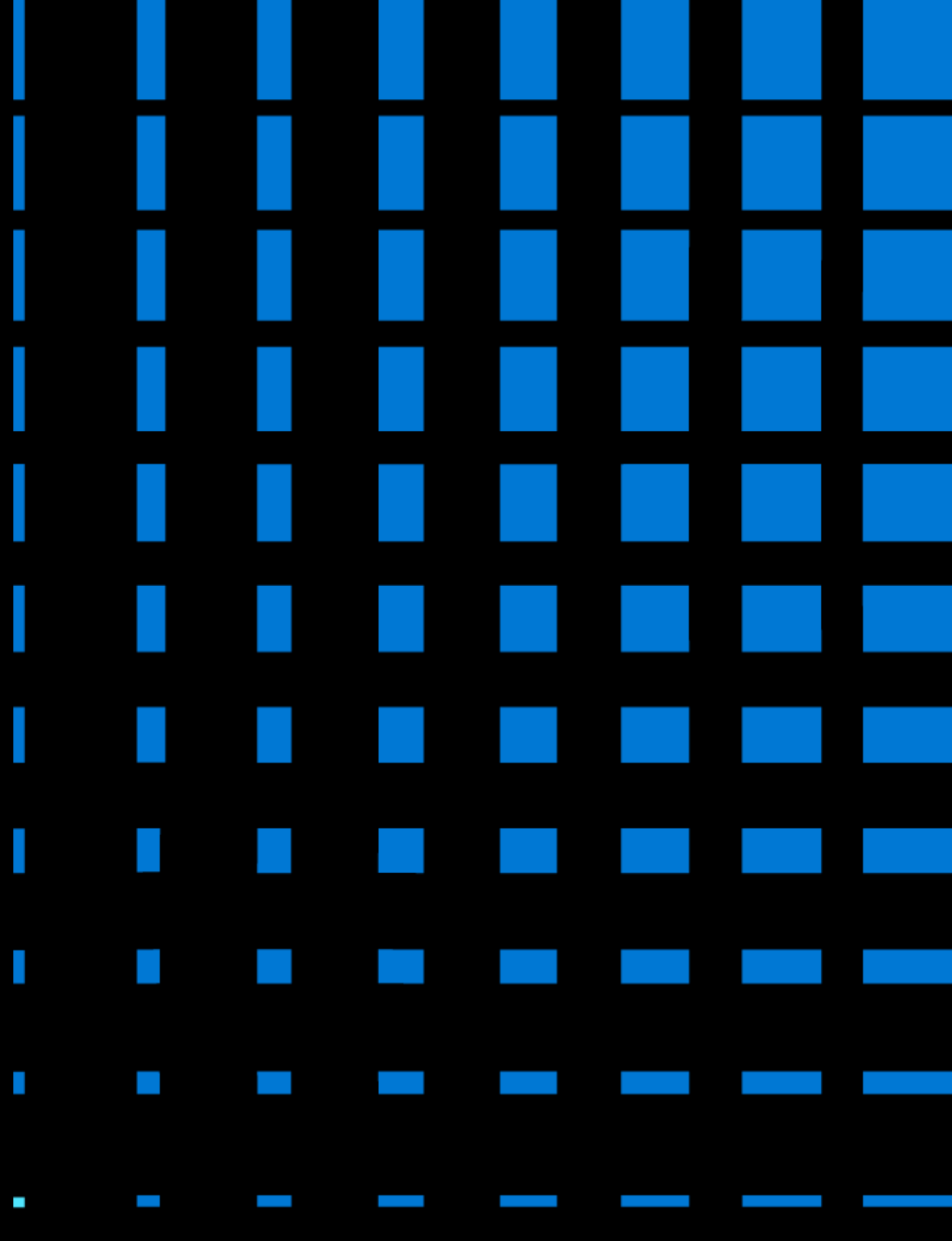


Azure webinar series

Windows Virtual Desktop

Deployment Recommendations and Best Practices



Welcome

How do I ask a question?

If you have a technical or content-related question, please use the Q&A window

We will address the questions as they come in

Can I view this presentation after the webinar?

Yes, this presentation is being recorded

A link to the recorded presentation will be sent to the email address you used to register

Meet our speaker



Christiaan Brinkhoff

Principal Program Manager, at Microsoft



Brinkhoff_C



In/christiaanbrinkhoff

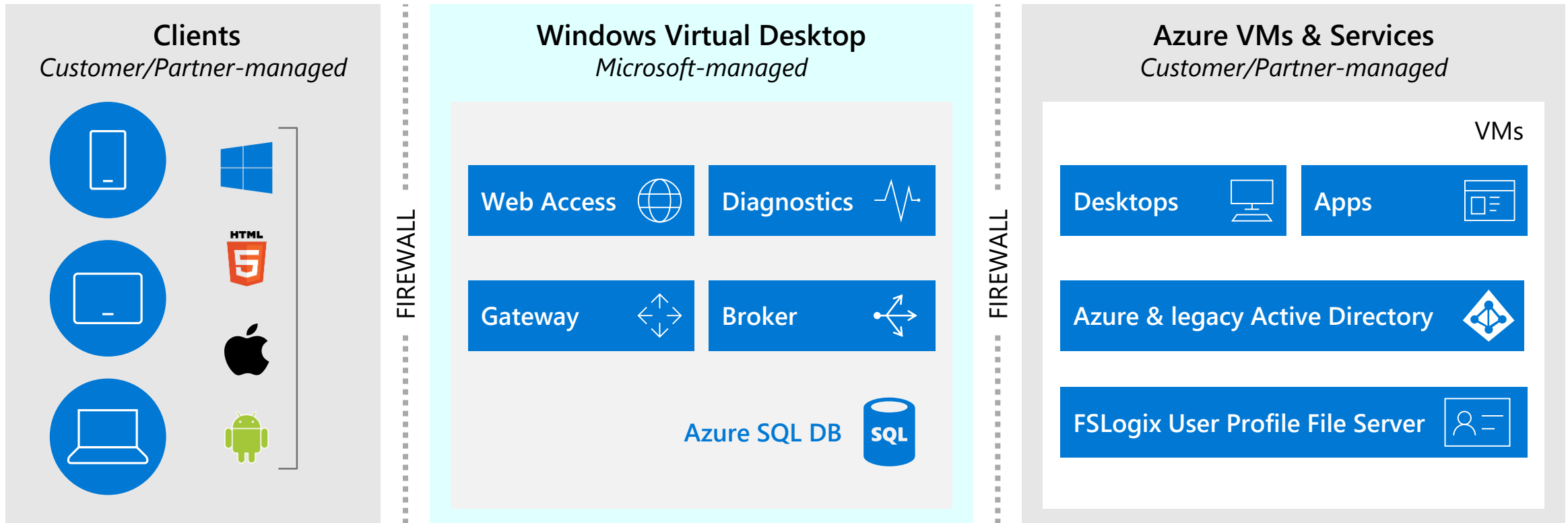
Agenda

- Architecture
- Service limits
- Image management
- VM sizing
- Virtual Desktop Optimization tool
- FSLogix best practices
- Teams best practices
- Tips for Troubleshooting
- Call to action

Architecture

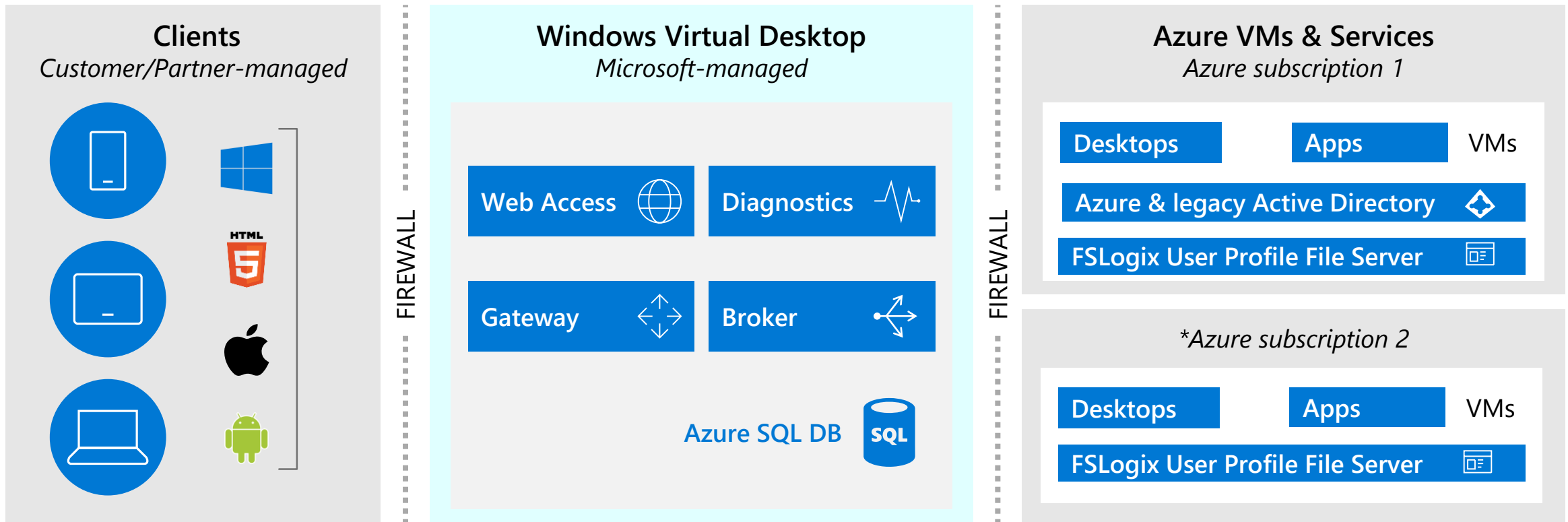
Windows Virtual Desktop Architecture

3 layers



Windows Virtual Desktop Enterprise Architecture

3 layers



* When you use over 5000 VMs/hosts in the same region we recommend to create another Subscription to increase the level of API ARM throttling CALs.

5000 VMs means 16.000 (medium workload) concurrent sessions per Azure subscription with Windows 10 multi-session.

Windows Virtual Desktop Service Limits



General service limits

1. **400 host pools** per workspace
2. **10.000 VMs per host** pool
3. You can't create more than **50 application groups** per single Azure AD tenant.
4. We recommend that you **don't publish more than 50** applications per application group.
5. Azure VMs – session host names prefix **cannot exceed 11 characters**.



