Recast

Deploy using Microsoft Intune (Windows – Bootstrapper 4.4)

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> Microsoft Windows only
> The information in this article is applicable only to devices with Windows OS and Bootstrapper 4.4.
> The command lines and scripts in this article are just an example. When file names are specified, make sure you modify them accordingly before running the command/script.

Instead of manually converting multiple apps that you need into .intunewin files and then uploading and configuring them individually in Microsoft Intune, you can just add the Application Workspace Agent Bootstrapper to Microsoft Intune and then deploy multiple apps at once.

The following step-by-step instructions will help you deploy the Application Workspace Agent Bootstrapper within Microsoft Intune.

Prerequisites

Create an Entra ID identity source. For more information, see Microsoft Entra ID.

Application Workspace configurations

Create a self-signed certificate

1. In Application Workspace, navigate to **Manage** > **System** > **Device Registrations**.
2. Click on **+ Create** in the table toolbar.
3. In the **Create device registration** dialog box that opens, configure the following:
    - In **Type**, select *Certificate* and click **Next**.
    - In **Overview**, write a name, for example *Device enrollment* and click **Next**.
    - In **Settings**, check the **Use a self signed certificate for the device registration** option. This will create a self-signed certificate for you. Click **Next**.
    - In **Self signed**, write a common name and change the days valid and key size if needed. Click **Next**.
    - In **Summary**, leave the **Modify device registration after creation** option selected. Click **Finish**.
    - In the newly created certificate that opens, navigate to the **Settings** screen and click **Download for agent registration**. You need to save this file as you will use it when creating the .intunewin file that you will later upload to Intune.

Create a deployment

1. In Application Workspace, navigate to **Manage** > **Automation** > **Deployments**.

2. Click on + **Create** in the table toolbar.
3. In the **Create deployment** dialog box that opens, configure the following:
    - Enter the desired name and description and click **Next**.
    - In **Summary**, leave the *Modify deployment after creation* selected.
4. In the detailed view of the new deployment, configure the following:
    - In **Packages**, use the lookup field or the browse button ... to select the packages you want to deploy. Be sure to specify the *Install* action.
    - In **Assignments**, use the lookup field or the browse button ... and select an existing device collection for a targeted deployment or the *All devices* predefined collection to deploy to all devices.

Create a Temp folder for storing files necessary for Microsoft Intune

1. Create a folder on `Local Disk (C:)` to store all the files required to create an .intunewin file for Microsoft Intune:
    - The self-signed certificate you downloaded before from Application Workspace.
    - The latest version of the bootstrapper.
    - (Optional) If there are specific settings that cannot be handled by the bootstrapper, you should create an Agent.json file and add it to this folder. If you don't, the bootstrapper creates one for you during deployment. The objects that you can configure in the command line are Zone, Registration and Deployments (except for cancel, trigger, zoneTimeout). You can specify command lines for the bootstrapper in Intune, as explained later in this article.

Agent.json file example

Make sure that the Agent.json is formatted as UTF-8.

```
{
 "zone": "https://company.liquit.com/ ",
 "promptZone": "Disabled",
 "registration": { "type": "Certificate" },
 "log": { "level": "Info" },
 "deployment": {
 "enabled": true,
 "start": true,
 "context": "device",
 "cancel": true,
 "triggers": false,
 "autoStart": {
 "enabled": true,
 "deployment": "Deployment",
 "timer": 0
 }
 },
 "login": {
 "enabled": true,
 "sso": true,
 "identitySource": "Microsoft Entra ID",
 "timeout": 4
 },
 "icon": {
 "enabled": true,
 "exit": false,
 "timeout": 30
 },
 "launcher": {
 "enabled": true,
 "state": "Default",
 "start": "Auto",
 "tiles": true,
 "minimal": false,
 "contextMenu": true,
 "sideMenu": "Tags",
 "close": true
 },
 "nativeIcons": {
 "enabled": true,
 "primary": true,
 "startMenuPath": "${Programs}\\Liquit"
 },
 "restrictZones": true,
 "trustedZones": ["company.liquit.com "]
}
```


Microsoft Intune configurations

Download IntuneWinAppUtil

Download the latest version of IntuneWinAppUtil to a folder different than `C:\Temp\Liquit`, otherwise it will be included in the .intunewin file later on.

