MDM Bulk Enrollment Intune

AUTHOR

Neeraj Kumar

ABSTRACT

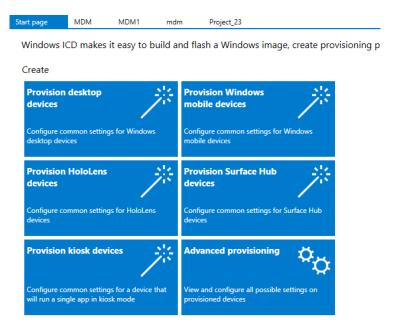
This document provides information about Bulk Enrollment to MDM.

Table of Contents

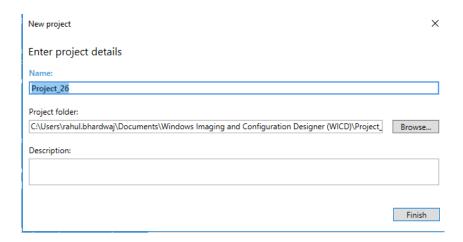
Creating Provisioning Package MDM Bulk Enrollment	2
Install Provisioning package silently	11
Creating Application Which Will be Push by Intune	14

Creating Provisioning Package MDM Bulk Enrollment

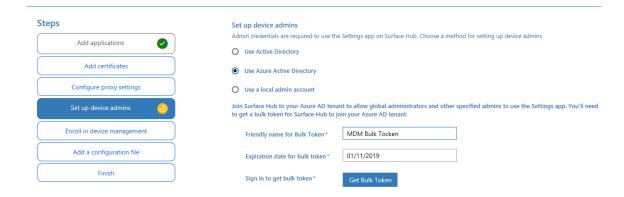
1. Open Windows Configuration Designer from either the Start screen or Start menu search, type 'Windows Imaging and Configuration Designer' and open the application.



- 2. Click Provision Surface Hub devices.
- 3. Name your project and click Finish.

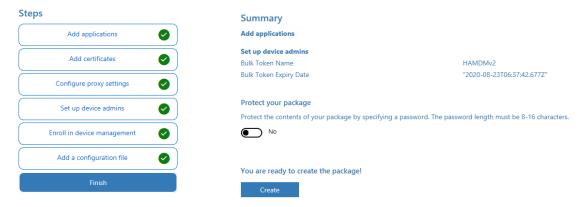


- We will find the Configure Setting.
 Skip the Add Application, Add Certificate and Configure Proxy Setting.
- 5. Select "**Setup Device Admins**" and Type the Name and generate the Bulk Token, To enroll the device in **Azure Active Directory.**

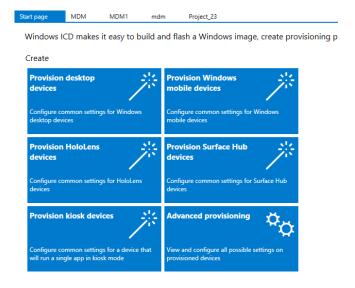


Note: Here we are using Azure Active Directory for setting Device Admins. This gets the bulk token from Azure AD which is **valid for maximum of 30 days.**

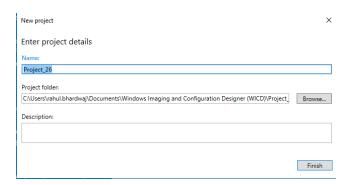
- 6. For MDM Enrollment, we will have to provide some details
- 7. Finish the wizard. This will create the PPKG file.



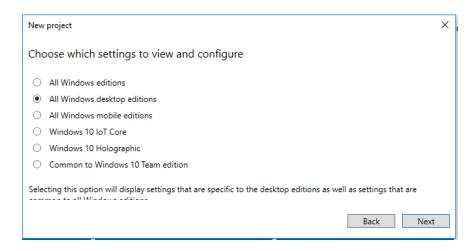
8. Again, Open Windows Configuration Designer from either the Start screen or Start menu search, type 'Windows Imaging and Configuration Designer' and open the application.



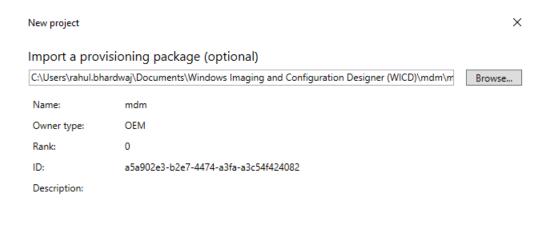
- 9. Click on Advanced Provisioning.
- 10. Name your project and click Finish.



