

Windows Virtual Desktop

WEWC1086 WVD Technical Deep Dive + Hands-on Workshop

Micha Wets - Microsoft MVP | Cloud.Architect | ASPEX | MC2MC | Technine

Bart Roels - Cloud Solution Architect | Microsoft

WEWC1086 WVD Technical Deep Dive + Hands-on Workshop



01/12/2020

WEWC1086 WVD Technical Deep Dive + Hands-on Workshop

Audience: Technical

Competency: Cloud Platform

Level: Advanced | Intermediate



Agenda:

- Presentation-Led (2h): Technical Deep Dive overview of Windows Virtual Desktop including the WVD, FSLogix, MSIX app attach, Azure DevOps, Azure Portal integration, Mobile & thin client support and much more.

- Break

- Proctor-Led Session:

Build your own WVD Lab environment using a step-by-step workshop and ask questions to the proctors.

During this proctor-led session you will get to build your own WVD Lab environment using a step-by-step workshop and ask questions to the proctors.

WEWC1086_1 WVD Technical Deep Dive

Tuesday, December 1, 2020 10:00 AM ~ 12:00 PM

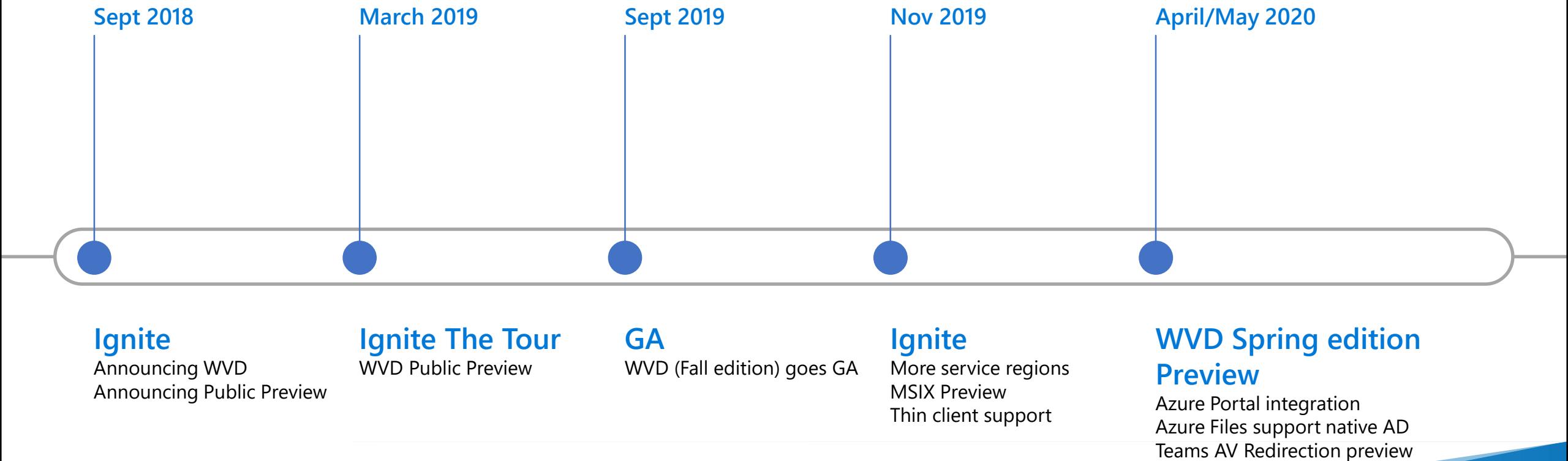
[Registration >](#)

WEWC1086_2 WVD Technical Deep Dive

Tuesday, December 1, 2020 1:00 PM ~ 5:00 PM

[Registration >](#)

How did we get here?



How did we get here?

April/May 2020

July 2020

Sept 2020

Nov 2020

**WVD Spring edition
Preview**

Azure Portal integration
Azure Files support native AD
Teams AV Redirection preview

**WVD Spring edition
GA**

Azure Portal integration
Teams AV Redirection GA

**Ignite 2020
announcements**

MSIX app attach portal integration
Start VM on Connect
Microsoft Endpoint Manager
HTML5 microphone redirection

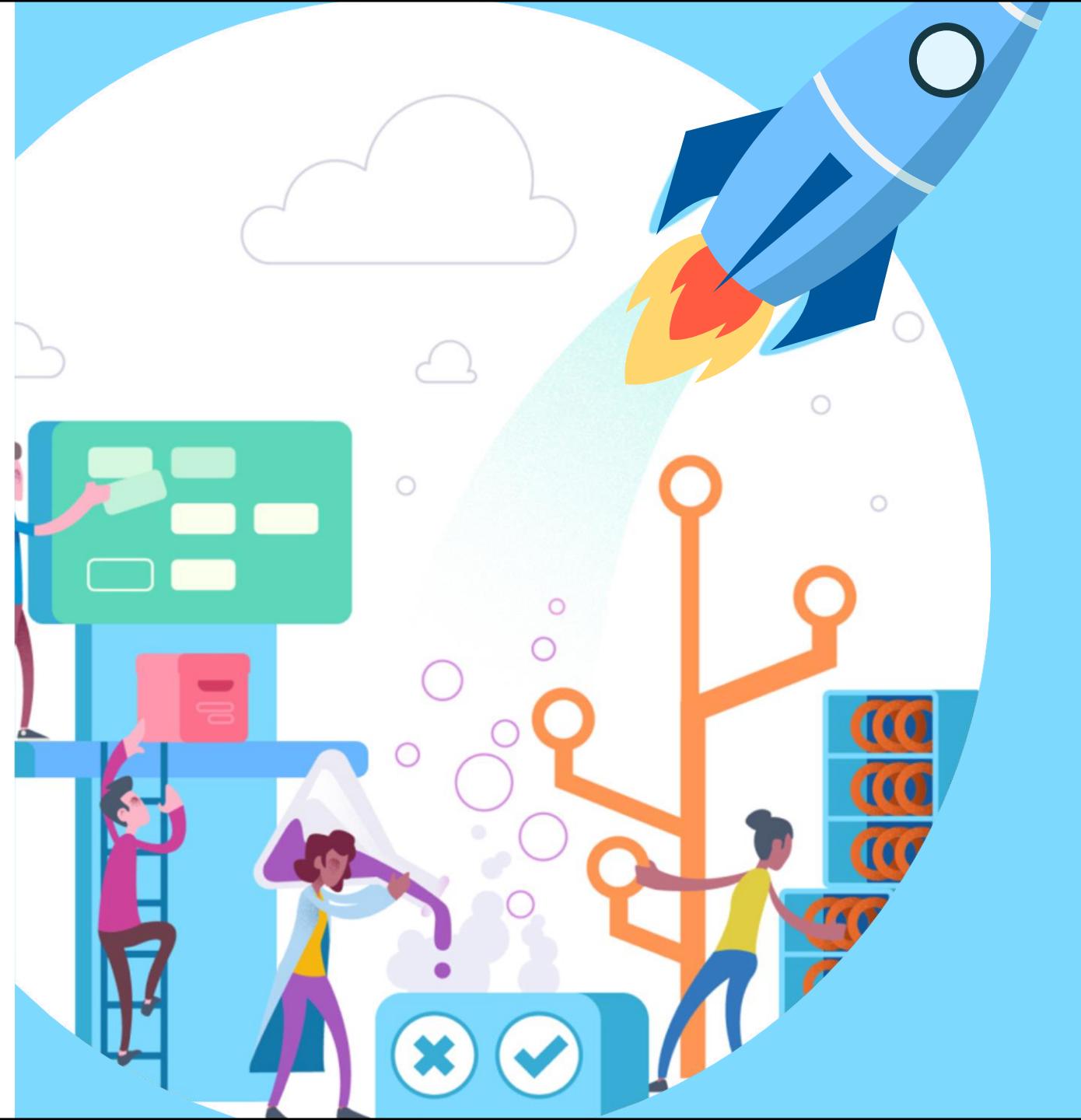
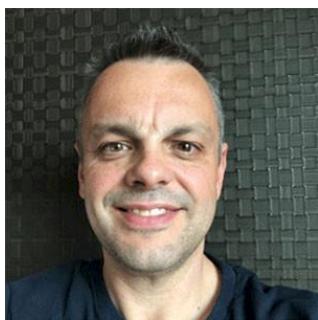
**WVD Shortpath
preview**

UDP support for ER/S2S/P2S

Bart Roels

Cloud Solution Architect
Microsoft

bart.roels@microsoft.com



Micha Wets

Cloud Solution Architect
Cloud.Architect
Technology Strategist
ASPEX



Windows Virtual Desktop
Remote Desktop Services

UserGroups:

MC2MC (MC2MC.be)

Technine (Technine.be)

michawets@cloud-architect.be



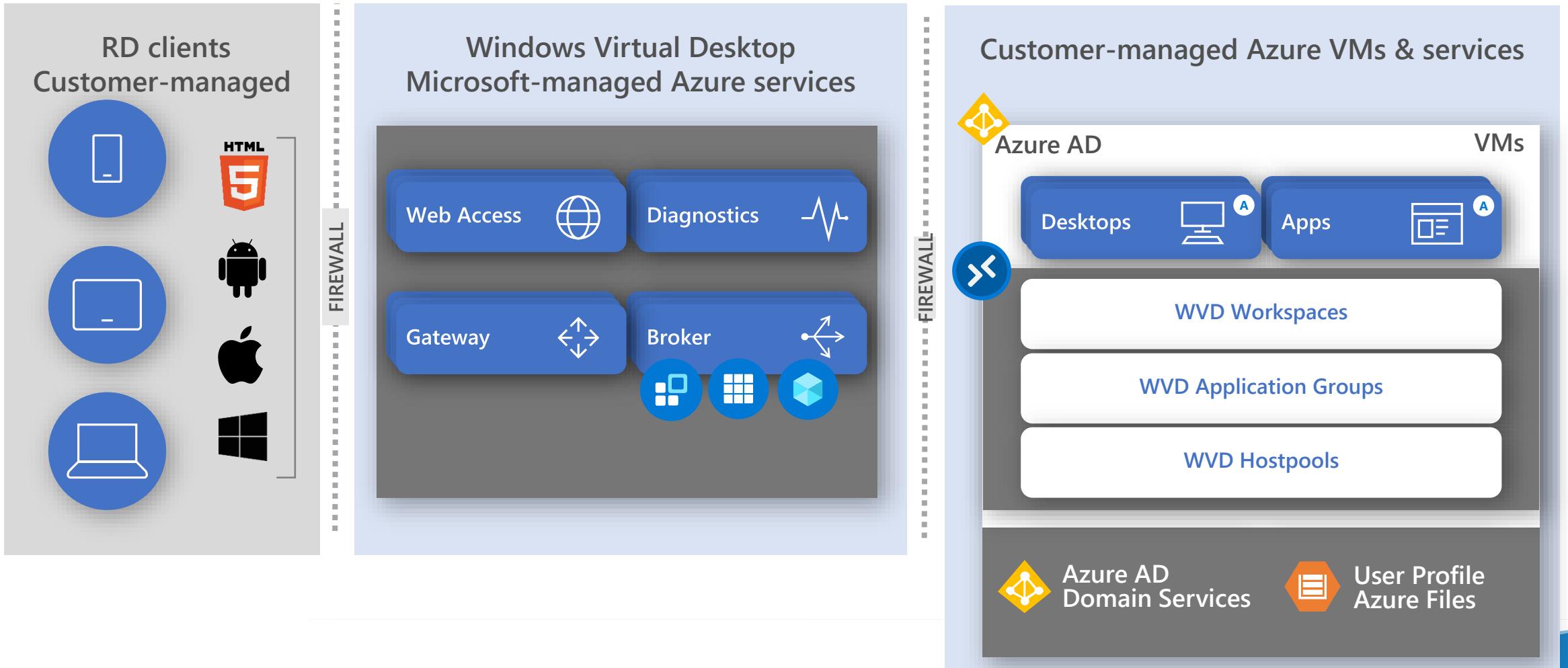
@MichaWets



www.cloud-architect.be

Azure Portal integration

Azure Portal integration

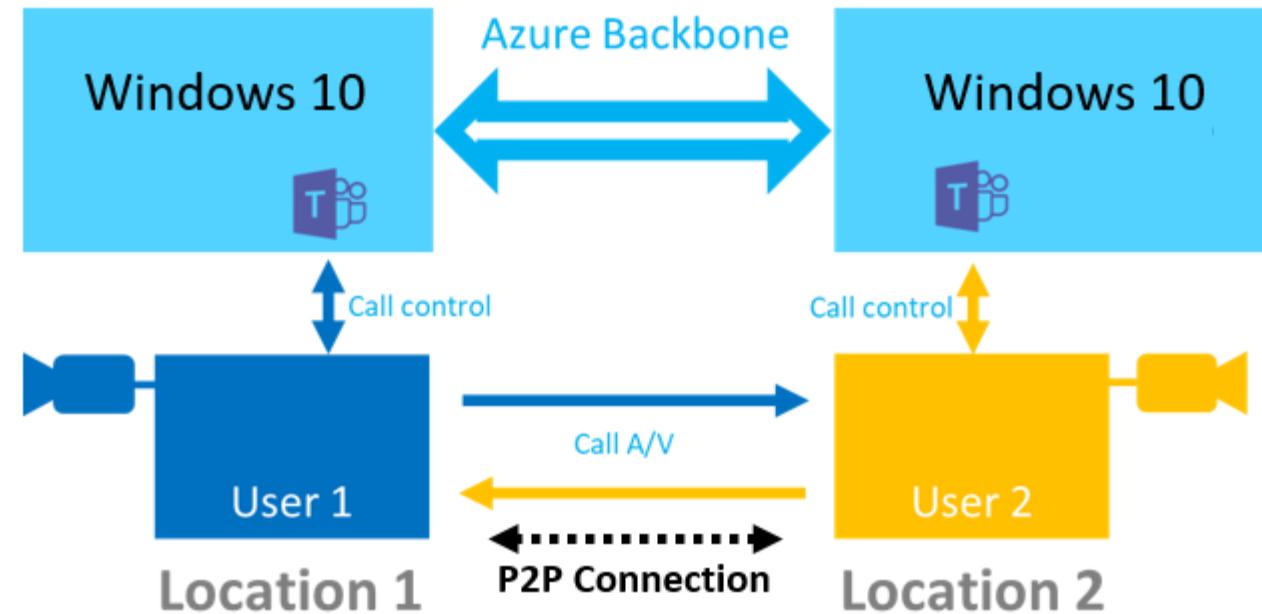


Teams with AV Redirection media optimizations

Teams with AV Redirection media optimizations

- ✖ High-performance peer-to-peer streaming facilitated by WebRTC
- ✖ Devices will be redirected as same hardware device – better hardware redirection support
- ✖ On Win10 clients, all the benefits of the modern media stack including HW video decoding
- ✖ Support for Win10 single and multi-session with Windows Virtual Desktop.

WebRTC Enabled: Peer-to-peer Teams on WVD



MSIX app attach portal integration

Applications in WVD

Applications in WVD

Option 1: Custom images

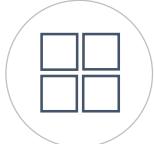
Deploying WVD



In the Portal

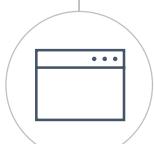
Clicking around in the portal, creating WVD Workspace, Hostpool & App Groups

- Just before creating, you can export the ARM template & parameters



ARM Templates

Deploy WVD using ARM Templates in the portal or through Powershell



Azure DevOps

Deploy WVD using ARM Templates in Azure DevOps in a CI/CD Pipeline

Deploying WVD

Sources

Azure Marketplace



Custom Images



In the Portal

Clicking around in the portal, creating WVD Workspace, Hostpool & App Groups

- Just before creating, you can export the ARM template & parameters



ARM Templates

Deploy WVD using ARM Templates in the portal or through Powershell



Azure DevOps

Deploy WVD using ARM Templates in Azure DevOps in a CI/CD Pipeline

Custom image - advantages

- ✖ Performance
- ✖ Compliance

How?

- ✖ From onPrem
- ✖ Manually through the portal

Image from onPrem

Microsoft Docs Documentation Learn Q&A Code Samples

Search Sign in

Azure Product documentation Architecture Learn Azure Develop Resources

Portal Free Account

Azure / Windows Virtual Desktop

Filter by title

Windows Virtual Desktop Spring 2020 Release

> Overview

> Tutorials

✓ How-to

- > Connect to Windows Virtual Desktop resources
- Set up the PowerShell module
- > Create a host pool and session hosts
- > Create a profile container
- > Configure host pool settings
- Use Windows Virtual Desktop license
- ✓ Customize session host image
- Set up a master VHD image
- Install Office on a master VHD image

Download PDF

Prepare and customize a master VHD image

10/14/2019 • 6 minutes to read • 13 contributors

This article tells you how to prepare a master virtual hard disk (VHD) image for upload to Azure, including how to create virtual machines (VMs) and install software on them. These instructions are for a Windows Virtual Desktop-specific configuration that can be used with your organization's existing processes.

