



## Windows Virtual Desktop is now generally available worldwide

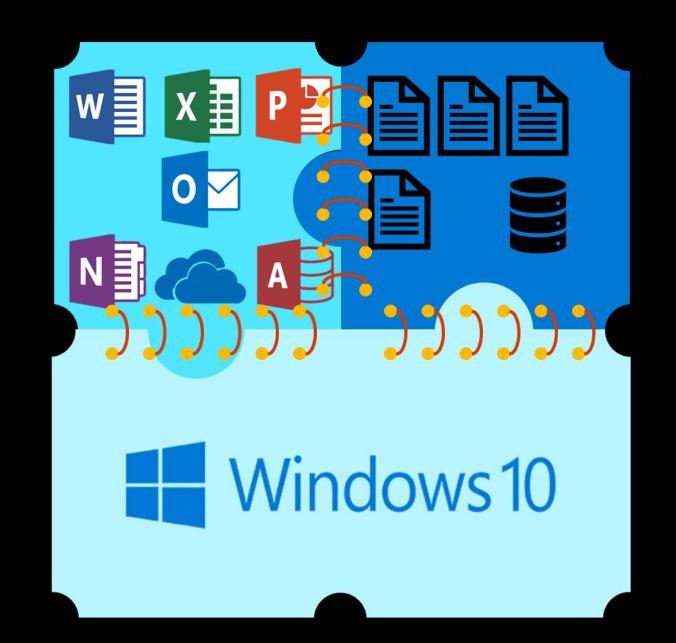
By Brad Anderson, Corporate Vice President for Microsoft 365, and Takeshi Numoto, Corporate Vice President for Microsoft Azure

Today, we're excited to announce that Windows Virtual Desktop is now generally available worldwide. Windows Virtual Desktop is the only service that delivers simplified management, a multi-session Windows 10 experience, optimizations for Office 365 ProPlus, and support for Windows Server Remote Desktop Services (RDS) desktops and apps. With Windows Virtual Desktop, you can deploy and scale your Windows desktops and apps on Azure in minutes.

### **End User Computing**

- 1. Applications
- 2. User Profile & data
- 3. Operating System

On a physical workstation all components closely coupled.



#### Windows Virtual Desktop

WVD routes users to a VM from a host pool with resources available to run the user's app or desktop workloads.



### **FSLogix Technology**



#### **Profile Container**

Replacement for roaming profiles and folder redirection. Dramatically speeds up logon and application launch times.

 Includes Office 365 Container, which roams Office cache data (Outlook OST, OneDrive cache, Skype for Business GAL, etc.) and Windows Search DB with user in virtual desktop environments.



#### App Masking

Minimize number of gold images by creating a single image with all applications. Excellent app compatibility with no packaging, sequencing, backend infrastructure, or virtualization.



#### Java Redirection

Helps protect the enterprise from vulnerabilities of multiple installed versions of Java by mapping specific versions to individual apps or websites.

## **FSLogix Profile Containers**

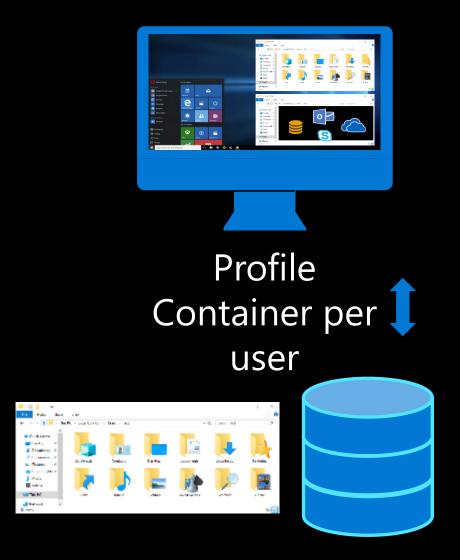


FSLogix Profile Containers



FSLogix separates the user profile layer from the virtual machine

To the user it feels like you're saving and accessing files from a local disk



This solves the 2<sup>nd</sup> piece of the puzzle, but what about the applications?

#### **Current options**

# OPTION 1 Multiple images by role

- Manage numerous VM pools customized for different users' roles
- These images would all need to be individually maintained and patched
- Possibly High overhead

**DEMO:** ARM Templates

# OPTION 2 Traditional Applayering

- Image can get bloated
- Additional policies
- App licensing could be challenging

DEMO: App Masking

## **App streaming**

- Requires apps to get cached into OS during user session
- Need to manage app streaming infra
- Possible need to repackage/ sequence the app

#### What if...

We could attach and detach applications from the OS like attaching and detaching profiles?