11. Choose "All Windows Desktop Edition" and Click on Next



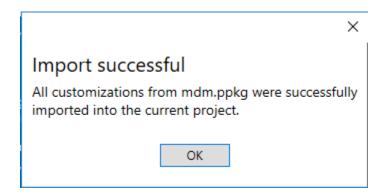
12. Import the PPKG file which we had created in the above using "Provision Surface Hub devices" and Click on Finish.



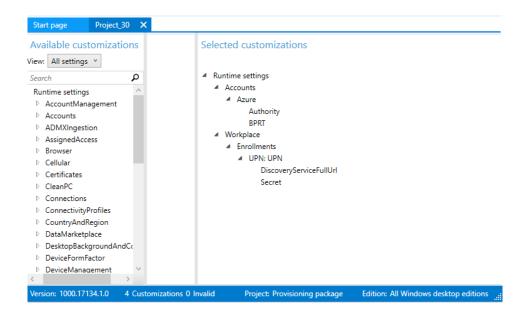
Back

Finish

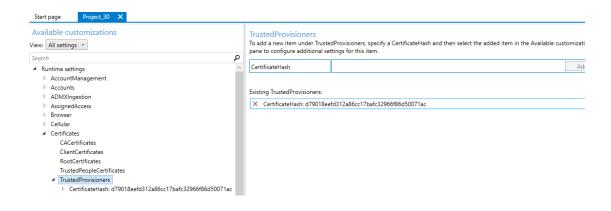
13. After Click on Finish we will get a POP for the PPKG file is imported successfully.



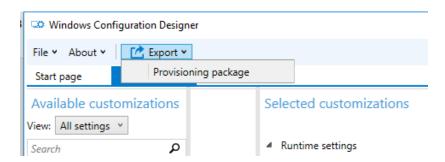
14. We can see what customization we had done in the "Provision Surface Hub devices"



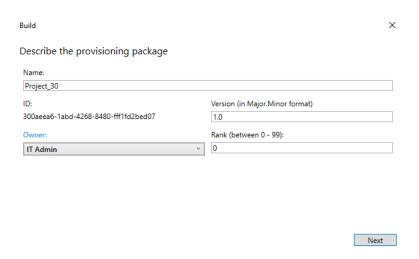
15. A Trusted Provisioning Package is created by providing the copied certificate hash from the certificate & provide the local path of the .cer file of that certificate.
The .cer file can be generated from the mmc console.



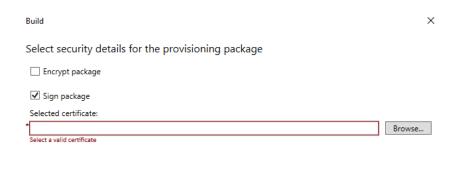
16. After Verifying, click on Export the PPKG file and select "Provisioning Package".



17. After Selecting "Provisioning Package" we will Get another pop up. We will change the owner to IT Admin and Click on Next.



18. For Silent installation of PPKG file we will choose Sign Package with Certificate and Browse for the Trusted Root CA Certificate which will be Provides by the AD Administrator.

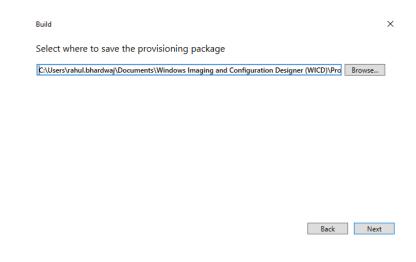


Back Next

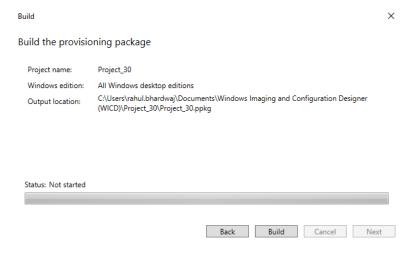
19. After Clicking on Browse we will get the trusted Root CA Certificate. Select the certificate and click on Next. (This certificate will be provided from ADFS server)



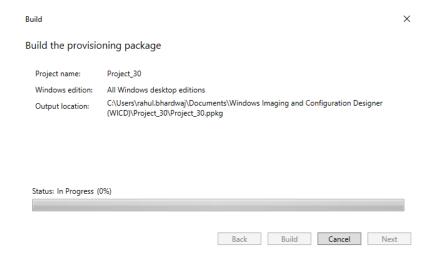
20. Browse the Path where we want to save the PPKG File and Click on Next.



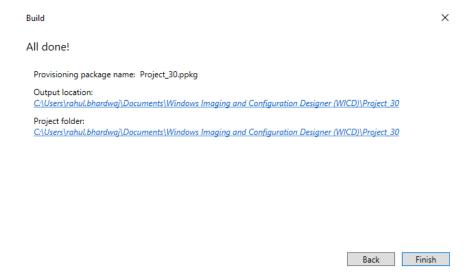
21. Click On build.



