

November 13-15, Oslo Spektrum

## Marcel Meurer

Reach out to the sky with Azure Virtual Desktop



## About me

#### Focus on:

- Azure Virtual Desktop
- Community tools

#### From:

- Germany

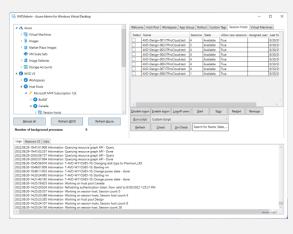
#### **Business:**

- Consulting
- Development
- Community

#### Connect:

- www.linkedin.com/in/marcelmeurer/
- x.com/MarcelMeurer
- <u>blog.ITProCloud.de</u>















## Agenda

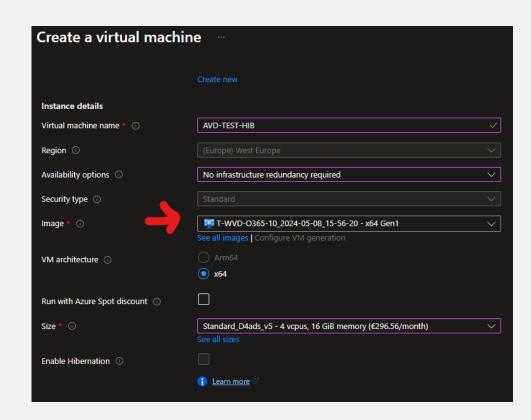
## What was new\* in the last months

- Hibernation
- Multi-Media redirection, New AppAttach, ...
- Last minute previews
- Entra ID only access
- Azure Stack HCI & AVD
- •





- Only for specific Azure Images
- Not available for custom images \*
- Workaround to use custom images

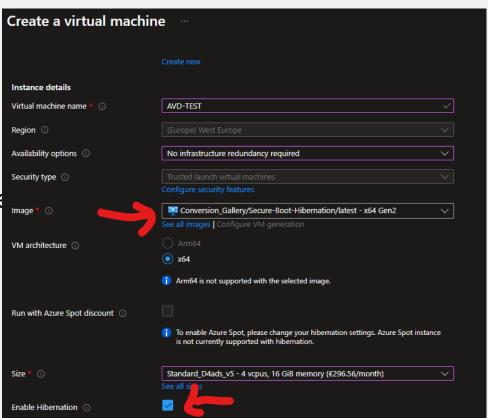




## Custom images?

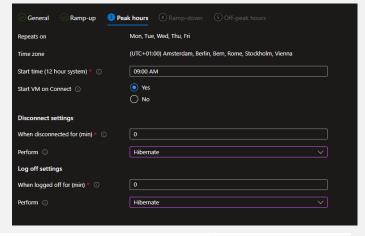
## Yes:

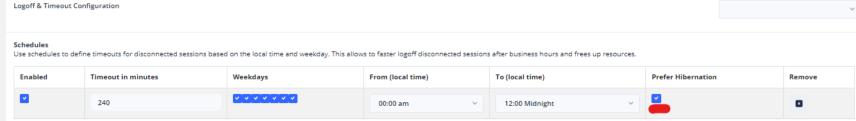
- Using Azure Compute Gallerie
- Create a fitting definition





Configuring Autoscale with Hibernation



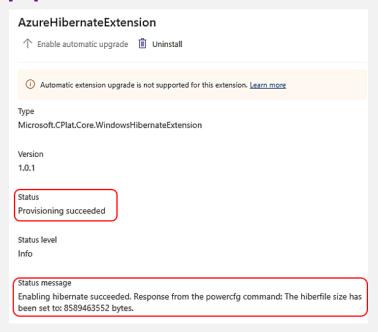




Some potential issues with Credential Guard

Fix: Install the Hyper-V role 😬





https://learn.microsoft.com/en-us/azure/virtual-machines/windows/hibernate-resume-troubleshootingwindows



