

WIPRO Capstone Project-1

Project On - Digitally Sign an MSIX Package using Certificate

Project-Name: Digitally Sign an MSIX Package. Create or use a certificate to sign an MSIX package.

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Training Batch: Wipro_25VID1334_DWS - Batch 1

Project-Batch No: 12

1. About Project

This project helps us understand how to digitally sign an MSIX package. Signing is an important step to make the package trusted and secure. A signed package tells Windows and users that the app is from a trusted source.

Digital signing is like putting a seal or signature on your MSIX package. It shows that the package is genuine and safe to install. It is important because it makes the MSIX package trusted prevents security warnings during installation. In this project, I learned how to generate a test certificate using PowerShell, use the MSIX Packaging Tool to sign the package. signing increases security, builds trust, and is required when deploying MSIX apps through platforms like Microsoft Intune

2. Prerequisites

- MSIX Packaging Tool (from Microsoft Store)
- PowerShell (for certificate creation)
- A .pfx certificate file to sign the MSIX package
- An installer file like .exe or .msi of an application

3. Tools and Technologies Used

- MSIX Packaging Tool
- PowerShell

4. Tasks Performed

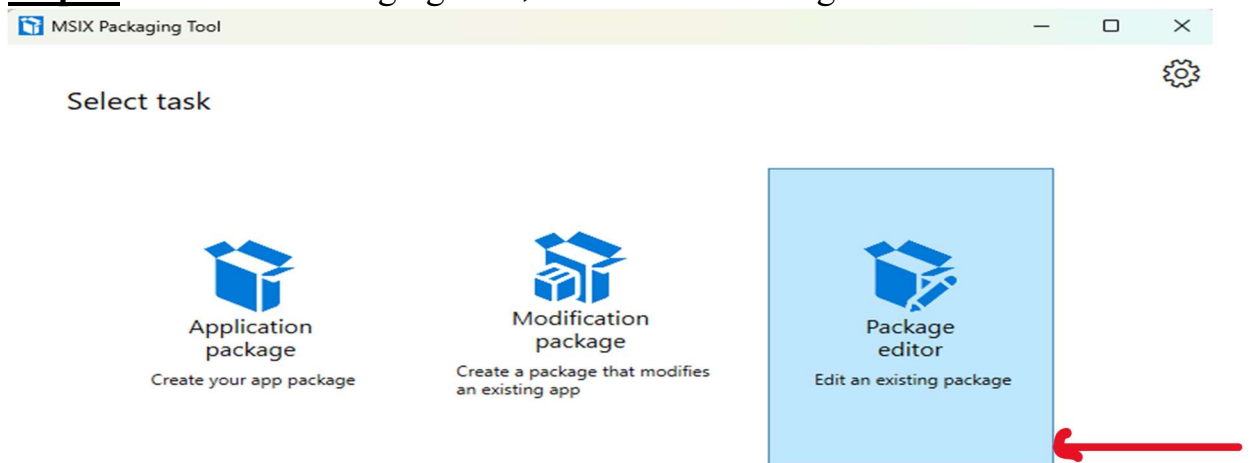
Steps To Digitally Sign an MSIX Package:

Step1: Create a Test Certificate Using PowerShell use the below command to create a test certificate