Azure ARM limits

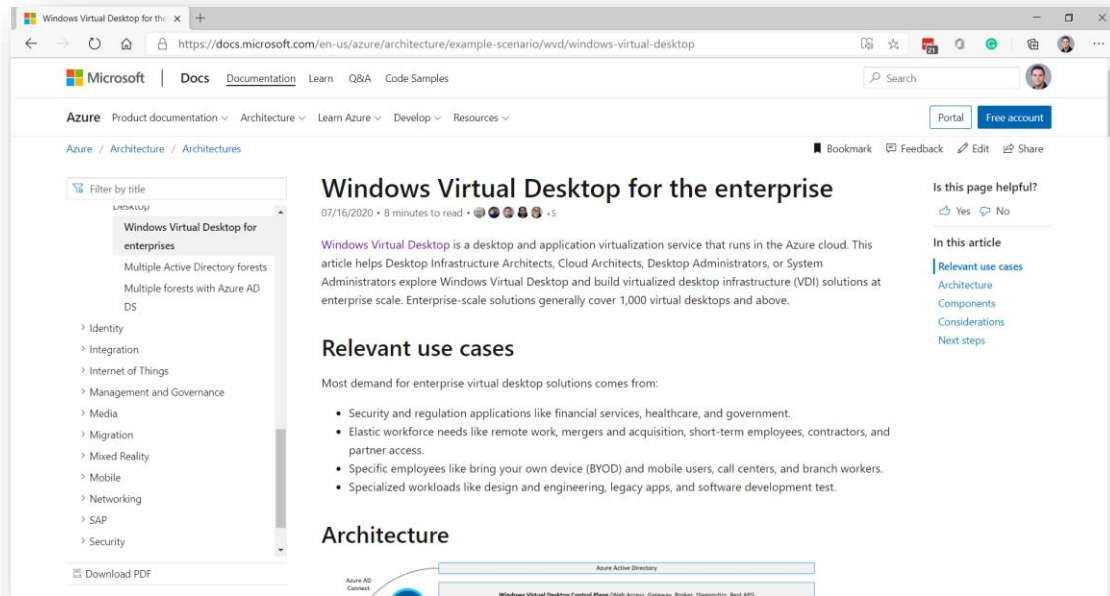
1. We recommend to deploy **not more than 5,000 VMs per Azure subscription** per region.
2. **To manage enterprise environments** with more than **5,000 VMs per Azure subscription** in the same region, you can create multiple Azure subscriptions in a hub-spoke architecture.
3. By default, you can deploy up to 800 instances of most resource types in a resource group. **Azure Compute doesn't have this limit.**



Azure ARM limits

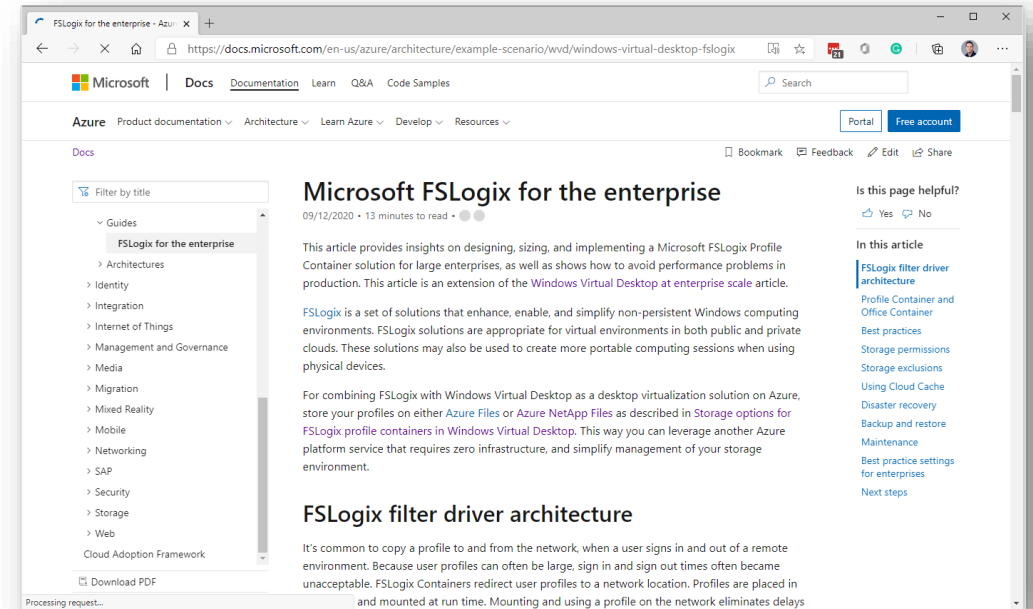
1. Limitations are active on the virtual machines per Azure subscription. You could **increase** the **resources** of your **individual** VMs in your Azure subscription to **accommodate more user session** without hitting the maximum limit of virtual machines per Azure subscription as described above.
2. Availability set 200 session hosts limit work around per deployment
 1. Availability set is not connected to the same amount of host pools
3. We suggest you **deploy** your session hosts in a **separate resource group** (RG). This leaves you in a better position to remove all your virtual machines at once in case of an update

Azure Solutions Center – WVD for the Enterprise documentation



- Learn more about service limits and deployment best practices

Go to aka.ms/wvdbestpractices

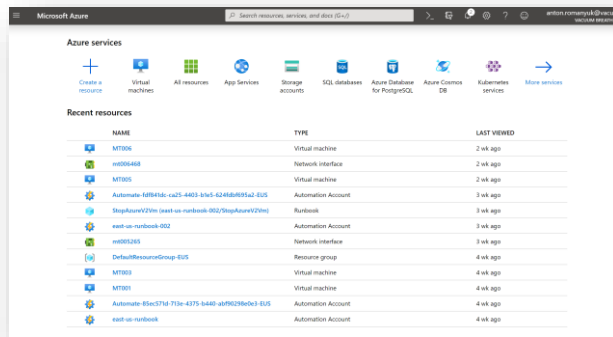


- How to use FSLogix at larger scale.

Go to aka.ms/fslogixbestpractices

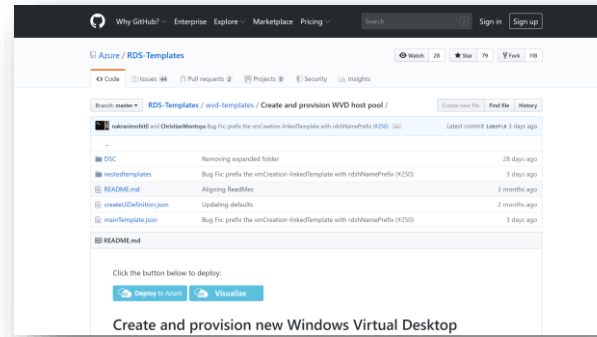
Deploy Windows Virtual Desktop

Deployment Options // Overview



Azure Portal

- Use the Azure Portal to provision a new host pool via a wizard-based process



ARM Template

- Use the Azure Resource Manager template for provisioning a new host pool



PowerShell / REST API / ...

- Use your PowerShell client or REST API calls to create a host pool

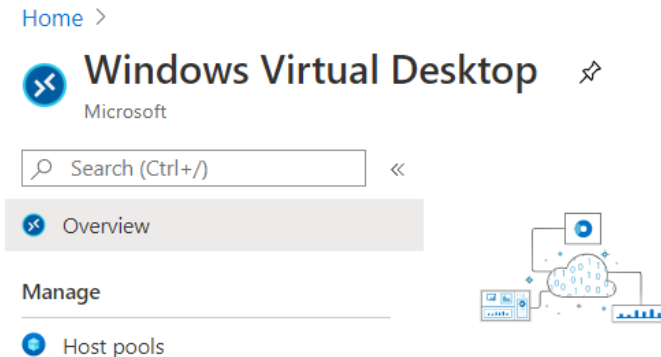
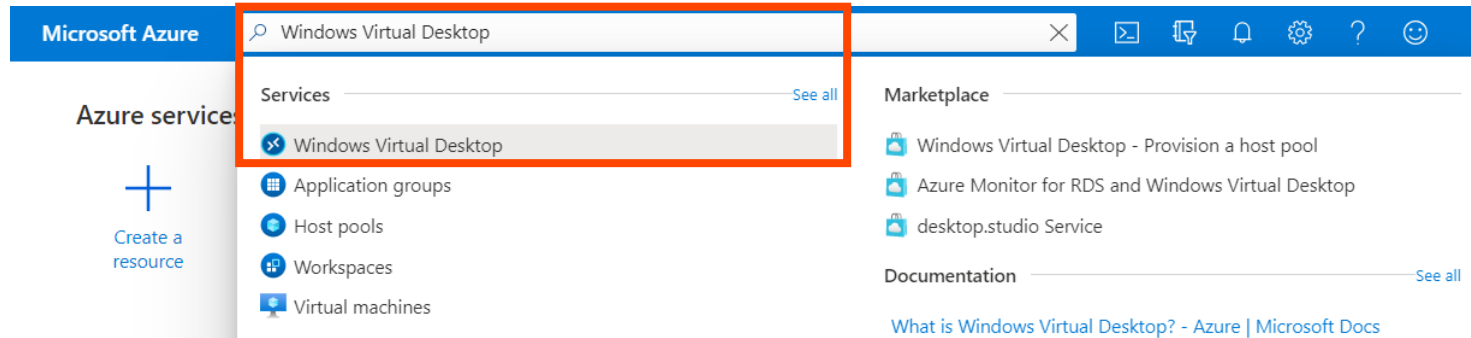
Windows Virtual Desktop Deployment

Prerequisites (Hybrid Model):

1. An Azure Active Directory
2. An Active Directory
3. Azure Active Directory Connect
4. An Azure Virtual Network updated with your DNS server, with line of sight of your AD DC's
5. An Azure subscription and its associated ID
6. Application group with users in Azure Active Directory

Deploy your first host pool

Select the Azure Portal service:



MOD, create a host pool!

Easily scale your VM deployment. Create host pools to easily manage assignments, application groups, and settings for your entire organization.

