The purpose of this guide is to lay out the steps for implementing Intune. This guide is assuming you have the **M365 Business** License. It can apply to EMS licenses but some features will not be covered such as Conditional Access and Windows Autopilot. After you complete this guide you will have:

- Created different Device Groups
- Configured Autoenrollment of devices
- Configured Policies and Profiles for devices
- Added Applications
- Setup Enrollment for Apple, Windows, and Android Devices
- Enrolled a device to Intune

**Disclaimer**

This guide is meant to provide best practices for policy creation and implementation of Intune. It is meant to be used as a template, but the policies defined will not be the same in all use cases. You must access to policies and configuration you will need for your customers environment and make changes as needed. As a best practice, test all configurations with a pilot group before moving to broad deployment across an entire organization.
Pre-Flight Checklist

- a. Determine Platforms that you will support
  i. IOS/Android
  ii. MAC/Windows

- b. Have baseline security requirements complied that you want to implement
  i. Min/Max OS versions
  ii. Password Requirements
  iii. Encryption Enabled

- c. Determine if there will be separate groups for separate security policies
  i. Ex1. I have one group I want to assign IOS policies to and I have another I want to assign Android policies to.
  ii. Ex2. I have more granular security policies I want to apply to one group over another.
  iii. I encourage you to create a test group for piloting everything you are looking to implement in your organization

- d. Access if there are any apps beyond 365 that you want users to have access to

- e. Choose 3 pilot devices you want to enroll into Intune
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Licensing Users

1. Ensure All appropriate Users are Licensed

   a. Login to 365 Admin Center> Go to Active User

   b. Select a User>Click Licenses and Apps>Ensure an M365 License is Assigned
Create Groups

Create different groups if you want to separate out different people into different Intune Policies.

a. Scroll Down in the 365 Admin Portal and Go to the Device Management Portal

b. Click on Groups and click New Group
c. Group Type can be 365 or security. You can add whatever users you would like for this group. This is my test group, so I am going to add my pilot user.

d. Click **Create** when finished.
Device Autoenrollment

Ensure Device Autoenrollment is Turned On. Autoenrollment allows devices that join to Azure AD to automatically be enrolled in Intune and have policies push down to them:

a. Go to Device Enrollment and click Windows Enrollment

b. Select Automatic Enrollment
c. Choose **All** if it is not already preselected. You can choose autoenrollment for only subsets of your users by clicking **Some**. Click **Save** when finished.
Configure Device Policies

Device Policies designate which devices are compliant and non-compliant. When we join devices to Intune after configuring these policies, we will be able to see why the devices are not compliant. You will want to create a device policy for every platform you wish to support in your organization.

IOS

a. In the Device Management admin portal, go to Device Compliance>Policies>Create Policy
b. The first policy we will create is for iOS. Select a Name and Description (if applicable) and choose iOS from the Platform dropdown list.

c. Under the Device Health Section for settings, block Jailbroken Devices.
**d.** Under **Device Properties**, configure **Min/Max OS versions** if applicable. If you do not want to define these settings leave them blank.

**e.** Under **System Security**, enter the values as follows:
f. Click ok and then Create

g. Select Assignments and select the group of users you want this policy applied to:
a. **Click Create Policy**

b. **Select the Name, enter description (if applicable), and choose Android from Platform dropdown**
c. Under Settings>Device Health, configure the following:

- **Device Health**
  - Rooted devices: Not configured
  - Google Play Protect
    - Google Play Services is configured: Not configured
    - Up-to-date security provider: Not configured
    - Threat scan on apps: Not configured
    - SafetyNet device attestation: Not configured

- **Device Properties**
  - Operating System Version
    - Minimum OS version: Not configured
    - Maximum OS version: Not configured

---

d. Under Device Properties, configure the Min/Max OS version if applicable. If you do not want to configure, leave blank.
e. Under **System Security**, configure as follows:

<table>
<thead>
<tr>
<th>Android compliance policy</th>
<th>System Security</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Select a category to configure settings.</strong></td>
<td><strong>Require a password to unlock the device. If not configured, the use of passwords is optional, and left up to the user to configure.</strong></td>
</tr>
<tr>
<td>Device Health  3 of 6 settings configured</td>
<td><strong>Learn more</strong></td>
</tr>
<tr>
<td>Device Properties  2 settings available</td>
<td><strong>Required password type</strong></td>
</tr>
<tr>
<td>System Security  10 settings available</td>
<td><strong>Minimum password length</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Maximum minutes of inactivity before password is required</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Password expiration (days)</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Number of previous passwords to prevent reuse</strong></td>
</tr>
</tbody>
</table>

- **Required password type**: Numeric complex
- **Minimum password length**: 4
- **Maximum minutes of inactivity before password is required**: 15 Minutes
- **Password expiration (days)**: 90
- **Number of previous passwords to prevent reuse**: 3
f. Click OK and Create

Select Assignments and select the group of users you want this to apply to:
Windows

a. Click Create Policy

b. Select a Name, Description (if applicable), and Choose Windows 10 or later from the Platform dropdown
c. Under **Settings>Device Health**, configure the following

- **Device Health**: 3 settings available
- **Device Properties**: 5 settings available
- **Configuration Manager Compliance**: 1 setting available
- **System Security**: 16 settings available
- **Windows Defender ATP**: 1 setting available

Windows Health Attestation Service evaluation rules:
- Require BitLocker
- Require Secure Boot to be enabled on the device
- Require code integrity

d. Under **Device Properties**, configure the Min/Max OS version if applicable. If you do not want to configure, leave blank

- **Operating System Version**: Multiple options available
  - Minimum OS version
  - Maximum OS version
  - Minimum OS version for mobile devices
  - Maximum OS version for mobile devices

- **Valid operating system build ranges**
  - Description: Not configured
  - Minimum: Not configured
  - Maximum: Not configured

- **No operating system build ranges**
e. Under **System Security**, configure the following:

<table>
<thead>
<tr>
<th>Category</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Password</td>
<td>Require a password to unlock mobile devices.</td>
</tr>
<tr>
<td></td>
<td>Simple passwords</td>
</tr>
<tr>
<td></td>
<td>Password type</td>
</tr>
<tr>
<td></td>
<td>Minimum password length</td>
</tr>
<tr>
<td></td>
<td>Maximum minutes of inactivity before password is required</td>
</tr>
<tr>
<td></td>
<td>Password expiration (days)</td>
</tr>
<tr>
<td></td>
<td>Number of previous passwords to prevent reuse</td>
</tr>
<tr>
<td></td>
<td>Require password when device returns from idle state</td>
</tr>
<tr>
<td></td>
<td>(Mobile and Holographic)</td>
</tr>
</tbody>
</table>

- **Device Security**
  - Encryption of data storage on device

- **Firewall**
  - Require

- **Antivirus**
  - Require

- **Antispyware**
  - Require

- **Defender**
  - Windows Defender Antimalware
  - Windows Defender Antimalware minimum version
  - Windows Defender Antimalware signature up-to-date

- **Real-time protection**
  - Require

- **Windows Defender ATP**
  - 1 setting available
f. Click **Ok** and **Create**

Select **Assignments** and select the group of users you want this to apply to:

- **Select by name or email address**
  - AAD DC Administrators
  - AD Users
    - 47c1496a-3aa3-4b5d-a1b5-74d80d140021@wrjreco..
Create Device Profile

Device profiles allow you to have uniform settings for all devices across your organization. Examples:

- You create a wifi profile that automatically configures the wifi on device that are enrolled with Intune
- Assume that you want to provision all iOS devices with the settings required to connect to a file share on the corporate network. You create a VPN profile that contains the settings to connect to the corporate network. Then you assign this profile to all users who have iOS devices. The users see the VPN connection in the list of available networks, and can connect with minimal effort.
- You want to have a uniform start menu and settings for all of your Windows 10 Devices. You can create this with a Device Restriction Profile
- Here is a list of the profiles that you can create:
  - Administrative templates
  - Custom
  - Delivery optimization
  - Device features
  - Device restrictions
  - Edition upgrade and mode switch
  - Education
  - Email
  - Endpoint protection
  - Identity protection
  - Kiosk
  - PKCS certificate
  - SCEP certificate
  - Trusted certificate
  - Update policies
  - VPN
  - Wi-Fi
  - Windows Defender ATP
  - Windows Information Protection

