** on the right-hand side.

    Click the **Include Nested Groups** checkbox if you want the inclusion of nested groups. With this setting, all devices in subgroups of the parent group are included in the MDM sync of the selected parent group.



14. Click **Next**.

15. Specify the MDM alerts if you want to be notified when there are MDM sync errors. If you want more than one email address, separate them by a comma. For more information on this step, see "Specifying MDM Alerts" in the "*MVISION Mobile Console Product Guide*."

    ***Note**: This alert feature is available with MVISION Mobile Console Release 4.35 or later. MVISION Mobile Console Release 4.35.1 has the MDM alerts as the last step in this flow.*

16. Click **Finish** to save the configuration.

17. Click the **Sync Now** button. Make sure you configure the threat and phishing policies for the groups selected. Refer to the "*McAfee MVISION Mobile Console Product Guide*" for more information.

    ***Note:** When creating the Administrator, after the initial setup (adding and granting the applications) and the synchronization is completed, be sure to update the user defined as the Administrator (used as the API administrator) to the "Limited administrator" directory role and select the role of "Intune administrator".*

    ***Note for MDM**: Once the connector is in an available status, the synchronization is verified by going to the Devices or Users pages in the MVISION Mobile Console to see them showing up. The device entries in MVISION Mobile Console are greyed out until the user starts up MVISION Mobile and activates.*

Configuring the Device Auto-Activation

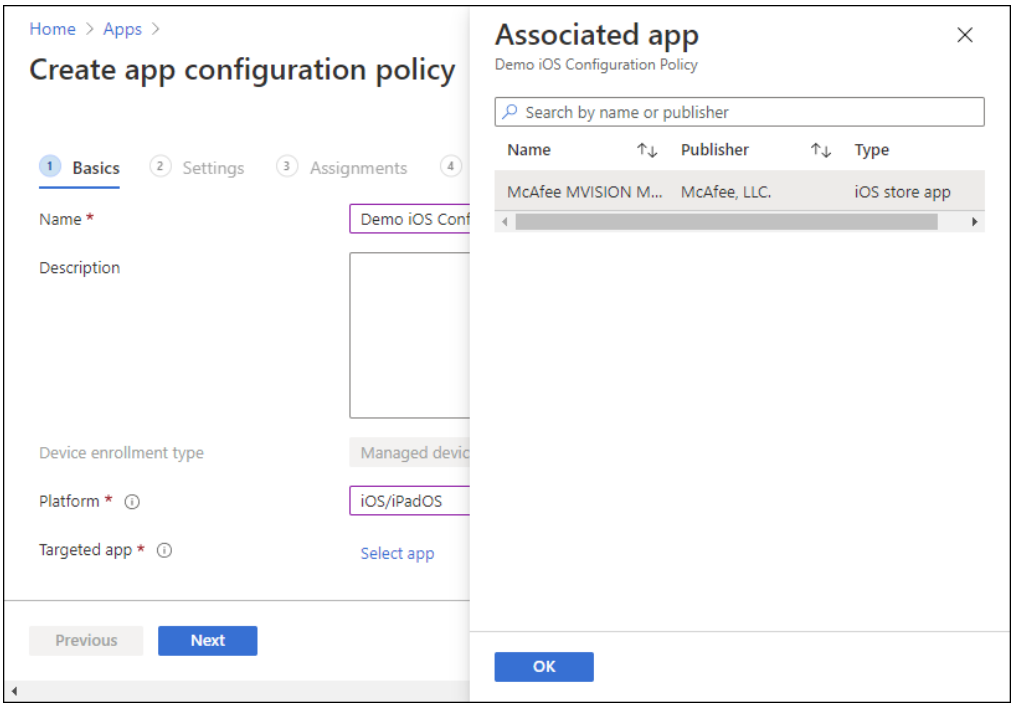
The device application, typically the MVISION Mobile application, automatically performs auto-activation when integrated with Microsoft Endpoint Manager. The requirements for iOS and Android Enterprise activations are provided below.

For zero-touch activation, see the "MVISION Mobile iOS Zero-Touch Activation " section on those configuration steps.

Activation Steps

The Microsoft Endpoint Manager implementation has to be configured next in order to send extra information to the device app when it is pushed down to the device. To do this, perform the following steps:

1. Navigate to **Apps** > **App configuration policies.**
2. Click **+ Add**.
3. Select **Managed Devices**.
4. Type a name, description, and the platform, such as Android or iOS.
5. Select the associated device application and click **Next**.



