



WELCOME TO

**AVD**   
**DISCUSSION**  
**SERIES**

SESSION 5 - APPATTACH & MSIX

# TODAY'S DISCUSSION FORMAT



The discussion is being recorded.



Please use the chat window to ask your questions.



We have our experts on hand to answer your questions.



The video and content will be sent via email post event.





## AGENDA

1. Introduction / cubesys
2. What is MSIX?
3. What is AppAttach?
4. Demo
5. Questions

# TODAY'S PRESENTERS




**Paul Heaton**  
CEO & Co-founder  
cubesys

 paulmichaelheaton



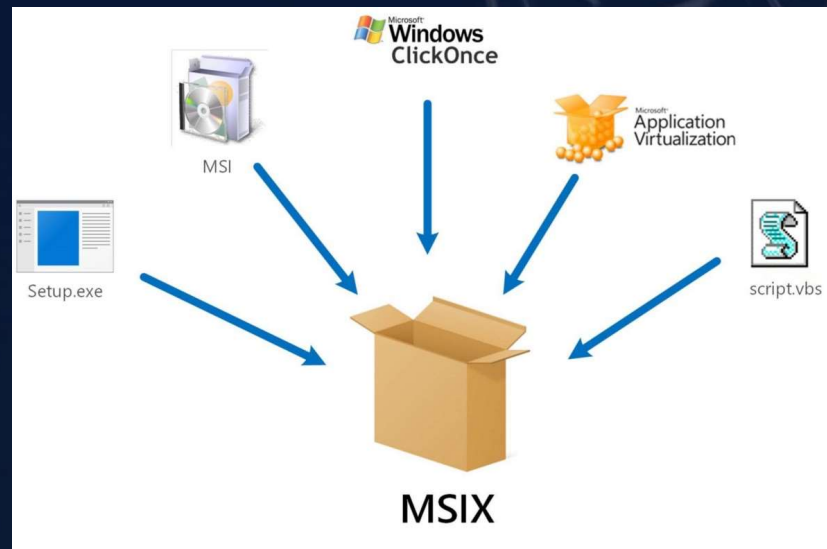
**George Zajakovski**  
Senior Cloud Consultant  
cubesys

 gzajakovski





# What is MSIX?



MSIX is supported on:

- Windows 10 1709 and later
- Windows Server 2019 LTSC and later
- Windows Enterprise 2019 LTSC and later

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Microsoft Store Search apps, games, movies and more

## MSIX Packaging Tool

Microsoft Corporation

Open

5.0 ★ Average | 1 Ratings

Utilities & tools

Library 3+ Age Rating: IARC: 3+

### Screenshots

MSIX Packaging Tool

Select task

- Application package: Create your app package
- Modification package: Create a package that modifies an existing app
- Package editor: Edit an existing package

MSIX Packaging Tool

Select installer

- Select environment
- Package information
- Package computer installation
- Test launch tasks
- Create package

MSIX Packaging Tool

Create new package

Choose the package information if you don't have your app, and then specify your package information.

Warning: A test package is not intended for production use.

Additional options

- Sign package for production
- Use installer any time
- Enter installer any time

