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# APP ATTACH EXTENSION USER GUIDE

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## Introduction

This document is the wiki document for the use and functionality of App Attach Extension designed and developed by Microsoft.

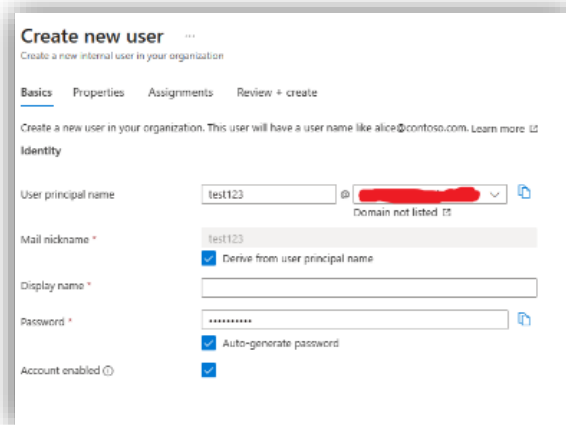
## About

The App Attach extension is a visual studio IDE extension which enables users to generate/Publish App Attach ready packages from Windows Desktop Applications.

## Key Considerations

1. This extension will work on Visual Studio 2022 – All Editions (Community, Professional, Enterprise).
2. This extension is compatible with WinUI 3 C# Single Packaging projects.
3. If the user is not logged in to Azure, the extension will create the VHDx.
4. Logged-in users into Visual Studio should have a valid role and RBAC should be enabled, if the account does not have RBAC enabled user, user can be created by following steps.

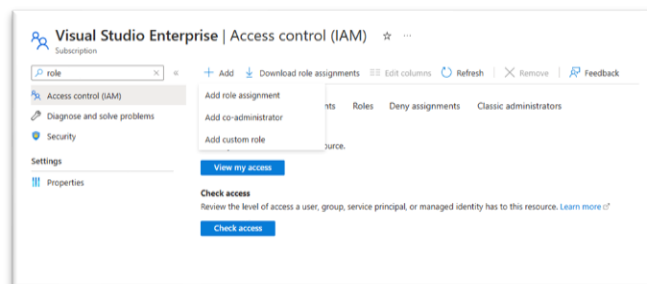
- a. Create a user in the subscription:



The screenshot shows the 'Create new user' form in the Azure portal. The form is titled 'Create new user' and has a subtitle 'Create a new internal user in your organization'. It has four tabs: 'Basics', 'Properties', 'Assignments', and 'Review + create'. The 'Basics' tab is selected. The form contains the following fields and options:

- User principal name:** A text box containing 'test123' and a dropdown menu showing a redacted email address. Below the dropdown is the text 'Domain not listed (t)'. There is a copy icon to the right.
- Mail nickname:** A text box containing 'test123'.
- Derive from user principal name:** A checkbox that is checked.
- Display name:** A text box.
- Password:** A text box with masked characters (dots). There is a copy icon to the right.
- Auto-generate password:** A checkbox that is checked.
- Account enabled:** A checkbox that is checked.

- b. Assigning the user role:



The screenshot shows the 'Visual Studio Enterprise | Access control (IAM)' page in the Azure portal. The page has a sidebar with the following links: 'role', 'Access control (IAM)', 'Diagnose and solve problems', 'Security', 'Settings', and 'Properties'. The 'Access control (IAM)' link is selected. The main content area has a header with 'Visual Studio Enterprise | Access control (IAM)' and a star icon. Below the header is a table with the following columns: 'Add role assignment', 'Roles', 'Deny assignments', and 'Classic administrators'. The 'Add role assignment' column has three rows: 'Add role assignment', 'Add co-administrator', and 'Add custom role'. The 'Roles' column has a search box. The 'Deny assignments' column has a search box. The 'Classic administrators' column has a search box. Below the table is a 'View my access' button. Below the button is a 'Check access' section with the text 'Review the level of access a user, group, service principal, or managed identity has to this resource. Learn more (f)' and a 'Check access' button.