6. On the **Settings** tab, select **Use Configuration Designer** and set up the configuration keys with the options described in the following sections.
7. Navigate to **Assignments** and select the groups that apply to this configuration.

iOS Activation

For MVISION Mobile, set up the configuration. On the **Settings** tab, select **Use Configuration Designer** and set up the configuration keys with the values using those outlined in the table.

Configuration Key	Value Type	Configuration Value
MDMDeviceID	String	{{AzureADDeviceId}}
tenantid	String	Copy the value from the **Tenant ID** field on the MVISION Mobile Console **Manage** page under the **General** tab.
defaultchannel	String	Copy the value from the **Default Channel** field on the MVISION Mobile Console **Manage** page under the **General** tab.
tracking_id_1	String	(Optional) Use the desired identifier.
tracking_id_2	String	(Optional) Use the desired identifier.
display_eula	String	(Optional) no

		If you do not use this key, the default display the End User License Agreement (EULA).

NOTE: *The configuration keys are case sensitive.*

Android Setup

There are two options to set up the configuration for Android. This section details these two options:

- Android Enterprise with App Configuration Policy
- Android with the Company Portal App

McAfee recommends setting up the configuration with the Microsoft Endpoint Manager App Configuration Policies when possible.

Android Enterprise Setup with App Configuration Policy

To set up Android Enterprise in a Microsoft Endpoint Manager environment, you must:

- Set up the Microsoft Endpoint Manager app configuration policy for the MVISION Mobile app with the required keys below.
- If possible, remove any other variables that are not used from the list of configuration keys.
  NOTE: *Corporate-owned, fully managed Android Enterprise devices are not detailed in this document for enrollment.*

Set up a configuration that contains the information using variables as outlined in the table.

Configuration Key	Value Type	Configuration Value
tenantid	String	Copy the value from the **Tenant ID** field on the MVISION Mobile Console **Manage** page under the **General** tab.
defaultchannel	String	Copy the value from the **Default Channel** field on the MVISION Mobile Console **Manage** page under the **General** tab.
MDMDeviceID	String	{{AzureADDeviceId}}
display_eula	String	(Optional) no If you do not use this key, the default display the End User License Agreement (EULA).
tracking_id_1	String	(Optional) Use the desired identifier.

tracking_id_2	String	(Optional) Use the desired identifier.

NOTE: *The configuration keys are case sensitive. This option is needed (instead of with the Company Portal app) for Android Enterprise devices enrolled without user-affinity, and the MDMDeviceID is required.*

Setup with the Company Portal App

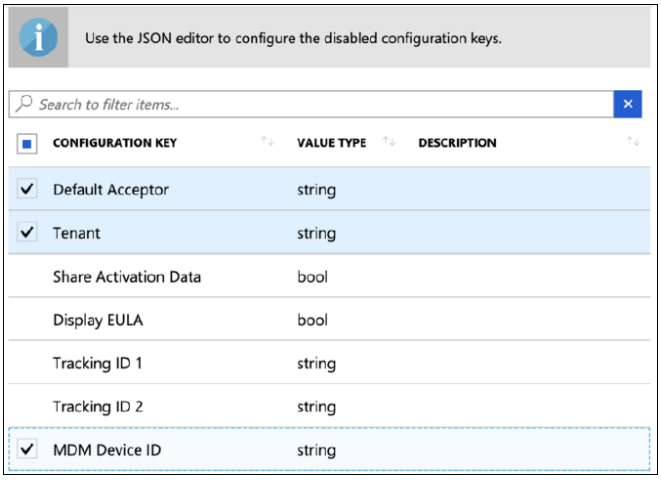
To set up an Android device in the Microsoft Endpoint Manager environment with the Company Portal app, you must:

- Install the Company Portal app on the device.
- Perform the setup on the MS portal console for the MVISION Mobile app to deploy.
- When MVISION Mobile is launched, if it detects the Company Portal app installed as a Device Administrator, then MVISION Mobile begins the auto-activation process. The end-user may be prompted to enter their Azure Active Directory credentials during the MVISION Mobile activation process.