### Ratings and reviews

5.0

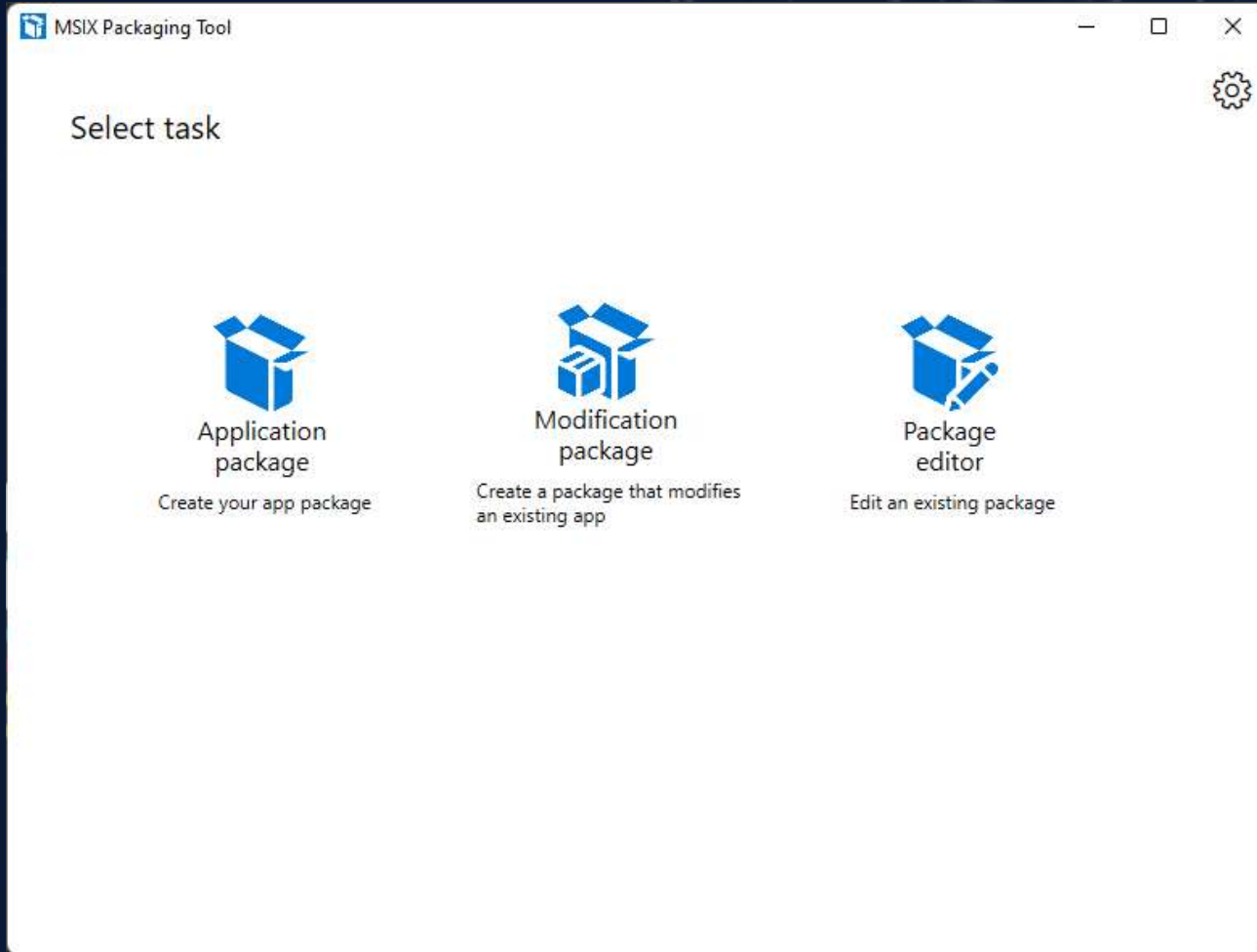
1 RATING

How would you rate MSIX Packaging Tool?

Why don't devs review this app?

[MOST HELPFUL FAVOURABLE REVIEW](#)

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# SESSION 5 - APPATTACH & MSIX



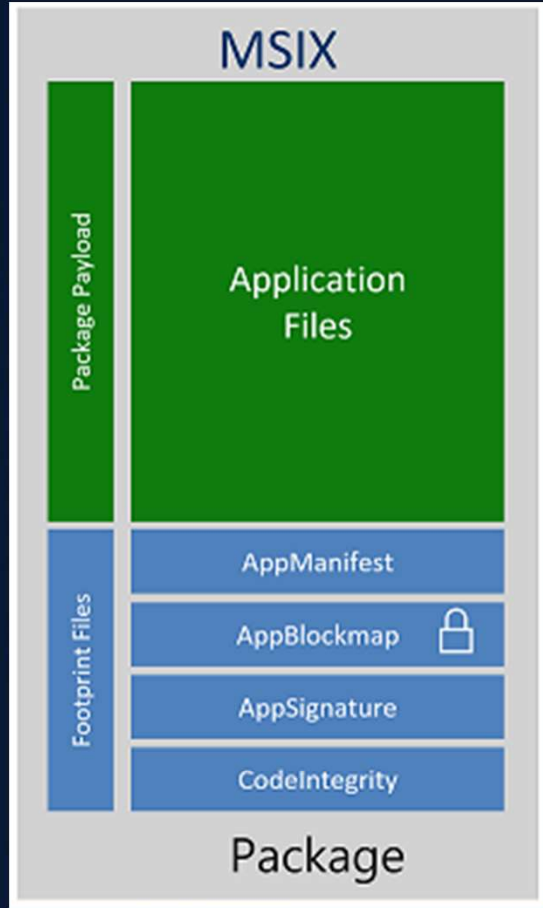
The screenshot shows a Windows File Explorer window with the following details:

- Address Bar:** This PC > Local Disk (E:) > NotepadPlusPlus > NotepadPlusPlus\_1.1.1.0\_x64\_7ea97fce9xmy0
- Search Bar:** Search NotepadPlusPlus\_1.1.1...
- Left Navigation Pane:** Desktop, Downloads, Documents, Pictures, MSIX, Music, output, Videos, OneDrive, This PC, 3D Objects, Desktop, Documents, Downloads, Music, Pictures, Videos, Windows (C:), Temporary Stora, Local Disk (E:)
- Main Content Area:** A table listing files and folders.