Create a host pool

Deploy your first host pool using marketplace

Configure Basics:

- Subscription
- Resource group
- Host pool name
- Location (Azure Region)
- Host pool type
 - Pooled
 - Max Session Limit
 - Load Balancing Algorithm
 - Personal
 - Assignment type

The screenshot shows the 'Configure Basics' page for creating a host pool in the Azure Marketplace. The page has a navigation bar with tabs: Basics, Virtual Machines, Workspace, Tags, and Review + create. The 'Basics' tab is selected.

Project details

- Subscription ***: Azure Pass - Sponsorship
- Resource group ***: rg-ad-westeu-01 (with a 'Create new' link below it)
- Host pool name ***: Collection-01 (with a green checkmark icon)
- Location ***: East US (with a note: 'Metadata will be stored in Azure geography associated with (US) East US' and a 'Learn more' link)

Host pool type

If you select pooled (shared), users will still be able to access their personalization and user data, using FSLogix.

- Host pool type ***: Personal
- Assignment type**: Automatic (with a dropdown menu showing 'Automatic' and 'Direct' options)

Deploy your first host pool

Configure virtual machines:

- Resource group
- VM Location
- VM size
 - VM Config (min recommended): 2 vCPU, 8 GB RAM (e.g. D2s v3), Managed OS Disk 64 GB Premium SSD
- Number of VMs
- VM name prefix

Basics **Virtual Machines** Workspace Tags Review + create

Host pools are a collection of one or more identical virtual machines within Windows Virtual Desktop environments. Here you give details to create a resource group with virtual machines in an Azure subscription. [Learn more](#)

Add virtual machines

☐ No ☒ Yes

Resource group

rg-ad-westeu-01

Virtual machine location ⓘ

West Europe

Virtual machine size * ⓘ

Standard D2s v3
2 vCPU's, 8 GiB memory
[Change size](#)

Number of VMs *

2

Name prefix *

HP01



Select a VM size

Search by VM size...

Display cost : Monthly

vCPUs : All

RAM (GiB) : All

[Add filter](#)

Most used sizes by Azure users

Showing 12 of 315 VM sizes. | Subscription: Azure Migrate Demo Subscription | Region: East US | Current size: Standard_D2s_v3 | [Learn more about VM sizes](#)

VM Size ↑↓	Family ↑↓	vCPUs ↑↓	RAM (GiB) ↑↓	Data disks ↑↓	Max IOPS ↑↓	Temp storage (GiB) ↑↓
DS1_v2 ↗ ⓘ	General purpose	1	3.5	4	3200	7
D2s_v3 ↗ ⓘ	General purpose	2	8	4	3200	16
B2s ↗ ⓘ	General purpose	2	4	4	1280	8
B1s ↗ ⓘ	General purpose	1	1	2	320	4
B2ms ↗ ⓘ	General purpose	2	8	4	1920	16

Deploy your first host pool

Configure virtual machine settings:

- Image source
- Image OS version
- Disk Type
- AD domain join UPN & password
- (optional) Domain or OU
- Virtual Network & vmSubnet

Image type: Gallery

Image * ⓘ

OS disk type * ⓘ

Use managed disks ⓘ

OS disk type * ⓘ

Use managed disks ⓘ

Network and security

*Virtual network ⓘ: contoso1-vnet

Subnet ⓘ: adSubnet1 (10.0.1.0/24)

Public IP ⓘ: ☐ Yes ☒ No

Network security group ⓘ: None

Specify domain or unit ⓘ: ☒ Yes ☐ No

Domain to join * ⓘ: contoso.local ✓

Organizational Unit path ⓘ: OU=WVD,DC=contoso,DC=local

Administrator account

AD domain join UPN * ⓘ: adjoin@contoso.local ✓

Password * ⓘ: ✓

Confirm password * ⓘ: ✓

Image selection details:

- Select an image
- Windows 10 Enterprise multi-session, Version 1909
- Windows 10 Enterprise multi-session, Version 1909 + Office 365 ProPlus
- Windows Server 2019 Datacenter

Disk selection details:

- Standard SSD
- Premium SSD
- Standard SSD
- Standard HDD

Deploy your first host pool

Configure Workspace:

- Create a workspace
- Select an existing workspace

Basics Virtual Machines **Workspace** Tags Review + create

To save some time, you can register the default desktop application group from this host pool, with a new or pre-existing workspace.

Register desktop app group ☐ No ☒ Yes

To this workspace ⓘ

There's no available workspaces for selected location

Create new

Create new

Workspace name *

M365j447330 ✓

We will also create a display name for this workspace, which you can always edit later.

OK Cancel

Deploy your first host pool

Review your settings:

- Make sure information you entered is correct – Azure Portal does not validate the information fully
- (optional) Save the ARM template for automation
- Hit “Create”

[Home](#) > [Windows Virtual Desktop](#) | [Host pools](#) > Create a host pool

Create a host pool

✓ Validation passed.

[Basics](#) [Virtual Machines](#) [Workspace](#) [Tags](#) [Review + create](#)

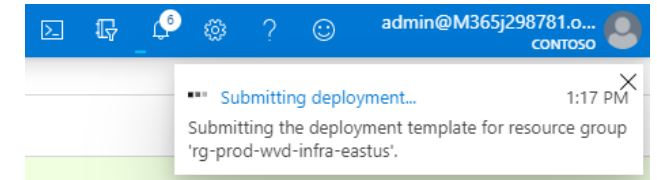
Basics

Subscription


Azure Pass - Sponsorship

Resource group



rg-prod-wvd-infra-eastus



... Your deployment is underway

 Deployment name: HostPool-7c61985b-75f8-4a56-a9cb-a280f39d... Start time: 5/13/2020, 1:17:22 PM
Subscription: Azure Pass - Sponsorship Correlation ID: 2ef3cd53-877f-4764-a111-b5fa1d4b3ec4
Resource group: rg-prod-wvd-infra-eastus

Deployment details [\(Download\)](#)

Resource	Type
 vmCreation-linkedTemplate-7c61985b-75f8-4a56-a9cb-a280f39d0030	Microsoft.Resources/deployments
 Workspace-linkedTemplate-7c61985b-75f8-4a56-a9cb-a280f39d0030	Microsoft.Resources/deployments

Deploy your first host pool

Assign user identities to your host pool:

- After the deployment process is complete, assign individual users or user groups to the default application group.
- The default app group created for a new host pool publishes the full desktop.

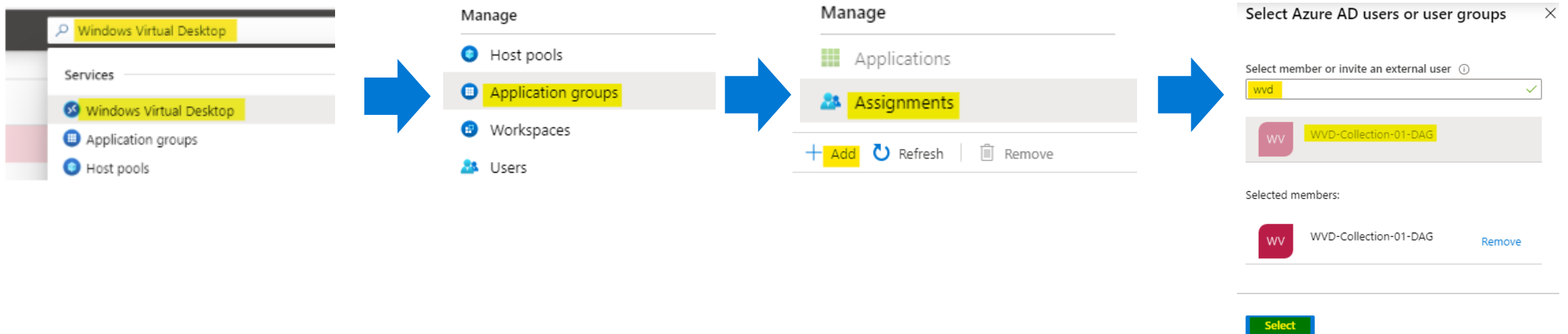


Image Management

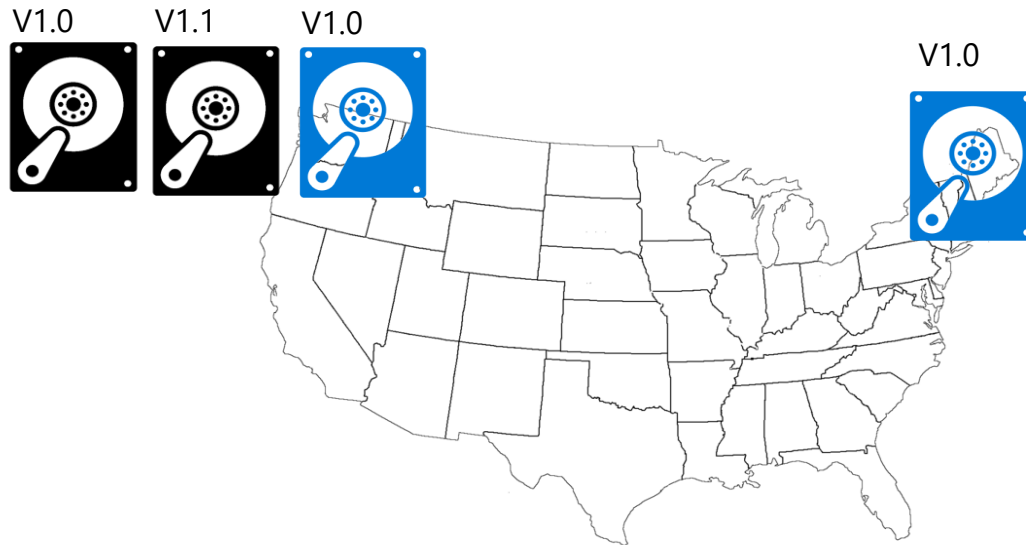
Master Image Management

Can be managed by any already existing process and technologies including

- Azure Update Management
- Microsoft Endpoint Configuration Manager (SCCM)
- Shared image gallery
- Azure Image Builder (GA soon...)
- 3rd party

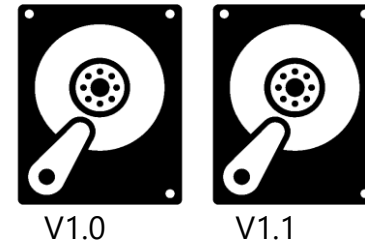
Shared Image Gallery

- Management of images
- Sharing of images
- Global distribution
- Scaling
- High-availability