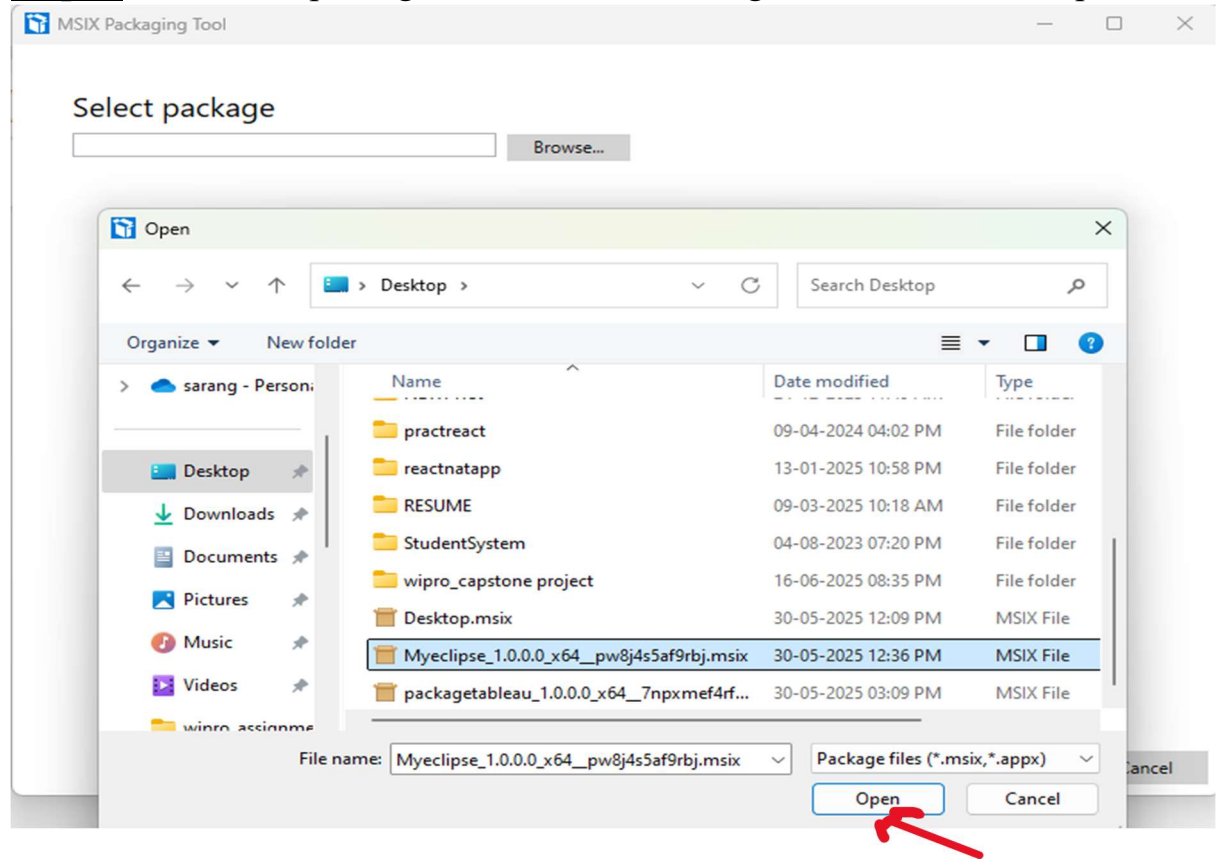
```
PS C:\Users\DELL> $cert = New-SelfSignedCertificate -Type CodeSigningCert -Subject "CN=MSIXTestCert" -CertStoreLocation "Cert:\CurrentUser\My"  
Export-PfxCertificate -Cert $cert -FilePath "C:\Users\DELL\Desktop\MyMsixCert.pfx" -Password (ConvertTo-SecureString -String "Test@123" -AsPlainText -Force)
```

```
Directory: C:\Users\DELL\Desktop  
  
Mode                LastWriteTime         Length Name  
----                -  
-a-----          16-06-2025   08:20 PM         2606 MyMsixCert.pfx
```