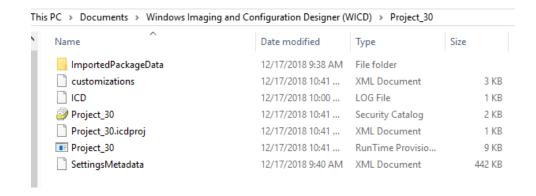
22. After clicking in Build, we will see that PPKG file is start Building.



23. PPKG file is Build.



24. When we click on Output Location we can see the where PPKG file is build.



25. Go to WCD and Click on Finish.

Build X

All done!

Provisioning package name: Project_30.ppkg

Output location:

C:\Users\rahul.bhardwaj\Documents\Windows Imaging and Configuration Designer (WICD)\Project 30

Project folder:

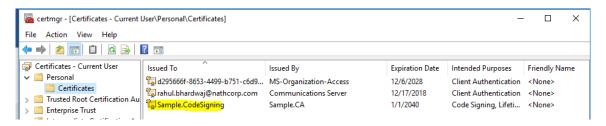
C:\Users\rahul.bhardwaj\Documents\Windows Imaging and Configuration Designer (WICD)\Project 30

Back

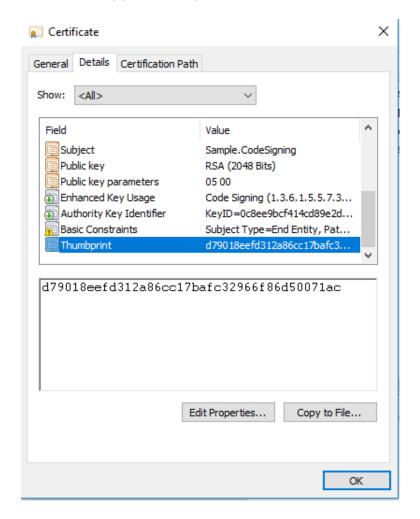
Finish

Install Provisioning package silently

- 1. Prepare a Windows 10, installed WCD on it.
- 2. Issued a code signing certificate from ADCS server & issued to the Client machine, installed it under current user→ Personal & Trusted root CA(I had created .cer using makecer tool)

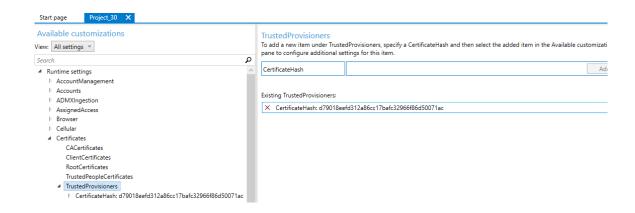


3. Open the certificate, copy the thumbprint. (certificate Hash)

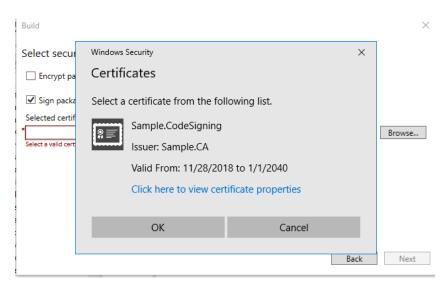


4. In WCD console, A Trusted Provisioning Package is created by providing the copied certificate hash from the certificate & provide the local path of the .cer file of that certificate.

The .cer file can be generated from the mmc console.



5. Now, singed the PPKG with the certificate.

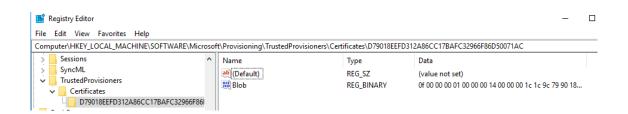


6. The trusted provisioner PPKG generated in the shown location

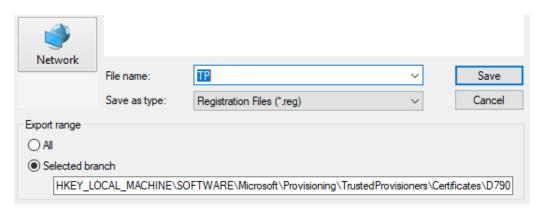


- 7. Installed that PPKG by double clicking & clicking on yes when it gives prompt.
- 8. The installed PPKG made the following changes in the registry-HKLM\software\Microsoft\Provisioning\TrustedProvisioners

The hash value of the provisioning certificate must appear under certificates.



9. Export the registry setting for the trusted provisioners & saved it as .reg file to use as a trusted provisioner instead of the PPKG.



