

# Enroll Windows Device using PPKG.

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## Summary

In this post I'm covering how to import device hash into Windows Autopilot devices using a provisioning package (PPKG)

There are 2 ways to get hardware imported into Windows Autopilot devices

- Using the manual (importing hash in Intune Admin Portal or Online) or automated method (covered in this post)
- Enabling "Convert all targeted devices to Autopilot" into Windows Autopilot deployment profiles for Hybrid Azure AD joined and Azure AD joined devices.

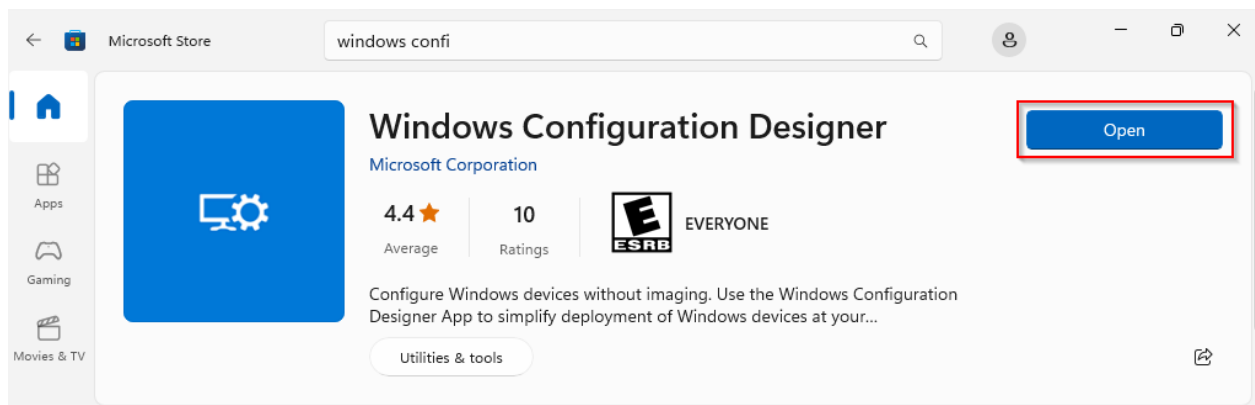
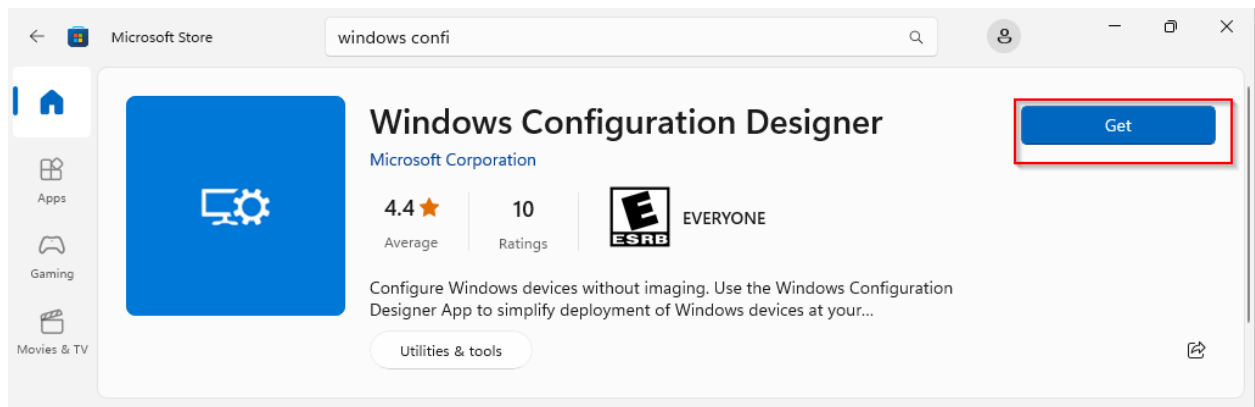
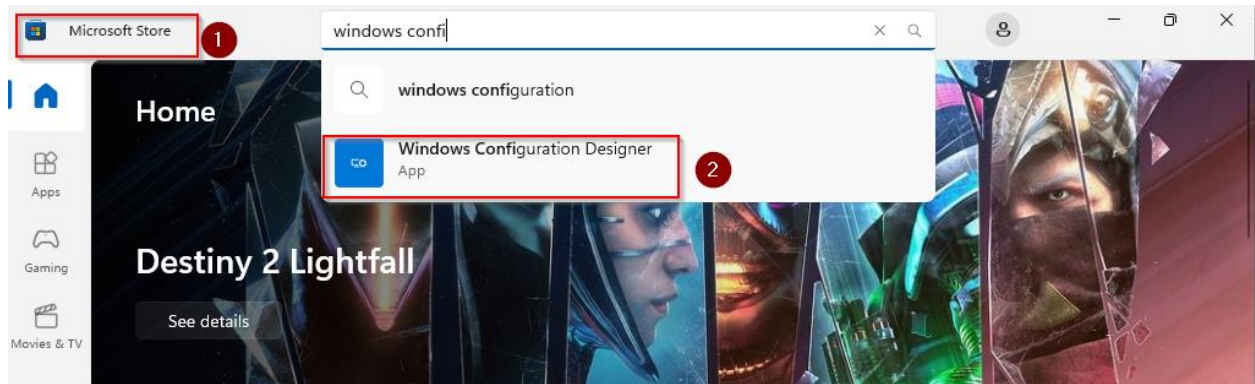
More info here <https://learn.microsoft.com/en-us/mem/autopilot/profiles>

## Notes

Converting all targeted devices to Autopilot isn't supported for transforming a hybrid Azure AD device into an Azure AD Autopilot device.