Name	Date modified	Type	Size
AppxMetadata	5/31/2022 8:25 AM	File folder	
Assets	5/31/2022 8:25 AM	File folder	
VFS	5/31/2022 8:25 AM	File folder	
AppxBlockMap	5/31/2022 8:25 AM	XML Document	45 KB
AppxManifest	5/31/2022 8:25 AM	XML Document	3 KB
AppxSignature.p7x	5/31/2022 8:25 AM	P7X File	2 KB
Registry.dat	5/31/2022 8:25 AM	DAT File	36 KB
Resources.pri	5/31/2022 8:25 AM	PRI File	6 KB
User.dat	5/31/2022 8:25 AM	DAT File	16 KB
UserClasses.dat	5/31/2022 8:25 AM	DAT File	8 KB



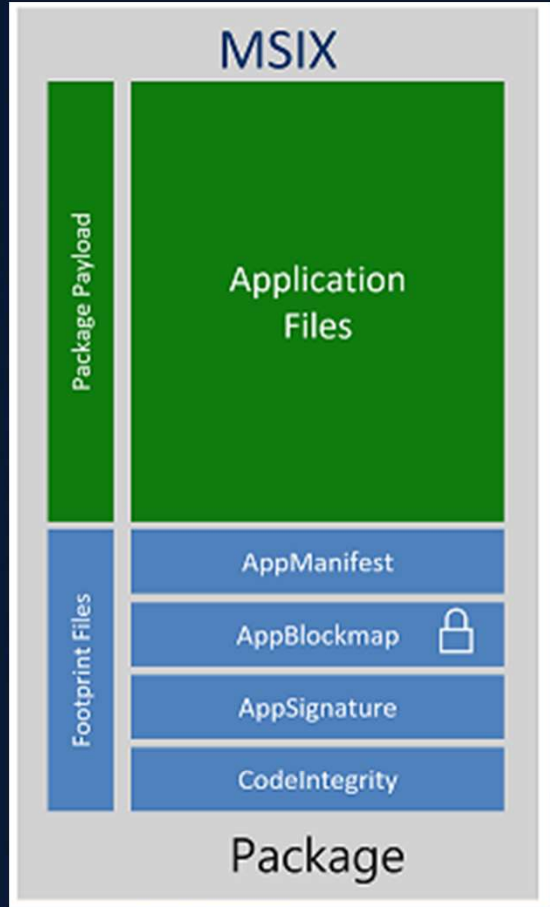
## SESSION 5 - APPATTACH & MSIX



### App payload

The payload files are the app code files and assets that are created when building the app.

