SandBlast Mobile for Microsoft Intune

Integration Guide

[Classification: None]
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Table of Contents

About Check Point SandBlast Mobile ........................................................................................................5
  General Workflow .................................................................................................................................5
Introduction to the SandBlast Mobile Integration Guide ........................................................................6
Solution Architecture ............................................................................................................................7
Preparing UEM Platform for Integration ...............................................................................................9
  Prerequisites........................................................................................................................................9
  Creating a User Group for SandBlast Mobile .........................................................................................10
  Creating Security Group for your Devices ............................................................................................10
  Adding User Licenses to the Security Group .......................................................................................11
  Adding Users to the Security Group ....................................................................................................13
  Enrolling Devices to Microsoft Intune .................................................................................................15
  Creating Administrator Account for Integration with the SandBlast Mobile ....................................15
Configuring the Check Point SandBlast Mobile Dashboard UEM Integration Settings ......................17
  Prerequisites........................................................................................................................................17
  Configuring UEM Integration Settings .................................................................................................17
Configuring UEM to Deploy the SandBlast Mobile Protect app ............................................................26
  Enabling the MTD Connector in Microsoft Intune Portal ...................................................................27
  Adding the SandBlast Mobile Protect app to your App Catalog .........................................................29
  Configuring the Application Configuration Settings ...........................................................................37
  Creating a Compliance Policy for the Organization Devices ...............................................................44
Deploying the SandBlast Mobile Protect app automatically (Zero Touch Deployment) [Optional] ........47
Using Android Enterprise with SandBlast Mobile ...............................................................................51
  Android Enterprise Deployment Scenarios ...........................................................................................51
  Configuring SandBlast Mobile Protect app to Protect your Devices ..................................................51
  Policies................................................................................................................................................54
Risk Handling .................................................................................................................................................. 56

Applying the SandBlast Mobile Protect app on Devices .................................................................................... 58
Deploying the SandBlast Mobile Protect app on the iOS Devices ..................................................................... 58
Deploying the SandBlast Mobile Protect app on Android Devices ..................................................................... 59

Testing High Risk Activity Detection and Policy Enforcement .............................................................................. 62
Blacklisting a Test App ........................................................................................................................................ 62
View of a Non-Compliant Device ....................................................................................................................... 63
Administrator View on the SandBlast Mobile Dashboard .................................................................................... 65
Administrator View on the Microsoft Intune Console ........................................................................................ 66

Mobile Application Management (MAM) & Mobile Threat Defense (MTD) Integration ............................................. 67

Appendix ............................................................................................................................................................... 71

Differences between Intune MAM and Intune EMM .......................................................................................... 71
About Check Point SandBlast Mobile

Check Point SandBlast Mobile is the most complete threat defense solution that prevents emerging fifth generation cyber-attacks and allows workers to safely conduct their businesses. This technology prevents threats to the OS, apps, and network. It scores the highest threat catch rate in the industry and does not hit performance or user experience.

SandBlast Mobile delivers threat prevention technology that:

- Performs advanced app analysis to detect known and unknown threats.
- Prevents man-in-the-middle attacks on both cellular and Wi-Fi networks.
- Blocks phishing attacks on all apps: email, messaging, social media.
- Prevents sensitive data distribution from infected devices to botnets.
- Blocks infected devices from accessing corporate applications and data.
- Mitigates threats independently from user action or mobile management platforms.

SandBlast Mobile uses machine learning algorithms and stated of the art detection techniques to identify mobile device risks, and triggers proper defense responses that protect business and personal data.

- The SandBlast Mobile solution ("the Solution") includes these components:
  - SandBlast Mobile Behavioral Risk Engine ("the Engine").
  - SandBlast Mobile Gateway ("the Gateway").
  - SandBlast Mobile Management Dashboard ("the Dashboard").
  - SandBlast Mobile Protect app ("the App") for iOS and Android.

SandBlast Mobile integrates with UEM systems and provides integral risk assessment of the device which the UEM can use to quarantine, or activate a set of policies until the device is no longer at risk.

This policy enforcement can disable certain capabilities of a device, for example, block access to corporate assets, such as email, internal websites, and more. It provides protection of the corporation’s network and data from mobile-based threats.

This guide describes how to integrate the SandBlast Mobile Dashboard with your UEM. It provides a quick tour through the interface of the UEM and the SandBlast Mobile Dashboard to enable integration, alerting, and policy enforcement. This includes activation and protection of a new device, malware detection, and mitigation (including mitigation flow).

General Workflow

1. Prepare your Microsoft Intune UEM platform for the Check Point SandBlast Mobile Protect app integration. See "Preparing UEM Platform for Integration" on page 9.
2. Configure the Check Point SandBlast Mobile Dashboard for integration with the Microsoft Intune. See "Configuring the Check Point SandBlast Mobile Dashboard Integration Settings" on page 17.
3. Configure your Microsoft Intune UEM to deploy the Check Point SandBlast Mobile Protect app. See "Configuring UEM to Deploy the SandBlast Mobile Protect app" on page 26.
4. Apply the Check Point SandBlast Mobile Protect app configuration and policy enforcement to your Microsoft Intune devices. See "Applying the SandBlast Mobile Protect app Configuration and Policy Enforcement" on page 58.
Introduction to the SandBlast Mobile Integration Guide

The SandBlast Mobile Protect app is an app for iOS® and Android™ that gathers data and helps analyze threats to mobile devices in an enterprise environment. It monitors operating systems and information about apps and network connections and provides data to the Solution which it uses to identify suspicious or malicious behavior.

To protect user privacy, the App examines critical risk indicators found in the anonymized data it collects.

The App performs some analysis on the device while resource-intensive analysis is performed in the cloud. This approach minimizes impact on device performance and battery life without changing the end-user experience.