Since we configured a policy in the previous section to Require Bitlocker, we are going to set up a profile for Bitlocker so that users are immediately prompted to configure if they do not have it already.
a. Go to the Device Management Admin Portal>Device Configuration>Profiles>Create Profile

b. Enter a **Name**, **Description** (if applicable), choose **Windows 10 or later** from the platform, and select **Custom** from Profile Type
c. Click Add

d. Enter the following, including: `/Device/Vendor/MSFT/BitLocker/RequireDeviceEncryption`
e. Click Ok and Create

f. Select **Assignments** and select the group of users you want this profile to apply to:
g. End users enrolled in Intune will get a notification to set up BitLocker
Add an Application

Intune allows you to add applications so that when users enroll they immediately have access to those applications via the Microsoft Store for Business, Company Portal App, or this app can be required and automatically installed without end user interaction. The most common of these is the Office Suite of which we will be configuring below:

a. In the Device Management Admin center go to Client Apps > Apps > Add

b. Select Windows 10 under Office 365 Suite from the dropdown list:
c. Under **Settings Format** select **Enter XML data** *Note* We are making this selection because we have M365 Business Plan. If we have a plan that comes with Proplus (E3,E5, M365 E3, M365 E5) we would select Configuration Designer:

![Configuration Designer](image)

---

d. Under **App Suite Information**, configure the following and click ok:

![App Suite Information](image)
e. Go to https://config.office.com/ and sign in with your admin credentials

f. Select your appropriate architecture and select Office 365 Business from the dropdown:
g. De-select any apps you do not want to deploy and choose **Monthly** for the update channel and **Latest** for the version.
h. Under **Language** select **English** or your primary language

i. Under the **Licensing and Activation** section turn the **Automatically Accept the EULA** to **On**
j. Leave all other settings defaulted and click Export

k. Agree to the terms, name your file, and click export
I. Open the XML file and copy the text:

m. Back in the Microsoft portal, click Enter XML Data, paste the text, and click ok

n. Click Add
o. Click on Assignments>Add Group, select your group and under Assignment type, select Required

p. When a user enrolls into Intune the xml file will be pushed and they will get office installed without any interaction:
Adding the Microsoft Authenticator App

The Microsoft Authenticator app is widely using for MFA that comes with M365 Business. You can add this app in Intune so that it is immediately available for download for your clients.

iOS

a. In the Device Management Admin center go to **Client Apps>Apps>Add**
b. Under App Type select **iOS**, then click **Select App**, then search for **Microsoft Authenticator**

*NOTE* You will have to search for this text in its entirety for it to find this app:

<table>
<thead>
<tr>
<th>NAME</th>
<th>PUBLISHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsoft Authenticator</td>
<td>Microsoft Corporation</td>
</tr>
<tr>
<td>SAASPASS Authenticator 2FA MFA</td>
<td>SAASPASS</td>
</tr>
<tr>
<td>TOTP Authenticator – Fast 2FA</td>
<td>AppyFactor</td>
</tr>
</tbody>
</table>

c. Select the app and click **Configure** under App Information. Say **Yes** for displaying app in Company Portal. Leave all other settings defaulted:
d. Click Add

- App type
  - iOS
- Search the App Store
  - Microsoft Authenticator
- App information
  - Configure
- Scope (Tags)
  - 0 scope(s) selected

![Add app screenshot]

---

e. Click Assignments>Add Group>Select Required for Assignment Type. Save when complete

![Assignments dialog screenshot]
Android

a. In the Device Management Admin center > **Client Apps** > **Apps** > **Add**

![Device Management Admin center screen](image1.png)

b. For App Type, select **Android** and fill out the fields as follows, including the following for AppStore URL:

c. Click **Add**

d. Click **Assignments>Add Group>Select Required** for Assignment Type. Save when complete.
Set up Apple MDM Push Certificate