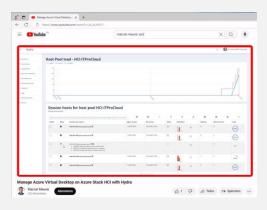


# Multimedia redirection advanced



## Multimedia redirection advanced

- Redirection of videos and audio
- Call redirection (some websites, insider release)
- Youtube, Teams, ...



https://learn.microsoft.com/en-us/azure/virtual-desktop/multimedia-redirection-intro



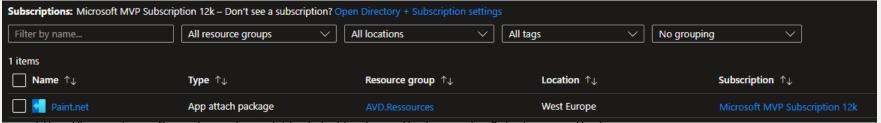


# The "New" AppAttach



## The "New" AppAttach

- One app to any host pool (in the same region)
- Assigned per user/group
- Update on the fly
- Entra ID only is supported



https://learn.microsoft.com/en-us/azure/virtual-desktop/app-attach-overview?pivots=app-attach

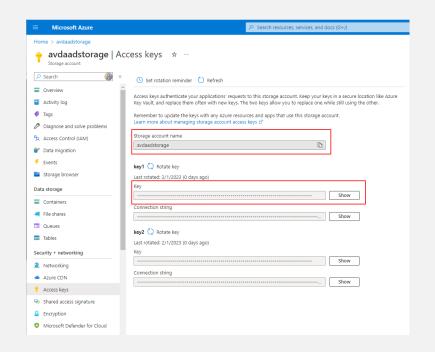




## Entra-Id only & FSLogix 💷



## Entra-Id only & FSLogix



### Situation:

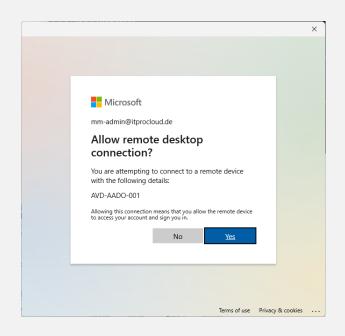
- Doesn't work by design
- User's identity today is not known by Azure files

#### Workaround:

- Configure FSLogix to run in the system account
- Give system account storage account identity
- Only use one storage account for profiles and not for other data
- https://blog.itprocloud.de/Using-FSLogix-fileshares-with-Azure-AD-cloud-identities-in-Azure-Virtual-Desktop-AVD/



## Entra-Id only & FSLogix

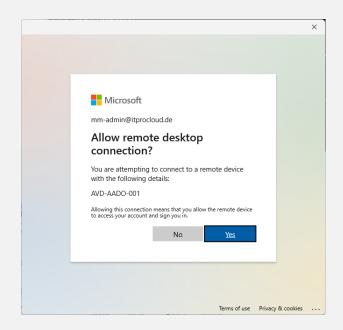


## And:

- By default, Entra asked to allow logon to a specific host
  - Also for synced identities!
- Remembers the last 15 hosts
- Remembers for 30 day
- Solved by using SSO for AVD
- Hint: Documentation has an error



## Entra-Id only & FSLogix



## The issue in the documentation:



## Correct is:

```
Connect-MgGraph -Scopes
"Application.Read.All", "Application-
RemoteDesktopConfig.ReadWrite.All", "Directory.Read.All"
```

https://learn.microsoft.com/en-us/azure/virtual-desktop/configure-single-sign-on





# Clipboard transfer directions



## Clipboard transfer directions

#### Options (per user or per host)

- Disable clipboard transfers from session host to client, client to session host, or both
- Allow plain text only
- Allow plain text and images only
- Allow plain text, images, and Rich Text Format only
- Allow plain text, images, Rich Text Format, and HTML only