This Guide explains how to integrate the Check Point SandBlast Mobile Protect app with the company’s mobile device management systems.
Solution Architecture

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1 SandBlast Mobile Protect app | - The SandBlast Mobile Protect app is a lightweight app for iOS® and Android™ that gathers data and helps analyze threats to devices in an Enterprise environment. It monitors operating systems and information about apps and network connections and provides data to the Solution which it uses to identify suspicious or malicious behavior.  
  - To protect user privacy, the App examines critical risk indicators found in the anonymized data it collects.  
  - The App performs some analysis on the device while resource-intensive analysis is performed in the cloud. This approach minimizes impact on device performance and battery life without changing the end-user experience. |
| 2 UEM                     | - Unified Endpoint Management (generalized term replacing MDM/EMM)  
  - Device Management and Policy Enforcement System |
| 3 SandBlast Mobile Gateway | - The cloud-based Check Point SandBlast Mobile Gateway is a multi-tenant architecture to which mobile devices are registered.  
  - The Gateway handles all Solution communications with enrolled mobile devices and with the customer’s (organization’s) Dashboard instance.  
  - No Personal Information is processed by or stored in the Gateway. |
<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
</table>
| **4 SandBlast Mobile Management Dashboard** | - The cloud-based web-GUI SandBlast Mobile Management Dashboard enables administration, provisioning, and monitoring of devices and policies and is configured as a per-customer instance.  
- The Dashboard can be integrated with an existing Unified Endpoint Management (UEM) solution for automated policy enforcement on devices at risk.  
- When using this integration, the UEM serves as a repository with which the Dashboard syncs enrolled devices and identities. |
| **5 Behavioral Risk Engine** | - The cloud-based SandBlast Mobile Behavioral Risk Engine (BRE) uses data it receives from the App about network, configuration, and operating system integrity data, and information about installed apps to perform in-depth mobile threat analysis.  
- The Engine uses this data to detect and analyze suspicious activity, and produces a risk score based on the threat type and severity.  
- The risk score determines if and what automatic mitigation action is needed to keep a device and its data protected.  
- No Personal Information is processed by or stored in the Engine. |
| **6 ThreatCloud** | - Check Point’s ThreatCloud is the world largest incidence of compromise database that incorporates real-time threat intelligence from hundreds of thousand Check Point gateways and from millions of endpoints across the globe.  
- ThreatCloud powers the Anti-Phishing, Safe Browsing, URL Filtering and Anti-bot technologies for SandBlast Mobile on-device Network Protection.  
- ThreatCloud exchanges threat intelligence with the Behavioral Risk Engine for app analysis. |
Preparing UEM Platform for Integration

Microsoft Intune deploys SandBlast Mobile Protect app on a device to upgrade the device enrollment.

Prerequisites

SandBlast Mobile service integrates with Microsoft Intune through Azure Portal.

To enable integration:

1. Configure a Microsoft Intune for MDM Authority. For more information, see the MDM Authority Configuration Guide.
2. Configure Microsoft Intune with an Apple Push Certificate (APNS). For more information, see Get an Apple MDM push certificate.

Microsoft Intune Console view:

Best Practice - For integration with the Check Point SandBlast Mobile, use Security groups to set up the same UEM hierarchy as in your organization's internal hierarchy, or set up groups based on Microsoft Intune features and content.
General Workflow

1. Create Security Group(s) for the SandBlast Mobile users to organize users and devices and connect them to the SandBlast Mobile. See "Creating a User Group for SandBlast Mobile" on page 10. For more information, see this guide.
2. Assign Microsoft Intune licenses to the SandBlast Mobile users to enroll the devices in Microsoft Intune. For more information see this guide.
3. Add the SandBlast Mobile users to Microsoft Intune and create Administrator accounts. For more information see this guide.
4. Enroll devices to Microsoft Intune. For more information see this guide.
5. Create an Administrator account for integration between the SandBlast Mobile Protect app and Microsoft Intune. See "Creating Administrator Account for Integration with the SandBlast Mobile (Optional)" on page 15.
6. Configure the UEM to deploy the SandBlast Mobile Protect app. See "Configuring UEM to Deploy the SandBlast Mobile Protect app" on page 26.

Creating a User Group for SandBlast Mobile

To deploy the SandBlast Mobile policies, configurations, apps, and more in Microsoft Intune, you must create special Security Group(s) for the SandBlast Mobile users and add these users to the SandBlast Mobile.

Creating Security Group for your Devices

1. On your Microsoft Intune portal, go to Groups > All groups and click +New Group.
   Example:

   ![Microsoft Intune portal](image)

   2. On the New Group tab, enter this information:
      - **Group type** - Security
      - **Group name** - SBM_Users
      - **Membership type** - Assigned

   3. Click Create.
Example:

For more information see the online guide.

### Adding User Licenses to the Security Group

1. On your Microsoft Intune Console, go to the group created above: Groups > All groups > SBM_Users > Licenses and click +Assign.
Example:

2. On the **Assign Licenses** pane, select **Products** tab and **Enterprise Mobility + Security ES** tab.
3. Review the License options and click **Save**.

Example:
Adding Users to the Security Group

Note - Repeat these steps to add additional users.

1. On your Microsoft Intune Console, go to All Users and click +New User.

Example:

```
[Image: screenshot of Microsoft Intune console]
```

2. In the User window, enter this information:
   - Name - free text
   - User Name - an email address
   - First Name and Last Name - (optional)
3. Go to the **Groups and roles** tab, and select the **Security** group created before.
4. Click **Select**.
5. Click **Create**.

Example:

For more information see the [online guide](#).
Enrolling Devices to Microsoft Intune

To manage your devices and apps and their access to your company data you must enroll them in the Microsoft Intune service.

For more information see the [online guide](#).

Creating Administrator Account for Integration with the SandBlast Mobile

**Best Practice** - For the interaction with SandBlast Mobile create a dedicated Administrator account user in your Microsoft Intune with Global Admin role. It is also possible to complete the interaction with Microsoft Intune Administrator with Privileged Role Administrator.

For more information see the [online guide](#).

To create an Administrator Account for the SandBlast Mobile:

Set a new Administrator account.

1. On the Microsoft Intune Console, go to All Users and click +New User.

Example:

[Image]

2. In the User window, enter this information:
   - Name - free text
   - User Name - an email address (for example, sbm_admin@checkpointtrial.onmicrosoft.com).

3. Go to Groups and roles tab, click Roles > User
4. Select Global administrator on the right pane.
5. Click Select.
6. Click Create.

Example:
Configuring the Check Point SandBlast Mobile Dashboard UEM Integration Settings

The following section includes all necessary configuration steps for SandBlast Mobile Dashboard that will enable the integration with Microsoft Intune UEM.

