Recast

Deploy Agent using Microsoft Intune (Windows – Bootstrapper 4.4)

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> The information in this article is applicable only to devices running Windows OS and Bootstrapper 4.4 or later.
> The command lines and scripts in this article are examples. When file names are specified, modify them accordingly before running the command/script.

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

To set up the Agent Bootstrapper, you'll need to complete configuration steps in Application Workspace and in Microsoft Intune.

Prerequisites

- Entra ID identity source configured. For steps, see our Microsoft Entra ID article.

Configure Application Workspace for Agent Bootstrapper

Create a self-signed certificate

To create a self-signed certificate:

1. In Application Workspace, navigate to **Manage** > **System** > **Device Registrations**.
2. Click **Create** in the table toolbar.
3. In the **Create device registration** window 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

To create a deployment:

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

2. Click **Create** in the table toolbar.
3. In the **Create deployment** window that opens, configure the following:
    - Enter the desired name and description and click **Next**.
    - In **Summary**, leave '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 use the **All devices** collection.

Create a Temp folder for storing files necessary for Microsoft Intune

To create a Temp folder:

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 previously 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 "]
}
```


Configure Microsoft Intune for Agent Bootstrapper

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

To prepare the .intunewin file:

1. Start IntuneWinAppUtil.exe as an Administrator.

2. Inside the tool, navigate to `C:\Temp\Liquit`. Press **Enter** on your keyboard.

3. Specify the AgentBootstrapper file. Press **Enter** on your keyboard.

4. Specify a name for the output folder. For example `C:\Temp\Output`. Press **Enter** on your keyboard.

5. When prompted for the catalog folder, press the **N** key then **Enter** on your keyboard.

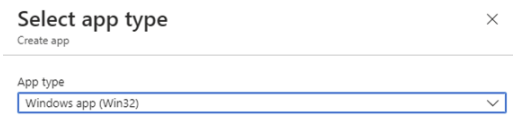
6. After the bootstrapper has run, navigate to the output folder to find the .intunewin file.

Upload the .intunewin file to Microsoft Intune

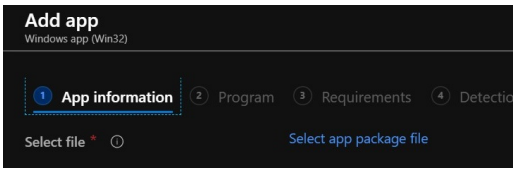
1. Go to Microsoft Intune admin center.

2. Select **Apps** > **By platform** > **Windows** > **+ Create**

3. In the **Select app type** window 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 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.

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