#### MSIX app attach

All benefits of MSIX (declarative install, simple deployment, per user, OS Managed)



Native format is MSIX (no re-packaging)

MSIX Apps can be stored off the windows disk

Remotely mount the apps to the VM on-demand

Apps groups are assigned to users, and available instantly

Looks and feels local to the user and to windows

#### Terminology

**Expanding MSIX** 

Taking an MSIX package (or output from conversion) and transforming it into an app attach package

Staging / Destaging

Making the app attach package available on the WVD Host

Registering / DeRegistering

Making the stages app attach package available for the user

Delayed registration

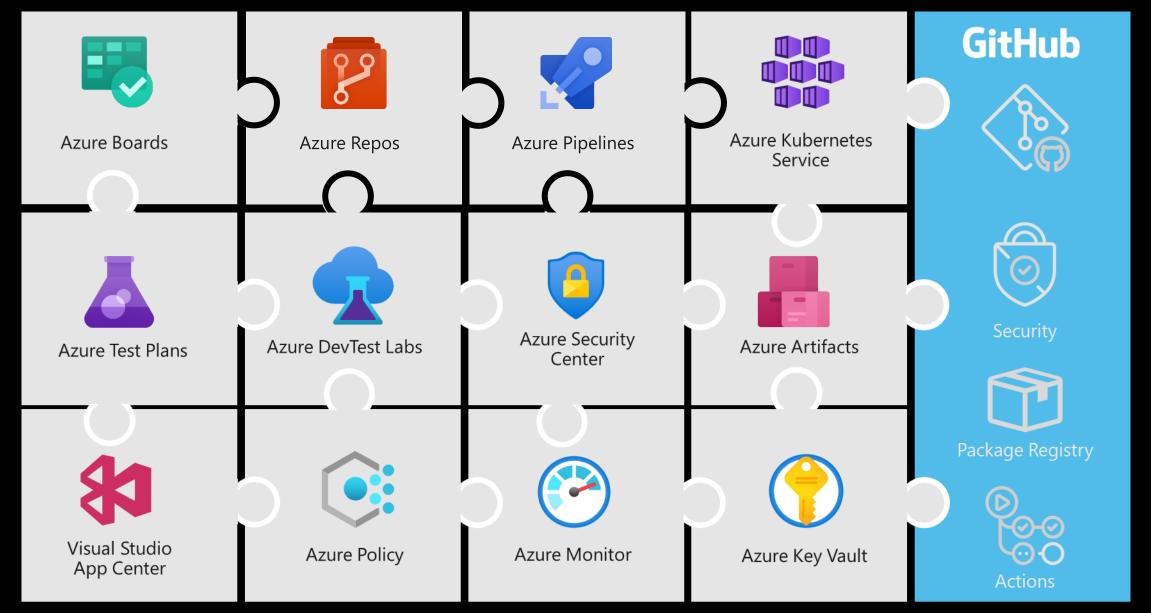
Delay the registering of the application until session is established

On Demand

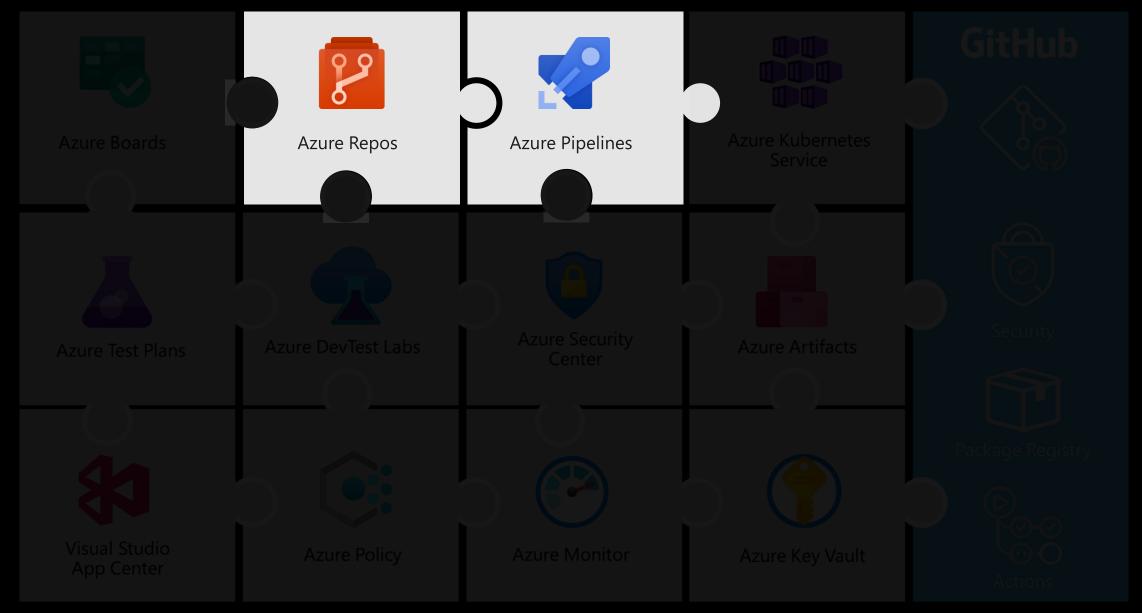
Allow users to load application on the fly as needed