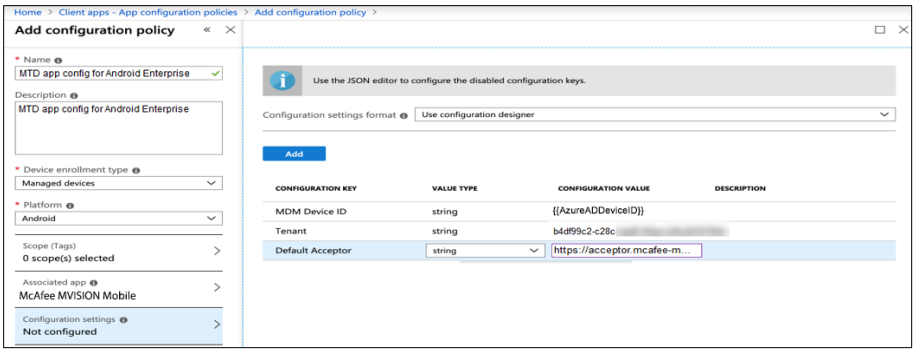
Using Configuration Designer

This is the recommended mechanism for setting up the configuration with the App Configuration Policy for Android Enterprise.

The following figure shows the configuration settings set up for a policy when **Use configuration designer** is selected. This is the McAfee recommended way to set up the configuration keys.



This figure shows using the configuration designer for the MDM Device ID, Tenant, and Default Acceptor keys.



NOTE: *Remove other variables that are not needed, if they are provided in the default configuration key list.*

Android Personal Profile Auto-Activation

You can use these additional configuration keys and values for auto-activation for the personal profile in an Android Enterprise configuration.

Configuration Key	Value Type	Configuration Value	Notes
Share_activation_data	String	true	This is required if to auto-activate the personal profile application. This defaults to "false."
activation_package	String	Bundle ID of the app to query for the activation information. The default is "com.mcafee.mvision".	(Optional) This is only needed if share_activation_data is true.

Configuring for MVISION Mobile and iOS Zero-Touch Activation

This feature allows an administrator to activate MTD protection on managed devices without the end-user being required to click on the installed MVISION Mobile application.

Note: *This feature requires MVISION Mobile Console 4.33 or later and MVISION Mobile release 4.18 or later.*

Overview of the Setup

This describes the items that are setup for zero-touch activation and threat reporting:

- The Microsoft Endpoint Manager has a device group and a VPN Profile (zVPN) for the devices.
    - The device is registered with the MDM
    - The MVISION Mobile app is pushed to the device
    - The zVPN Profile is initially pushed to the device
- MVISION Mobile Console has the MDM devices as an integration

A Sample Flow After the Configuration is Complete

These steps describe a sample flow once Zero-Touch Activation is configured:

1. The MDM pushes the MVISION Mobile app and the zVPN Profile to the device.
2. There is a "Launch MVISION Mobile" notification on the device from the zVPN Profile, but the end-user does not activate MVISION Mobile yet.
3. A threat is generated on the device, such as a "Device Pin" threat.
4. The zVPN Profile shows a notification of the threat on the device, and MVISION Mobile is still not launched.
5. The threat is visible in the MVISION Mobile Console **Threat Log** page and:
    - The **App Name** shows "zVPN Extension."
    - The **Detection Status** shows "Active" for the device.
    - The **App Status** shows "Pending Activation" for the device.
      ***Note**: This threat is logged after the dormancy period that is set for **Allowed Inactivity Time** on the **Manage** page of the MVISION Mobile Console.*
6. The user launches MVISION Mobile and activates MVISION Mobile.
    - The **Detection Status** shows "Active" for the device.
    - The **App Status** shows "Active" for the device.

Differences in Zero-Touch Activation

For information on the differences in zero-touch activation compared to a standard MVISION Mobile activation, see the "*McAfee MVISION Mobile Console Product Guide*" document on the support portal.

Setting Up Zero-Touch Activation

This set of instructions describes setting up zero-touch MVISION Mobile activation and the workflow. This option provides threats being detected without the activation of MVISION Mobile on the end user's device, where MVISION Mobile is pushed from the MDM. The user is prompted to open MVISION Mobile, but it is not a required action. A VPN profile runs on the device until the user activates the MVISION Mobile app.

***Important**: Contact a member of the Customer Success team before performing these steps to get the sample XML configuration file, the defaultchannel, and the tenantid for your tenant and this configuration. These values are not the same values as in similar configurations. The tenantid used is not the value displayed in the MVISION Mobile Console. You also need this sample XML configuration file and you update these values in that file.*

Updating Your Configuration File

1. Contact the McAfee Customer Success team and get these items:

a. The default XML configuration file for zero-touch activation for Endpoint Manager. See "Appendix C - Sample Configuration File for Zero-Touch Activation" for a sample of this file.
b. Your default channel value for zero-touch activation. This value must have "/json" at the end of the string.
c. Your tenant id value for zero-touch activation.