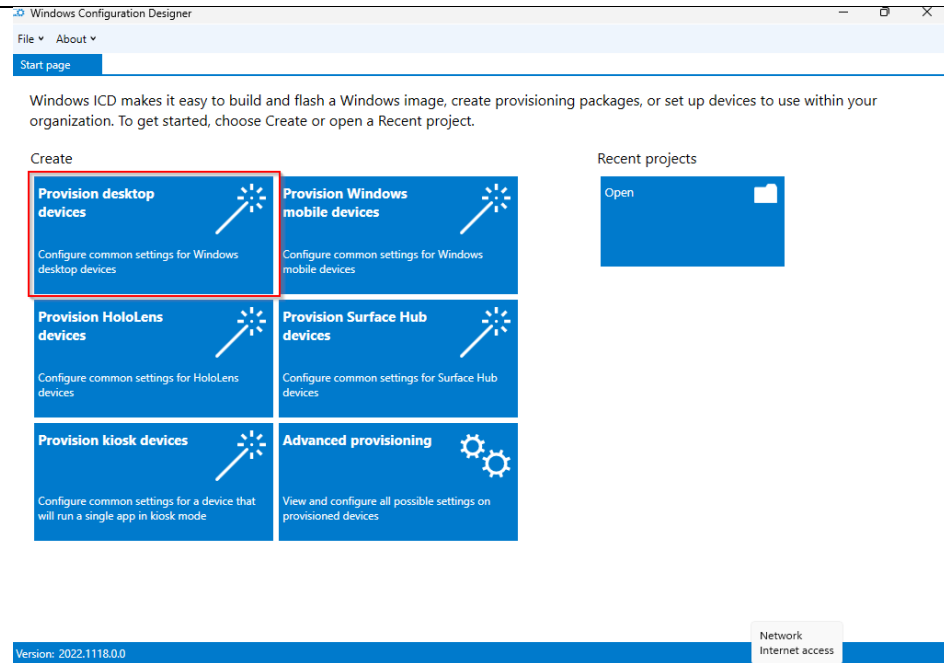
## Step 1

1. Create your PowerShell Script to import device hash into Windows Autopilot
  - a. This requires
    - i. **Azure AD application #1** registered using secret to be used by "Get-WindowsAutoPilotInfo" to upload the device hash to the default Group Tag "empty", in our scenario Hybrid Azure AD joined. **– post to be published**
    - ii. **Azure AD application #2** registered using certificate to be used by SharePoint online PowerShell module to send out the device information to SharePoint online Lists **– post to be published.**
2. Open Microsoft Store on windows 10 or 11
3. Search for "" and click on it
4. Proceed with its installation – clicking on Get
5. Click open when installation is finished



You're now on Windows Configuration Designer main screen.

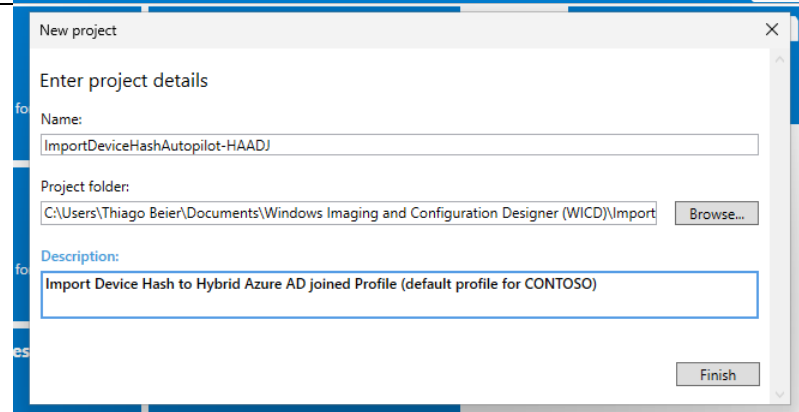
Click on Provision desktop devices



Give it a **Name** and a **Description**

**Note:** this scenario all Hybrid Azure AD Joined devices will have Group Tag as **"blank"** in our Tenant. Then click Finish

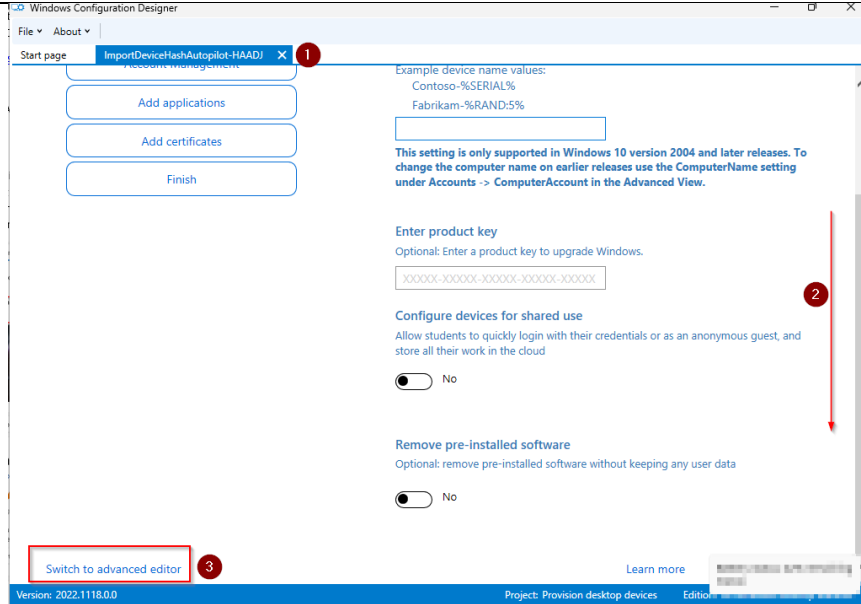
All Azure AD Joined devices will have **AADJ** as Group Tag