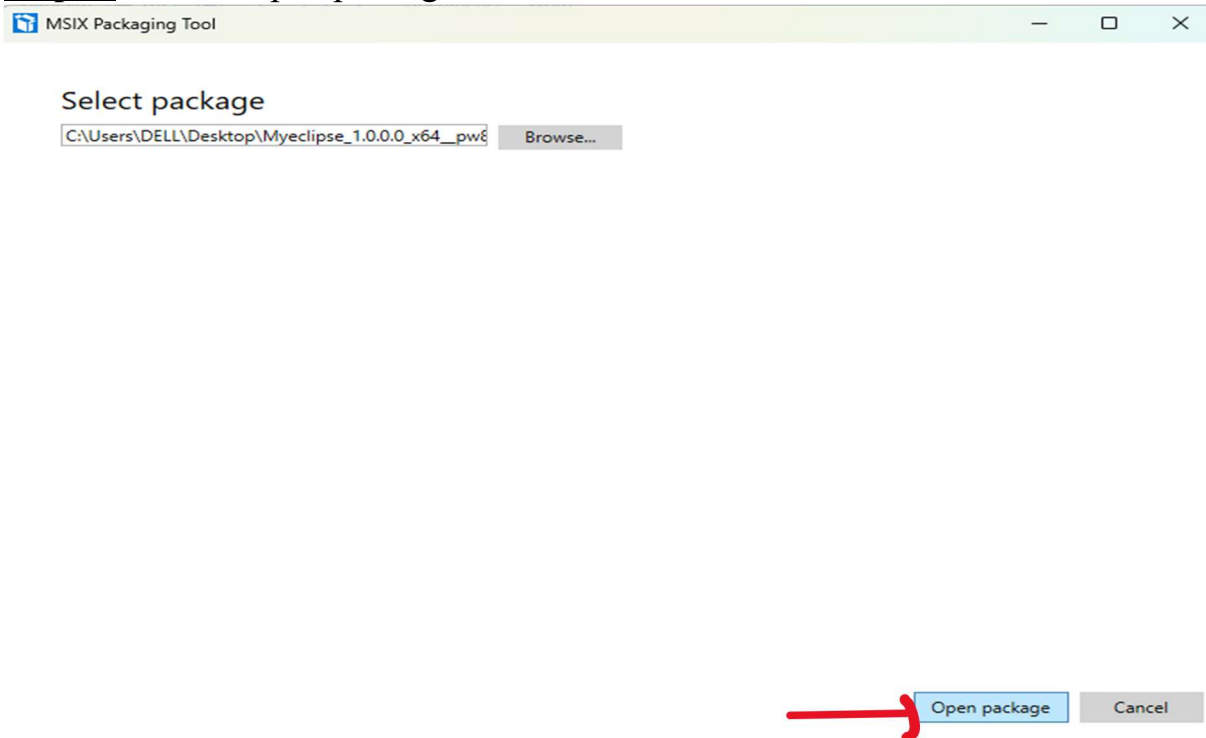
Step2: Use MSIX Packaging Tool, Click on the Package editor