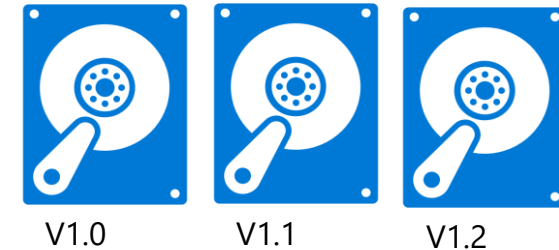


Azure Shared Imaged Gallery

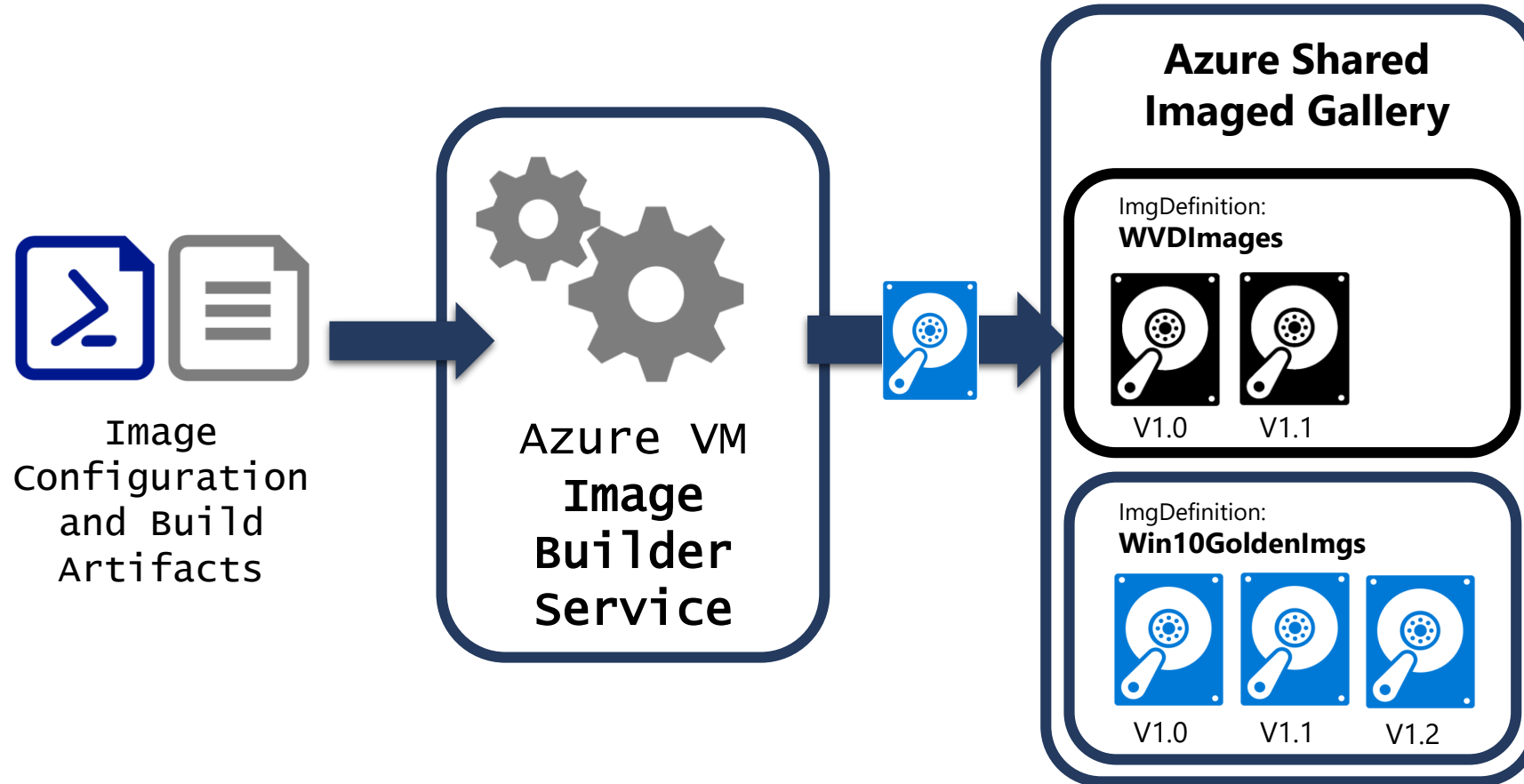
ImgDefinition:
WVDImages



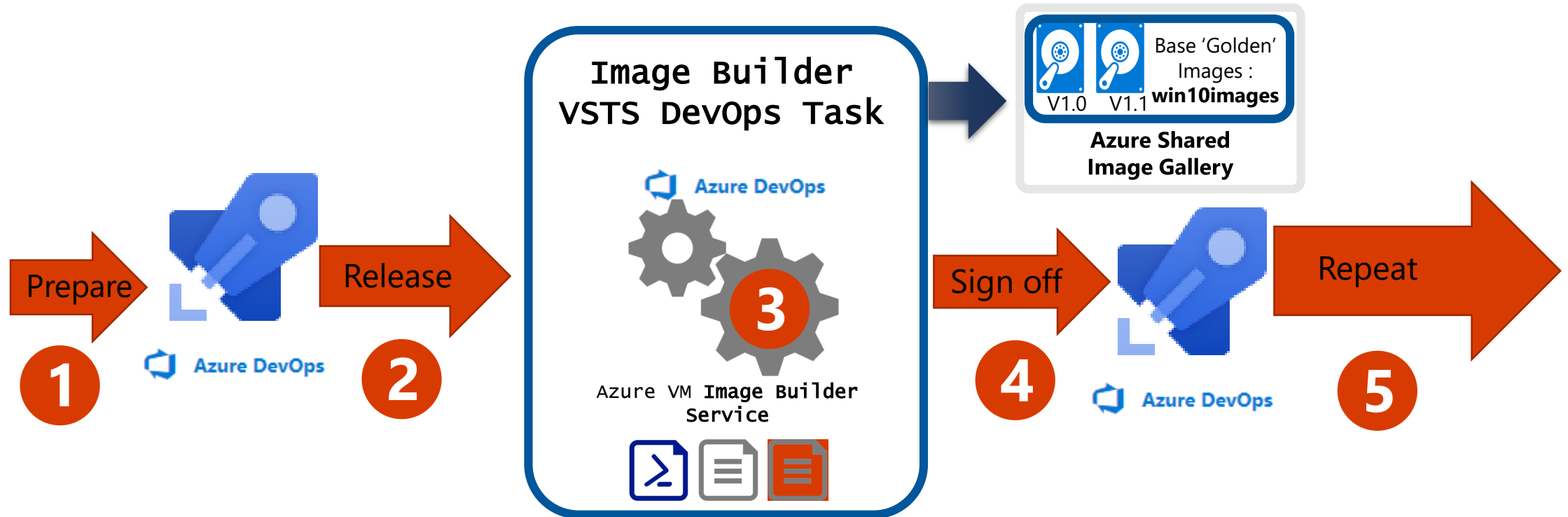
ImgDefinition:
Win10GoldenImgs



Azure VM Image Builder



Azure VM Image Builder Automation



Windows Virtual Desktop QuickStart

[Overview](#)[How It Works](#)[Getting Started](#)[Customize](#)[Troubleshoot](#)

How To Use The WVD QuickStart With an Empty Subscription

On this page, the process of using the WVD QuickStart with an empty Azure subscription is laid out from start to finish. If you don't have an Azure subscription yet, you can start a 30-day free trial [here](#). The QuickStart will configure Windows Virtual Desktop as well as Azure Active Directory Domain Services for you. All that is required is an empty Azure subscription as listed below, and after clicking one button, WVD will be ready for use within 2 hours. The video below shows a walkthrough of the entire deployment process.



Welcome to the WVD QuickStart!

Windows Virtual Desktop (WVD) is a desktop and app virtualization service that runs on Microsoft Azure. Windows Virtual Desktop can be accessed from a variety of devices with applications for Windows, macOS, iOS, Android, and Linux. WVD can be accessed from most modern browsers (that support HTML5) to access Windows Virtual Desktop desktops and applications, all allowing you to access your hosted remote desktop and (remote) applications from anywhere. Check out the Microsoft Learn module on WVD or the overall WVD documentation for more information.

VM Sizing Recommendations

Multi-session sizing recommendations

Workload type	Maximum users per vCPU	vCPU/RAM/OS storage minimum	Example Azure instances	Profile container storage minimum
Light	6	2 vCPUs, 8 GB RAM, 16 GB storage	D2s_v3, F2s_v2	30 GB
Medium	4 – 16 users p/ host	4 vCPUs, 16 GB RAM, 32 GB storage	D4s_v3, F4s_v2	30 GB
Heavy	2	4 vCPUs, 16 GB RAM, 32 GB storage	D4s_v3, F4s_v2	30 GB
Power	1	6 vCPUs, 56 GB RAM, 340 GB storage	D4s_v3, F4s_v2, NV6	30 GB