2. Update the configuration file with your defaultchannel and tenantid that the Customer Success team provided.
3. Make sure the values follow these conventions and the keys are exact matches as they are case sensitive:

Key	Option/Required	Key Description	Sample Value/Notes
defaultchannel	Required	Set the defaultchannel to the JSON endpoint value. You get this from the **Manage** page and **General** tab in the MVISION Mobile Console, and you must add "/json" string to the end.	`https://acceptor-mcafee-mvision-mobile.com/srx/json`
tenantid	Required	Set the tenantid according to the value that you get from the Customer Success team member for your tenant. ***Note**: This tenantid value may not be the value displayed on the **Manage** page of the MVISION Mobile Console and must be obtained from the Customer Success team.*	mytenant or 1234-ABCD-5678
MDMDeviceID	Required	This is the identifier for the device for this MDM.	{{AADDEVICEID}}
assume_vpn_permission_granted	Required	The values are true or false. Set this value to true to grant this permission.	true
enable_auth_redirect	Required	The values are true or false. Set this value to control and enable this	false

		feature. This controls redirecting HTTP URLs to a customized web page requesting the user to launch an app.	
enable_auth_notification	Required	The values are true or false. This controls the display of the local notification message requesting the user to launch the MVISION Mobile app.	true/false
auth_custom_notification_title	Required	Set the value to "Launch MVISION Mobile." The notification title can be changed to a custom title if desired.	"Launch MVISION Mobile"
runlevel	Optional	This indicates the running level for the detection and the values are "QA", "Beta", and "Production" and you set it to the default of Production.	Production
auth_custom_html_base64	Optional	The administrator can set a custom HTML page to show up when an HTTP site is visited. It needs to be Base64-encoded before entering it in this field.	
VPNSubType	Required	This is the application that you want to activate. ***Note**: This parameter can be different for some of Zimperium's customers.*	com.mcafee.mvision.appstore
auth_redirect_url	Required	This is the redirect URL that is used to launch the app on the iOS device.	mvisionmobile://login

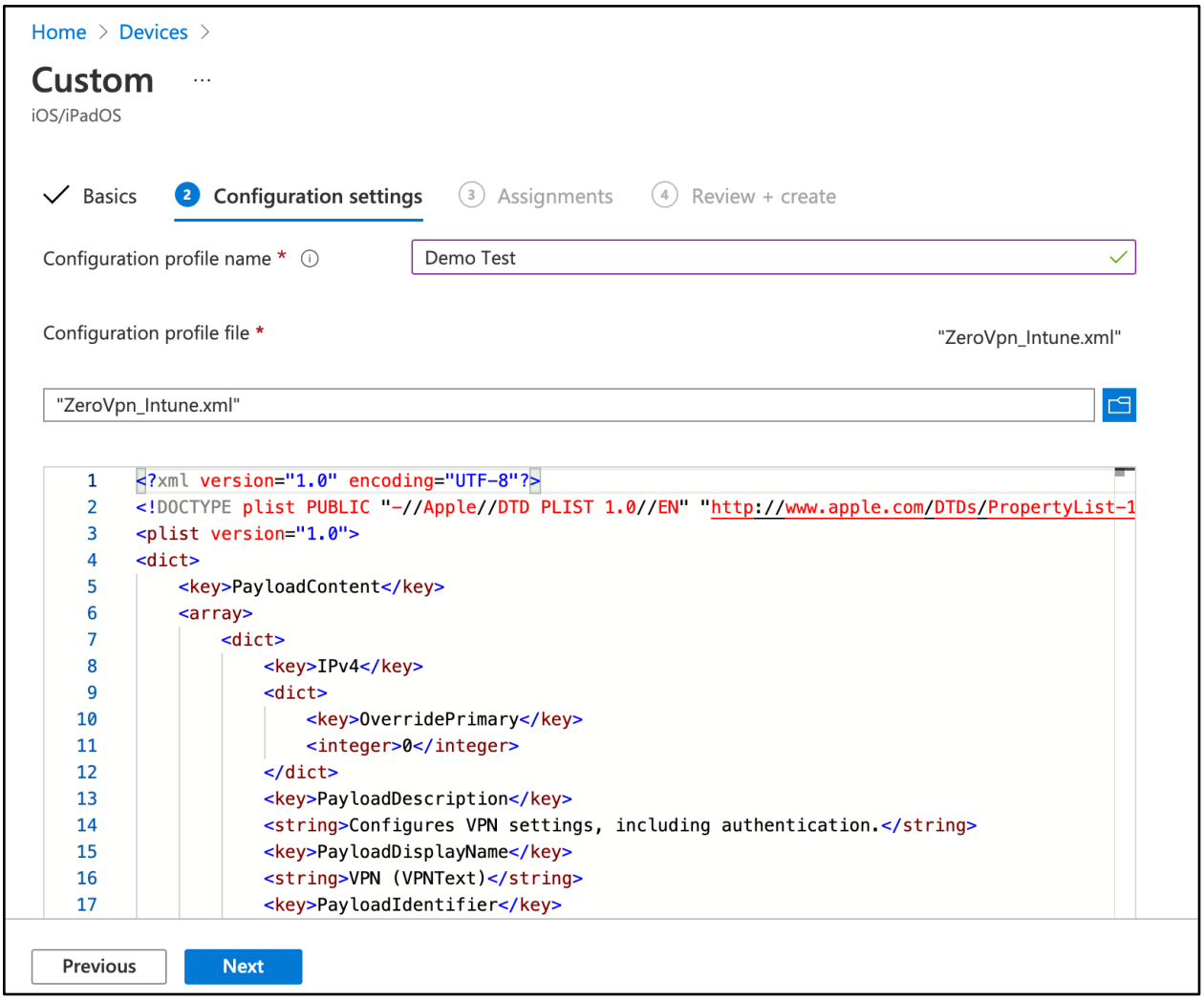
Configuring within the Endpoint Manager Console