The Apple MDM Push Certificate allows us to start enrolling iOS devices. You can think of this cert as a shell account in which you can put all over your customers under. The certificate is associated with the Apple ID used to create it. As a best practice, use a company Apple ID for management tasks and make sure the mailbox is monitored by more than one person like a distribution list. Never use a personal Apple ID.

a. In the Device Management Admin Center go to **Device Enrollment>Apple Enrollment>Apple MDM Push Certificate**

![Diagram showing device enrollment and Apple MDM Push certificate]

b. Agree to the terms and conditions, Download you CSR (save to another location or keep in downloads. The file is used to request a trust relationship certificate from the Apple Push Certificates Portal.), and click **Create your MDM Push Certificate** to open the Apple center.

![File list showing IntuneCSR.csr]
c. Sign in with your Business Apple ID or create a new Apple account for your business if you do not have one already. (takes 5 min and no financial commitment)

d. After you sign in click Create Certificate
a. Upload your CSR file and then Download the MDM Push Certificate
e. Back in Microsoft enter you Apple ID and upload the MDM Cert you just downloaded.
f. You will see the status as active

Setting Up Android Enrollment

Setting up Android enrollment requires that you link Intune to an existing Google Play account. If you do not have one you can create one for your business. You can think of this cert as a shell account in which you can put all over your customers under. As a best practice, use a company Google Account for management tasks and make sure the mailbox is monitored by more than one person like a distribution list. Never use a personal Google Account.

a. In the Device Management Admin Portal, go to Device Enrollment>Android Enrollment>Managed Google Play
b. **Agree to the terms and conditions and click **Launch Google to Connect now**

---

**Managed Google Play**

**Android enrollment**

![Disconnect](image)

**Status:** Not Setup

**Organization:** Not Available

**Google Account:** Not Available

**Registration Date:** Not Available

---

You must connect Intune to your company’s managed Google Play account to manage Android enterprise enrollment. [Learn More](#).

1. I grant Microsoft permission to send both user and device information to Google. [Learn More](#).
   - [ ] I agree.

2. Connect your Intune tenant to an administrative Google account to enable Android enterprise enrollment. [Launch Google to connect now](#).

---

c. **Sign in to your business Google Account. If you do not have one Create one now. Click Get Started:**
d. Enter your Business Name and click Next

![Business name form]

We need some details about your business

- **Business name**
  - [Input field for Business name]

- **Enterprise mobility management (EMM) provider**
  - Microsoft Intune

Previous  Next

---

e. If you are in the EU, you can enter the contact of an EU representative. If not, simply agree to the terms and click confirm:

- **Phone**
  - [Input field for Phone]

- **EU Representative**
  - **Name**
  - [Input field for Name]
  - **Email**
  - [Input field for Email]
  - **Phone**
  - [Input field for Phone]

- ✔ I have read and agree to the Managed Google Play agreement.

Previous  Confirm
f. Click **Complete Registration** and you will be redirected back to Microsoft.

![Set up complete](image)

**Set up complete**

Thanks for choosing Android enterprise.

![Complete Registration](image)

![Complete Registration](image)

---

You will get a green check for the status. Registration is complete.

---

**Managed Google Play**

- **Status:** Setup
- **Organization:** TMinus365

- **Google Account:** thetradingnest@gmail.com
- **Registration Date:** 3/30/2019, 2:24:37 PM

---

You must connect Intune to your company’s managed Google Play account to manage Android enterprise devices. Follow the steps to enable Android enterprise enrollment. [Learn More](#).

1. I grant Microsoft permission to send both user and device information to Google. [Learn More](#).

   - I agree.