aka.ms/wvdsizingrecommendations

Single-session sizing recommendations

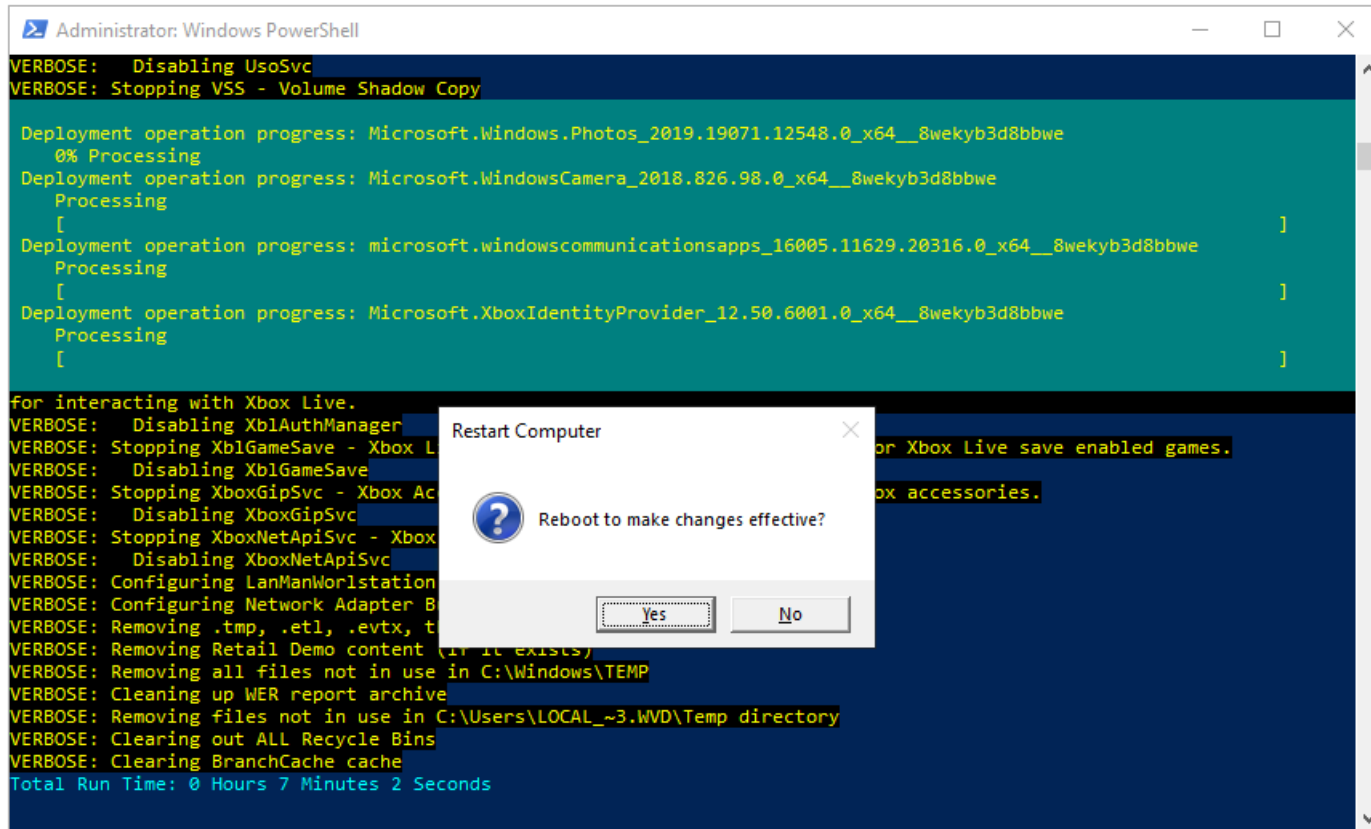
For VM sizing recommendations for single-session scenarios, we recommend at least **two physical CPU cores** per VM (**typically four vCPUs with hyperthreading**). *For RAM we see that 8 GB becomes the standard in virtual desktop environments. D2s_v3 could be a good start.*

*If you need more specific VM sizing recommendations for single-session scenarios, ask the software vendors e.g. **LoginVSI** specific to your workload. VM sizing for single-session VMs will likely align with physical device guidelines.*

Virtual Desktop Optimization Tool

The Virtual Desktop Team

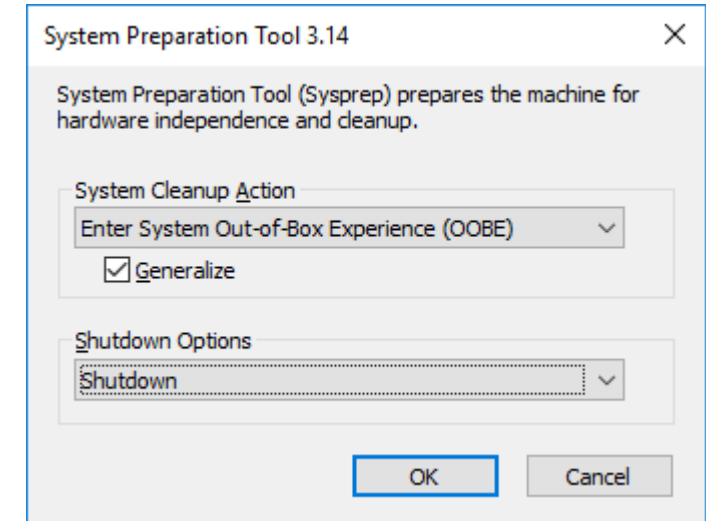
Virtual Desktop Optimization Tool (community tool)



```
Administrator: Windows PowerShell
VERBOSE: Disabling UsbSvc
VERBOSE: Stopping VSS - Volume Shadow Copy

Deployment operation progress: Microsoft.Windows.Photos_2019.19071.12548.0_x64__8wekyb3d8bbwe
0% Processing
Deployment operation progress: Microsoft.WindowsCamera_2018.826.98.0_x64__8wekyb3d8bbwe
Processing
[
Deployment operation progress: microsoft.windowscommunicationsapps_16005.11629.20316.0_x64__8wekyb3d8bbwe
Processing
[
Deployment operation progress: Microsoft.XboxIdentityProvider_12.50.6001.0_x64__8wekyb3d8bbwe
Processing
[

for interacting with Xbox Live.
VERBOSE: Disabling XblAuthManager
VERBOSE: Stopping XblGameSave - Xbox L
VERBOSE: Disabling XblGameSave
VERBOSE: Stopping XboxGipSvc - Xbox Ac
VERBOSE: Disabling XboxGipSvc
VERBOSE: Stopping XboxNetApiSvc - Xbox
VERBOSE: Disabling XboxNetApiSvc
VERBOSE: Configuring LanManWorlstation
VERBOSE: Configuring Network Adapter B
VERBOSE: Removing .tmp, .etl, .evtx, t
VERBOSE: Removing Retail Demo content (if it exists)
VERBOSE: Removing all files not in use in C:\Windows\TEMP
VERBOSE: Cleaning up WER report archive
VERBOSE: Removing files not in use in C:\Users\LOCAL~3\WVD\Temp directory
VERBOSE: Clearing out ALL Recycle Bins
VERBOSE: Clearing BranchCache cache
Total Run Time: 0 Hours 7 Minutes 2 Seconds
```



System Preparation Tool 3.14

System Preparation Tool (Sysprep) prepares the machine for hardware independence and cleanup.

System Cleanup Action

Enter System Out-of-Box Experience (OOBE) ▾

☒ Generalize



Shutdown Options

Shutdown ▾

OK Cancel

[Home](#) > [Microsoft 365](#) > [Windows Virtual Desktop](#)

> (Windows) Virtual Desktop Optimization Tool now available

 (English) English ▾ 

Conversation Options ▾

(Windows) Virtual Desktop Optimization Tool now available



[Christiaan_Brinkhoff](#) MICROSOFT 07-31-2020 07:45 AM - edited 08-31-2020 12:59 AM



(Windows) Virtual Desktop Optimization Tool now available  



Virtual Desktop Optimization Tool

Optimizing images has always been an important component of preparing images as part of a traditional Remote Desktop Services (RDS) infrastructure or virtual desktop infrastructure (VDI). Optimizing session hosts, in particular, can increase user density and eventually lower costs. With the [Virtual Desktop Optimization Tool](#), you can optimize your Windows 10, version 2004 multi- and single-session deployments in Windows Virtual Desktop.

Note: The information in this post is community-driven; nothing has yet been officially launched by the Windows Virtual Desktop product team. Credit goes to [Robert M. Smith](#) and [Tim Muessig](#) from Microsoft, previously known as the VDIguys, for creating this tool and make it available for free for the community.

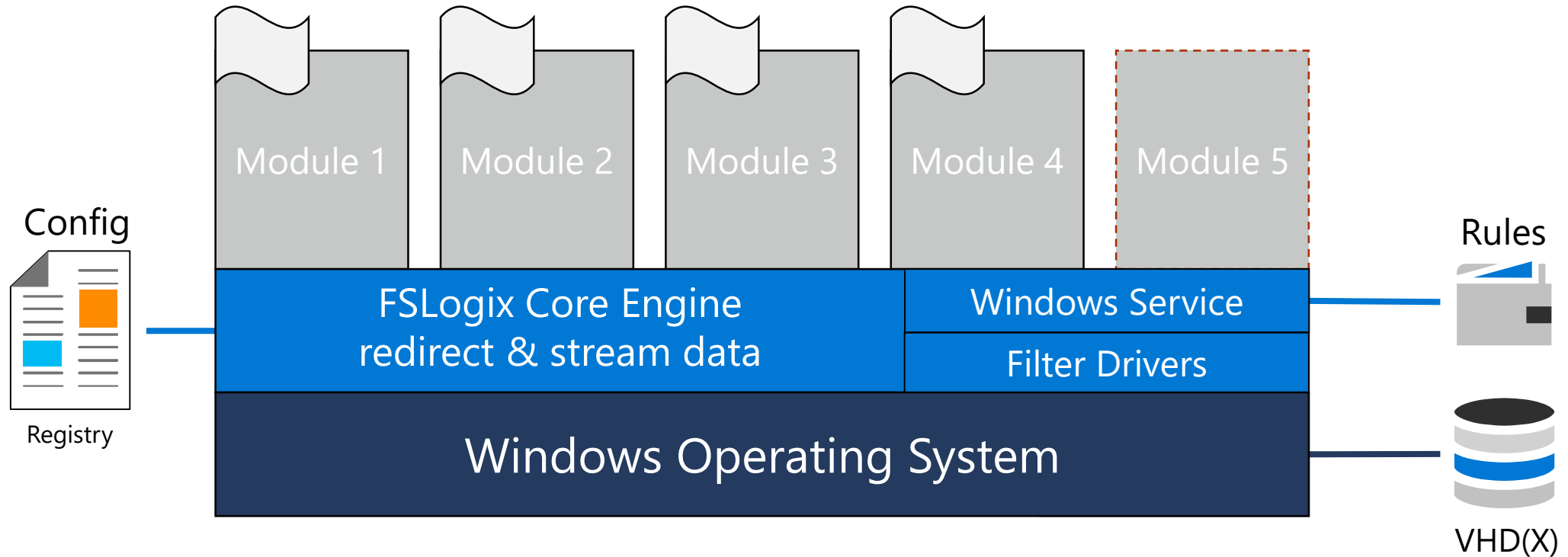
Share



Go to aka.ms/optimizewvd

FSLogix Best Practices

FSLogix Agent Architecture



To the operating system, FSLogix Containers attach as in-guest VHD(X)s and they are indistinguishable from local folders