Prerequisites

You need these details from your Microsoft Intune Deployment:

- **Server**: The URL of your Microsoft Intune System. Usually - the same as the Microsoft Intune Console.
- **User name and Password**: credentials that the SandBlast Mobile Dashboard uses to connect to the Microsoft Intune UEM. See "Creating Administrator Account for Integration with the SandBlast Mobile" on page 15.
- **Security Group(s)**: The Microsoft Intune Azure AD mobile device / user groups to which the devices are registered and then integrated with the SandBlast Mobile Dashboard. You can integrate several groups in the same SandBlast Mobile Dashboard instance. Separate each group name separated with a semicolon (;). See "Creating a User Group for SandBlast Mobile" on page 10

**Notes**: Before you start configuring the integration in SandBlast Mobile dashboard, it is recommended that you delete any existing devices only if you are integrating with a single MDM/UEM solution.

Configuring UEM Integration Settings

After you complete the necessary steps, the **Device Management** pane on the Infinity portal shows the detailed status of the settings.

**Procedure:**

1. Access your SandBlast Mobile Dashboard via the **Infinity Portal**. Go to **Settings > Integration**. Click “+” to create a new integration setting.

   The Integration Wizard opens.
2. Configure the settings for your Microsoft Intune Deployment.

For information about the settings see "Preparing UEM Platform for Integration" on page 9.

- **Server Setup**

  Configure your UEM to integrate with the created Microsoft Intune devices:

  a. In **Server Setup** section, select:

     - **UEM service** - Microsoft Intune.
     - **Display Name** – use this free text form to name your service
b. Click “Add to my organization” Microsoft Intune, login with the Admin credentials you created for the SBM integration, and accept to add SandBlast Mobile to your organization.

c. Click “Add to my organization” iOS devices, login with the Admin credentials you created for the SBM integration, and accept to add SandBlast Mobile to your organization.

   Click “Add to my organization” Android devices, login with the Admin credentials you created for the SBM integration, and accept to add SandBlast Mobile to your organization.

   d. Click Next.

   • **Synchronization Configuration**

   Configure the devices and security groups in Intune that you want to synchronize with SandBlast Mobile Dashboard. The dropdown list will automatically populate.

      a. In the **Group(s)** field:

         i. Click Security **Group(s)**.

            A dropdown with list of the available groups opens.

         ii. Select the group(s) you need for integration with Microsoft Intune.
b. In the **Android Enterprise Deployment** field:

If you use Android Enterprise and have two different profiles in your devices, select the groups for two deployed applications as part of the Microsoft Intune Android Enterprise deployment. See "Using Android Enterprise with SandBlast Mobile" on page 51.

*Note that this step is relevant if your devices are fully managed on InTune with two profiles work and personal.*

**Example:**
c. In the **Advanced** section:
   
i. Import Personally Identifiable Information (PII) and set the synchronization intervals.

You can limit the import of the PII devices (users) to SandBlast Mobile.

**Note** - If all entries are OFF, the placeholder information set for the email address is placed in the Device Owner's Email, in form of "UEMDevice UDID@vendor.mdm".

Example:

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device sync interval</td>
<td>Interval to connect with UEM to sync devices.</td>
<td>10-1440 minutes, in 10 minute intervals.</td>
</tr>
<tr>
<td>Device deletion threshold</td>
<td>Percentage of devices allowed for deletion after UEM device sync (in %).</td>
<td>0-100% ; use 100% for no threshold *</td>
</tr>
<tr>
<td>Deletion delay after</td>
<td>Delay device deletion after several sync attempts – device is deleted after this amount of sync tries that confirmed deletion</td>
<td>1-100 sync tries.</td>
</tr>
<tr>
<td>Setting</td>
<td>Description</td>
<td>Values</td>
</tr>
<tr>
<td>--------------</td>
<td>------------------------------------------------------</td>
<td>---------------------------------------</td>
</tr>
<tr>
<td>App sync interval</td>
<td>Interval to connect with UEM to sync applications.</td>
<td>10-1440 minutes, in 10 minute intervals.</td>
</tr>
</tbody>
</table>

* 100% value is recommended for evaluation/test usage – when you are adding a small amount of devices

d. Click Next.

- **Deployment configuration**

  Check the “Allow auto device addition prior to device sync” option in case you require a faster device enrollment. Without this option checked, the device will not be able to connect to the SandBlast Mobile Dashboard not until a complete sync step has created the device in the dashboard. This option generates a unique dashboard token to be used in the UEM configuration that will tell the device which dashboard it needs to register to.

  **Note** - use the “copy to clipboard” button to set the Token value in the Application configuration step in the UEM. Section *Configuring the Application Configuration settings* Page 37.

Example:

![Microsoft Intune INTEGRATION](image)
Note – The token is the hashed unique identifier of your dashboard. We will use it in a later step, when we will configure application configurations on Intune.

If you use SandBlast Mobile to manage the deployment instead of the UEM:

In the Advanced section:

a. Enable options to have SandBlast Mobile Dashboard send email and/or SMS notification to the new users with instructions to download and install the SandBlast Mobile Protect app. Usually when the UEM is configured it will notify the end user itself to install the app so this option is disabled by default.
b. Click Finish.

Example:

3. View the Integration Status: In Settings > Integration menu.

Select the integration you want to shows the information for and click the “i” icon on the top right:
- **UEM Server** – The latest server configuration status.
- **Device Sync Status** – The synchronized groups and the device sync status time stamp.
- **App Sync Status** – The last time applications were fetched from the UEM (Applicable for iOS deployment only).
- **Deployment** – Deployment Configuration and Deployment Status.
4. The 3 dots on the top of the integration settings will allow you to select extra functions:

Click **Edit** (in each section) to edit the settings if needed.

Click **Sync Now** to force an immediate device sync call and not wait to the next auto sync cycle.

Click **Pause** / **Resume** to temporarily stop or resume the device sync process.

Click **Remove** to remove the integration settings altogether.

5. You can click again the “+” to add more integration settings from other different MDM/UEM solutions in case relevant for your deployment. SandBlast Mobile support integration of multiple MDM/UEM solutions from a single dashboard.
Configuring UEM to Deploy the SandBlast Mobile Protect app

If SandBlast Mobile Protect app is not installed or removed from device, then the device is marked as not protected.

You must add your devices the SandBlast Mobile Protect group and associate the SandBlast Mobile Protect app to the created Policy.