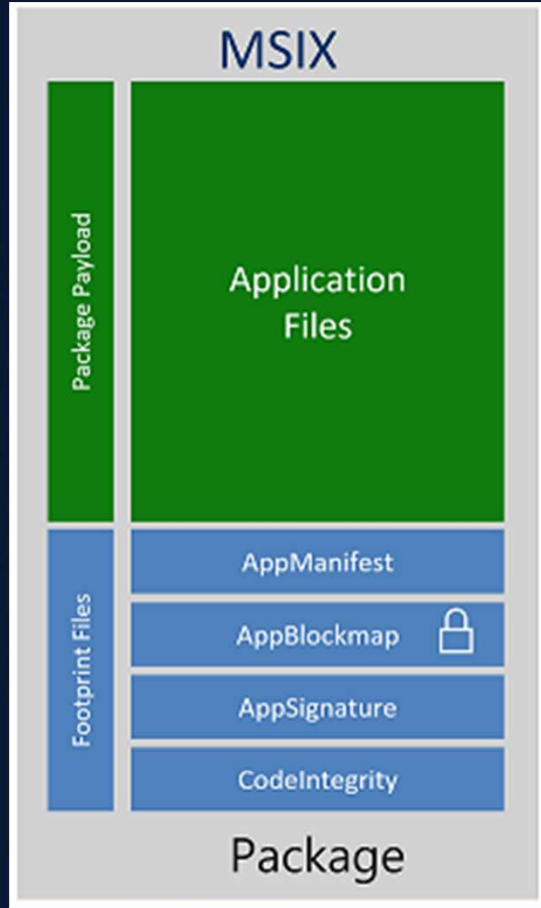
# SESSION 5 - APPATTACH & MSIX



## AppxManifest.xml

The package manifest is an XML document that contains the info the system needs to deploy, display, and update an MSIX app. This includes package identity, package dependencies, required capabilities, visual elements, and extensibility points.

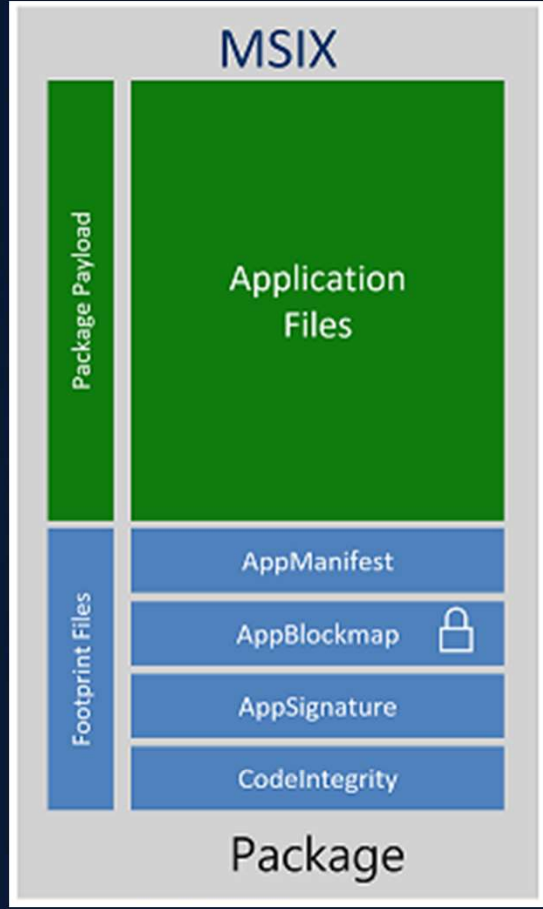
## SESSION 5 - APPATTACH & MSIX



### **AppxBlockMap.xml**

The package block map file is an XML document that contains a list of the app's files along with indexes and cryptographic hashes for each block of data that is stored in the package. The block map file itself is verified and secured with a digital signature when the package is signed. The block map file allows MSIX packages to be downloaded and validated incrementally, and also works to support differential updates to the app files after they're installed.