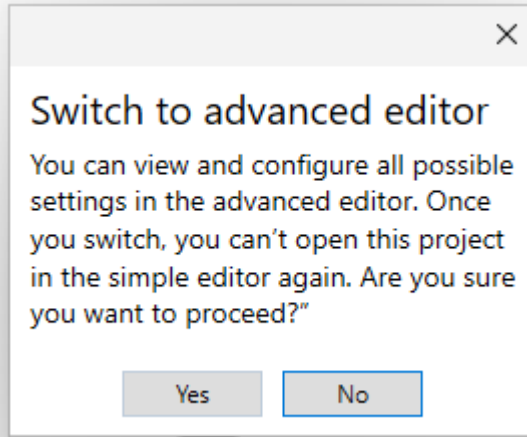
You're now under the Project (1)

Scroll down (2) until you find the option Switch to advanced editor (3)

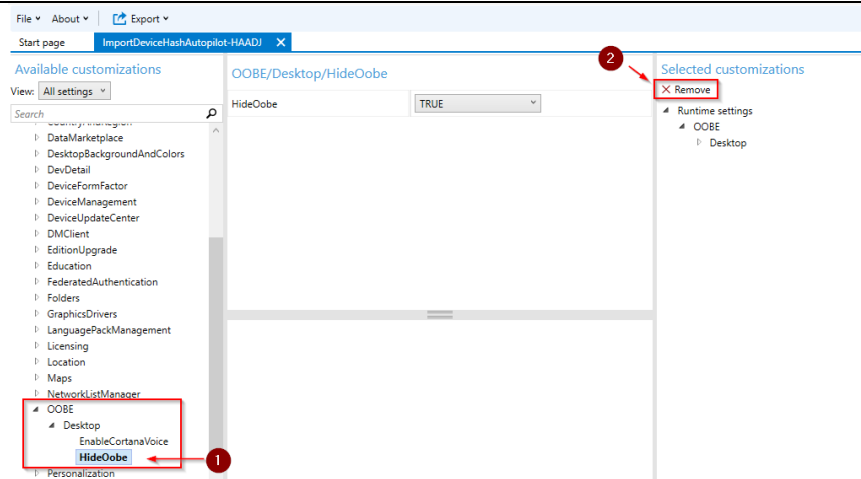
Click on it.

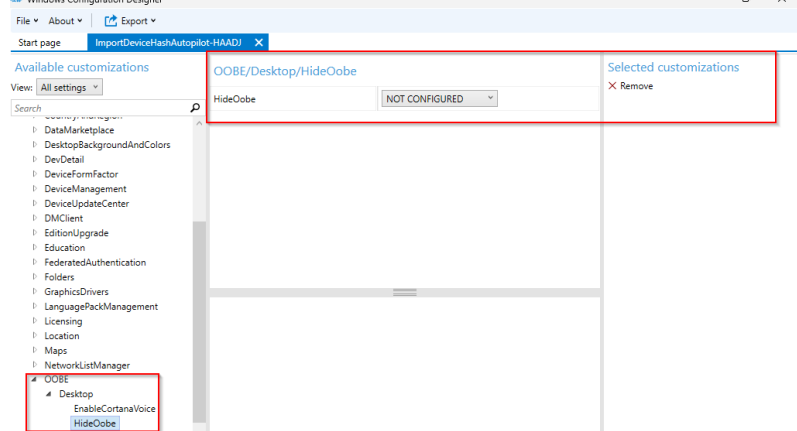
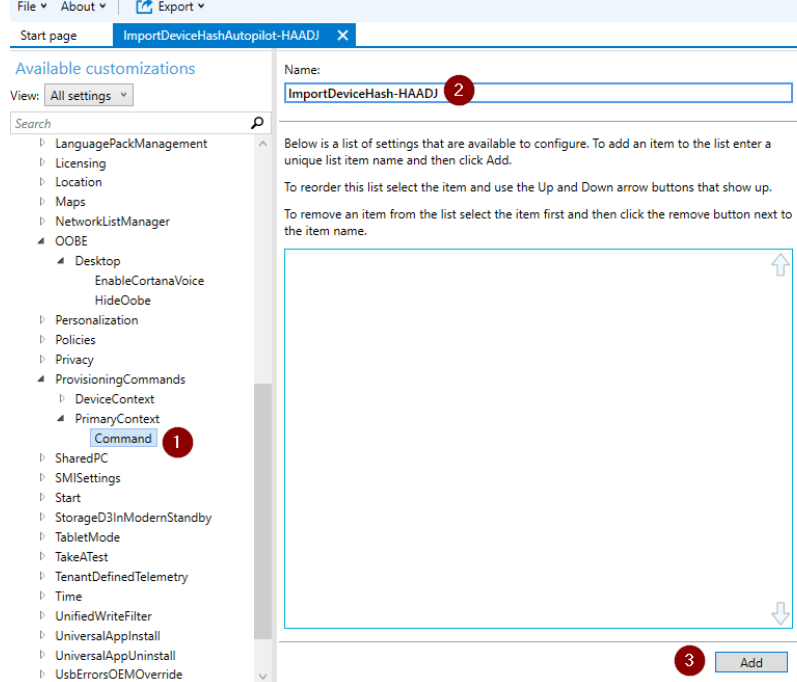


Select YES for the warning. After you select YES there's no way to switch back to in the simple editor.