To configure zero-touch activation, perform these steps:

1. Log in to the Microsoft Endpoint Manager console.
2. Navigate to this location and create a new profile, for instance, named “zVPNProfile.” **Devices > Configuration Profiles**

   Note: *Ensure that the profile is assigned to the device group where your mobile device is associated.*

3. Click **Create Profile** and the **Create a Profile** window opens.
4. Select the **iOS/iPadOS** platform, and then select **Profile Type** as Custom and click **Create**.
5. Enter a name and description and click **Next**.
6. In the **Configuration Settings** tab, enter a profile name.
7. Set the **Configuration Profile File** field to the configuration file that you updated in the above section.



8. In the **Assignments** tab, select your Azure AD Group and click **Select**.
9. Click **Next**.
10. Review your values and save the profile.

Configuring within the MVISION Mobile Console

To finish the configuration for zero-touch activation, perform these steps:

1. Log in to the MVISION Mobile Console.
2. Navigate to the **Manage** page and the **Integrations** tab, and add the Microsoft Endpoint Manager MDM. See the "Configuring MVISION Mobile for MDM Only" section for more information.

The result of these configuration steps is the Zero-Touch VPN is pushed to the device and begins reporting threats. The **Detection Status** for the device changes from "Pending Activation" to "Active" when the VPN profile is on the device.

You are now set up for zero-touch activation with MVISION Mobile, the Endpoint Manager Console, and MVISION Mobile Console.

Enable the Connector in the Microsoft Endpoint Manager Console

You must set up the connector on the Azure website for MAM or MDM. If you already configured the connector for MAM in the steps above, skip this step.