2. Connect your Intune tenant to an administrative Google account to enable Android enterprise enrollment.

   ![Launch Google to connect now.](image)
Setting Up Terms and Conditions

As an Intune admin, you can require that users accept your company's terms and conditions before using the Company Portal to:

- enroll devices
- Access resources like company apps and email.

a. In the Device Management Admin Portal, go to Device Enrollment>Terms and Conditions>Create
b. Name your company terms and then define them in the Define Terms of Use tab:

Ex. Summary of Terms
By enrolling your device, you agree to <Company X> terms and conditions

Ex. Terms and Conditions
I acknowledge that by enrolling my device, <Company X> Administrators have certain types of control. This includes visibility into corporate app inventory, email usage, and device risk. I further agree to keep company resources safe to the best of my ability and inform <Company X> administrators as soon as I believe my device is lost or stolen.

c. Click Ok and then Create
d. Click on the Policy after creation and click **Assignments** to assign the Terms to All Users or a select group:

![Assignments](image)

**Add Company Branding**

Company Branding allows you to white label the end user experience when they are enrolling their device to Intune. This applies to both existing devices that are just now enrolling and OOBE for new devices.

a. In the Device Management Admin portal, go to Client Apps>Branding and customization

![Microsoft 365 Device Management](image)
b. Enter Company name and all other information you want to include. Notice there is a preview button so you can view your changes in real-time.

![Company information form](image)

Choose your Theme and upload your logo. When done, click Save.
Enroll Devices: Windows

a. On the Windows 10 Device, click Start and type Access Work or School

b. Click Connect

Access work or school

Get access to resources like email, apps, and the network. Connecting means your work or school might control some things on this device, such as which settings you can change. For specific info about this, ask them.
c. **Click Join this device to Azure Active Directory**

Set up a work or school account

You’ll get access to resources like email, apps, and the network. Connecting means your work or school might control some things on this device, such as which settings you can change. For specific info about this, ask them.

**Email address**

Alternate actions:

These actions will set up the device as your organization’s and give your organization full control over this device.

- Join this device to Azure Active Directory
- Join this device to a local Active Directory domain

Next

---

d. **Sign-In with the Users Azure AD credentials**

Let’s get you signed in

**Work or school account**

someone@example.com

Which account should I use?

Sign in with the username and password you use with Office 365 or other business services from Microsoft.

Privacy statement

Next
e. **When prompted, click Join**

f. **You will get a success message when complete. If this is the first device the user is enrolling, you will be first given Terms and Conditions to accept**
g. Back in the Intune Portal, you can go to Device Compliance>Policies>Click on your Windows Policy (we created earlier in this document)

h. You can click on Device status to see compliance status. Note, it can take some time before the evaluation will complete. In this case, I see the device I just joined as “Not Evaluated”. We just must wait for that to complete.

Monitoring

I can come back in later to see that it is in error:
a. Click on this line item and the go to **Device Compliance** on the next page:

b. Click on **Windows** as it is our policy
c. Here you can see why the device is out of compliance and take action steps to remediate. In this case it looks like we just need to finish setting up BitLocker to encrypt the drive:

![Device compliance settings](image)

**Enroll Devices: iOS and Android**

iOS and Android device enrollment can be completed by downloading the Intune Company Portal app from the app store or google play store:

**App Store Preview**

![Intune Company Portal](image)
a. Users will be walked through a wizard after they enter their Azure AD credentials which begins with the following:

![Wizard Image]

b. For a detailed list of the entire user experience, you can follow this support guide from Microsoft:

- **iOS**
- **Android**

**Pilot Testing and Remediation**

During our Pilot we want to discover:

- Common FAQs
- Whether we need to tighten or loosen our policies
• End User Experience for Communications to Broad audience
• Common Troubleshooting Techniques for each platform

After this is complete, we want to create communications to our audience for enrollment:

• Why is this service important?
• What pain points will it help them solve?
• What can end users expect?
• What are the steps to get my device enrolled

Lastly, after we have this pushed out and a target date for deployment, we can go back into the Device Management Admin Center and begin to add our groups to our policies and profiles:

a. Go to Device Compliance and click on policy you want to add a group to:

b. Go to Assignments and select your groups that you want to apply the policy to. You can do the same with Device Profiles by going to the Device Configuration section
Conclusion

I hope this article provided you some targeted guidance on implementing Intune. Any feedback to improve your experience would be greatly appreciated. I would also like to hear if there is more content that you would like to see in this guide. Any feedback can be sent to my email below:

Msp4msps@tminus365.com