10. Registry will look like: -

Creating Application Which Will be Pushed by Intune

I. Before Application is created the File will look like: -

Name	Date modified	Туре	Size
MDM	12/14/2018 18:54	File folder	
cmd cmd	11/28/2018 20:06	Windows Batch File	1 KB
install	12/14/2018 18:59	Windows Batch File	1 KB
	12/14/2018 18:06	Security Catalog	2 KB
■ mdm	12/14/2018 18:06	RunTime Provisio	9 KB
mdm	11/28/2018 11:50	Registration Entries	7 KB
e mdm	12/14/2018 13:22	XML File	4 KB
 mdmv	7/26/2018 12:42	VBScript Script File	1 KB
SettingsMetadata	12/14/2018 18:03	XML File	442 KB
Uninstall-IntuneClient	5/30/2018 05:15	Windows PowerS	2 KB

II. We will Run Install.batch file.

What the Batch file do: -

- a. It will Uninstall the Intune Legacy Client.
- b. It will import the Registry for Silent installation of PPKG file.
- c. It will Create a Task Scheduler for Running the PPKG file after restart of the Device.
- d. Last line after uninstallation of Legacy it will restart, so that the PPKG file run on the device.

```
Rem Uninstall legacy Intune
cmd /c taskkill /f /im cltui.exe
PowerShell.exe -ExecutionPolicy ByPass "c:\nathcorp\MDM\Uninstall-IntuneClient.ps1"

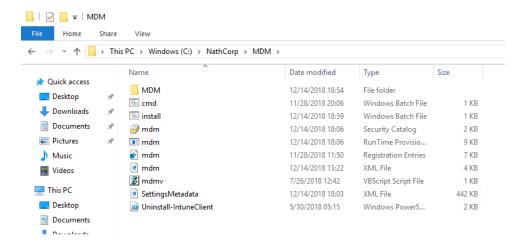
Rem Create Scheduler for MDM enrollment
cmd /c regedit.exe /s "C:\NathCorp\MDM\mdm.reg"
cmd /c schtasks /create /xml "c:\Nathcorp\MDM\mdm.xml" /TN "mdm"

Rem Custom Restart Notifications
cmd /c schtasks.exe /Create /XML "c:\nathcorp\MDM\CustomRestart.xml" /tn CustomRestart
cmd /c schtasks /Run /TN customrestart
TIMEOUT /T 10
cmd /c schtasks /delete /tn "CustomRestart" /f
```

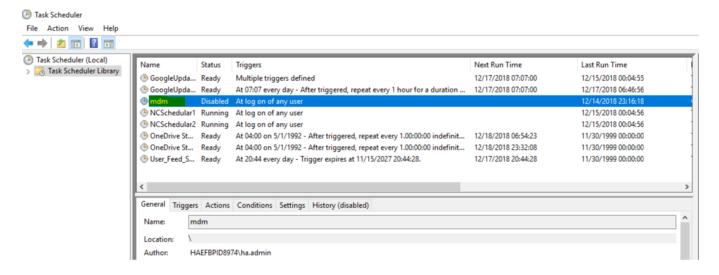
III. Create the Application using WinRAR.

crocoming	12/12/2010 10:11:11	ATTLE DOCUMENT	1.100
🔯 InstallMDM	12/15/2018 12:32	Application	340 KB
ncouncelient	12/2/2019 2:45 DM	Application	2 527 KB

- IV. Create the Package in the Legacy Intune, deploy it to the windows 10 device.
- V. The file will be Extracted under Nathcorp Folder



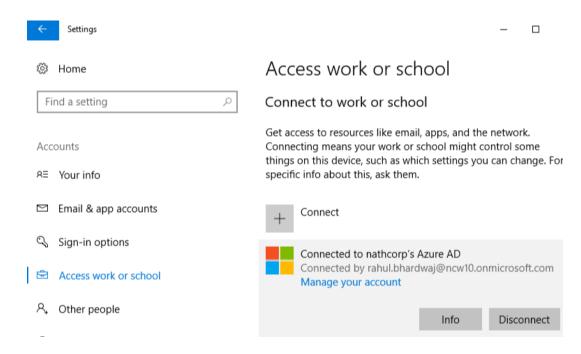
- VI. Install.batch will run & give a Pop up after 5-10 sec that your device will be restarted in 45 min.
- VII. After this we can verify that One Task Scheduler is created (Name- mdm).



VIII. After the PPKG file is install. We will get a pop-up that the device will be signed out in a minute.



IX. After Restart we can verify in the setting -> Account -> Access work or school.



X. We can also verify it from Azure Portal. Under. Home -> Microsoft Intune -> Devices -> Azure AD Devices.

Because the device is Enroll using PPKG file show in the owner it is showing Package.