Prepare the .intunewin file for Microsoft Intune

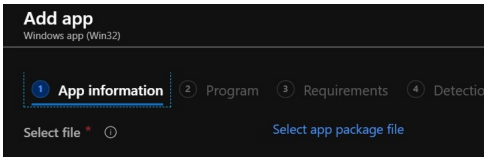
1. Start IntuneWinAppUtil.exe as Administrator.

2. Inside the tool, navigate to `C:\Temp\Liquit`. Press the Enter key on your keyboard.
3. Then specify the AgentBootstrapper file. Press the Enter key on your keyboard.
4. Then specify a name for the output folder. For example `C:\Temp\Output`. Press the Enter key on your keyboard.
5. When prompted for the catalog folder, press the N key and then the Enter key on your keyboard.
6. After the bootstrapper has run, navigate to the output folder to find the .intunewin file.

Upload the .intunewin file to Microsoft Intune

1. Go to Microsoft Intune admin center.
2. Select **Apps** > **By platform** > **Windows** > **+ Create**.
3. On the **Select app type** pane that opens, under the **Other app types**, select **Windows app (Win32)** and then click **Select**.

4. On the **App information** page click **Select app package file**.



5. The **Add package file** page opens where you upload the .intunewin file you previously prepared in Prepare the .intunewin file for Microsoft Intune, step 6. After you finish and click **OK**, you can see that Intune already filled in some of the app info. Once you finish filling in all the necessary details, click **Next**.
6. On the **Program** page, configure the following:
   - the install command (see Application Workspace Agent Bootstrapper 4.4). For example:

```
Bootstrapper.exe --zone "https://my.zone.com/" --startDeployment --deviceDeployment --registrationType Certificate --certificate "AgentRegistration.cer" --wait
```

or

```
Bootstrapper.exe --zone "https://my.zone.com/" --startDeployment --deviceDeployment --registrationType Credentials --registrationUsername "exampleUser" --registrationPassword "examplePass"``` --wait
```

   - the uninstall command, for example `Bootstrapper.exe --uninstall`
   - the log path, for example `--logPath "C:\Windows\Temp "`, to easily identify any errors in the process. If you do not specify a path, the current working directory will be used.
   - After you finish specifying the desired command, click **Next**.

7. On the **Requirements** page, select the 32 and 64-bit operating system architectures and the minimum operating system. Click **Next**.

8. On the **Detection rules** page, add your custom detection script for the Agent. For example:

```
# Define an array of file paths to check
$filePaths = @(
 "C:\Program Files\Liquit Universal Agent\Agent.exe",
 "C:\Program Files (x86)\Liquit Universal Agent\Agent.exe",
 "C:\Program Files (x86)\Liquit Workspace\Agent\Agent.exe"
)

# Loop through each file path and check if it exists
foreach ($path in $filePaths) {
 if (Test-Path $path) {
 Write-Host ("Application Workspace is installed at " + $Path)
 Exit 0
 }
}
Write-Host ("Application Workspace is not installed!")
Exit 1
```

If you signed the script, you can enable the option **Enforce script signature check and run script silently** to run the script silently.

9. On the **Dependencies** and **Supersedence** pages click **Next**.
10. On the **Assignments** page, assign it to devices, users or groups as needed. Click **Next**.
11. On **Review + create** page, review the values and settings that you entered for the app. Click **Create** to add the bootstrapper to Microsoft Intune.

Reboot

The device requires a reboot after the initial configuration. Until the deployment becomes inactive, the Application Workspace Agent service is disabled, and the Application Workspace Launcher is not available.