Create a VM

Windows 10 Enterprise multi-session is available in the Azure Image Gallery. There are two options for customizing this image.

The first option is to provision a virtual machine (VM) in Azure by following the instructions in [Create a VM from a managed image](#), and then skip ahead to [Software preparation and installation](#).

The second option is to create the image locally by downloading the image, provisioning a Hyper-V VM, and customizing it to suit your needs, which we cover in the following section.

Local image creation

Once you've downloaded the image to a local location, open **Hyper-V Manager** to create a VM

Is this page helpful?

Yes No

In this article

Create a VM

Software preparation and installation

Prepare the image for upload to Azure

Upload master image to a storage account in Azure

Next steps

Image in Azure: Create VM, customize, sysprep and capture

Microsoft Azure Search resources, services, and docs (G+) X ? michawets@cloud-archi... CLOUD.ARCHITECT BV

Home > New > Marketplace >

Microsoft Windows 10

Microsoft

 Microsoft Windows 10 Save for later

Select a plan Windows 10 Pro, Version 2004 Create Start with a pre-set configuration

Filter

Windows 10 Enterprise N, Version 20H2
Windows 10 Enterprise N 2019 LTSC
Windows 10 Enterprise N 2016 LTSB
Windows 10 Enterprise multi-session, Version 2004
Windows 10 Enterprise multi-session, Version 1909
Windows 10 Enterprise multi-session, Version 1903
Windows 10 Enterprise multi-session, Version 1809
Windows 10 Enterprise multi-session, Version 20H2
Windows 10 Enterprise 2019 LTSC

Overview Plans Usage In

This software is provided by Microsoft. By clicking "Create", I acknowledge that I or the organization I represent will be subject to that agreement.

Learn more

What's new for Business in the Windows 10 Enterprise edition
What's new for IT pros in the Windows 10 Enterprise edition

Media

Windows 10 Enterprise multi-session, Version 20H2 + Microsoft 365 Apps

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Home > New > Marketplace >

Windows 10 multi-session + Microsoft 365 Apps

Microsoft

 Microsoft Windows 10 multi-session + Microsoft 365 Apps Save for later

Select a plan Windows 10 Enterprise multi-session,... Create Start with a pre-set configuration

Filter

Windows 10 Enterprise multi-session, Version 2004 + Microsoft 365 Apps
Windows 10 Enterprise multi-session, Version 1909 + Microsoft 365 Apps
Windows 10 Enterprise multi-session, Version 1903 + Microsoft 365 Apps
Windows 10 Enterprise multi-session, Version 1809 + Microsoft 365 Apps
Windows 10 Enterprise multi-session, Version 20H2 + Microsoft 365 Apps

Overview Plans Usage In

This software is provided by Microsoft. By clicking "Create", I acknowledge that I or the organization I represent will be subject to that agreement.

Media

Windows 10 Enterprise multi-session, Version 20H2 + Microsoft 365 Apps

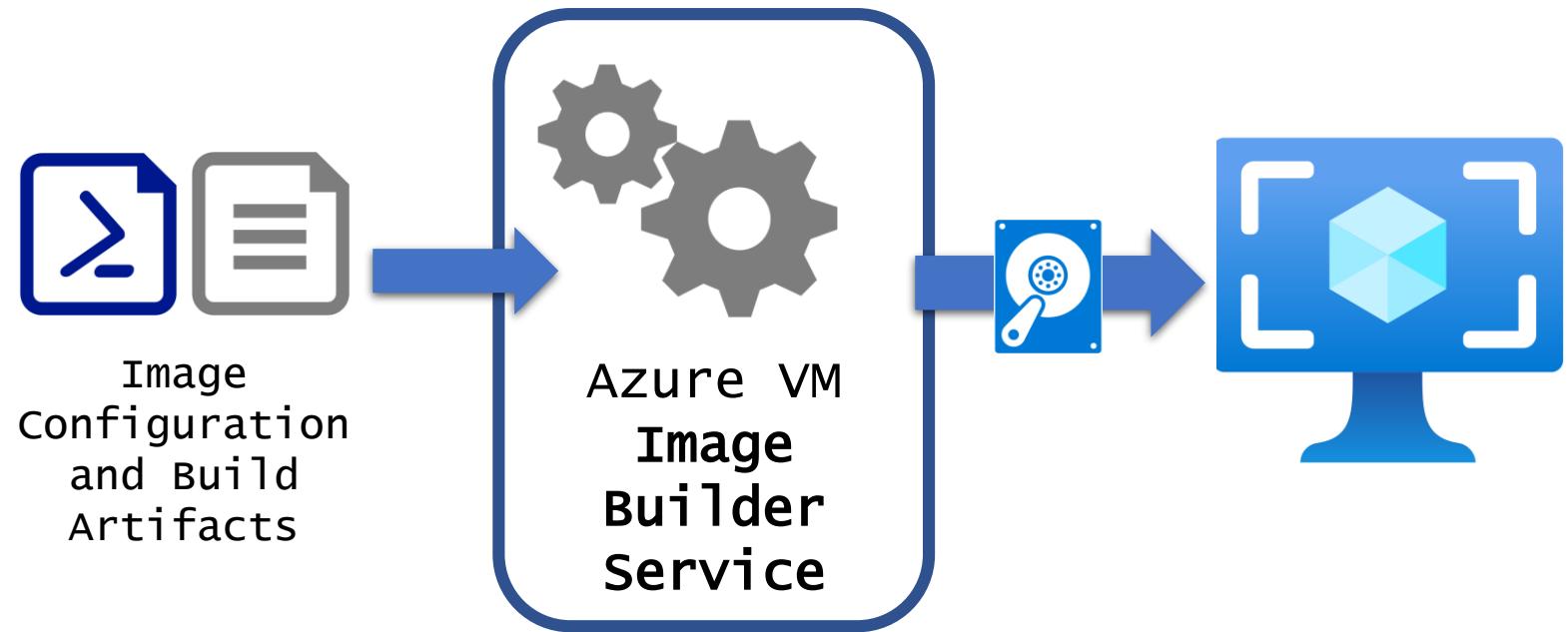
Microsoft @MichaWets

Azure Image Builder (AIB)

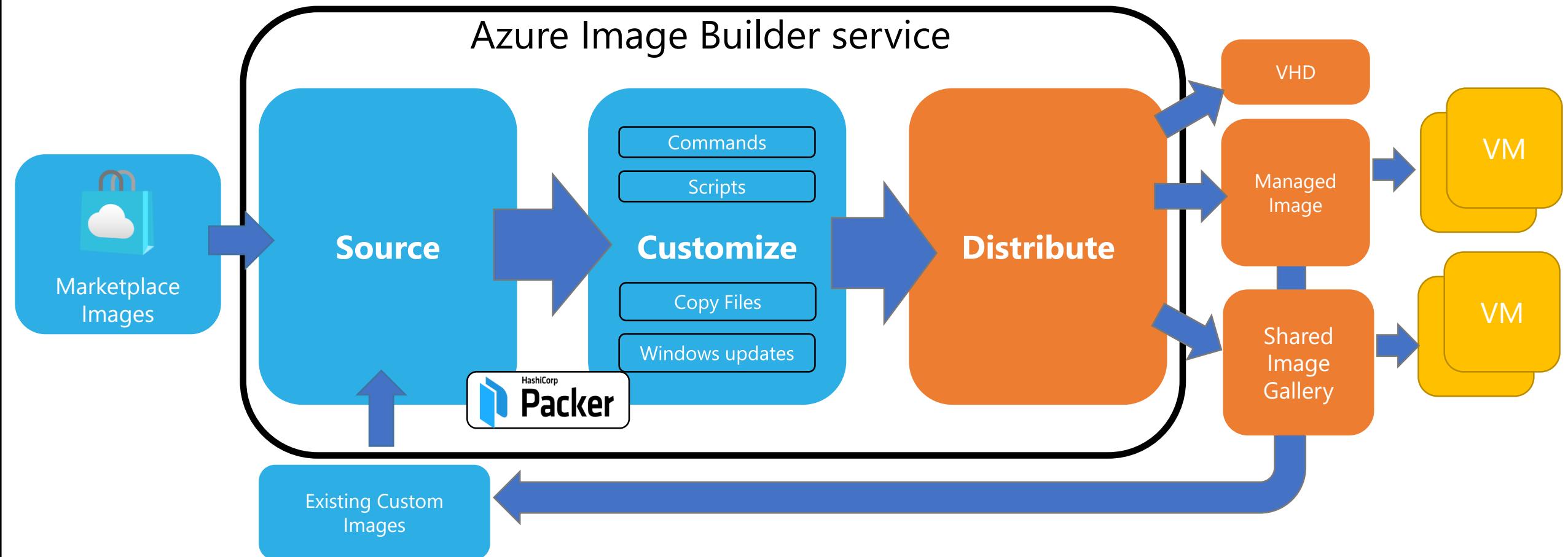
- ✖ Automatic Image creation system
- ✖ Customize your image
- ✖ Multiple distribution options

Azure Image Builder (AIB)

- ✖ Unification
- ✖ Simplification
- ✖ Compliance
- ✖ Management
- ✖ Upgrade



Azure Image Builder flow



Custom image - issues

- ✖ You need to keep the images up to date
 - ✖ Windows & AntiVirus updates
 - ✖ Custom software updates
- ✖ Redeploy Sessionhosts if the image changes
- ✖ All installed applications are visible for all users

Applications in WVD

Option 2: Custom images + App masking

FSLogix Technologies: Application Masking

Container

App Masking

Java Redirection



FSLogix Technologies: Application Masking

Application Management without sequencing, snapshotting, packaging, or virtualization.