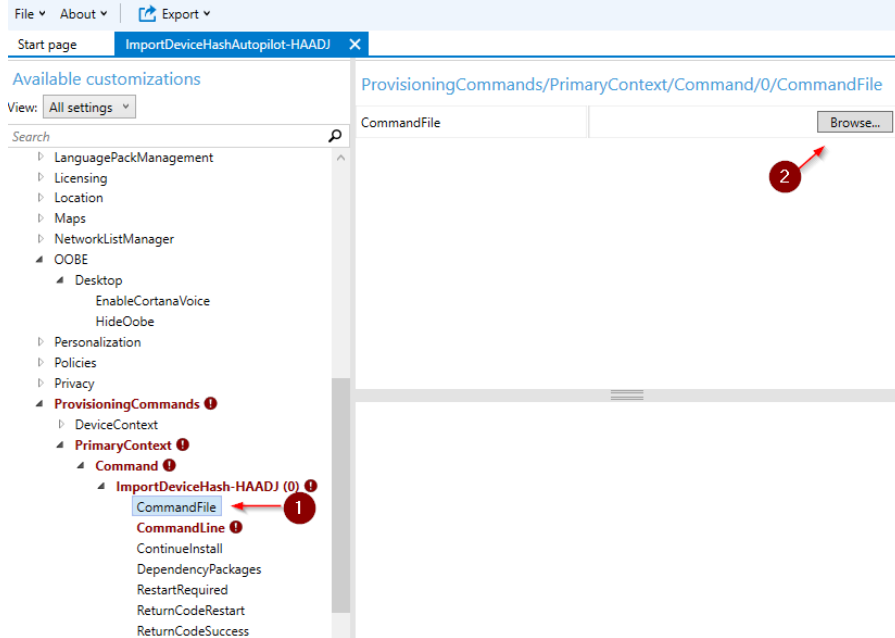


After you have all Runtime settings expanded  
Scroll down  
Find OOBE  
Expand it  
Select **HideOOBE** on the left  
Then click on Remove

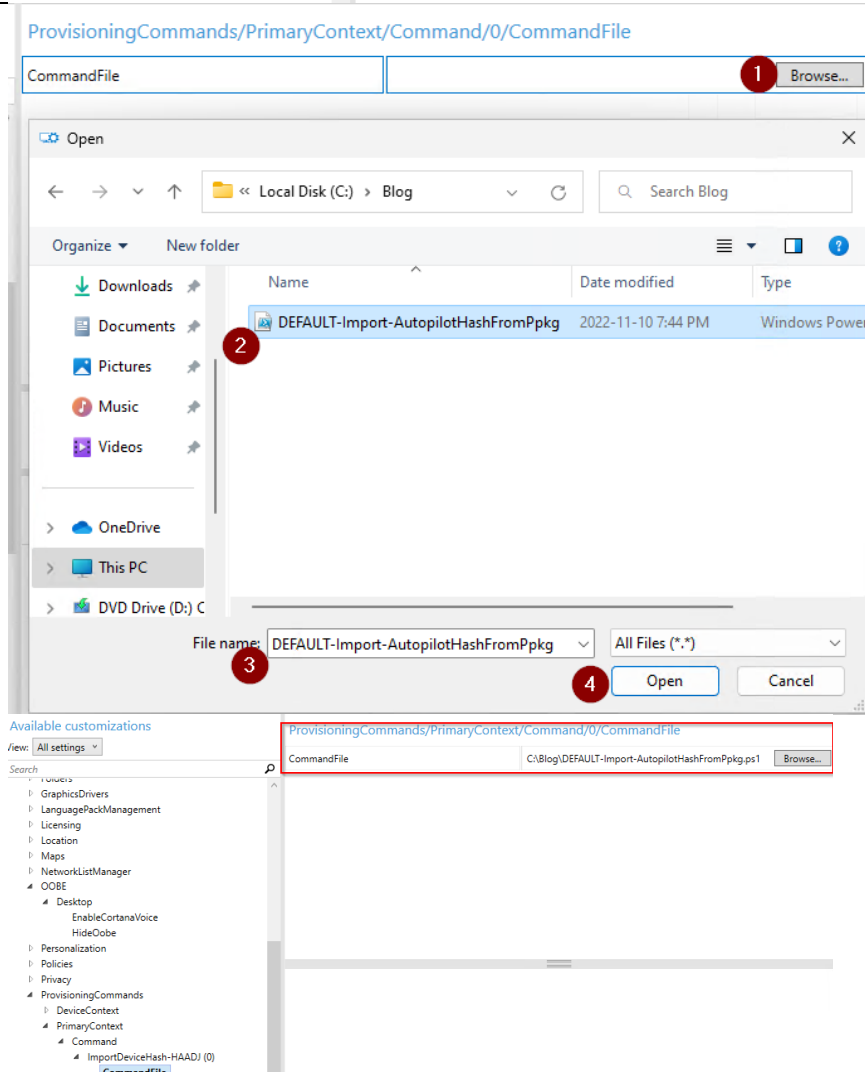


<p>Expected result</p>	
<p>Scroll down Find “ProvisioningCommands” Expand Primary Context and click on Command (1) On the Center, give it a name (2) Then click Add (3)</p>	