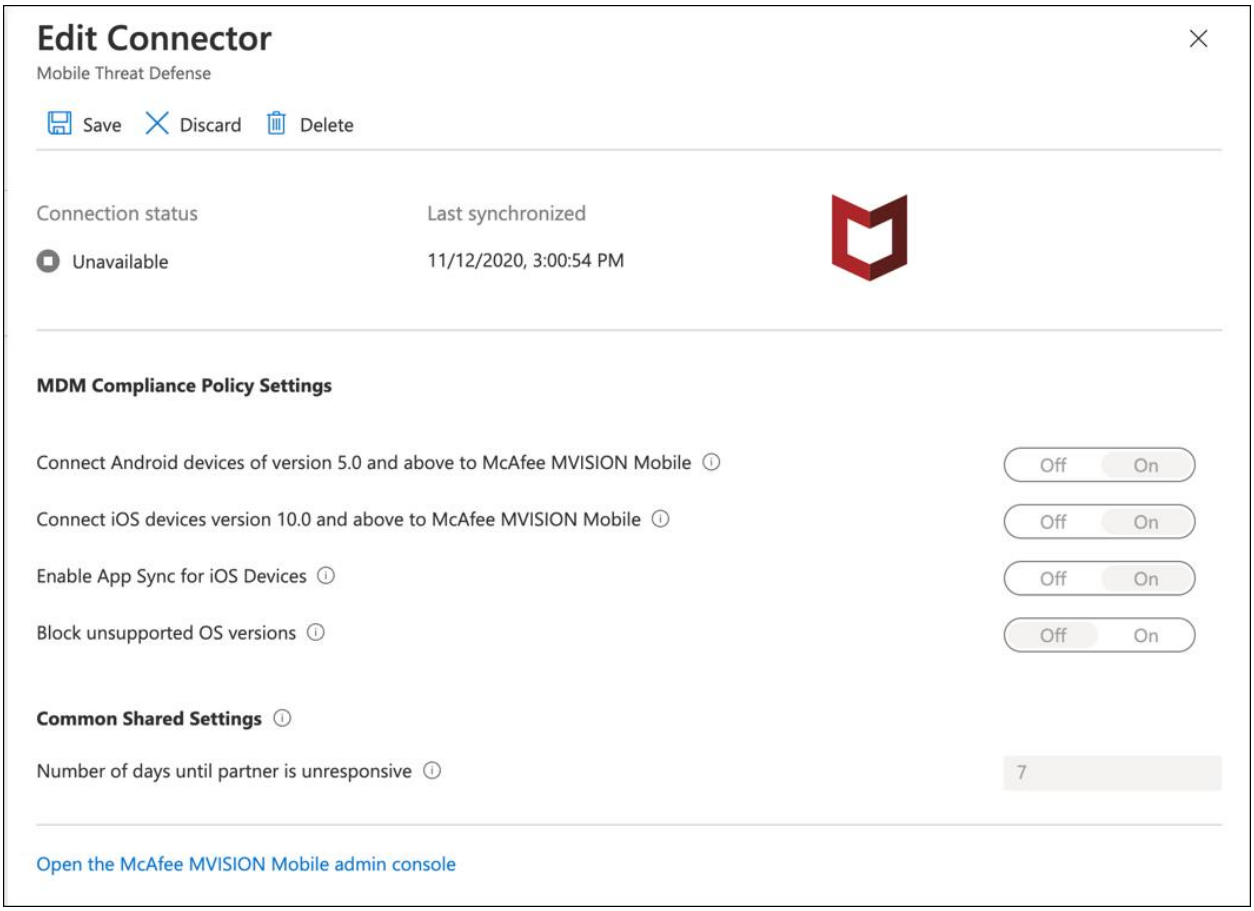
This allows Microsoft Endpoint Manager to synchronize the device data with McAfee MVISION Mobile. Without setting these attributes on the connector, the Microsoft Endpoint Manager device compliance is disabled.

Configure the MTD Connector

WARNING: *If you migrate from the Zimperium connector to the MVISION Mobile connector, active devices change from "Pending Activation" status to "Active" the next time the device checks-in with the MVISION Mobile Console.*

Perform these steps to set up the MTD Connector properties:

1. Log into Microsoft Endpoint Manager.
2. Click and navigate to **Tenant Administration** > **Connectors and tokens** > **Mobile Threat Defense**.
3. Click **MVISION** as the MTD Connector.
4. Under the **MDM Compliance Policy Settings** section, consider turning on the sliders for **Connect Android Devices**, **Connect iOS Devices**, and **Enable App Sync for iOS Devices**.



NOTE: *Enabling the app sync option for iOS devices allows McAfee to request the iOS app data from Microsoft Endpoint Manager to use for threat analysis purposes. It is recommended to ensure this option is "On." The initial sync does not contain the iOS apps until the connector has this option enabled. Without the connect device options on, device compliance is disabled, and threats are not reported.*

When the connector is in an "Available" status, verify the synchronization by going to the Devices or Users pages in the MVISION Mobile Console and see that they are showing up. The device entries in the MVISION Mobile Console are greyed out until the user starts up MVISION Mobile and activates the app.

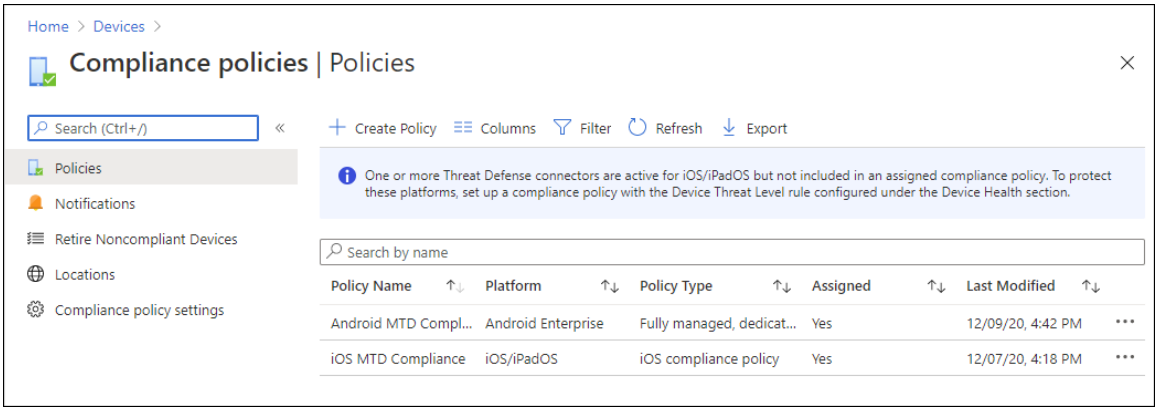
When the connector is in an "Enabled" status, threat information and device compliance are then reported back to Microsoft Endpoint Manager, along with app sync for iOS devices (if the options are enabled as above).