All apps installed in base image.

- Excellent app compatibility
- Only apps a user is entitled to are revealed.
- App entitlements can be changed in real time.

Massively reduce the number of gold images that must be maintained



Demo

Applications in WVD
App Masking

Custom image + App Masking - issues

- ✖ You need to keep the images up to date
- ✖ Redeploy Sessionhosts if the image changes
- ✖ ~~All installed applications are visible for all users~~

- ✖ Additional actions to set FSLogix rules
- ✖ Application licensing could be challenging

Applications in WVD

Option 3: MSIX app attach

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

MSIX app attach – 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

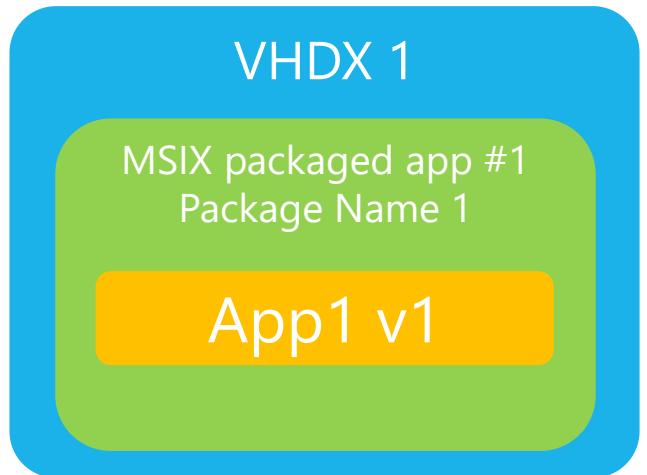
On Demand

Allow users to load application on the fly as needed

MSIX app attach - advantages

- ✖ Using the MSIX standard → easy convert to MSIX app attach
- ✖ Build into Windows, using direct Windows APIs
- ✖ No additional agent/server/service required
- ✖ Use of CimFS (.CIM) instead of VHD(X) (\geq Windows 10 2004)
 - ✖ Less CPU
 - ✖ Less Memory
 - ✖ Always ReadOnly

MSIX app attach – Terminology



MSIX image: VHD(x) / CIM (app attach image / app attach container)

MSIX package (MSIX packaged app)

MSIX application

Traditional install vs MSIX app attach

Win32 install

Install

Install Office suite in master image
(Outlook, Excel, Word, OneNote)

Workspace > Hostpool > Provision VM

Publish local

Publish local application

Assign to user(s) / groups

MSIX app attach

Expand and Upload

Expand MSIX to MSIX image & upload to FS

Add / Remove

Connect MSIX packaged app with hostpool

Publish / Remove

Publish MSIX app



Demo

MSIX app attach

MSIX app attach - issues

- ✖ Powershell scripts
- ✖ GPOs (Startup/Shutdown or Scheduled tasks)
- ✖ → additional maintenance in the environment (not in Azure Portal)
- ✖ Complex setup if VHD(X) contains multiple packages

MSIX app attach – complex disk builds

VHD 1

MSIX packaged app #1
Package Name 1

App1 v1

VHD 2

MSIX packaged app #2
Package Name 2

App2 v5

VHD 3

MSIX packaged app #1
Package Name 1

App1 v1

App11 v7

VHD 4

MSIX packaged app #1
Package Name 1

App1 v1

App11 v7

Applications in WVD

Option 4: MSIX app attach – Next Gen

MSIX app attach – Portal integrated

- ✖ ~~Staging – Registration – De Registration – De Staging~~
- ✖ ~~GPOs with Powershell scripts~~

- ✖ Azure Portal integration
- ✖ **WVD RD Agent!**
- ✖ CimFS (.CIM)
- ✖ Complex disk builds → no issue

MSIX app attach – PreReqs

- ✖ File storage
 - ✖ Azure Fileshare
 - ✖ Azure NetApp files
 - ✖ Fileserver
- ✖ MSIX app attach packages (vhdx/cim) uploaded
- ✖ WVD sessionhosts → access to MSIX images



Demo

MSIX app attach
Add MSIX Package to Hostpool

MSIX app attach – Terminology



MSIX image: VHD(x) / CIM (app attach image / app attach container)

MSIX package (MSIX packaged app)

MSIX application

Add MSIX Package

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CONTOSO

Home > Windows Virtual Desktop > Host pools >



Host pool | PREVIEW

Search

+ Add

Manage views

Refresh

Change state

Delete

Overview

MSIX packages are conceptually similar to installation media for Win32 applications. [Learn more](#)

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Filter by name

<input type="checkbox"/>	Package name	↑↓	Image path	↑↓	Display name	↑↓	State	↑↓	Dependencies	↑↓	Version	↑↓
<input type="checkbox"/>	Microsoft.Media Player		\fileshare\folder\MSIX\mplayer.vhdx		Media Player		Active		View		12.34.1	
<input type="checkbox"/>	Windows.Travel		\fileshare\folder\MSIX\maps.cim		Maps		Inactive		View		10.32.14	

Settings

Properties

Locks

Export template

Manage

Application groups

MSIX packages

Session hosts

Monitoring

Diagnostic settings

Support + troubleshooting

New support request

Add MSIX Package

Microsoft Azure Search resources, services and docs Connie Wilson CONTOSO

Home > Windows Virtual Desktop > Host pools >

hp-02

Host pool | PREVIEW

Search Add Manage views Refresh Change state

Overview Activity log Access control (IAM) Tags Diagnose and solve problems

Settings Properties Locks Export template

Manage Application groups MSIX packages Session hosts

Monitoring Diagnostic settings

Support + troubleshooting New support request

MSIX packages are conceptually similar to installation media for Win32 applications.

Filter by name

Package name	Image path
Microsoft.Media Player	\fileshare\folder\MSIX\mplayer.vhdx
Windows.Travel	\fileshare\folder\MSIX\maps.cim

Add MSIX package

Adding MSIX package notifies WVD that a new application has been made available for publishing and assigning.

MSIX image path *

MSIX package *

MSIX application path Select package image path and package first

Display name

Version * Select package image path and package first

Description

Registration type On-demand Log on blocking

State Inactive Active

Add Cancel

Add MSIX Package

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Home > Windows Virtual Desktop > Host pools >

hp-02

Host pool | PREVIEW

Search Add Manage views Refresh Change state

MSIX packages are conceptually similar to installation media for Win32 applications.

Filter by name

<input type="checkbox"/> Package name	↑↓	Image path	↑↓
<input type="checkbox"/> Microsoft.Media Player		\fileshare\folder\MSIX\mplayer.vhd	
<input type="checkbox"/> Windows.Travel		\fileshare\folder\MSIX\maps.cim	

Overview Activity log Access control (IAM) Tags Diagnose and solve problems

Properties Locks Export template

Application groups MSIX packages Session hosts

Diagnostic settings

New support request

Add MSIX package

Adding MSIX package notifies WVD that a new application has been made available for publishing and assigning.

MSIX image path * ⓘ

MSIX package * ⓘ Select a package

Search

Package 1
Package 2
Package 3
Paint package
Package 5
Package 6
Package 7

Display name ⓘ

Version * ⓘ

Description ⓘ

Registration type ⓘ

Inactive
Active

Add Cancel



Demo

MSIX app attach
Change app status



Change state: Active to Inactive

The screenshot shows the Microsoft Azure portal interface for managing host pools. The left sidebar navigation includes Home, Windows Virtual Desktop, Host pools, and other options like Overview, Activity log, Access control (IAM), Tags, and Diagnose and solve problems. Under the Host pools section, the 'hp-02' host pool is selected. The main content area displays the 'MSIX packages' list, which includes two entries: 'Microsoft.Media Player' and 'Windows.Travel'. The 'Windows.Travel' entry is currently highlighted with a blue selection bar. A context menu is open over this entry, showing three options: 'Active' (disabled), 'Inactive' (selected), and 'Delete'. The 'Inactive' option is highlighted with a blue background. The top navigation bar includes the Microsoft Azure logo, a search bar, and user profile information for Connie Wilson (CONTOSO).