#### Prerequisites:

- Windows 11 / Server 2022 from a specific release/update
- Configure with Intune, GPO, or RegKeys
- Related to: Watermarking and Screen Capture Protection



- Your session hosts must be running one of the following operating systems:
- Windows 11 Enterprise or Enterprise multi-session, version 22H2 or 23H2 with the 2024-06 cumulative update (KB5039212) <sup>2</sup> or later installed.
- Windows 11 Enterprise or Enterprise multi-session, version 21H2 with the 2024-06 cumulative update (KB5039213) <sup>®</sup> or later installed.
- o Windows Server 2022 with the 2024-07 cumulative update (KB5040437) ♂ or later installed.



https://learn.microsoft.com/en-us/azure/virtual-desktop/clipboard-transfer-direction-data-types



# The Windows Lock Screen



## The Windows Lock Screen

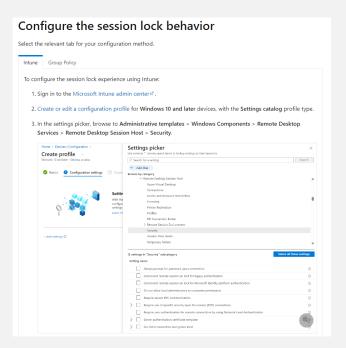
Lock screen vs. disconnected

Active Directory login (called legacy)

Lockscreen is shown

Entra ID with Single-Sign-on

User is disconnected – for security reasons



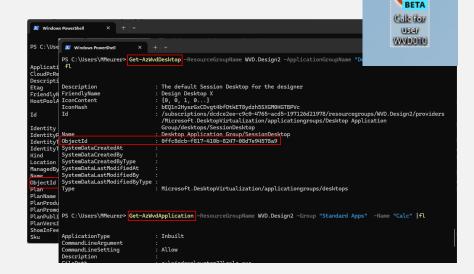
 https://learn.microsoft.com/en-us/azure/virtual-desktop/configure-session-lockbehavior

## Uniform Resource Identifier 🐣



## Uniform Resource Identifier

- Access Desktop or apps directly
- Link on the desktop
- Linkt on the start menu
- Note: Documentation has a lack



- Command line:
- ms-avd:connect?workspaceId=3ea768c3-3cf4-402c-b7cd-0928386ed8f9&resourceid=d0035de7-690a-4bd8-7cf2-08d87088142a&username=wvd010@itprocloud.de&version=0

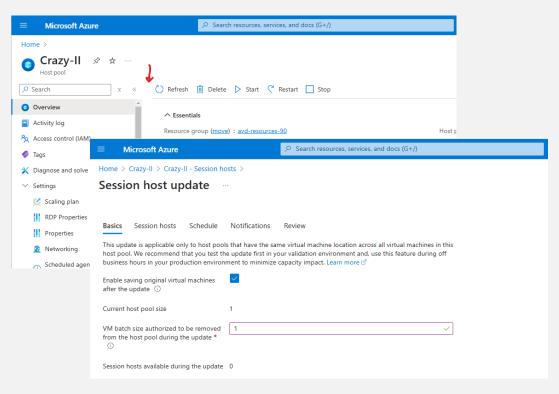




# Session Host Update V2 🚓 (preview)



# Session Host Update V2 🖧



- A new type of host pool: Auto managed
- No registration key
- Add and replace hosts managed by Azure
- Batch processing
- Careful: I found some lost resources



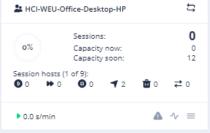
# Azure Stack HCI & AVD



- Support from 23H2
- Autoscaling native in the Azure Portal is available
- Challenge: Golden Master Approach / Custom Images