Managed Storage options for FSLogix

Features	Azure Files	Azure NetApp Files	Storage Spaces Direct
Use case	General purpose	Ultra performance or migration from NetApp on-premises	Cross-platform
Platform service	Yes, Azure-native solution	Yes, Azure-native solution	No, self-managed
Regional availability	All regions	Select regions	All regions
Redundancy	Locally redundant/zone-redundant/geo-redundant	Locally redundant	Locally redundant/zone-redundant/geo-redundant
Tiers and performance	Standard Premium Up to max 100k IOPS per share with 5 GBps per share at about 3 ms latency	Standard Premium Ultra Up to 320k (16K) IOPS with 4.5 GBps per volume at about 1 ms latency	Standard HDD: up to 500 IOPS per-disk limits Standard SSD: up to 4k IOPS per-disk limits Premium SSD: up to 20k IOPS per-disk limits We recommend Premium disks for Storage Spaces Direct
Capacity	100 TiB per share	100 TiB per volume, up to 12.5 PiB per subscription	Maximum 32 TiB per disk
Azure networking limits	None	1000 Routable IPs per vNet	None
Required infrastructure	Minimum share size 1 GiB	Minimum capacity pool 4 TiB, min volume size 100 GiB	Two VMs on Azure IaaS (+ Cloud Witness) or at least three VMs without and costs for disks
Protocols	SMB 2.1/3. and REST	NFSv3, NFSv4.1 (preview), SMB 3.x/2.x	NFSv3, NFSv4.1, SMB 3.1
Azure Active Directory integration	Native Active Directory and Azure Active Directory Domain Services	Azure Active Directory Domain Services and Native Active Directory	Native Active Directory or Azure Active Directory Domain Services support only

Required configuration options

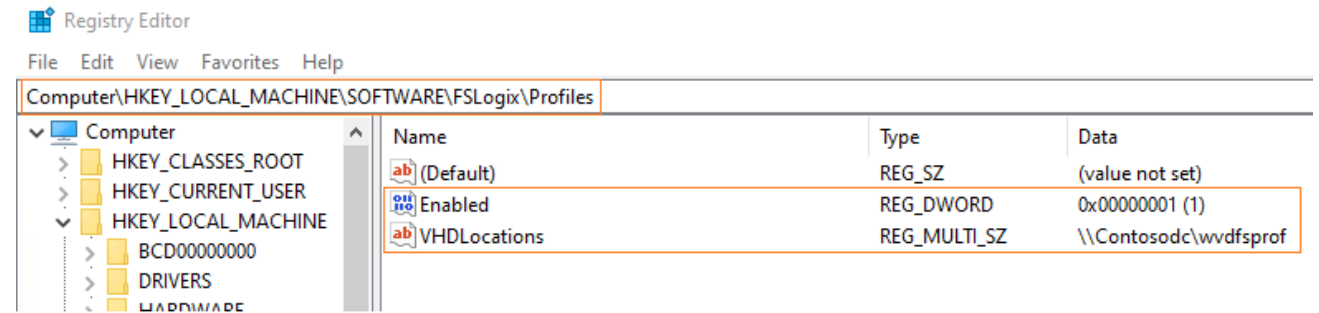
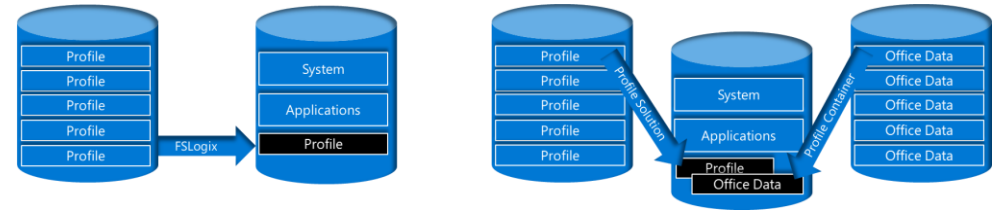
- The configuration is accomplished through:
 - Registry settings (can be managed manually)
 - GPOs

- **Enabled**

- 1 is on, 0 is off

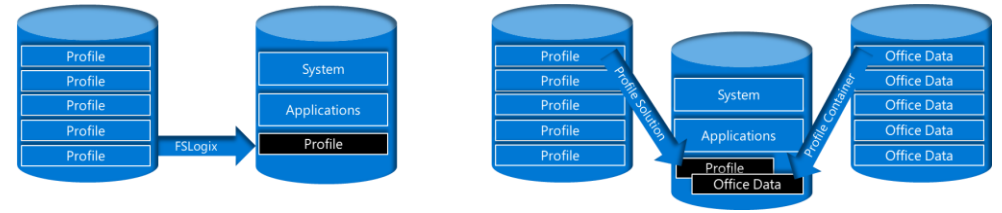
- **VHDLocations**

- 1 or more SMB Locations
 - These will be accessed in order, the first available location will be used



More info at aka.ms/fslogix

Important configuration options



- **DeleteLocalProfileWhenVHDSouldApply**
 - This setting will cause a local profile, if it exists, to be deleted and an FSLogix container be created and used. The local profile is NOT copied to the FSLogix profile.
- **SizeInMBs**
 - Change the max. size of the container
- **FlipFlopProfileDirectoryName**
 - Change the SMB folder structure to username_SID for better searching
- **VolumeType**
 - Change the format to VHDx

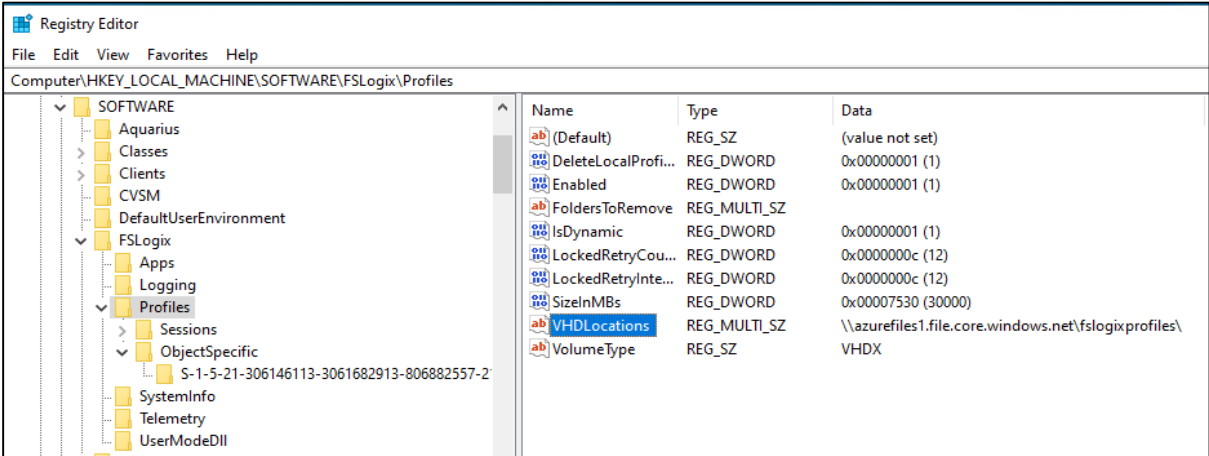
Azure Files – sizing recommendations

- Storage account name cannot be larger than 15 characters (AD/NETBIOS limit)
- Azure Files standard and Premium operate different
 - *Azure Files standard >> 10,000 IOPs*
 - *Premium Files >> based on size - consumption – max. 100,000 IOPs*
- The (internal) rule of the thumb is that one user consumes **10 IOPS in Steady state** and **50 IOPS** Sign in/sign out IOPS (depending on the type of workload)

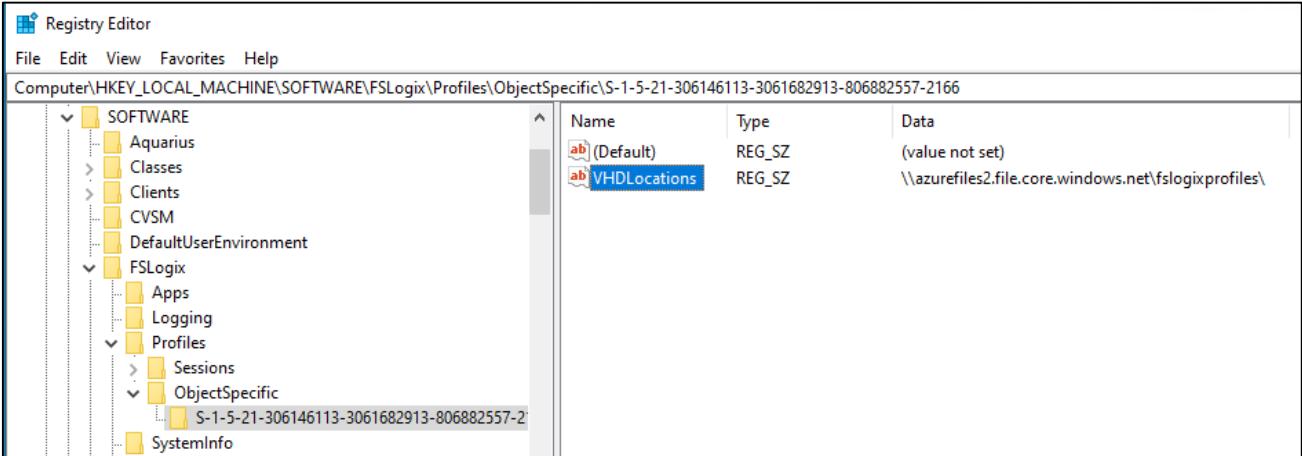
Workload type	File Tiers
Light	Standard file shares
Medium	Standard file shares Premium file shares
Heavy	Premium file shares
Power	Premium file shares

FSlogix and Azure Files - stack

Azure Files – storage account 1 (10k IOPs)



Azure Files – storage account 2 (+10k IOPs)



Registry configuration	Resultant message in log file
Setting specific to user or group	Configuration Read (REG_SZ): SOFTWARE\FSLogix\Profiles\ObjectSpecific\S-1-5-21-306146113-3061682913-806882557-2166\VHDLocations. Data: VHD