Package name	Image path	Display name	State	Dependencies	Version	...
Microsoft.Media Player	\fileshare\folder\MSIX\mplayer.vhd	Media Player	Active	View	12.34.1	...
Windows.Travel	\fileshare\folder\MSIX\maps.cim	Maps	Inactive	View		...

Context menu options for the 'Windows.Travel' package:

- Active
- Inactive (selected)
- Delete

Change state: Active to Inactive

Microsoft Azure Search resources, services and docs

Connie Wilson
CONTOSO

Home > Windows Virtual Desktop > Host pools >

hp-02

Host pool | PREVIEW

Add Manage views Refresh Change state Delete

MSIX packages are conceptually similar to installers.

Filter by name

Package name	Image path	Display name	State	Dependencies	Version
<input checked="" type="checkbox"/> Microsoft.Media Player	\fileshare\folder\MSIX\mplayer.vhd	Media Player	Active	View	12.34.1
<input type="checkbox"/> Windows.Travel	\fileshare\folder\MSIX\maps.cim	Maps	Inactive	View	10.32.14

Overview Activity log Access control (IAM) Tags Diagnose and solve problems

Properties Locks Export template

Application groups MSIX packages Session hosts

Diagnostic settings

New support request



Demo

MSIX app attach



Publish MSIX in Application Group

Publish MSIX in Application Group

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Home > Windows Virtual Desktop > Application groups

appgroup-03 Application group X

Search + Add Refresh Remove

Filter by name

<input type="checkbox"/>	Application name ↑↓	Application type ↑↓	Require command line ↑↓
<input type="checkbox"/>	Media Player Application	Win32	Yes
<input type="checkbox"/>	Windows Travel Maps	MSIX	NA

Settings

Properties ...

Locks ...

Export template ...

Manage

Applications ...

Assignments ...

Monitoring

Diagnostic settings ...

Support + troubleshooting

New support request ...

Publish MSIX in Application Group

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CONTOSO

Home > Windows Virtual Desktop > Application groups

appgroup-03 Add Refresh Remove

Search Filter by name

Overview Activity log Access control (IAM) Tags Diagnose and solve problems

Settings Properties Locks Export template

Manage Applications Assignments

Monitoring Diagnostic settings

Support + troubleshooting New support request

Add application

Application source * MSIX package

MSIX package * Start menu

MSIX application * File path

Display name MSIX package

Description

Application path Select MSIX application first

Icon path * Icon index *

Show in web feeds Yes

Add Cancel

Application name	Application type
Media Player Application	Win32
Windows Travel Maps	MSIX

Publish MSIX in Application Group

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CONTOSO

Home > Windows Virtual Desktop > Application groups

appgroup-03 Application group

Search Add Refresh Remove

Filter by name

<input type="checkbox"/>	Application name ↑↓	Application type ↑↓
<input type="checkbox"/>	Media Player Application	Win32
<input type="checkbox"/>	Windows Travel Maps	MSIX

Settings

- Properties
- Locks
- Export template

Manage

- Applications
- Assignments

Monitoring

- Diagnostic settings

Support + troubleshooting

- New support request

Add application

Application source * MSIX package

MSIX package * Paint package

MSIX application * Search

Display name Package 1

Description Package 2

Application path Package 3

Icon path * Paint package

Icon index * Package 5

Show in web feeds Yes

Yes

No

Add Cancel

Publish MSIX in Application Group

Microsoft Azure Search resources, services and docs Connie Wilson
CONTOSO

Home > Windows Virtual Desktop > Application groups

appgroup-03 Application group

Search + Add Refresh Remove

Filter by name

<input type="checkbox"/>	Application name ↑↓	Application type ↑↓
<input type="checkbox"/>	Media Player Application	Win32
<input type="checkbox"/>	Windows Travel Maps	MSIX

Settings

- Properties
- Locks
- Export template

Manage

- Applications
- Assignments

Monitoring

- Diagnostic settings

Support + troubleshooting

- New support request

Add application

Application source * MSIX package

MSIX package * Paint package

MSIX application * Paint

Display name Search

Description

Application path

Icon path *

Icon index *

Show in web feeds Yes Yes No

Add Cancel

Publish MSIX in Application Group

Microsoft Azure Search resources, services and docs Connie Wilson
CONTOSO

Home > Windows Virtual Desktop > Application groups

appgroup-03 Search Add Refresh Remove

Overview **Activity log** **Access control (IAM)** **Tags** **Diagnose and solve problems**

Settings **Properties** **Locks** **Export template**

Manage **Applications** **Assignments**

Monitoring **Diagnostic settings**

Support + troubleshooting **New support request**

Filter by name

Application name	Application type
Media Player Application	Win32
Windows Travel Maps	MSIX

Add application

Application source *

MSIX package *

MSIX application *

Display name

Description

Application path

Icon path *

Icon index *

Show in web feeds Yes No

Add **Cancel**

Publish MSIX in Application Group

Microsoft Azure Search resources, services and docs Connie Wilson
CONTOSO

Home > Windows Virtual Desktop > Application groups

appgroup-03 Application group X

Search + Add Refresh Remove

Filter by name

<input type="checkbox"/>	Application name ↑↓	Application type ↑↓	Require command line ↑↓	...
<input type="checkbox"/>	Media Player Application	Win32	Yes	...
<input type="checkbox"/>	Windows Travel Maps	MSIX	NA	...
<input type="checkbox"/>	Paint	MSIX	NA	...

Settings

Properties Locks Export template

Manage

Applications Assignments

Monitoring

Diagnostic settings

Support + troubleshooting

New support request

Start VM on Connect

(Private Preview)

Start VM on Connect (Private Preview)

Personal | Properties

Host pool | Directory:

Search (Ctrl+ /) Save Discard Download template

Resource group
Change resource group

Subscription
Change subscription

Location
West Europe

Name
Personal

Configuration

Personal desktop Yes No

Assignment type

Enable Start VM on connect to allow users to start the virtual machine from a deallocated state.

Start VM on connect Yes

No

Validation environment Yes

No

Microsoft Endpoint Manager

(Public Preview)

Microsoft Endpoint Manager (Public Preview)

PreReqs

- ✖ Hybrid AD joined

Benefits

- ✖ Manage policies
- ✖ Distribute application
- ✖ Centralized view across both physical devices & virtual desktops

Available for

- ✖ Windows 10 Enterprise desktops (GA)
- ✖ Windows 10 Enterprise multi-session (preview – 25 sessions)