## SESSION 5 - APPATTACH & MSIX

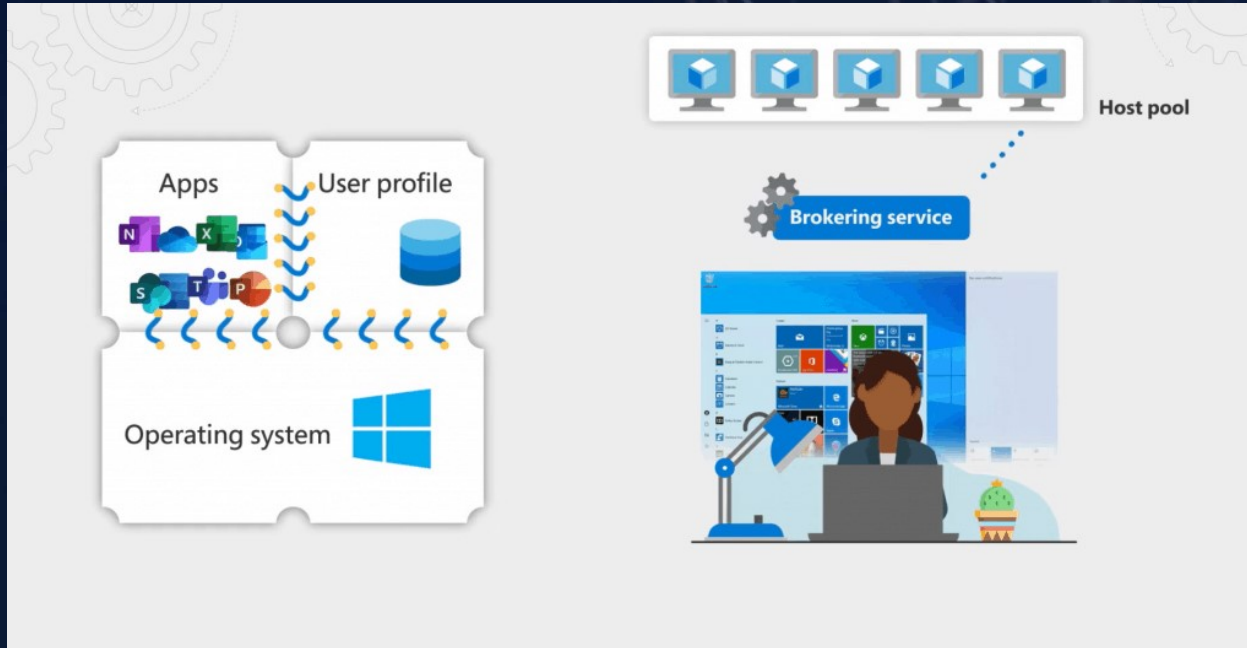


### **AppxSignature.p7x**

The AppxSignature.p7x is generated when the package is signed. All MSIX packages are required to be signed before install. With the AppxBlockmap.xml, the platform is able to install the package and be validated

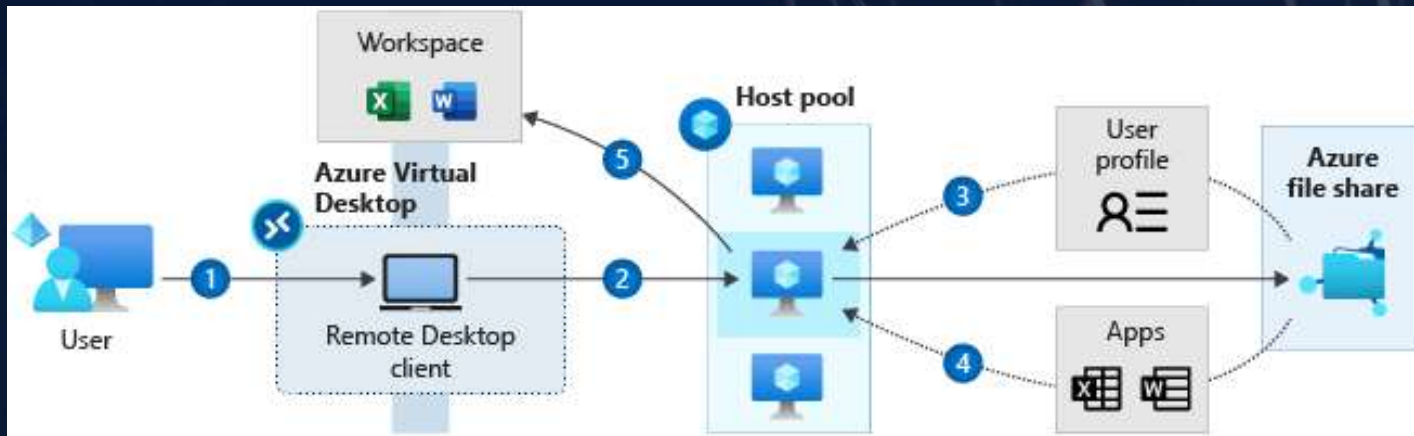


# What MSIX AppAttach?





# MSIX AppAttach





## Common Questions

### **Operating systems supported by MSIX app attach**

Windows 10 Enterprise

Windows 10 Enterprise Multi-session (version 2004 or later.)

### **Application auto-updates**

Best practice to disable application auto-updates when packaging.

### **How many users can use an MSIX image?**

MSIX app attach mounts MSIX images on a per-machine basis, not a per-user basis.

### **Can I use AppAttach outside of AVD?**

AppAttach technically yes but you need your own mount scripts, MSIX yes.



# Demo



# Questions?



# UPCOMING SESSIONS



- ✓ **Session 6:** Economic Assessment - building a business case | **TUESDAY 14 JUNE 2022**
- ✓ **Session 7:** AVD Cost Analysis & Charge backs | **TUESDAY 28 JUNE 2022**
- ✓ **Session 8:** Series Finale - AVD best Practices | **TUESDAY 12 JULY 2022**



# AVD DISCUSSION SERIES

SESSION 5 - APPATTACH & MSIX

*Thank you*