More info at aka.ms/fslogix

FSLogix AV Exclusions

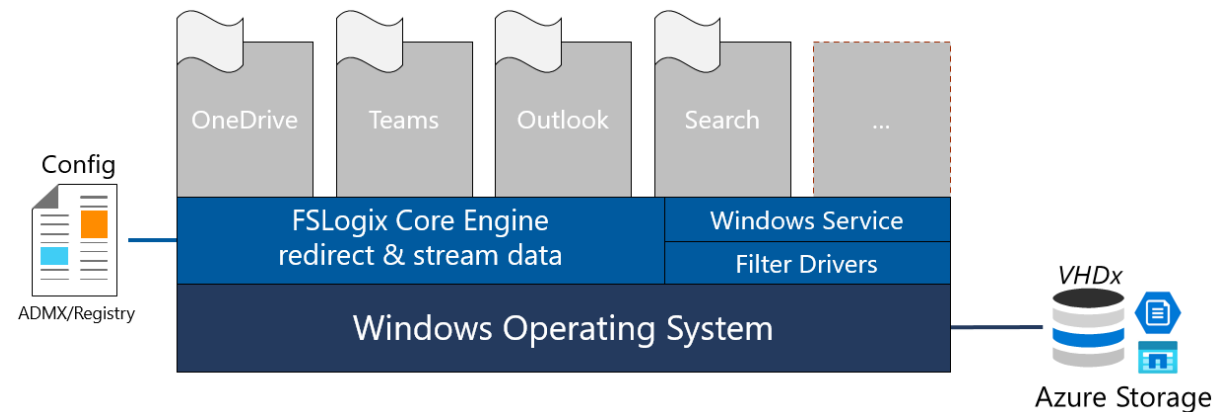
Make sure to configure the following Antivirus exclusions for FSLogix Profile Container – virtual hard drives. *Make sure to pass the following information against your security team.*

- **Exclude Files:**

- %ProgramFiles%\FSLogix\Apps\frxdrv.sys
- %ProgramFiles%\FSLogix\Apps\frxdrvvt.sys
- %ProgramFiles%\FSLogix\Apps\frxccd.sys
- %TEMP%*.VHD
- %TEMP%*.VHDX
- %Windir%\TEMP*.VHD
- %Windir%\TEMP*.VHDX
- [\\storageaccount.file.core.windows.net\share*/*.VHD](https://storageaccount.file.core.windows.net/share/*/*.VHD)
- [\\storageaccount.file.core.windows.net\share*/*.VHDX](https://storageaccount.file.core.windows.net/share/*/*.VHDX)

- **Exclude Processes**

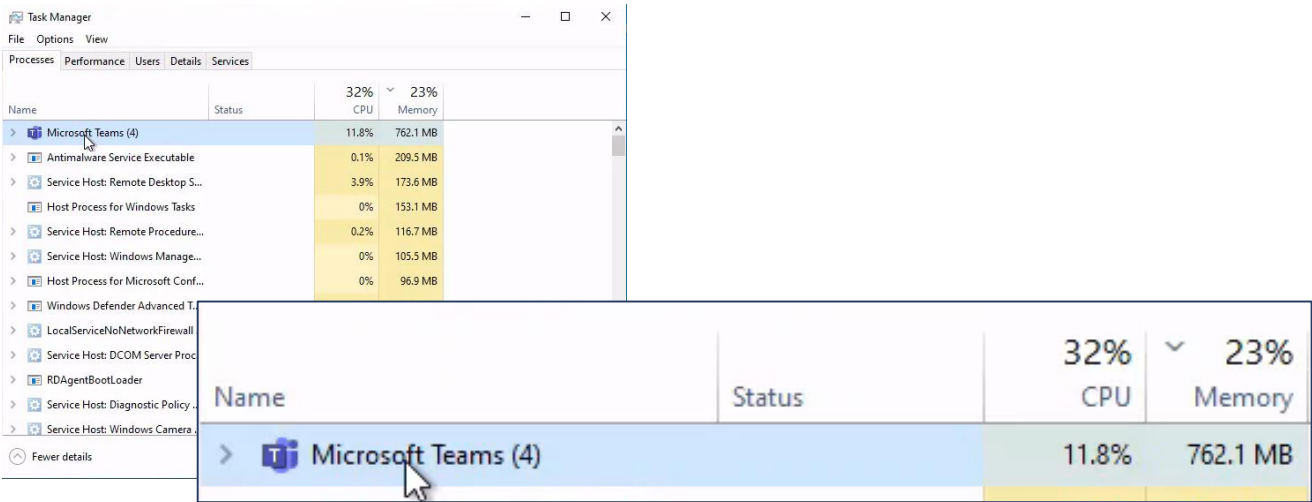
- %ProgramFiles%\FSLogix\Apps\frxccd.exe
- %ProgramFiles%\FSLogix\Apps\frxccds.exe
- %ProgramFiles%\FSLogix\Apps\frxsvc.exe



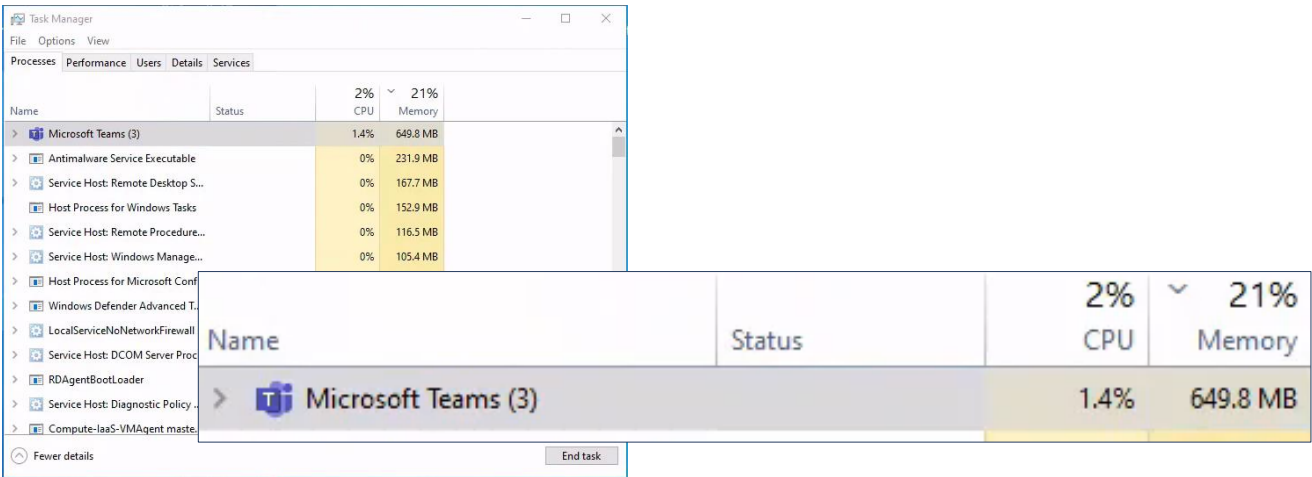
Teams Best Practices

Microsoft Teams and Windows Virtual Desktop

Before Teams Optimizations:
~12% CPU



With Teams Optimizations:
~1.5% CPU



Prepare network

Teams is designed to give the best audio, video, and content sharing experience regardless of your network conditions. That said, when bandwidth is insufficient, Teams prioritizes audio quality over video quality.

Bandwidth(up/down)	Scenarios
30 kbps	Peer-to-peer audio calling
130 kbps	Peer-to-peer audio calling and screen sharing
500 kbps	Peer-to-peer quality video calling 360p at 30fps
1.2 Mbps	Peer-to-peer HD quality video calling with resolution of HD 720p at 30fps
1.5 Mbps	Peer-to-peer HD quality video calling with resolution of HD 1080p at 30fps
500kbps/1Mbps	Group Video calling
1Mbps/2Mbps	HD Group video calling (540p videos on 1080p screen)

Teams exclusions

Make sure data in these two folders are synced:

- C:\Users\username\AppData\Local\Microsoft\IdentityCache (%localAppdata%\Microsoft\IdentityCache)
- C:\Users\username\AppData\Roaming\Microsoft\Teams (%appdata%\Microsoft\Teams)

Exclude the following from the Teams caching folder, %appdata%/Microsoft/Teams. Excluding these items helps reduce the user caching size to further optimize your non-persistent setup.

- .txt files
- Media-stack folder
- meeting-addin\Cache (%appdata%\Microsoft\Teams\meeting-addin\Cache)

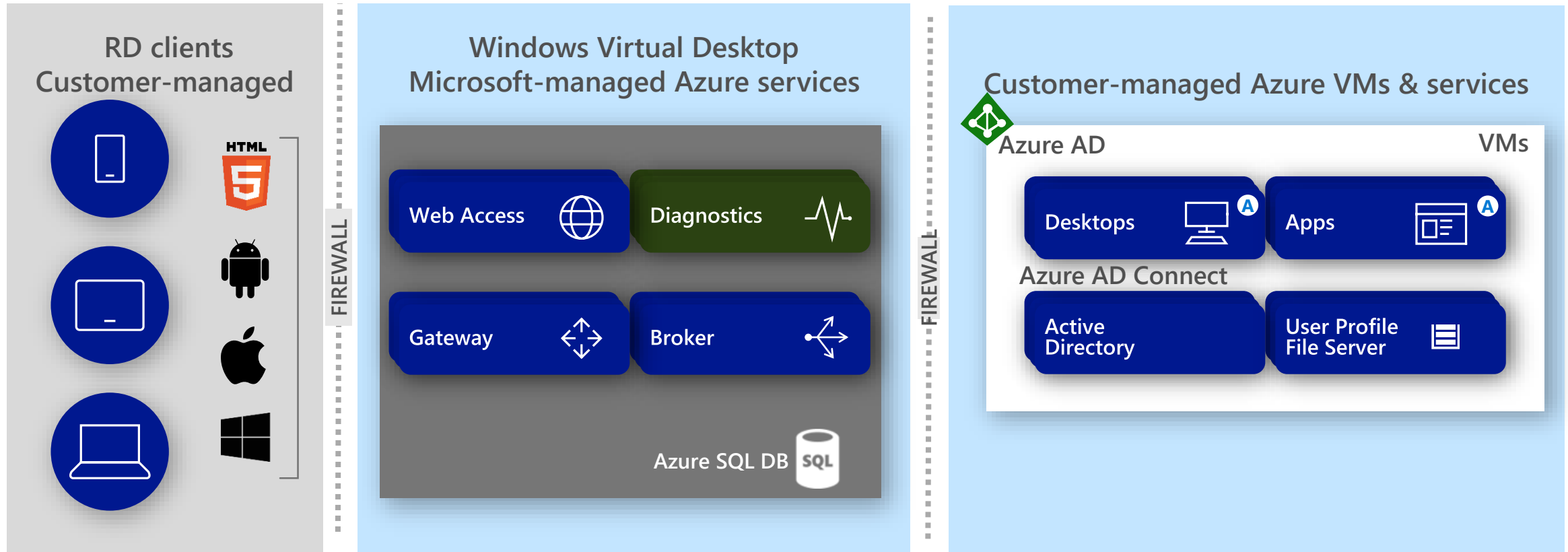
Tips for Troubleshooting

Domain join errors

1. **Verify the AD permissions** for the domain account. In some enterprises the account being used to join the domain is not a domain admin and only has limited rights to a specific OU for create and delete of objects
2. If you receive a domain join failure, ensure that credentials are correct. **Try to join the VM directly to the domain from within the VM to verify rights.**
3. **Attempt to provision a new windows machine** with just the Azure portal and manually domain join the machine in the exact OU that the admin states he/she has permissions to.
4. **Attempt to use another elevated account** from an IT person that has rights with other OU