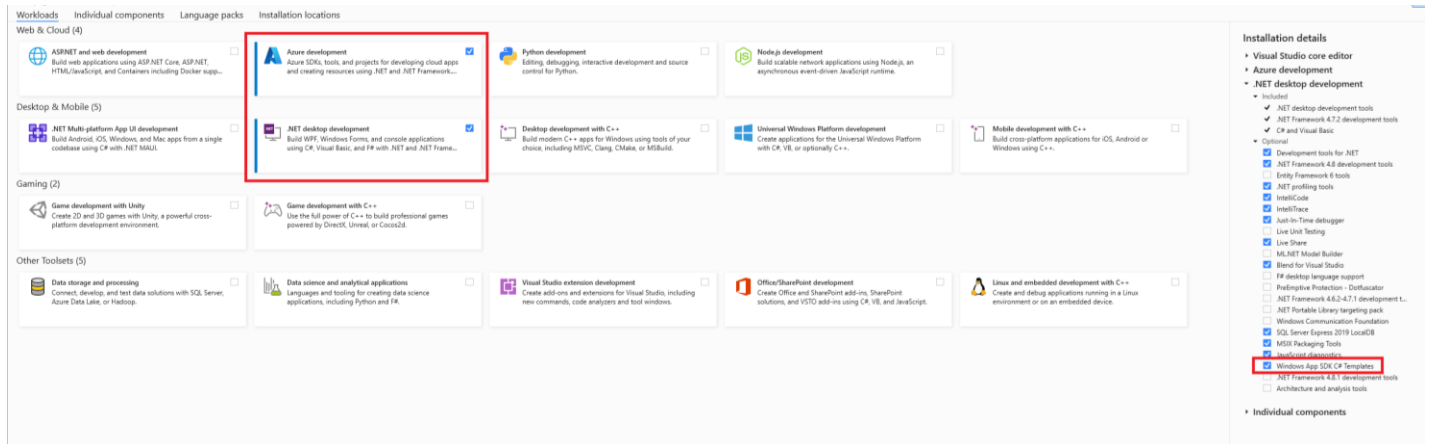
Role Members <u>Review + assign</u>			
Role	Virtual Machine Administrator Login		
Scope	/subscriptions/f05e8a31-a234-40d0-80ff-a7a89f33a10		
Members	Name	Object ID	Type
	Test	e72c6ae0-bfb4-4c16-a202-e5dd8bee5ea29	User
Description	No description		

5. Only one account should be logged into Visual studio.
6. AVD (Azure Virtual Desktop) should be setup, for more information follow this [Tutorial for Azure Virtual Desktop](#)
7. If the user does not have the infra to publish the application, “Create App Attach Packages...” flow will stop at VHDx creation.

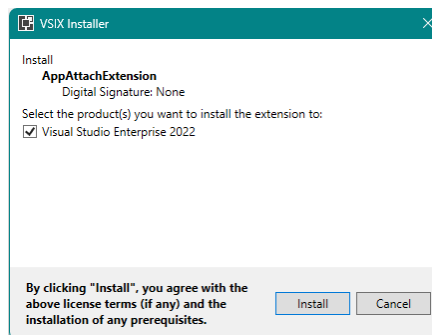
# Procedural Walkthrough

Below are the prerequisites and conditions necessary for the extension to work.

1. The visual studio should have Azure workload installed in addition to workloads required for App development.



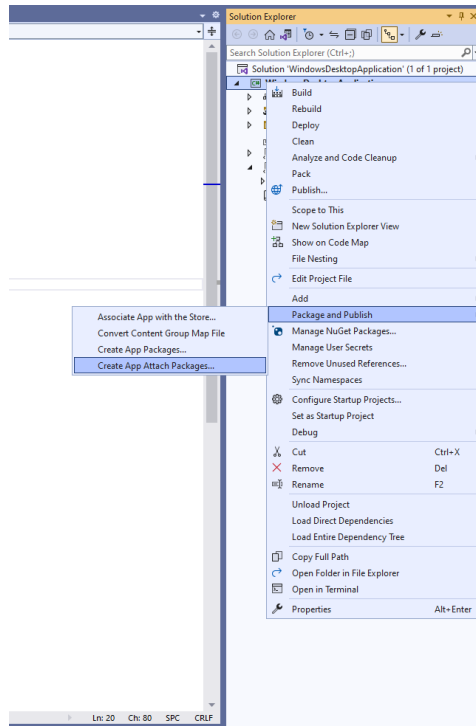
2. Install the App Attach Extension.