**Expand the**  
**“ImportDeviceHash-HAADJ”**  
**Select CommandFile (1)**  
**Click Browse (2)**

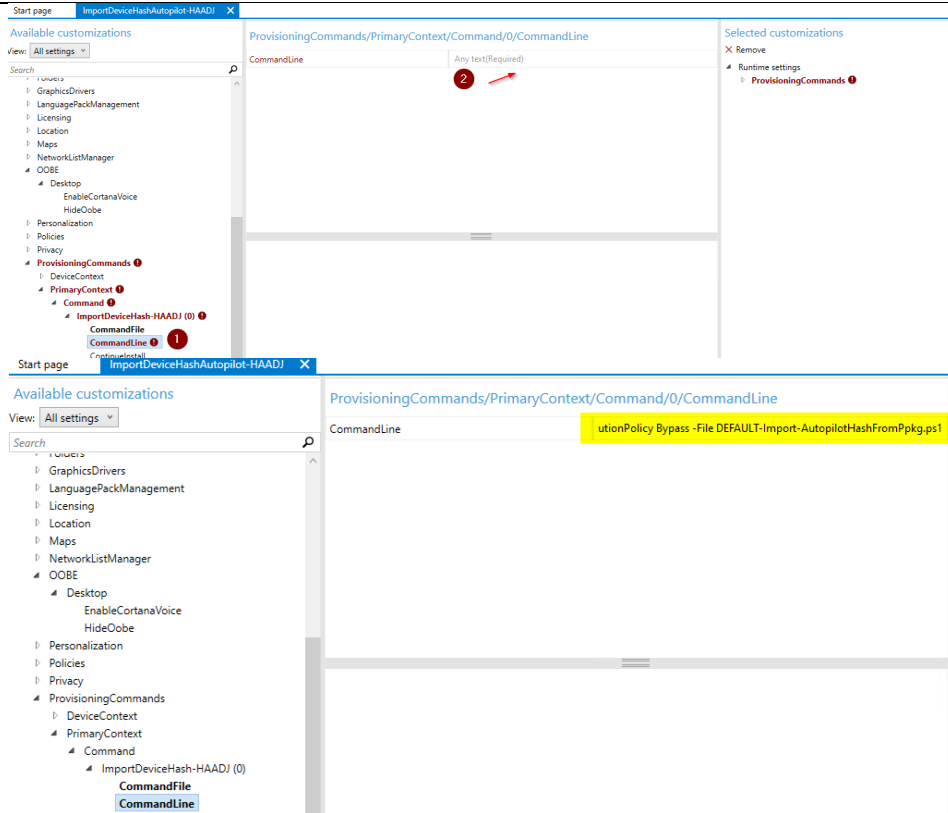


**Go to the folder where your**  
**PowerShell is located. (1)**  
**(2) select the PowerShell file**  
**(3) make sure that's the**  
**correct file**  
**(4) click open**

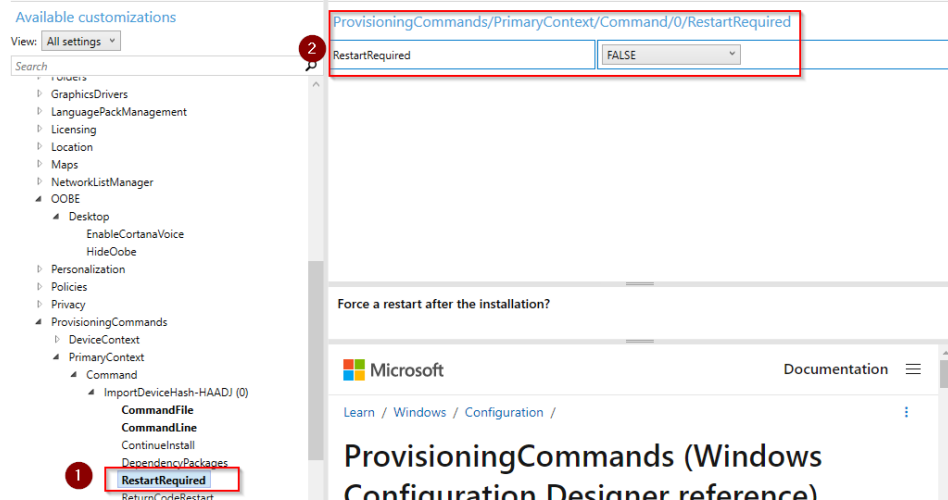


Now proceed to  
"CommandLine"

- (1) Select it
- (2) Add the PowerShell command to be executed  
"PowerShell.exe -  
ExecutionPolicy Bypass -File  
DEFAULT-Import-  
AutopilotHashFromPpkg.ps1  
"