Device Actions, Policies, and Remediation

The MVISION Mobile integration with Microsoft Endpoint Manager provides a way to block access to company data such as email and other services. Compliance policies are used to allow only devices below a defined device threat level to access certain data and services. If a threat is detected on a device and that threat has an MDM action of **Inform EMM**, then MVISION Mobile Console sends the new device threat level of that device to Microsoft Endpoint Manager. The device threat level is the highest threat event classification that is pending for that device, also known as the Risk Posture.

Microsoft Endpoint Manager Policies

To set Microsoft Endpoint Manager to take actions when a device falls below a defined threat level, navigate to **Devices** and **Compliance Policies** from the Microsoft Endpoint Manager console.



Create policies for each OS Platform in the environment by clicking the **+ Create Policy**. Choose the platform, enter the name of the policy. On the next page for **Device Health,** select the minimally safe Device Threat Level for this platform.

Options are as follows:

- Secured
- Low
- Medium
- High

It is recommended to set it to **Medium** so that when the device has a High Device Threat level, it makes the device non-compliant. When a Critical threat is detected by the device application, it corresponds to the High Device Threat Level in Microsoft Endpoint Manager.

Conditional access policies prevent a non-compliant device from accessing those as defined resources set up by the Microsoft Endpoint Manager Administrator. When a critical threat occurs, it forces the device's compliance posture to be non-compliant. This then triggers the appropriate conditional access policy.

MVISION Mobile Console Policies

The next step is to navigate to the **Policy** page in the MVISION Mobile Console and select a **Microsoft Intune group** to target. For each threat classification that Microsoft Endpoint Manager needs to know about, set the MDM Action column to **Inform EMM**.

For situations where the threat can be mitigated or is no longer present, set the Mitigation Action column to **Inform EMM**, and the Device Threat Level of the device is adjusted accordingly.

Appendix A – iOS User Experience for MDM

After successful enrollment in Microsoft Endpoint Manager, the app is pushed down to the user's device.

MVISION Mobile App

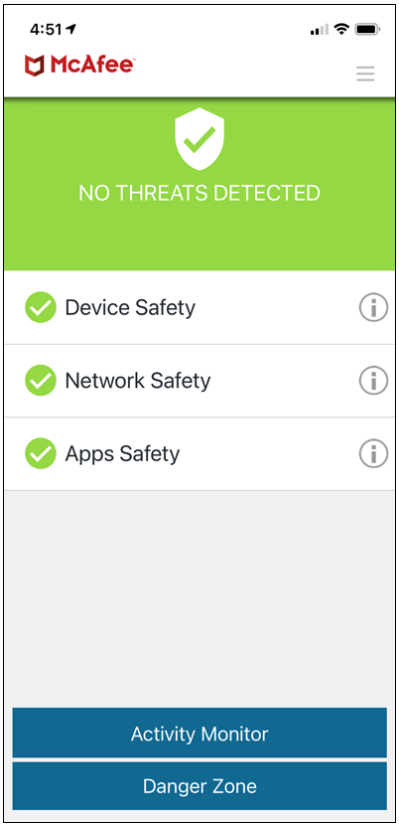
MVISION

The MVISION Mobile app is started by:

- Clicking manually on the app.
- Clicking a link sent to the user by text.
- Clicking on an email link.
- Scanning a QR code.

See the "*MVISION Mobile iOS Platform Guide*" for more information on the activation process.

After the activation process, MVISION Mobile displays the main dashboard showing that it is protecting the device.