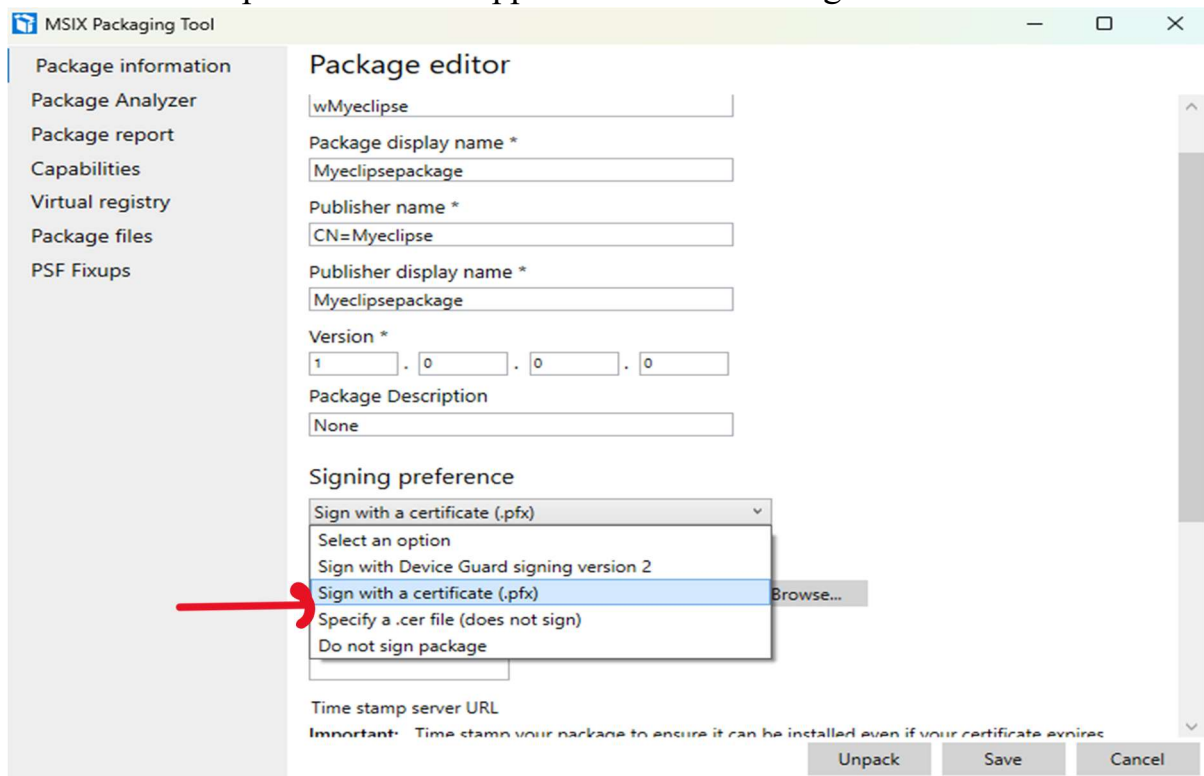
Step3: Browse the package As shown in the image and then click on open