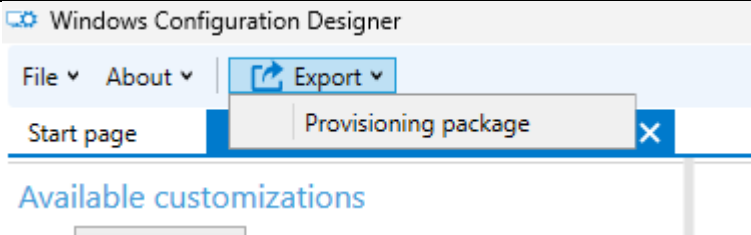
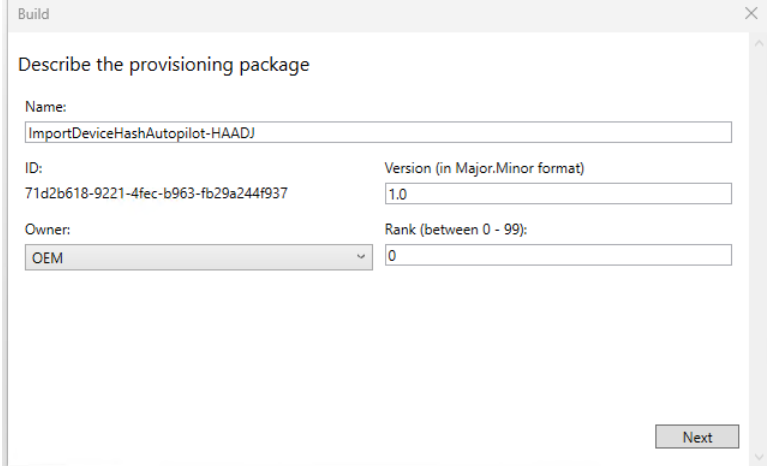
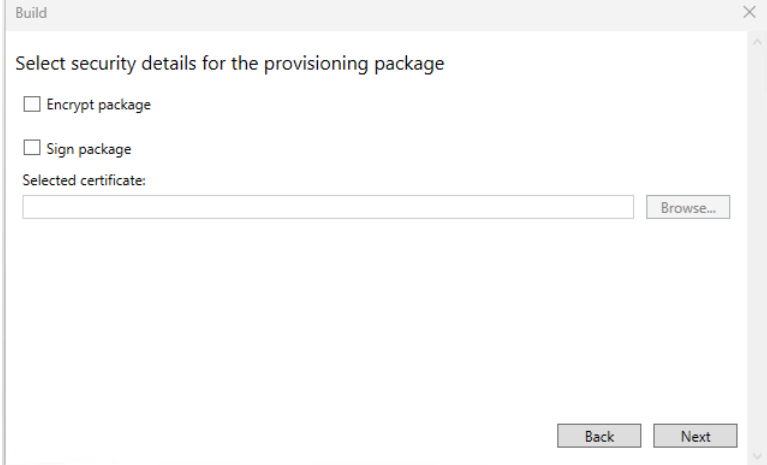
- Under RestartRequired (1)  
Select FALSE (2)  
Then click anywhere on the  
screen (blank area)



Now click on  
DependencyPackages  
Then select Browse  
Go to source folder  
(C:\blog\)  
Select the following files at  
the same time then click  
Open

Cmtrace.exe,  
companyPortal.ico,  
PnPPowerShell.cer and

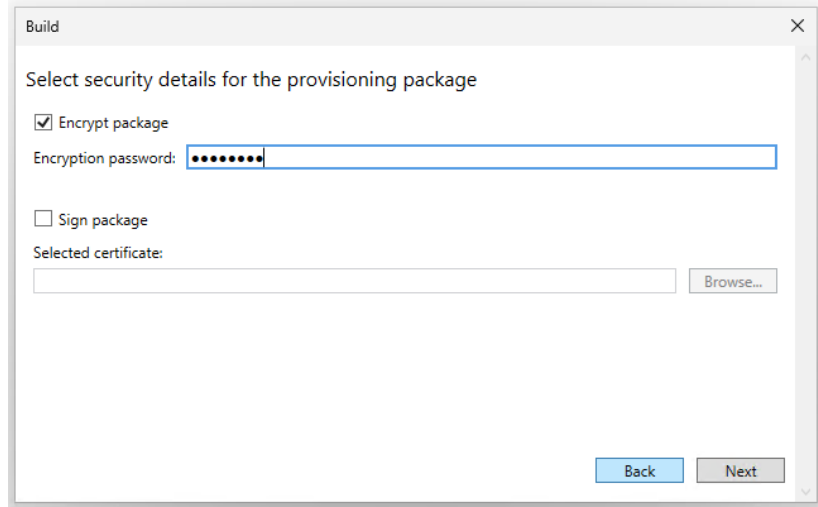
All cmtrace.exe, companyPortal.ico, PnPPowershell.cer and PNPowershell.pfx files are part of this deployment that you can check other blog posts at <https://thebeier.com> to learn more about it.