Diagnostics within the service architectural diagram

Diagnostics is a feature of the managed Azure Service



Enable Diagnostics

Windows Virtual Desktop - Host pools

Search (Ctrl+/)

Overview

Manage

- Host pools
- Application groups
- Workspaces

Users

+ Add Edit columns ...

Filter by name...

Name ↑↓

0224HP

0224HP - Diagnostic settings

Host pool

Search (Ctrl+/)

Refresh Provide feedback

Diagnostic settings are used to configure streaming export of platform logs and metrics for a resource to the destination of your choice. You may create up to five different diagnostic settings to send different logs and metrics to independent destinations. [Learn more about diagnostics settings](#)

Diagnostics settings

Name	Storage account	Event hub	Log Analytics workspace	Edit setting
0224HPDiagnostics	-	-	0224ws-westus2	Edit setting

+ Add diagnostic setting

Click 'Add Diagnostic setting' above to configure the collection of the following data:

- Checkpoint
- Error
- Management
- Connection
- HostRegistration

Settings

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

Manage

- Properties
- Locks
- Export template

Monitoring

- Diagnostic settings

Support + troubleshooting

- New support request

WVD Monitoring

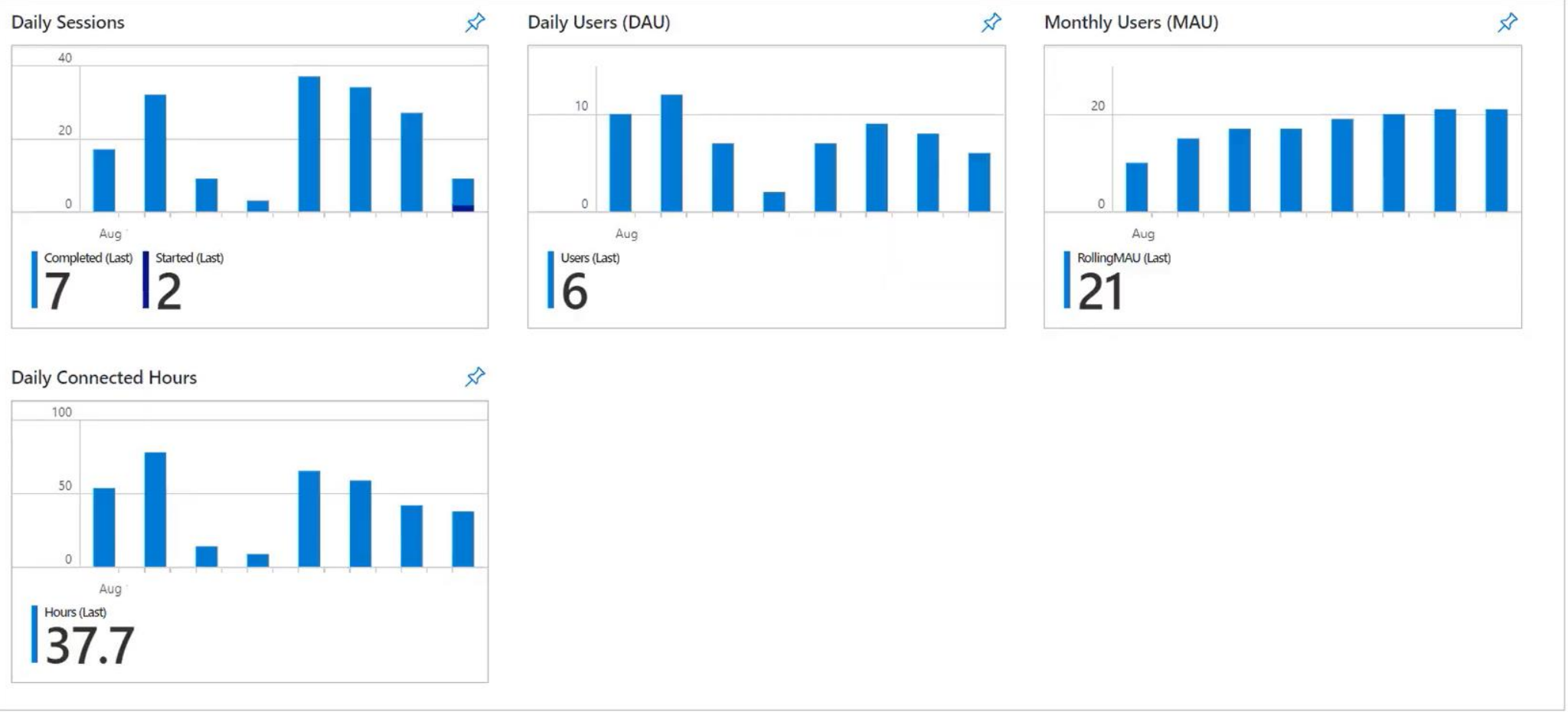
Azure Workbook | Directory: Microsoft

Search (Ctrl+)

- Overview
- Activity log
- Access control (IAM)
- Tags
- Workbook
- Settings
 - Locks
- Support + troubleshooting
 - New support request

- Overview
- Connection Diagnostics
- Connection Performance
- Host Diagnostics
- Host Performance
- User Report
- Capacity Planning

Trends



Pool Health Overview

HostPoolType	MaxSessionLimit
Shared	99999

wvdwesteuM365j536930 | Logs Log Analytics workspace

Search (Ctrl+/)

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

Settings

- Locks
- Export template
- Agents management
- Advanced settings

General

- Quick Start
- Workspace summary
- View Designer
- Workbooks

Logs

- Solutions
- Saved searches
- Pricing tier
- Usage and estimated costs
- Properties

New Query 1

wvdwesteuM365j536930

Select scope

Run

Time range : Last 24 hours

Save

Copy link

New alert rule

Export

Pin to dashbo...

Format qu

Tables

Queries

Filter

Search

Group by: Solution Filters: not selected

Favorites

You can add favorites by clicking on the ☆ icon

- LogManagement
- VMInsights
- Custom Logs

```
WVDCConnections
| project-away TenantId,SourceSystem
| summarize arg_max(TimeGenerated, *) , StartTime = min(iff(State== 'Started', TimeGenerated , datetime(null) )), ConnectTime =
| join kind=leftouter (
    WVDErrors
    | summarize Errors=makelist(pack('Code', Code, 'CodeSymbolic', CodeSymbolic, 'Time', TimeGenerated, 'Message', Message , 'Ser
    ) on CorrelationId
| join kind=leftouter (
    WVDCheckpoints
    | summarize Checkpoints=makelist(pack('Time', TimeGenerated, 'Name', Name, 'Parameters', Parameters, 'Source', Source)) by C
    | mv-apply Checkpoints on
    (
        order by todatetime(Checkpoints['Time']) asc
        | summarize Checkpoints=makelist(Checkpoints)
    )
    ) on CorrelationId
| project-away CorrelationId1, CorrelationId2
| order by TimeGenerated desc
```

Results

Chart

Columns

Display time (UTC+00:00)

Group columns

Completed. Showing results from the last 24 hours.

00:00:00.466

20 records

TimeGenerated [UTC]	CorrelationId	UserName	State	ClientOS	CI
> 6/10/2020, 7:55:48.538 AM	2eed3681-6404-4c20-b144-0e95b5a91500	Bill.Smith@M365j536930.onmicrosoft.com	Completed	Windows 10 Chrome 83.0.4103.97	1.0
> 6/10/2020, 7:45:01.531 AM	2eed3681-6404-4c20-b144-0e95b5a91400	Bill.Smith@M365j536930.onmicrosoft.com	Completed	Windows 10 Chrome 83.0.4103.97	1.0
> 6/10/2020, 7:40:33.532 AM	2eed3681-6404-4c20-b144-0e95b5a91300	Bill.Smith@M365j536930.onmicrosoft.com	Completed	Windows 10 Chrome 83.0.4103.97	1.0
> 6/10/2020, 7:39:44.531 AM	2eed3681-6404-4c20-b144-0e95b5a91200	Bill.Smith@M365j536930.onmicrosoft.com	Completed	Windows 10 Chrome 83.0.4103.97	1.0
> 6/10/2020, 7:35:23.532 AM	2eed3681-6404-4c20-b144-0e95b5a91100	Bill.Smith@M365j536930.onmicrosoft.com	Completed	Windows 10 Chrome 83.0.4103.97	1.0

Call to Action

Call to Action

Azure Architecture Center

Azure Architecture Center provides guidance for architecting solutions on Azure using established patterns and practices.

Windows Virtual Desktop resources to explore

Overview:

aka.ms/wvd

WVD Best Practices

aka.ms/wvdbestpractices

FSlogix Best Practices

aka.ms/fslogixbestpractices

Microsoft Learn

aka.ms/learnwvd

WVD Quickstart tool

aka.ms/wvdquickstart

Microsoft Mechanics:

microsoft.com/mechanics

Q&A

Please submit your questions into the Q&A window. We have Subject Matter Experts ready to answer your questions.



Thank you for joining us.