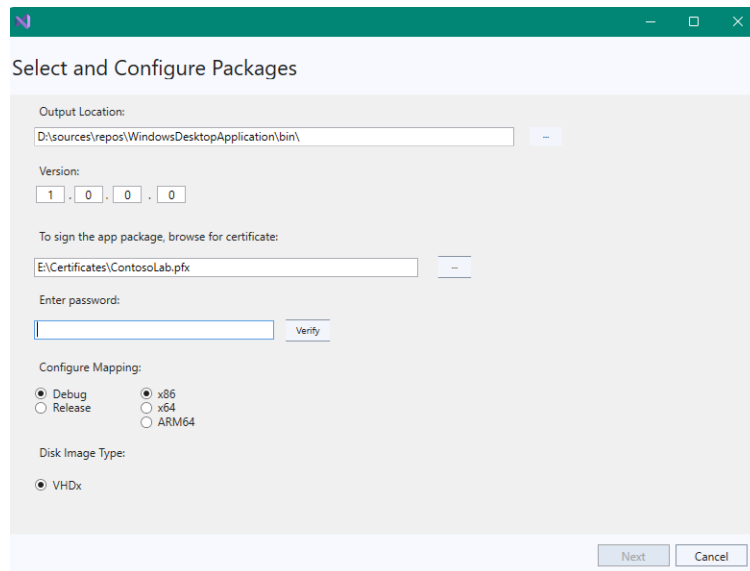
3. The user should be using Visual studio in admin mode.



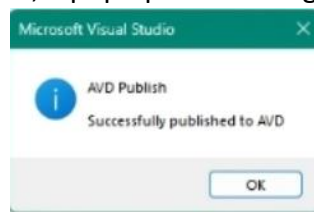
4. Right click on your WinUI 3 C# project and click on "Package and publish" >> "Create App Attach Packages".



5. Populate the fields on the on-screen wizard and follow on.



6. Post successful publishing the artifact, a pop up mentioning the same will be shown.

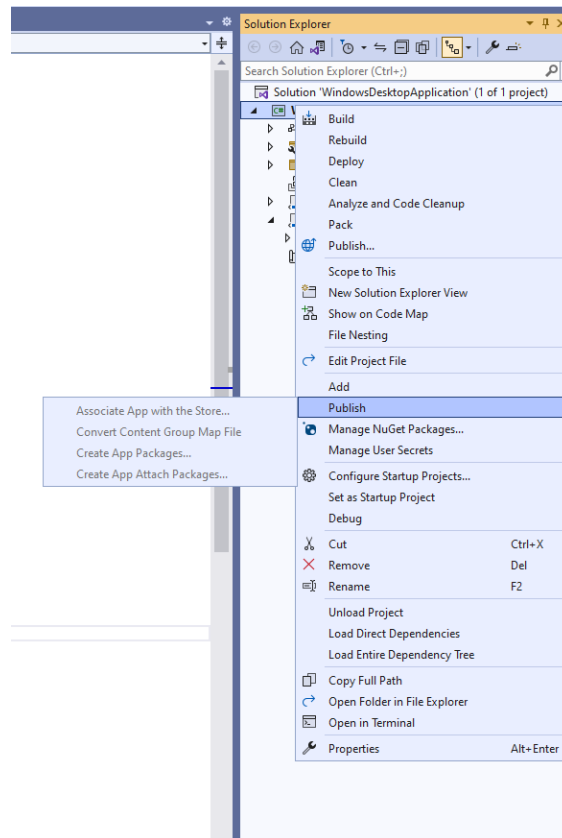


## FAQs.

1. I cannot see the “Package and publish” >> “Create App Attach Packages” option.

>> Ensure that you are working with Win UI 3 C# Single packaging project, as the option will only be visible if the project is compatible.

>> Ensure your solution is ready to build before you initiate the Extension; else you might see something like this:



2. I am getting AVD related errors while publishing my application.

>> Any errors pertaining to AVD please ensure that the Network drive is properly attached inside your VM and that the signing certificate is installed/trusted inside your VMs.