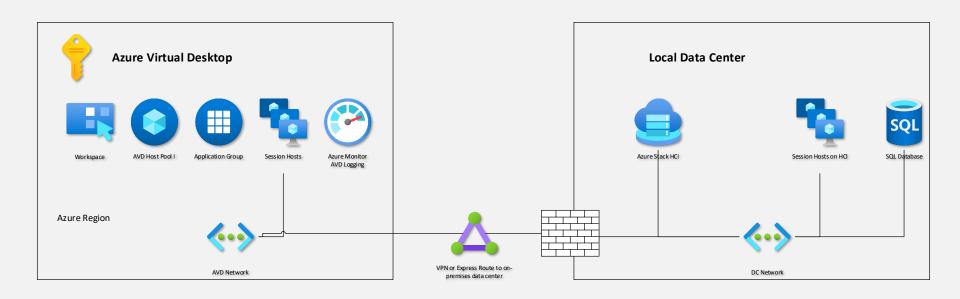
My way to go:
Using Hydra for Azure Virtual Desktop

#### **HCI Lab**

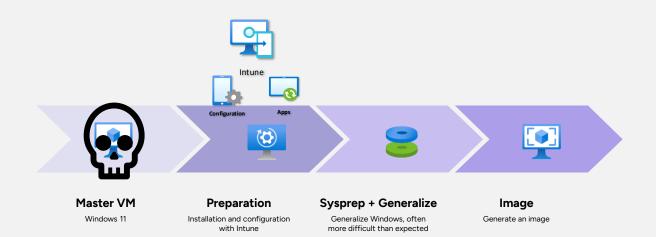




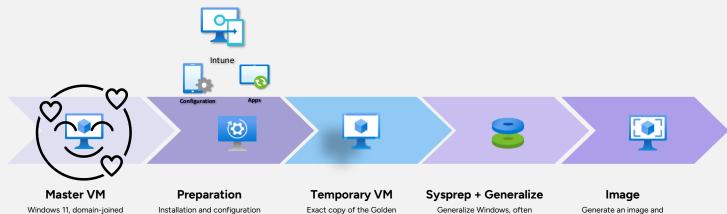












Master

more difficult than expected

- Makes a copy from the Golden Master
- Works with the copy (temporary VM)
  - Sysprep

or not

- Generalization & grab the image
- Remove temporary VM

with Intune

· The Golden Master can be reused

Generate an image and upload to HCI





# Retirements and Breaking Changes 🔒

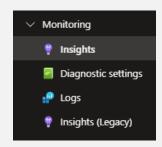




# Retirements and Breaking Changes

- Azure Log Analytics Agent August 2024
  - Uninstall the old Log Analytics Agent
  - Prepare the configuration for the new AMA (right insights)
  - Deploy the new agent
  - Or redeploy with the new agent (also available in Hydra)

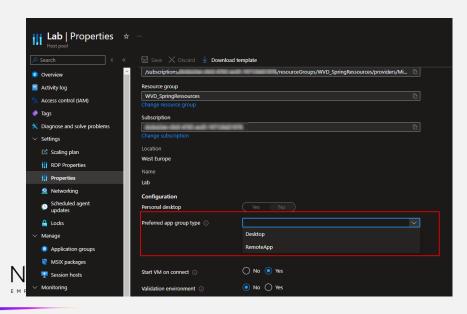






## Retirements and Breaking Changes

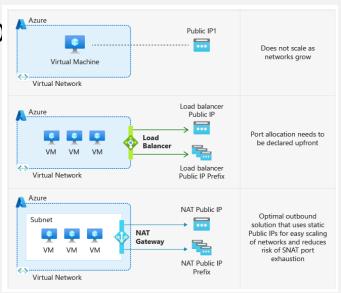
- Preferred App Group Type around July
  - A single user to a pool can only see the desktop or the remote apps





# Retirements and Breaking Changes

- Azure Default Outbound September 20
  - No Internet access by default
  - You need one of the following methods:
    - Public IP
    - Load-balancer
    - NAT Gateway (#1)
    - Router / Appliance



# Thanks a lot 🙏

www.linkedin.com/in/marcelmeurer/ x.com/MarcelMeurer blog.ITProCloud.de