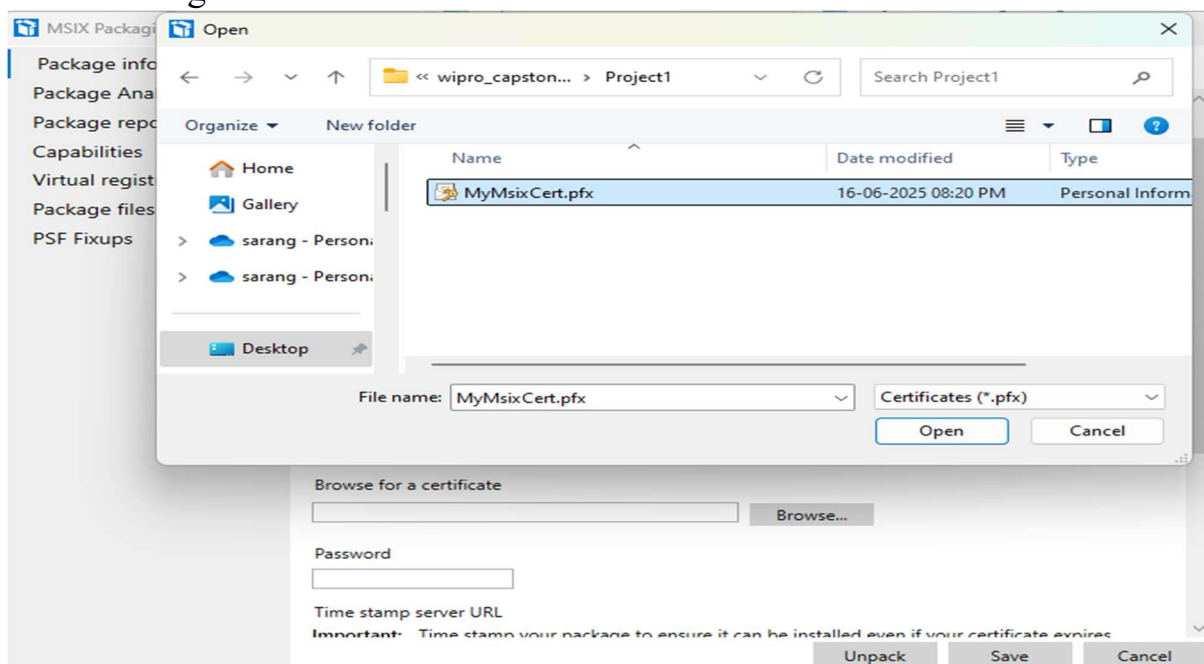
Step4: Click on open package



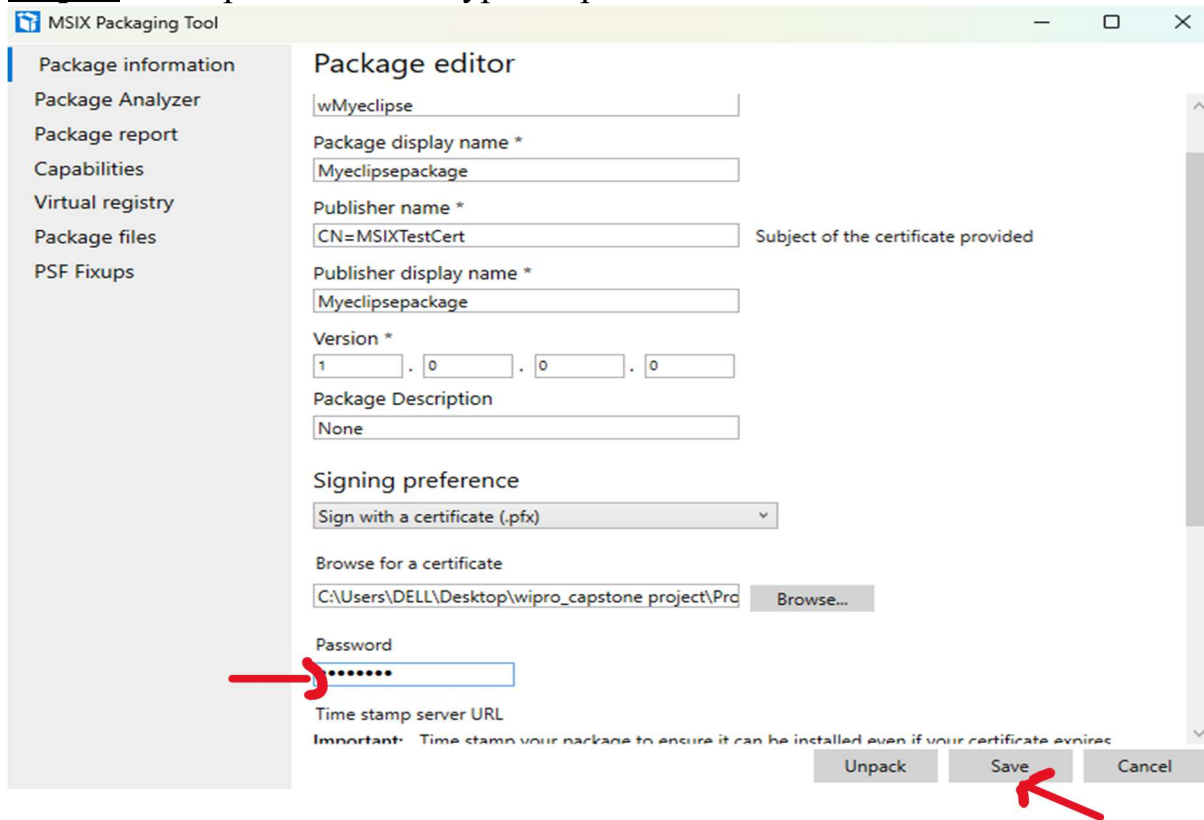
Step5: Here a Package editor window will get open click on Sign with a certificate a dropdown list will appear. In that select Sign with a certificate