To prompt the SandBlast Mobile Protect app installation on your devices:

1. Create a Protect app Application Group for both iOS and Android apps.
2. Assign this group to your organization.
3. Create a compliance policy that uninstalls and, or removes all corporate apps from the device until the user installs the SandBlast Mobile Protect app on the device.

Notes:
- If you configured Microsoft Intune for Whitelisting Apps, you must add the SandBlast Mobile Protect app to the white list.
- You can only synchronize devices from the UEM to the SandBlast Mobile Dashboard. You cannot synchronize users.
- You must add the SandBlast Mobile Protect app for the iOS and for the Android operating systems.

General Workflow:

1. Add the SandBlast Mobile Protect app to your App Catalog. See "Adding the SandBlast Mobile Protect app to your App Catalog" on page 29.
2. Connect the app to your devices. See "Applying SandBlast Mobile Protect app to your Device" on page 58.
Enabling the MTD Connector in Microsoft Intune Portal

In this step, we will define the Check Point Mobile Threat Defense connector in Microsoft Intune. For more information, see MTD connector guide

1. If you are using the Microsoft Endpoint Manager Admin center select Tenant administration > Connectors and tokens > Mobile Threat Defense.

2. Alternatively if you are using the Microsoft Intune Portal, select Device Compliance > Mobile Threat Defense.
3. On the **Mobile Threat Defense** pane, choose **Add**.

4. In the drill down menu, select the connector Check Point SandBlast Mobile

---

Select the Mobile Threat Defense connector to setup

- **Check Point SandBlast Mobile**

1. Setup your admin settings via the Check Point SandBlast Mobile admin console. [Learn more](#)

2. Connector Settings

   Toggles are disabled and acting as "off" because Check Point SandBlast Mobile is not actively communicating with Intune for this account. Please check the state of the connection in the Check Point SandBlast Mobile admin console.

   When the connection has returned to a healthy status (Active or Provisioned), the toggles will be re-enabled and any pre-existing setting state will be restored.
5. Make sure it is configured to connect Android devices, iOS Devices and enable app sync for iOS (first three options are ON) like in the following screenshot:

![MDM Compliance Policy Settings](image)

- **Connection status**: Enabled
- **Last synchronized**: 5/13/2020, 10:47:18 PM

6. Click on Save.

**Adding the SandBlast Mobile Protect app to your App Catalog**

To protect your devices, deploy the SandBlast Mobile Protect app from the public stores to the devices that are protected by Check Point SandBlast Mobile.

You must add the Protect app for both iOS and Android operating systems.

For more information about adding apps to the Microsoft Intune App Catalog, see the online guide.

**Notes:**
- As you add the SandBlast Mobile Protect app to your catalog, rename this New Mobile Device App to SandBlast Mobile Protect app.
- For Android, approve the SandBlast Mobile Protect app in the managed Google Play account.

**To import the SandBlast Mobile Protect app:**

1. On the Microsoft Intune portal, go to Client apps > Apps and click + Add.
2. Click +Add Application.
An Add App window opens.

Example:

Note - The data fields are similar for both iOS and Android users. The examples below are applicable for both platforms.

- **For iOS Devices**
  a. Select App type iOS store app and click Select.
b. In the App information select Search the App Store

Search the App Store

Search for SandBlast Mobile application and click on Select.

Select the security group created before and click Select and then Next.

d. Click Next.

e. Under Assignments, Required, select +Add Group

Select the security group created before and click Select and then Next.
f. Review and click **Create**

```markdown
Home  >  Microsoft Intune  >  Client apps | Apps  >  Add app

Add app
iOS store app

- Review + create

Summary

App information

Assignments

Previous  Create
```
• For Android Legacy Devices

  a. Select App type Android Store App and click Select.

  Example:

  ![Select app type](image)

  b. In the App information tab Enter SandBlast Mobile Protect as the name.

c. Enter a description, as listed in the app store description.

d. Set the Publisher to Check Point Software Technologies.

e. Build the URL for SandBlast Mobile Protect Android:

   - from the SandBlast Mobile Dashboard go to Settings > Integrations under the Deployment section: Copy the token of your dashboard – See section “Configuring UEM Integration Settings” page 22

   - Concatenate the above Token to the end string of this URL that points to SandBlast Mobile Protect Android Google Play store: “https://play.google.com/store/apps/details?id=com.lacoon.security.fox&referrer=mdm%3DIntune%26token%3D{Token}”

   f. Paste this full URL under App-Store URL on the Add App pane
g. Click Next.

h. Under Assignments, **Required**, select +Add Group

   Select the security group created before and click Select and then Next

i. Review and click Create
**For Android Enterprise Devices**

a. Select App type Managed Google Play App and click Select.

b. Search SandBlast Mobile Protect App and select it.

c. Click Approve
d. Go to Apps, and select **SandBlast Mobile Protect** app from the Managed Google Play store app.

![SandBlast Mobile Protect](image)

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>SandBlast Mobile</td>
<td>Android store app</td>
<td></td>
</tr>
<tr>
<td>SandBlast Mobile</td>
<td>Android store app</td>
<td></td>
</tr>
<tr>
<td>SandBlast Mobile</td>
<td>Managed Google Play store app</td>
<td></td>
</tr>
<tr>
<td>SandBlast Mobile</td>
<td>Android store app</td>
<td></td>
</tr>
<tr>
<td>SandBlast Mobile</td>
<td>iOS store app</td>
<td></td>
</tr>
</tbody>
</table>

e. Go to Properties > Assignments, click **Edit**.

![Assignments](image)

f. Under Assignments, **Required**, select **+Add Group**.

g. Select the relevant security group you want to install the app on and click **Select**.
Configuring the Application Configuration Settings

To auto-register the SandBlast Mobile Protect app on the devices to SandBlast Mobile dashboard, we will use App Configuration Policy that will send registration parameters to the device and to the Sandblast mobile gateway.

**Notes:** Similar steps for App Configuration policies for both iOS and Android Enterprise devices – see details below.

1. In the Microsoft Intune console, go to **Apps > App Configuration policies**
2. Click **+Add** and select **Managed devices**.