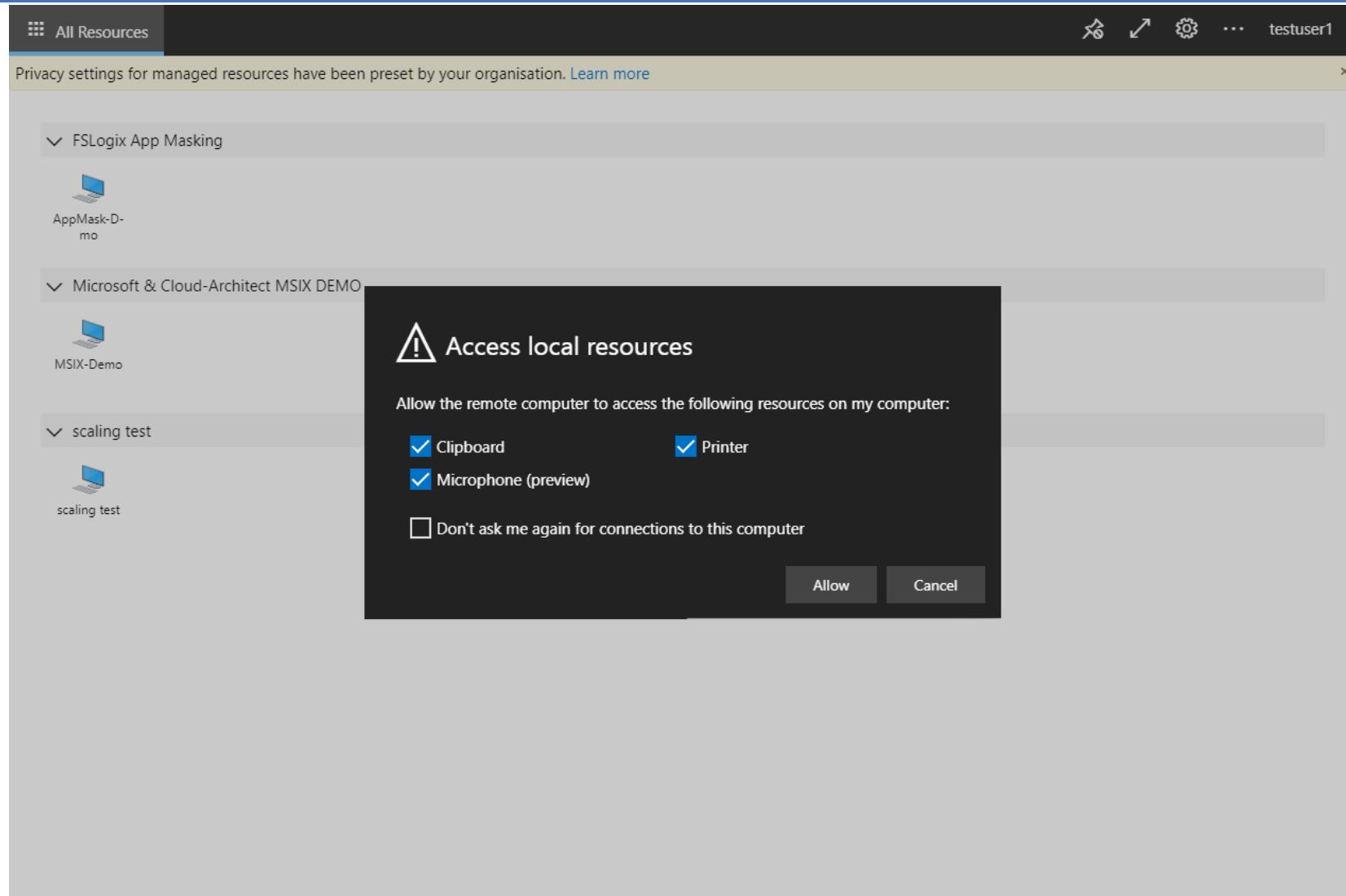
The screenshot shows the Microsoft Endpoint Manager admin center interface. The left sidebar includes links for Home, Dashboard, All services, FAVORITES (Devices selected), Apps, Endpoint security, Reports, Users, Groups, Tenant administration, Troubleshooting + support, Device enrollment, Policy (Compliance policies, Conditional access, Configuration profiles, Scripts, Group Policy analytics (preview), Windows 10 update rings, Windows 10 feature updates (...), Update policies for iOS/iPadOS, Enrollment restrictions, eSIM cellular profiles (Preview)), and Overview. The main content area is titled "Devices | All devices" and displays a table of 2,590 devices. The columns are: Device name, Managed by, Ownership, Compliance, OS, and Version. A red box highlights the first six rows of the table, which list devices like WVD-dedic-1, WVD-person-0, WVD-person-2, WVDdedic-0, WVDshared-0, and WVDshared-2, all managed by Intune and owned by Corporate, with a green checkmark in the Compliance column indicating they are compliant. The OS column shows Windows for most devices, except for the last two which are Android.

Device name	Managed by	Ownership	Compliance	OS	Version
WVD-dedic-1	Intune	Corporate	Compliant	Windows	10.0.1836
WVD-person-0	Intune	Corporate	Compliant	Windows	10.0.1836
WVD-person-2	Intune	Corporate	Compliant	Windows	10.0.1836
WVDdedic-0	Intune	Corporate	Compliant	Windows	10.0.1836
WVDshared-0	Intune	Corporate	Compliant	Windows	10.0.1836
WVDshared-2	Intune	Corporate	Compliant	Windows	10.0.1836
ab-2526552	Intune	Corporate	Not Compliant	Windows	10.0.1776
alg-10-15265	Co-managed	Corporate	See ConfigMgr	Windows	10.0.1836
alg-10-16523	Co-managed	Corporate	See ConfigMgr	Windows	10.0.1836
alg-10-97452	Co-managed	Corporate	See ConfigMgr	Windows	10.0.1836
ameliest_Android_10/_...	Intune	Corporate	Not Compliant	Android (work profile)	10.0
antbroo_Android_5/13...	Intune	Corporate	Not Compliant	Android (device admin...)	8.0.0
mattwin10pro2	Intune	Corporate	Not Compliant	Windows	10.0.1776
mattwin10pro3	Intune	Corporate	Not Compliant	Windows	10.0.1776
mrogers_Windows_8/_...	Intune	Unknown	Not Compliant	Windows	0.0.0.0

HTML5 microphone redirection

(Public Preview)

HTML5 microphone redirection (Public Preview)

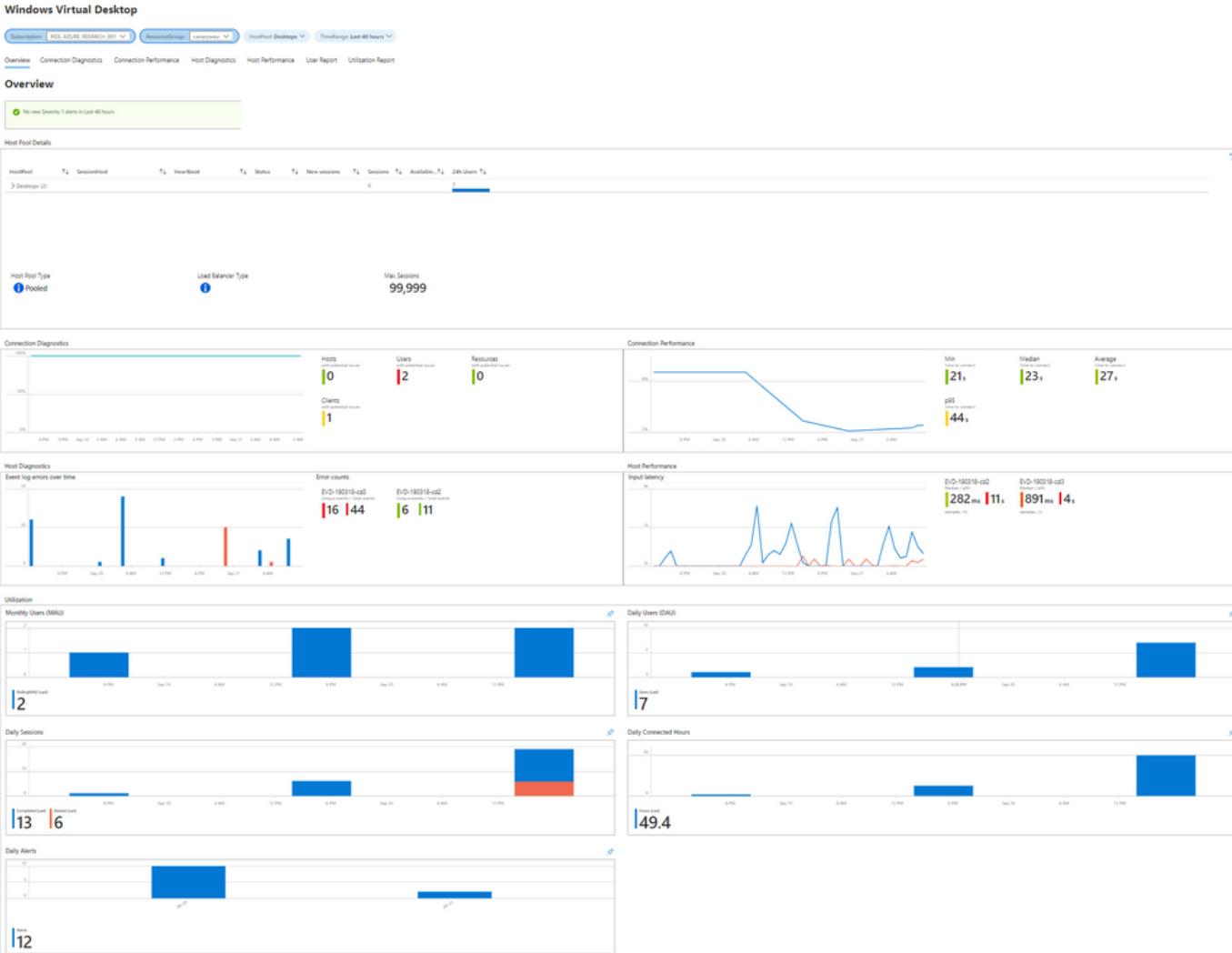


Azure Monitor for WVD

(Private Preview)

Azure Monitor for WVD (Private Preview)

- ✖ Monitoring telemetry
- ✖ Visualizations
- ✖ Debug & troubleshooting issues
- ✖ Configure alerts to proactively identify issues
- ✖ Look at connection and host level performance
- ✖ Drill down to specific user session
- ✖ Usage across host pools