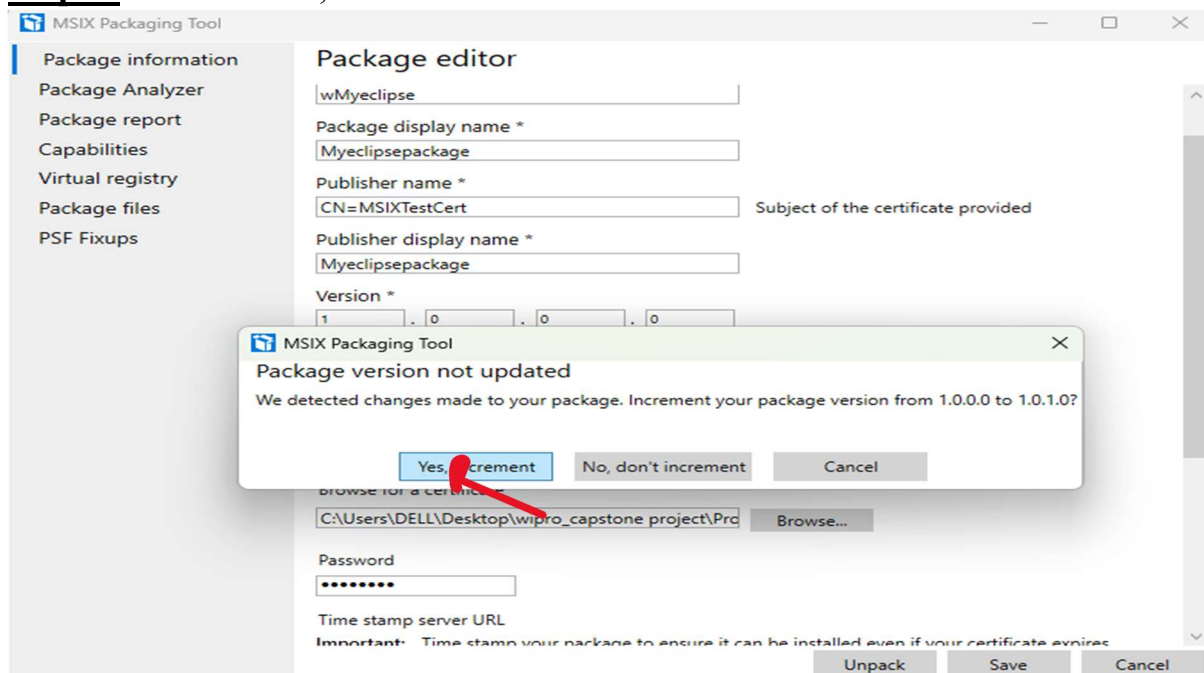
Step6: Click to browse a certificate. Browse the certificate that you have created using PowerShell command



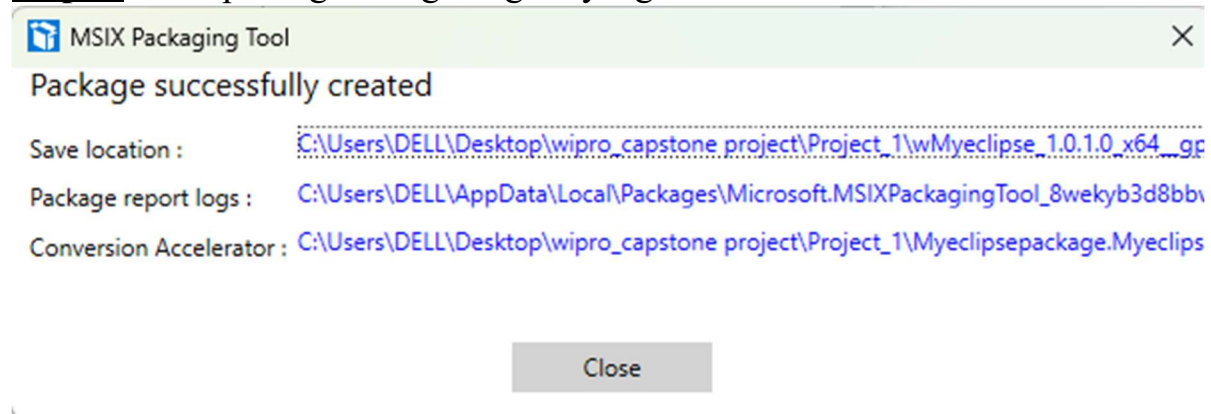
Step7: In the password field type the password and click on Save



Step8: Click on Yes, increment



Step9: Your package will get digitally signed



5. Analysis Output

I was able to successfully sign an MSIX package. Now I clearly understand how digital signing works in app packaging. I learned how to use both the MSIX Packaging Tool and PowerShell to apply a certificate and sign the package. This project gave me good practical experience with the signing process

A digitally signed MSIX file ready to be installed or deployed. we can verify it by visiting the Digital signature tab. Right click on that file then go to properties. Here you will find the Digital Signature Tab with the name of Signer