Example:
For iOS App:

a. Give your configuration a **Name** (e.g. “SBM App Config iOS”)
b. **Platform** select “iOS/iPadOS”
c. Click **Select App**
d. Search the SandBlast Mobile app for iOS devices
e. Click **OK**
f. Click **Next**.
g. Under **Configuration Settings format**, select “Use configuration designer”

Use the table below for the configurations

<table>
<thead>
<tr>
<th>Configuration Key</th>
<th>Value Type</th>
<th>Configuration Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEVICE_UDID</td>
<td>String</td>
<td>{{AzureADDeviceId}}</td>
</tr>
<tr>
<td>token</td>
<td>String</td>
<td>** Dashboard ID Hash **</td>
</tr>
<tr>
<td>Lacoon Server Address</td>
<td>String</td>
<td>gw.locsec.net</td>
</tr>
</tbody>
</table>

**Notes:** It is highly recommended to Copy & Paste the Configuration Key and Configuration Value directly from the table above where applicable

h. ** for the key “token” value use SandBlast Mobile dashboard go to **Settings > Integrations**, under the Deployment section click Edit.
Copy the token of your dashboard – See section “Configuring UEM Integration Settings” page 22

Example:

```
i. When done click Next
j. Under Assignments click on +Select groups to include
k. Select the security group you want to associate the app configuration with
l. Click Select
m. Click Next
```
n. Review your configuration and click Create.

For Android Enterprise App:

a. Give your configuration a Name (e.g. “SBM App Config AE”)

b. Platform select Android Enterprise

c. Profile Type select Work Profile and Device Owner Profile or Fully Managed, according to your profile

d. Click on Select App and choose SandBlast Mobile app from the Managed Google Play

e. Click OK

f. Click Next:
g. Under **Configuration Settings format**, select “Use configuration designer” click **+Add**

Use the table below for the configurations (check the key to populate, rest of configuration keys can stay empty)

<table>
<thead>
<tr>
<th>Configuration Key</th>
<th>Value Type</th>
<th>Configuration Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDM UDID</td>
<td>String</td>
<td>{{AzureADDeviceId}}</td>
</tr>
<tr>
<td>Token</td>
<td>String</td>
<td>** Dashboard ID Hash **</td>
</tr>
</tbody>
</table>

**Notes:** It is highly recommended to Copy & Paste the Configuration Value directly from the table above where applicable

h. **for the key “token” value use SandBlast Mobile dashboard go to Settings > Integrations, under the Deployment section click Edit :**
Copy the token of your dashboard – See section “Configuring UEM Integration Settings” page 22

Example:

i. When done click Next

j. Under Assignments click on +Select groups to include

k. Select the security group you want to associate the app configuration with

l. Click Select

m. Click Next

n. Review you configuration and confirm:
Creating a Compliance Policy for the Organization Devices

The Compliance Policies are activated on the devices that did not install the required apps. SandBlast Mobile Protect app defines the security levels for the devices. You select the security level that marks the device as Not Compliant with company policy.

You must create separate compliance policies for specific OS types, such as iOS and Android.

**Note** - In every organization, the customer configures the compliance policies according to the production environment, needs, and the internal security policy.

For more information about Intune compliance policy see the [online guide](#) where you can explore the details of creating compliance policies for iOS, Android and Android Enterprise.

**To create a Compliance Policy:**

1. Go to **Device compliance > Policies** and click **Create Policy**.

2. On the **Compliance Policy** panel select a platform to start.

   **Note** - The data fields are similar for both iOS and Android settings.

   Example for **Android Enterprise** with **Device Owner**: 

<table>
<thead>
<tr>
<th>Configuration key</th>
<th>Value type</th>
<th>Configuration value</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDM GUID</td>
<td>string</td>
<td>610a4aa9-c6a6-48f3-8db3-85fe879a73e2</td>
</tr>
<tr>
<td>Token</td>
<td>string</td>
<td>91332100706af7c02a907f1c8c82f3c0d6da4e74a74d4f76</td>
</tr>
</tbody>
</table>
3. On the **basis** tab, give your policy a name

4. On the Compliance Settings tab, go to **Device health**, and require the device to be at or under the Device Threat Level of **Medium** (recommended). This will turn your device to be not compliant if its risk level determined by Check Point SandBlast Mobile (MTD) is **High**. See below details for all options:

<table>
<thead>
<tr>
<th>Device Health Level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Secured</strong></td>
<td>This is the most secure. The device cannot have any threats present and still access company resources. If any threats are found, the device is evaluated as non-compliant.</td>
</tr>
<tr>
<td><strong>Low</strong></td>
<td>The device is compliant if only low level threats are present. Anything higher puts the device in a non-compliant status.</td>
</tr>
<tr>
<td><strong>Medium</strong></td>
<td>The device is compliant if the threats found on the device are low or medium level. If high level threats are detected, the device is determined as non-compliant.</td>
</tr>
<tr>
<td><strong>High</strong></td>
<td>This is the least secure. This allows all threat levels, and uses Mobile Threat Defense for reporting purposes only. Devices are required to have the MTD app activated with this setting.</td>
</tr>
</tbody>
</table>
Note that you can configure actions for noncompliance and Scope tags (not covered on this guide).

5. Go to Assignments and assign this policy to the relevant security group to apply this policy to

6. Review and create your policy.
Deploying the SandBlast Mobile Protect app automatically (Zero Touch Deployment) [Optional]

UEM solutions traditionally prompt the mobile device user to install the application once it is registered. In addition, to get full protection, the user needs to approve the required permissions and profiles. Many users are vigilant about installing new mobile applications or granting different permissions, and as a Security company, Check Point even encourages that. Most of them don't know that the SandBlast Mobile Protect app is focused on device characteristics and behaviors and not the content stored on or flowing through the device. Furthermore, some users are incompliant with the company’s security policy, especially when they use their own devices. Therefore, users often decide not to install the app or approve the required configuration. On top of that, users who do agree to install and accept the configurations will often not do it immediately, delaying the application activation. As a result, many devices remain exposed to potential cyber-attacks.

SandBlast Mobile’s innovative zero-touch technology allows the Protect app to be installed and activated automatically without any user interaction. The solution leverages Check Point’s unique bootstrap technology to establish zero-touch activation.