## Demo

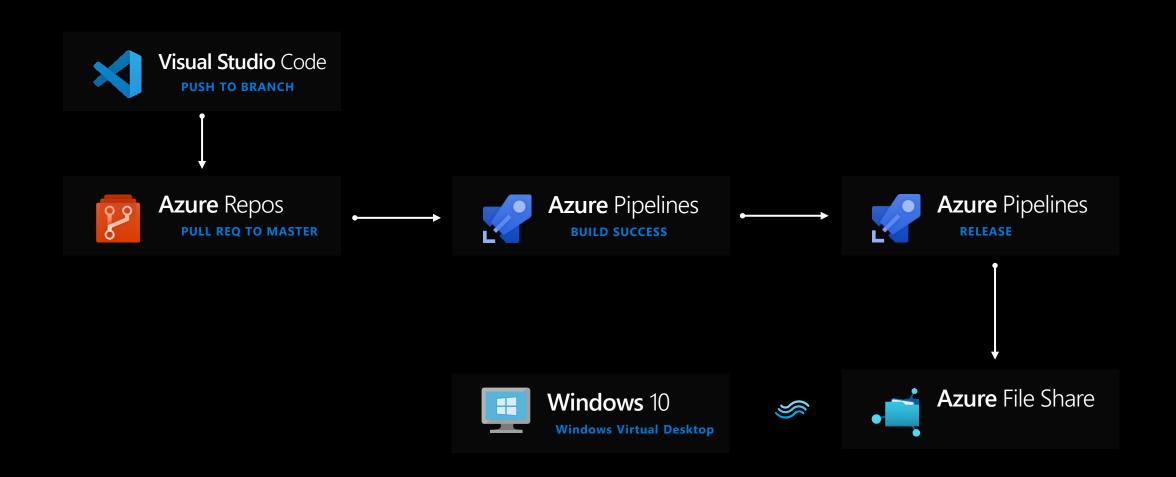
#### Microsoft's DevOps Tooling – enhanced by GitHub



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## Utilizing Azure DevOps CI/CD pipelines



#### Automatic MSIX App Attach script for WVD **Marcel Meurer**



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Automatic MSIX App Attach script for Windows Virtual Desktop

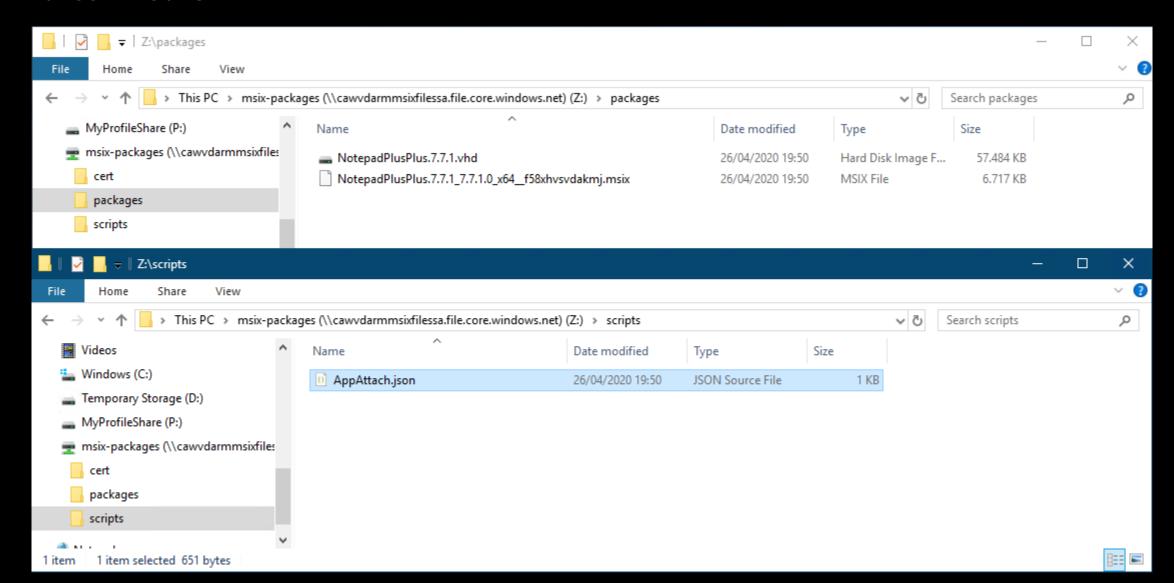
#### Automatic MSIX App Attach script for WVD

Microsoft provides a preview of MSIX app attach for Windows Virtual desktop. MSIX app attach gives you the possibility to only have a few amounts of images and connect your application to them - without installing. That sounds a little bit like App-V, and from a user perspective, this is slightly comparable:

You cannot see the application in the file system from outside the app. If you open the app and if you browse to the application folder, you can see this folder. The attaching and links in the start menu "feels" like the use of modern apps from the marketplace. And indeed: The application links in the start menu didn't refer to the exe-files in the program folder.