<p>PNPPowerShell.pfx</p>	
<p>Exporting the package Click on the Export option (1) Then select Provisioning package (2)</p>	 <p>The screenshot shows the Windows Configuration Designer application. The 'Export' menu is open, and the 'Provisioning package' option is selected. The 'Start page' tab is also visible.</p>
<p>Keep the Name (1) Select "IT Admin" at Owner (2) Click Next (3)</p>	 <p>The screenshot shows the 'Build' dialog box with the title 'Describe the provisioning package'. The fields are filled as follows: Name: ImportDeviceHashAutopilot-HAADJ ID: 71d2b618-9221-4fec-b963-fb29a244f937 Version (in Major.Minor format): 1.0 Owner: OEM (selected from a dropdown) Rank (between 0 - 99): 0 A 'Next' button is at the bottom right.</p>
<p>Under Build Click next (1)</p>	 <p>The screenshot shows the 'Build' dialog box with the title 'Select security details for the provisioning package'. It contains two unchecked checkboxes: 'Encrypt package' and 'Sign package'. Below them is a 'Selected certificate:' field with a 'Browse...' button. 'Back' and 'Next' buttons are at the bottom.</p>



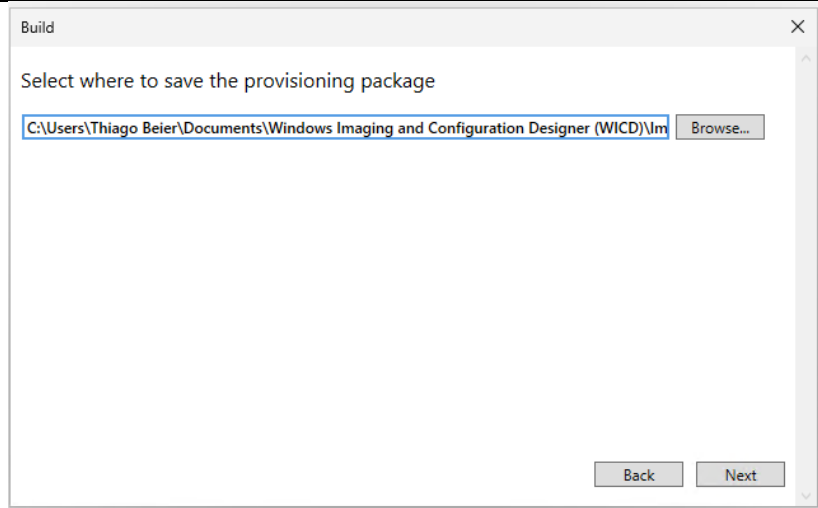
If you want to encrypt the password (request a user a Password to run it)  
Select Encrypt package and give a password

**Note:** there's no way to recover the password.  
However, a new build can be done (Export) and update its password (new package version)  
Select Encrypt package  
Give it a password = CSIP#2022 (1)  
Click Next (2) to proceed



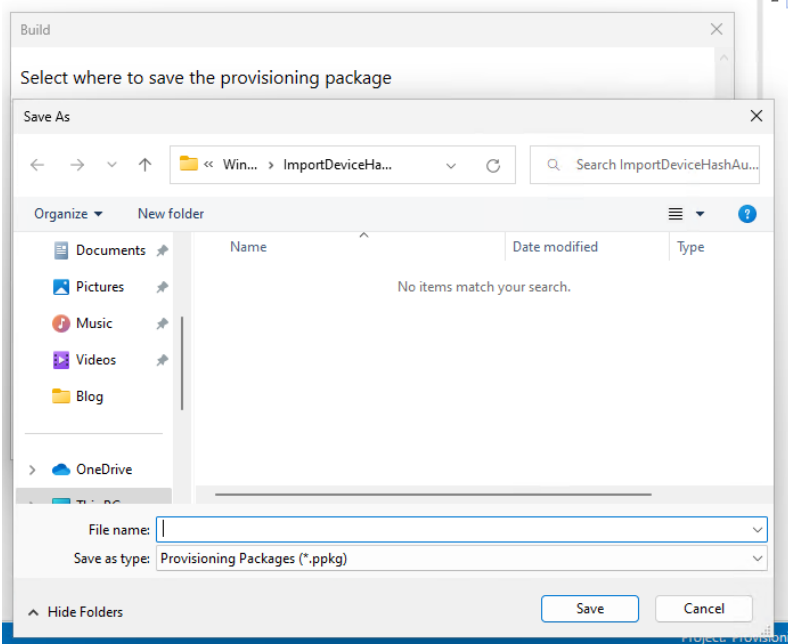
The screenshot shows a 'Build' dialog box with the title 'Build' and a close button. The main heading is 'Select security details for the provisioning package'. There are two options: 'Encrypt package' which is checked, and 'Sign package' which is unchecked. Below 'Encrypt package' is a text field for 'Encryption password:' containing several dots. Below 'Sign package' is a text field for 'Selected certificate:' and a 'Browse...' button. At the bottom right are 'Back' and 'Next' buttons.

You can change the package output folder – not required for this scenario  
Clicking on browse (1)  
Then click next (2) to proceed