- **Zero Touch Deployment in Android Enterprise devices**
  - Create four new empty Security groups as mentioned above, exactly as followed:
    - sbm_unregistered_ANDROID
    - sbm_registered_ANDROID
    - sbm_unregistered_IOS
    - sbm_registered_IOS
  
  **Note:** The group name is critical here so please copy this exact name from the document

```
- sbm_registered_ANDROID
- sbm_registered_IOS
- sbm_unregistered_ANDROID
- sbm_unregistered_IOS
```

  - Add new Configuration Profile. Go to Devices > Configuration profiles > Create profile.
    - Platform: Android Enterprise.
    - Profile: Device restrictions.
Create a profile

<table>
<thead>
<tr>
<th>Platform</th>
<th>Android Enterprise</th>
</tr>
</thead>
<tbody>
<tr>
<td>Profile</td>
<td>Device restrictions</td>
</tr>
</tbody>
</table>

Device restrictions
Enable or disable device features, run apps on dedicated devices, control security, and more. This profile is for fully managed, dedicated, and corporate-owned work profile devices.

- Under work profile settings > Default app permissions: Auto grant
- Connectivity:
  - Always-on VPN > Enable
  - VPN client > Custom
  - Package ID > com.lacoon.security.fox
- Assign the profile to sbm_unregistered_ANDROID group that you created in the previous section, and exclude it from sbm_registered_ANDROID group.
Zero Touch Deployment in iOS devices

- Add new Configuration Profile. Go to Devices > Configuration profiles > Create profile.
  - **Name**: ios_zero_touch [select your own name]
  - **Platform**: iOS / iPadOS
  - **Profile**: VPN
  - **Connection type**: Custom VPN
  - **Connection name**: Check Point Local Tunnel
  - **IP address or FQDN**: www.checkpoint.com
  - **Authentication method**: Username and password
  - **Split tunneling**: Disable
  - **Type of automatic VPN**: On-demand VPN
  - **VPN identifier**: com.checkpoint.capsuleprotect
  - **Custom VPN attributes**: `zero_touch = true`

- Add On-demand rules:
  - I want to do the following: Establish VPN
  - I want to restrict to: All domains
  - Prevent users from disabling automatic VPN: Yes

- Assign the profile to your group.
The above solution uses a VPN profile that is pushed automatically by Intune to the device and used by the SandBlast Mobile protect app. When deployed it will execute automatically the activation flow and the device will become active and show in the SandBlast Mobile dashboard without the user opening the app on the device. All configurations and security policies will take affect except some configurations like ONP (on-device network protection) with SSL that are not yet supported with zero-touch activation.
Using Android Enterprise with SandBlast Mobile

Android Enterprise is a Google-led initiative that enables the operation of Android devices and apps in the workplace. The program offers APIs and other tools for developers to integrate support for Android into their enterprise mobility management (EMM) solutions.

For example, through one or more API(s) your UEM platform can disable a camera, Bluetooth, or prevent an access to system settings.

For information about configuring Android Enterprise on your device, see online guide.

Android Enterprise Deployment Scenarios

Android Enterprise supports these deployment scenarios:

- Company-owned fully managed devices (COBO)
- Company-owned fully managed devices with a work profile (COPE)
- Company-owned devices for dedicated use (COSU)
- Employee-owned devices (BYOD)

COBO and COSU devices have a single profile. Follow integration guide instructions for Android Enterprise devices to deploy SandBlast Mobile Protect app on your devices. For more information see the online guide.

COPE and BYOD devices have Work and Personal profiles. With SandBlast Mobile Protect app you can protect one profile or both profiles.

For the highest protection level we recommend to protect both Work and Personal Profiles. See "Configuring SandBlast Mobile Protect app to Protect your Devices" on page 51.

Note - If you protect only the Work profile, skip the next section.

Configuring SandBlast Mobile Protect app to Protect your Devices

Note - The deployment of the SandBlast Mobile Protect app on the Personal profile of BYOD device cannot be automated by Android design (Personal profile of BYOD device is not managed).

With the Android Enterprise, you can protect the whole device or part(s) of it.

If you protect the whole device, install the SandBlast Mobile Protect app to both Work and Personal Profiles.

Note - If you protect only the Personal profile, skip this section.
To protect both profiles:

1. On the SandBlast Mobile Dashboard, go to **Settings > Device Management**.
2. Enable the SandBlast Mobile Protect app (for both profiles).
   - For a new UEM configurations:
     a. Go to **Settings > Device Management > Edit Settings**
     b. In the **Android Enterprise Deployment** section, select and add the device groups for both profiles.

   **Example:**
   
   ![Android Enterprise Deployment](image)

   **Notes:**
   - Only the synched groups in the upper groups' section are available for Android Enterprise deployment.
   - If one or more devices in the selected group have SandBlast Mobile Protect app Version earlier than 3.6.4.4348, the operation stops until the devices are upgraded.
   - If you add a group of devices for Android Enterprise deployment, make sure to configure the devices with both Personal and Work profiles.
   - If you remove a group of devices from the Android Enterprise deployment, the SandBlast Mobile Protect app deletes the Personal profile record on every device in this group.
   - iOS devices are ignored in the Android Enterprise context.

3. Click **Finish**.

   **Note** - If a device belongs to more than one group, one group selected in Android Enterprise deployment, and one group is not selected, the deployment is both Work and Personal.
General View on the Check Point Dashboard (Example):

To view and filter the devices:

1. On the SandBlast Mobile Dashboard, go to **Devices > Groups**.

Example:

2. In the **Device Type** column, filter the devices in the list according to their protection profile.

<table>
<thead>
<tr>
<th>Profile</th>
<th>Icon</th>
<th>Filter</th>
</tr>
</thead>
</table>
| Work          | ![icon]   | Device Type  
OS - Android Enterprise |
| Personal      | ![icon]   | Device Type  
OS - Android |
Policies

It is recommended to create different policies for personal profile and working profile of the device.

1. To create a new policy, go to Policy and click the + next to Policy Profiles.

2. Create a policy called Policy-Personal side and a second one called Policy-Work Profile.

3. Then you have to apply these policies to the different groups.

4. At the top of the Rule-base click +New.

5. Give your new rule a name, choose the relevant group (work or personal), and select the relevant policy you just created.