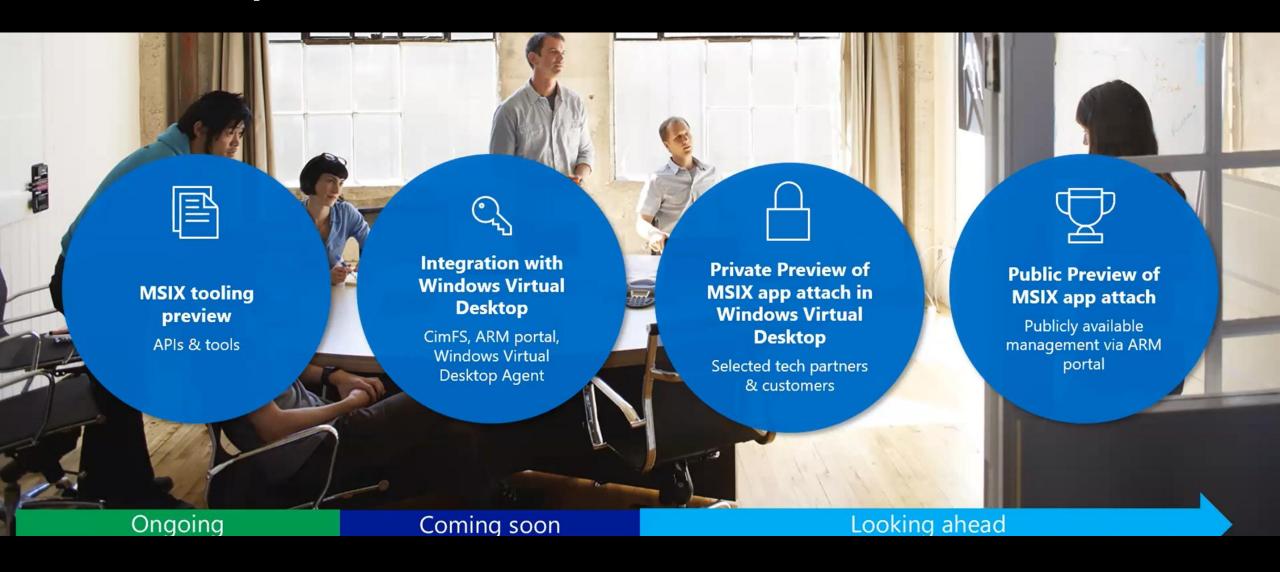
### Automatic MSIX App Attach script for WVD

#### **Marcel Meurer**



## Demo

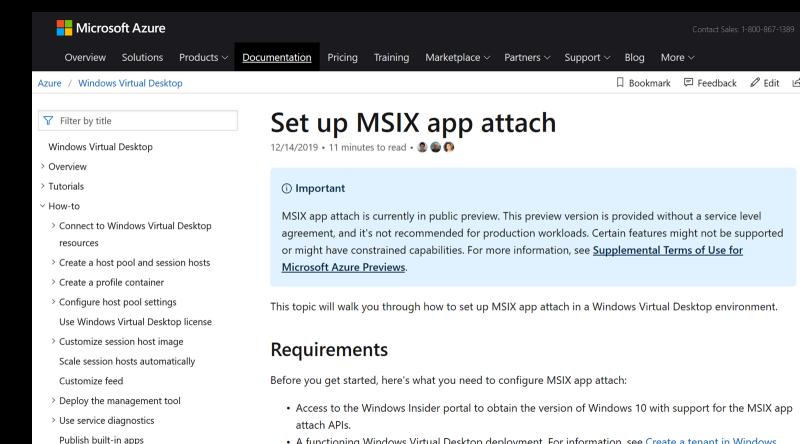
## **Road Map**



#### CALL TO ACTION: Public preview available

Overview:
MSIX ToolKit:
Tech Community:

aka.ms/msixandwvd aka.ms/msixtoolkit aka.ms/msixcommunity



#### Summary

Eventually, MSIX app attach fulfils the promise to have full isolation between the WVD Host and any application, user profile or user data!