Appendix B – Android User Experience for MDM

MVISION Mobile App

MVISION

To set up Android Enterprise in a Microsoft Endpoint Manager environment, you must complete these items:

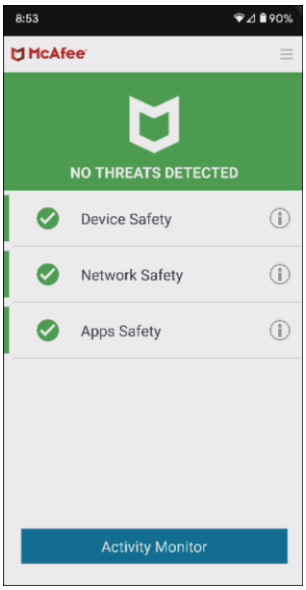
- The Company Portal app installed on the device.
- Activate as a device administrator. Within the Company Portal app, the device administrator role is one that the Company Portal needs to manage the device.
- Set up is needed on the MS portal for these applications to deploy.

The MVISION Mobile app is started by:

- Clicking manually on the app.
- Clicking a link sent to the user by text.
- Clicking on an email link.

See the "*Android MVISION Mobile Platform Guide*" for more information. When MVISION Mobile starts up in a Microsoft Endpoint Manager environment, it first tries to authenticate through Azure credentials.

Once started, the screen on the left is displayed, showing that the user is activating using the SSO Azure credentials. The user does not need to input a password. When this is completed, the user is activated and MVISION Mobile shows as protecting the device.



Appendix C - Sample Configuration File for Zero-Touch Activation

This is a sample XML file for the zero-touch activation. You need to get the default file and values for the keys from your Customer Success team member.

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN"
"http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
       <key>PayloadContent</key>
       <array>
              <dict>
                     <key>IPv4</key>
                     <dict>
                            <key>OverridePrimary</key>
                            <integer>0</integer>
                     </dict>
                     <key>PayloadDescription</key>
                     <string>Configures VPN settings, including
authentication.</string>
                     <key>PayloadDisplayName</key>
                     <string>VPN (VPNText)</string>
                     <key>PayloadIdentifier</key>
                     <string>com.apple.vpn.managed.E8157946-601C-40DE-8067-
71903FAA0FA5</string>
                     <key>PayloadOrganization</key>
                     <string></string>
                     <key>PayloadType</key>
                     <string>com.apple.vpn.managed</string>
                     <key>PayloadUUID</key>
                     <string>E8157925-601C-40ED-8067-71903FAA0FA5</string>
                     <key>PayloadVersion</key>
                     <integer>1</integer>
                     <key>Proxies</key>
                     <dict/>
                     <key>UserDefinedName</key>
                     <string>VPNText</string>
                     <key>VPN</key>
                     <dict>
                            <key>AuthenticationMethod</key>
                            <string>Certificate</string>
                            <key>OnDemandEnabled</key>
                            <integer>1</integer>
                            <key>OnDemandRules</key>
                            <array>
                                   <dict>
                                          <key>Action</key>
                                          <string>Connect</string>
                                   </dict>
                            </array>
                            <key>RemoteAddress</key>
                            <string>localhost</string>
                     </dict>
                     <key>VPNSubType</key>
                     <string> com.mcafee.mvision.mobile</string>
```

```
                        <key>VPNType</key>
                        <string>VPN</string>
                        <key>VendorConfig</key>
                        <dict>
                               <key>MDMDeviceID</key>
                               <string>{{AADDEVICEID}}</string>
                               <key>assume_vpn_permission_granted</key>
                               <string>true</string>
                               <key>auth_custom_html_base64</key>
                               <string>Activate now</string>
                               <key>auth_custom_notification_title</key>
                               <string>Launch MVISION Mobile</string>
                               <key>defaultchannel</key>
                               <string>https://uat-acceptor.mcafee-mvision-
mobile.com/srx/json</string>
                               <key>enable_auth_notification</key>
                               <string>true</string>
                               <key>enable_auth_redirect</key>
                               <string>true</string>
                               <key>tenantid</key>
                               <string>710EB8FE-83BD-4BD9-98D5-3F60B3CF1859</string>
                        </dict>
                </dict>
        </array>
        <key>PayloadDescription</key>
        <string></string>
        <key>PayloadDisplayName</key>
        <string>VPNCustomText/V_1</string>
        <key>PayloadIdentifier</key>
        <string>6aca860d-05fc-4fbe-8c02-058d872b3fa6</string>
        <key>PayloadOrganization</key>
        <string></string>
        <key>PayloadRemovalDisallowed</key>
        <false/>
        <key>PayloadType</key>
        <string>Configuration</string>
        <key>PayloadUUID</key>
        <string>02EE5F2D-4F3B-4E56-9EE1-2D22BDCE102A</string>
        <key>PayloadVersion</key>
        <integer>1</integer>
</dict>
</plist>
```