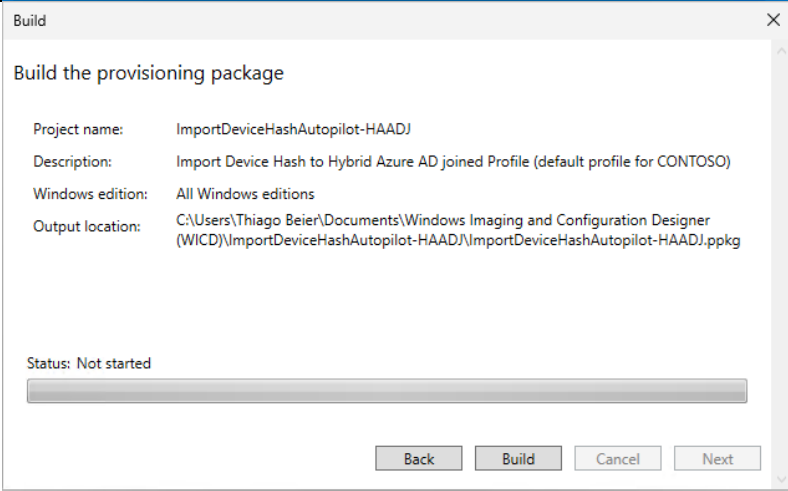


The screenshot shows a 'Build' dialog box with the title 'Build' and a close button. The main heading is 'Select where to save the provisioning package'. There is a text field containing the path 'C:\Users\Thiago Beier\Documents\Windows Imaging and Configuration Designer (WICD)\Im' and a 'Browse...' button. At the bottom right are 'Back' and 'Next' buttons.

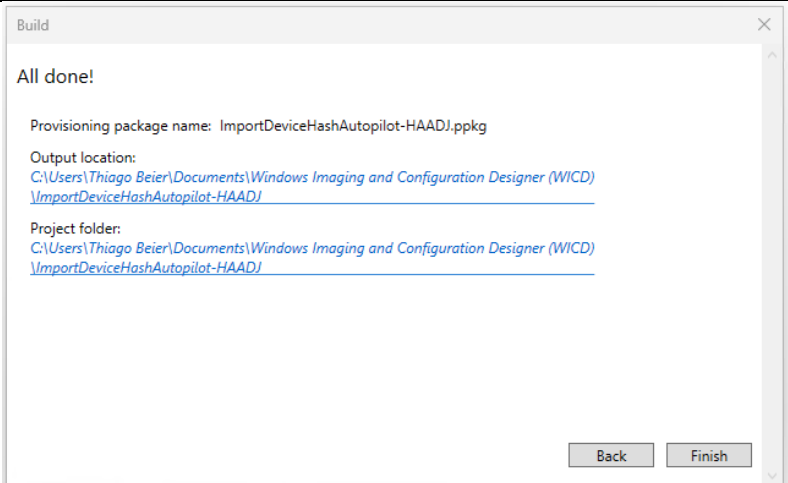
TIP: click on the UNC path ,  
CTRL + A (select ALL), paste  
on (windows key + R) to see  
the directory (remove the  
last part – that's the file  
name CSIPerseus-  
Onboarding.ppkg)  
Or past in notepad  
C:\Users\THiago\Documents  
\Windows Imaging and  
Configuration Designer  
(WICD)\CSIPerseus-  
Onboarding  
Click on Build to finish the  
process (1)



Check the output location  
(1)  
Check the project folder (2)  
Finish this process (3)



On windows explorer  
Click view (1)  
Check "file name  
extensions" checkbox (2)  
Validate the file name (3) -  
.ppkg  
The PPKG file will be given to  
Local IT, CIT, Help Desk or  
end-user to initiate its  
DEVICE Enrollment in  
YOURTENANT tenant.



Upload the PPKG to  
SharePoint site where you  
have access using  
[first.last@domain.com](mailto:first.last@domain.com)

SharePoint

Search this library

Contoso

Public group

New

Upload

Edit in grid view

Share

Copy link

All Doc

Documents

General

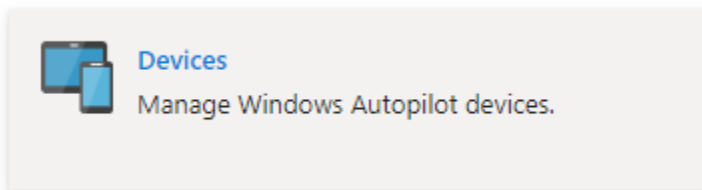
Intune

	Name	Modified	Modified By
	ImportHashWindowsAutopilotDevices.ppkg	A few seconds ago	MOD Administrator

## Step 2

Go to the Device you want to enroll and run the following steps:

- During OOB (New device to intune or Existing Device that's being imported)
- Run Shift + F10
- You now have access to CMD.exe
- Press Windows key + R
- Type: msedge
- After Edge is open follow its wizard and do not cache any logon information neither synchronization options
- Go to your SharePoint site
- Go to your document library
- Download the PPKG file.
- Run it from the browser
  - It won't show any notification if that's being executed on a brand new device
  - It will show a notification when executed on existing devices (devices in use that only need to be imported to autopilot)
- Go back to Microsoft Intune Admin center \ Devices \ Enroll Devices \ [Devices](#) (Windows Autopilot Devices)



- Check if imported device has its Profile status as "assigned"

Windows Autopilot devices

Windows enrollment

Sync Filter Import Export Assign user Refresh Delete

Essentials

Last sync request: 03/15/23, 8:19 PM | Last successful sync: 03/15/23, 8:19 PM

Windows Autopilot lets you customize the out-of-box experience (OOBE) for your users.

Search by serial number

Serial number	Manufacturer	Model	Group tag	Profile status	Purchase order
<input type="checkbox"/> 3407-1...	Microsoft Corporation	Virtual Machine		Assigned	N/A
<input type="checkbox"/> 4975-5...	Microsoft Corporation	Virtual Machine		Assigned	N/A

Enjoy it.

A video recording will be uploaded In a few weeks to help you with this deployment.

Cheers,

**Thiago Beier**

**Toronto, ON**

<https://thebeier.com>