Demo

Azure Monitor for WVD
(Private Preview)

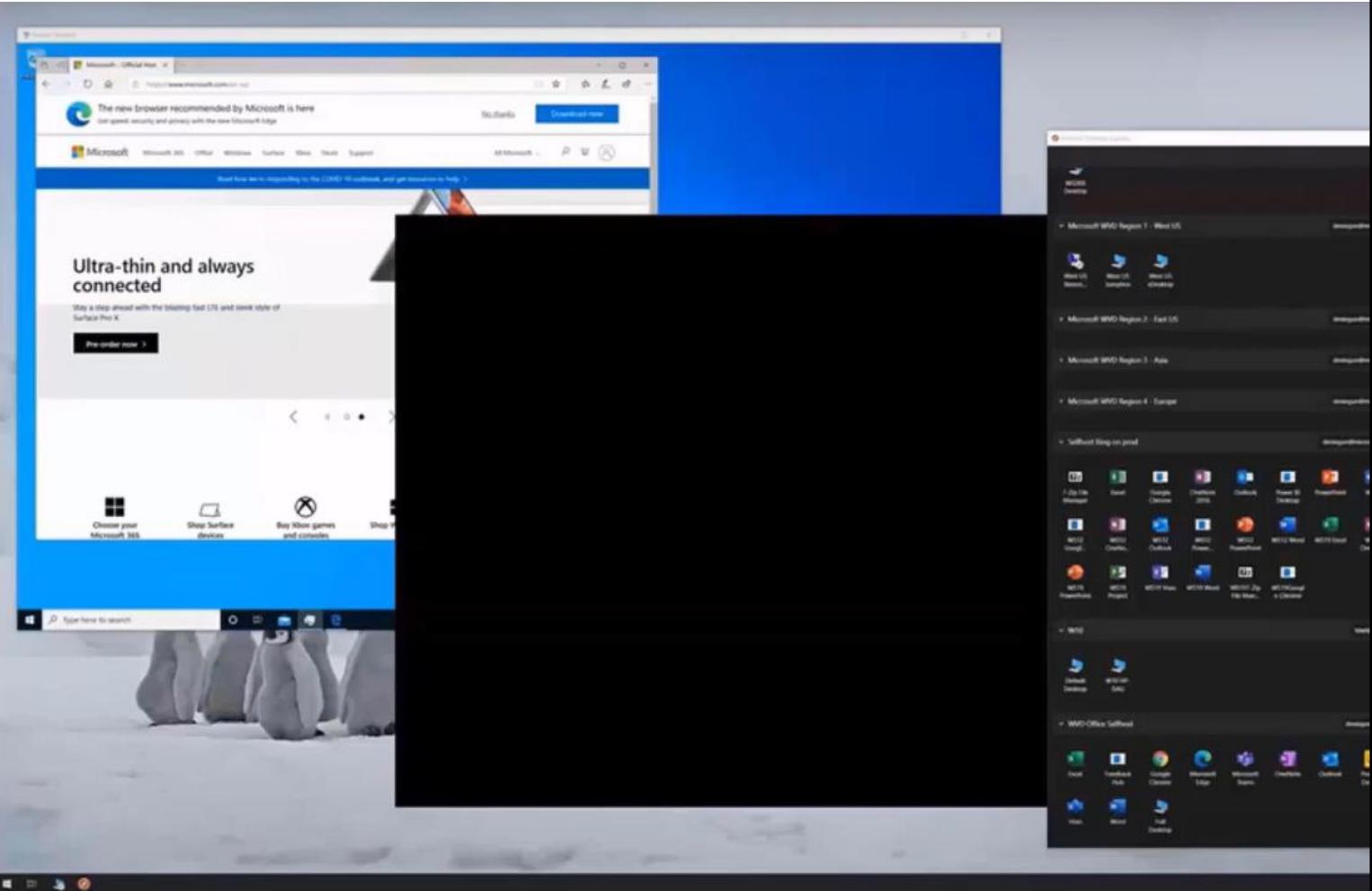


Screen capture protection

(Private Preview)

Screen capture protection (Private Preview)

- ✖ Protect sensitive information
 - ✖ Both Remote Apps & Desktops
 - ✖ On all supported WVD clients



Windows Virtual Desktop RDP Shortpath

(Public Preview)

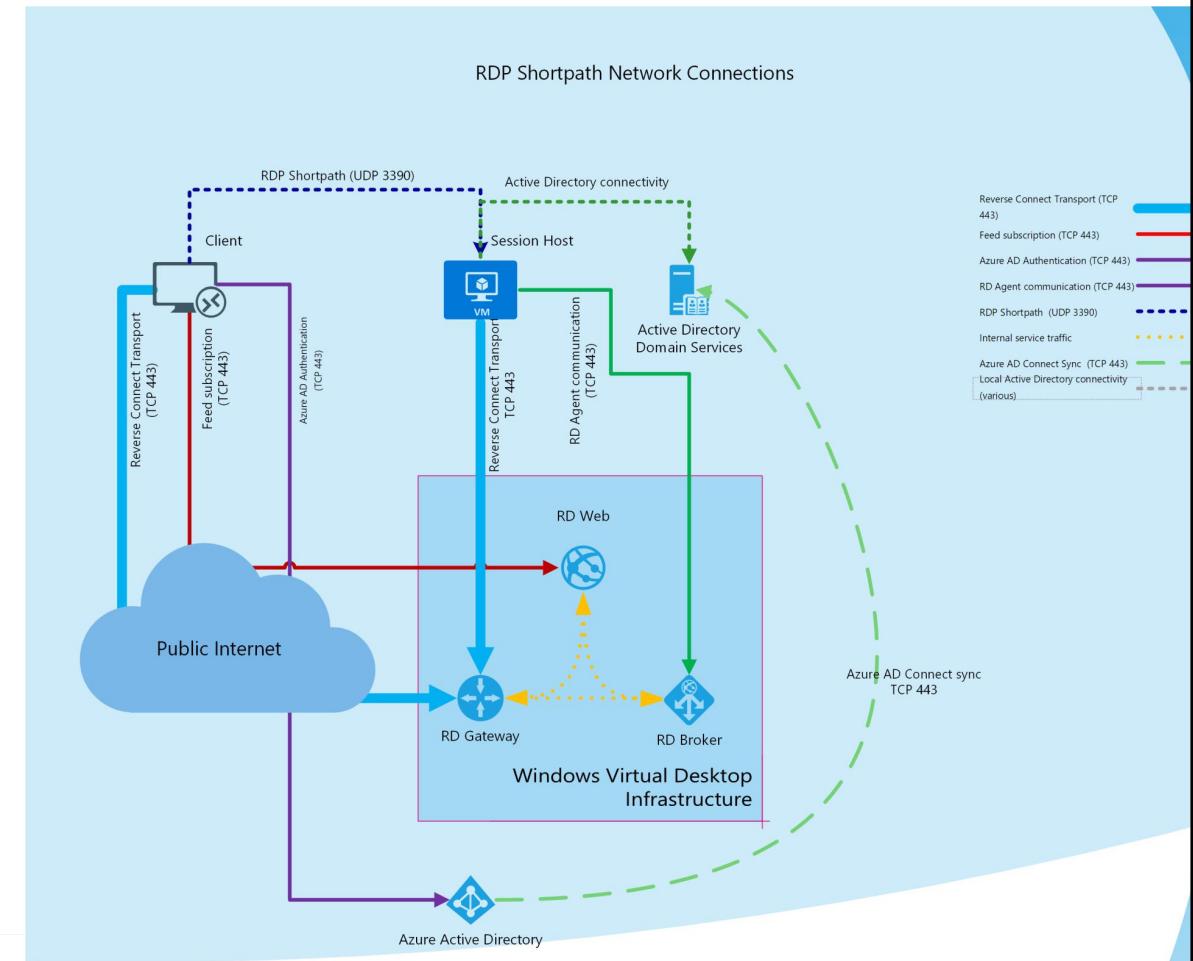
Windows Virtual Desktop RDP Shortpath (Private Preview)