6. Confirm your changes and click on Save.

Example:

To change policy for inactive personal profile:

You can raise the risk level of the Work Profile if the personal side of the device is not protected with SandBlast mobile, or if SandBlast Mobile on the personal side has detected a risk with a level of High:

1. On the SandBlast Mobile Dashboard, go to Policy > The policy applied to the Work Profile, or the local one > Device.

2. Go to Android Enterprise Security Settings. And select the risk level you want to give to the Work Profile is the personal side of the device is compromised or not protected:

Example:
### AE Work Policy policy

#### General Settings

| Change device status to 'inactive' if device did not communicate with server for: | Global - 3 days |
| Change device risk level to: | Global - No Risk |
| Change device risk level to: | High (Device Alert) |
| Change device risk level to: | Global - No Risk |

#### Android Security Settings

| Change device risk level to: | Global - Low |
| Change device risk level to: | Global - Low |
| Change device risk level to: | Global - Low |
| Change device risk level to: | Global - Low |
| Change device risk level to: | Global - Low |
| Change device risk level to: | High (Device Alert) |

#### Android Enterprise Security Settings

| Change device risk level to: | Global - High (Device Alert) |

#### iOS Security Settings

| Change device risk level to: | Medium (Device Alert) |
| Change device risk level to: | Medium (Remote Desktop) |
| Change device risk level to: | Low |
| Change device risk level to: | Global - Medium (Device Alert) |
| Change device risk level to: | Global - Medium (Device Alert) |
| Change device risk level to: | Global - Medium (Device Alert) |

*If SandBlast Mobile app version is older than 2 months if device is not protected with screen lock setting.*
*If device OS version is older than Global - None.*
*If device verified boot is disabled.*
*If device OS SELinux is in permissive mode.*
*If device is not encrypted.*
*If device unknown sources setting is enabled.*
*If device USB debugging setting is enabled.*
*If SandBlast Mobile app personal profile is not active.*
*If device has developer certificate installed.*
*If notifications permission is not allowed.*
Risk Handling

- If the SandBlast Mobile protection is inactive on the Personal profile, the risk level is raised according to the Android Enterprise Security Settings policy on the Work profile (see "Policies" on page 54).

Example:

![Device Threat Notification](image)

- If the Personal profile has the High Risk status, the risk level is raised to High on the Work profile. The SandBlast Mobile informs the user that the personal profile is at risk.
Example:

- You can enable mitigation by UEM on the work profile, if you raise device health to high risk on the work profile. To configure incompliance action, see *Creating a Compliance Policy on Devices* see page 44.
Applying the SandBlast Mobile Protect app on Devices

The following section describes the user experience of device install and registration process with SandBlast Mobile. After following all the configurations in previous chapters the registration process of the SandBlast Mobile Protect app with the SandBlast Mobile Dashboard is automatic using the UEM deployment.

Note: This flow describes how to activate Sandblast Mobile application on your devices if you didn’t use the Zero Touch deployment described in the Zero Touch Deployment section. If you used the Zero Touch deployment you can skip this section. The devices will be automatically activated and your users will have to approve a few permissions, according to the policy defined for the user group in Sandblast Mobile dashboard, for example Location permission or Notification access. Note that for Android devices, Android Enterprise is mandatory for the Zero Touch deployment process.

Deploying the SandBlast Mobile Protect app on the iOS Devices

With the deployment settings for SandBlast Mobile Protect app for iOS configured in section Configuring Microsoft Intune Integration Settings on the SandBlast Mobile on page 17, the App is automatically deployed to the devices that belong to the defined groups (see “Configuring UEM to Deploy the SandBlast Mobile Protect app” on page 26).

Note - It can take up to 10 minutes for Microsoft Intune to sync with the SandBlast Mobile Dashboard, and several more minutes for Microsoft Intune to push the App to the user device.

After you register your device in the Microsoft Intune and attach it to the defined groups, the system prompts the user to install the SandBlast Mobile Protect app.

- iOS Device Process
  1. The user taps "INSTALL"
  2. After the App has been deployed on the iOS Device, the user only needs to launch the App to finish the registration.
  3. The user is prompted to enable Notifications, Location, and Network Protection.
4. Once the installation is done, the App scans the system.

5. Once the App is done scanning the system, it will display the state of the device. In this case, the device is without malicious or high risk apps, network and OS threats.

Deploying the SandBlast Mobile Protect app on Android Devices

- Legacy Android Device Process

After the device is enrolled to the Microsoft Intune and the device is synchronized to SandBlast Mobile, the user will be prompted to install the SandBlast Mobile Protect app. The user is automatically taken to the Google Play Store.

1. The user taps "INSTALL".
2. The user taps "Allow" to accept access to the device's contacts.
3. The user selects the SSO credentials.
4. The user allows the app to make phone calls and access device location (Android 9 and below).

5. Once the App is done scanning the system, it will display the state of the device. In this case, the device is without malicious or high risk apps, network and OS threats.
The registration server and the key are automatically configured in the App by the Microsoft Intune system. See “Configuring UEM to Deploy the SandBlast Mobile Protect app” on page 26

- **Android Enterprise Device Process**

  After the device is enrolled to the Microsoft Intune and the work profile is activated, SandBlast Mobile Protect app will be pushed and installed automatically since it is a managed and a required app.
  1. When the user opens the app it will register in the SandBlast Mobile Dashboard and become active
  2. Depends on the policy defined for the device the user might need to approve few permissions for example allowing notification access or location
  3. SandBlast Mobile Protect app might show the device at high risk because it is configured to alert when the personal side is not protected See Using Android Enterprise with SandBlast Mobile on page 51

  4. Once the user installs the SandBlast Mobile Protect app on the personal side via his google play (relevant for COPE or BYOD modes) the app will automatically registers to the dashboard and becomes fully active.
Testing High Risk Activity Detection and Policy Enforcement

If the user’s device is determined to be at risk either due to a malicious app or malicious activity, the SandBlast Mobile system notifies the User through in-app notifications, and also updates the device health risk level in Microsoft Intune system for that device. Microsoft Intune receives the risk state change, and upon recognizing the risk level value tied to a Configuration Profile, enacts that policy.

In this example, the Administrator blacklists an app, for example, "Box". As a result, the user’s device is identified to be at High Risk due to the blacklisted app installed on the device. The SandBlast Mobile Dashboard notifies the user, and mark the device as High Risk to the Microsoft Intune system. The Microsoft Intune system then enforces policy actions specified in the Configuration Profile.

Blacklisting a Test App

Note - When you blacklist an app, all release versions and OS types of this app are blacklisted. Select Apply only to this version option to blacklist the specified version only.

1. Log into the SandBlast Mobile Dashboard.

2. Go to App Analysis tab and select for the app you wish to blacklist.
   Example:

3. Go to Global Policy and click Edit.
A Changing application policy-Global window pops up.

4. From the New Policy drop-down menu, select Black Listed.

5. In the Audit Trail note field, enter a reason for this change.

6. Click OK.

The user receives a SandBlast Mobile Protect app notification to indicate that the blacklisted app (for example, Waze) is not allowed by the Corporate Policy.

View of a Non-Compliant Device

To see the non-compliant device in Intune:

1. Go to Devices > All devices and locate the relevant device.
2. Click View.

The device is displayed.

If you configured an email notification, you receive an email from Microsoft Intune.

Note - The data fields are similar for both iOS and Android users. The examples below are applicable for both platforms.

The user is not allowed to use the app until the user removes the blacklisted app, or changes the compliance policy settings.

SandBlast Mobile Protect app Notifications

The user receives SandBlast Mobile Protect app notifications.
Microsoft Intune Company Portal Notifications

The user receives Microsoft Intune Agent notifications. The device is NO compliant with the company policy. The user must open the SandBlast Mobile Protect app for the solution.
Administrator View on the SandBlast Mobile Dashboard

On the SandBlast Mobile Dashboard the Administrator can see the devices at High Risk.

1. Go to **Device Risk > High Risk** menu.

   A list of the Devices At Risk is displayed in the **Device Risk** section.

   Example:

   ![Device Risk](image)

2. Click **High Risk**.

   The list of devices at High Risk state is displayed.

3. Select the specified device on the left-side list.

   You can see that the blacklisted app causes the High Risk state.

   Example:

   ![Device Details](image)
Administrator View on the Microsoft Intune Console

On the Microsoft Intune Console:

1. Go to Microsoft Intune Overview > Device Compliance.
   You can see the devices that have compliance violations, or violate some policies, or both.
   Example:

   ![Device compliance screenshot]

   Devices without...
   - Policy compliance
     - [Policy] 8
     - [Compliant devices] 0
     - [Noncompliant devices] 8

   Example:

2. You can see the devices in the Out of Compliance state and click on the specified device with the Status Non-Compliant.
   Example:

   ![Device status screenshot]

   Device | User Principal Name | Compliance status | Last status update
   --- | --- | --- | ---
   [Device name] | [User principal name] | Not Compliant | 04/05/21 11:22 AM
Mobile Application Management (MAM) & Mobile Threat Defense (MTD) Integration

The following section is relevant in case you use Microsoft Intune Mobile Application Management to manage the client apps that your company's workforce uses. For more details about Microsoft Intune MAM, please read Microsoft Documentation here.

Please note that the best practice is to use separate groups for Enrolled/Managed Devices and MAM devices. Common use case for using MAM, is to block access to application if the device is evaluated as non-compliant by SandBlast Mobile.

Dashboard Configuration:
Synchronize the MAM group to both ‘Security group(s)’ and ‘MAM deployment’ sections, as shown in the image below.

Note - Make sure not to sync it to the Work & Personal deployment section.
Intune MAM Configuration:

In order to apply Mobile Application Management policy:

1. Once you have configured MTD Connector (as explained here), you should turn on “Require app protection policy”. Under Devices > Conditional Access:
   a. Under Users and groups, assign the MTD to your group
   b. Under Conditions > Device platforms > select Android and iOS.
   c. Under Grant > Grant access if one of the selected > Require app protection policy, and Enable the policy

![Intune MAM Configuration](image-url)
2. Turn on the two toggles for App Protection Policy Settings as shown below for iOS and Android:
3. Under Apps > App protection policies > Create policy > Android / iOS
   a. Chose the apps that you want to apply the MAM policy on them
   b. Under Conditional launch set the Max allowed mobile threat level as you desire
   c. Assign the policy to your group

---

**Intune App Protection | Properties**

- **Name**: mtd_android
- **Description**: --
- **Platform**: Android

**Apps Edit**
- **Target to apps on all device types**: Yes
- **Device types**: --
- **Public apps**: Microsoft Excel, Microsoft Office, Microsoft Office [init], Microsoft Office [ROW], Microsoft Outlook, Microsoft Word, Microsoft Teams, Zoom for Intune

**Conditional launch Edit**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max PIN attempts</td>
<td>5</td>
<td>Reset PIN</td>
</tr>
<tr>
<td>Offline grace period</td>
<td>720</td>
<td>Block access (minutes)</td>
</tr>
<tr>
<td>Offline grace period</td>
<td>90</td>
<td>Wipe data (days)</td>
</tr>
<tr>
<td>Jailbroken/rooted devices</td>
<td></td>
<td>Block access</td>
</tr>
<tr>
<td>Max allowed device threat level</td>
<td>Medium</td>
<td>Block access</td>
</tr>
</tbody>
</table>

**Assignments Edit**

- **Included groups**: ofina_group
- **Excluded groups**: --
# Appendix

## Differences between Intune MAM and Intune EMM

In this section, we will list the differences between MAM & EMM/UEM deployments when it comes to SandBlast Mobile solution:

<table>
<thead>
<tr>
<th></th>
<th>Intune MAM</th>
<th>Intune EMM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Deployment</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Company Portal installed – Android</td>
<td>Must</td>
<td>Must</td>
</tr>
<tr>
<td>Company Portal installed – iOS</td>
<td>Must</td>
<td>Must</td>
</tr>
<tr>
<td>Authenticator app installed – Android</td>
<td>Not needed</td>
<td>Not needed</td>
</tr>
<tr>
<td>Authenticator app installed – iOS</td>
<td>Not needed</td>
<td>Not needed</td>
</tr>
<tr>
<td>One touch (MSFT Sign in from device)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Zero-touch deployment</td>
<td>X (No App-Config)</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Protection</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apps analysis – Android</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Apps analysis – iOS</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Network vector (e.g. MiTM)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>OS Exploits</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Jailbreak/root detection</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>ONP (Anti-phishing, download prevention, anti-bot, URLF, etc.)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>ONP with SSL</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Mitigation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intune Conditional Access AAD</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>SBM Conditional Access (ONP)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>All Actions supported in Intune *</td>
<td>According to MSFT Docs</td>
<td>According to MSFT Docs</td>
</tr>
</tbody>
</table>

* Note: See device compliance configurations [here](#)