Requirements

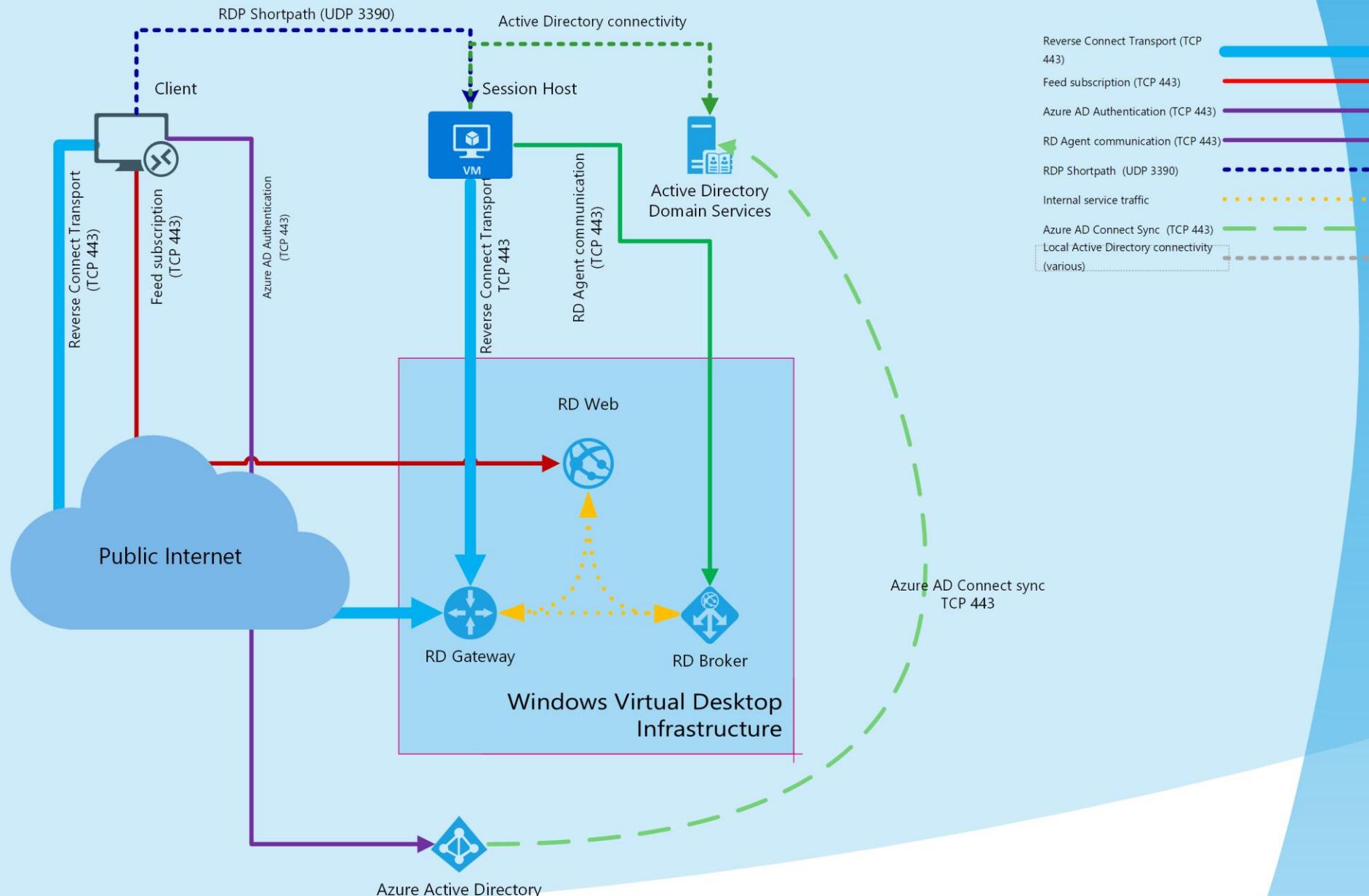
- ✖ Client needs direct line-of-sight with Sessionhost
 - ✖ ExpressRoute
 - ✖ Site-to-Site (S2S)
 - ✖ Point-to-Site (P2S)
 - ✖ Public IP (pls don't)

Benefits

- ✖ Based on top of highly efficient Universal Rate Control Protocol (URCP)
- ✖ Direct connectivity between Remote Desktop client and Session Host
- ✖ Reduces the round-trip time
- ✖ Support for configuring Quality of Service (QoS)
- ✖ Limiting outbound network traffic
(throttle rate for each session)



RDP Shortpath Network Connections





Demo

Windows Virtual Desktop RDP Shortpath
(Public Preview)



Other updates

Other updates

WVD Client

- ✖ Multiple accounts in the client
`_msradc TXT 1 Hours https://rdweb.wvd.microsoft.com/api/arm/feeddiscovery`
- ✖ Auto update client

Management

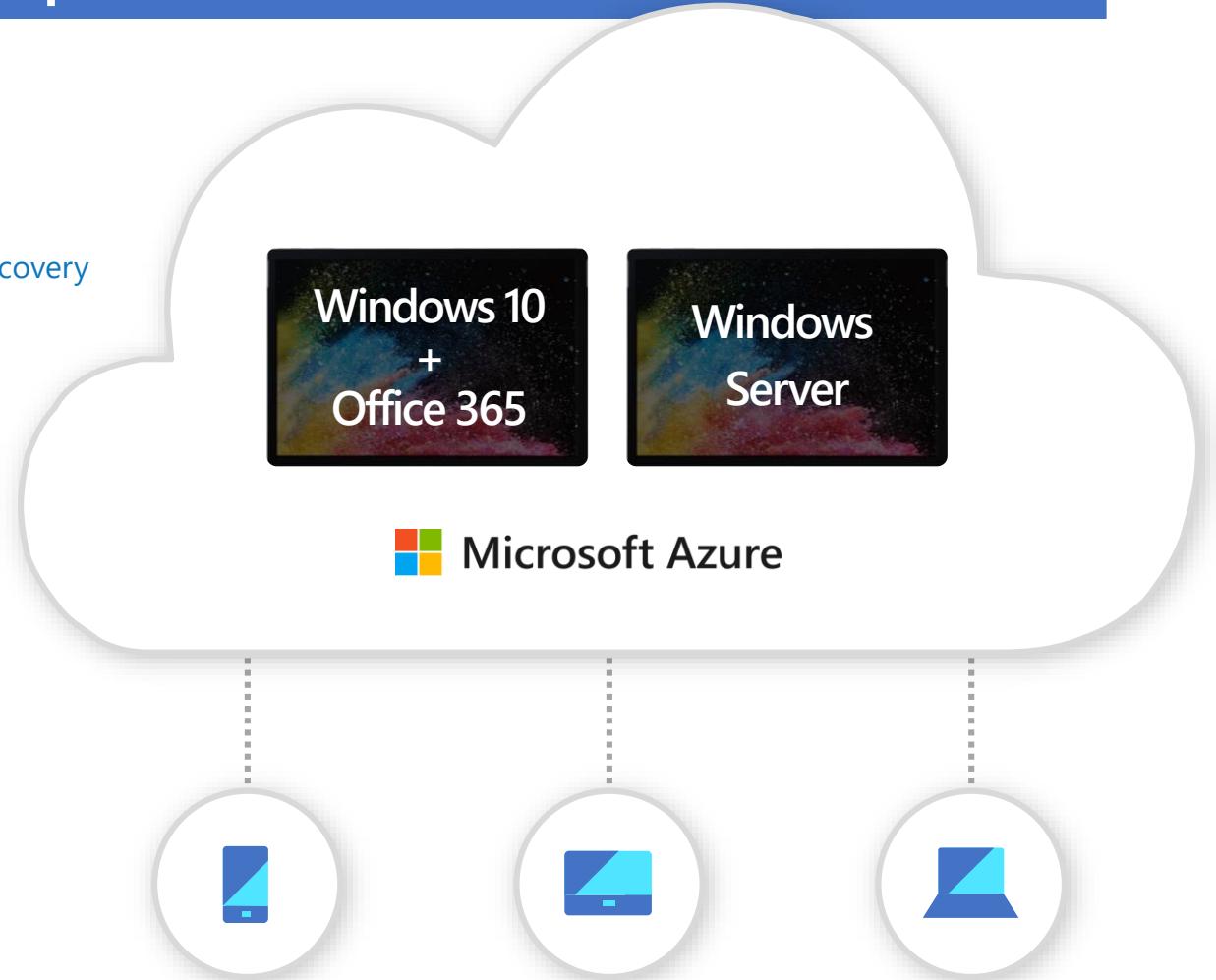
- ✖ Update to Powershell modules
`Az.DesktopVirtualization 2.0.1`

Optimizations

- ✖ Multi Media Redirection (Chrome & Edge extension)

Azure Portal

- ✖ Change VM image template
- ✖ Renaming of session desktops



Windows Virtual Desktop

WEWC1086 WVD Technical Deep Dive + Hands-on Workshop

Micha Wets - Microsoft MVP | Cloud.Architect | ASPEX | MC2MC | Technine

Bart Roels - Cloud Solution Architect | Microsoft