



Azure Virtual Desktop

2021



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M Cloud



Agenda

- What is AVD ?
- Requirements for AVD
- Technology Overview
- Our team

What is Azure Virtual Desktop (AVD)

- An Azure Cloud Service to publish desktops and applications
- The only VDI solution that Offers Windows multisesion
- Offers Windows 7 VDI with free security updates
- Optimized for Office 365 and Teams
- Create/Bring your own OS image or use an Azure Gallery OS image
- Worldwide availability

Supported OS images

- Windows 11 Enterprise multi-session (Preview)
- Windows 11 Enterprise (Preview)
- Windows 10 Enterprise multi-session
- Windows 10 Enterprise
- Windows 7 Enterprise
- Windows Server 2022
- Windows Server 2019
- Windows Server 2016
- Windows Server 2012 R2

Licensing

OS	Required License
Windows 10 Enterprise multi-session or Windows 10 Enterprise	Microsoft 365 E3, E5, A3, A5, F3, Business Premium Windows E3, E5, A3, A5
Windows 7 Enterprise	Microsoft 365 E3, E5, A3, A5, F3, Business Premium Windows E3, E5, A3, A5
Windows Server 2012 R2, 2016, 2019, 2022	RDS Client Access License (CAL) with Software Assurance

Difference between traditional VDI/RDS and DaaS

Traditional VDI	Desktop As A Service	
Entitlement	Entitlement	Managed by Partner
Brokering	Image Management	
Image Management	Brokering	Managed by Microsoft
Licensing	Licensing	
Maintenance	Maintenance	
Network	Network	
Servers/Storage	Servers/Storage	
Hosting	Hosting	

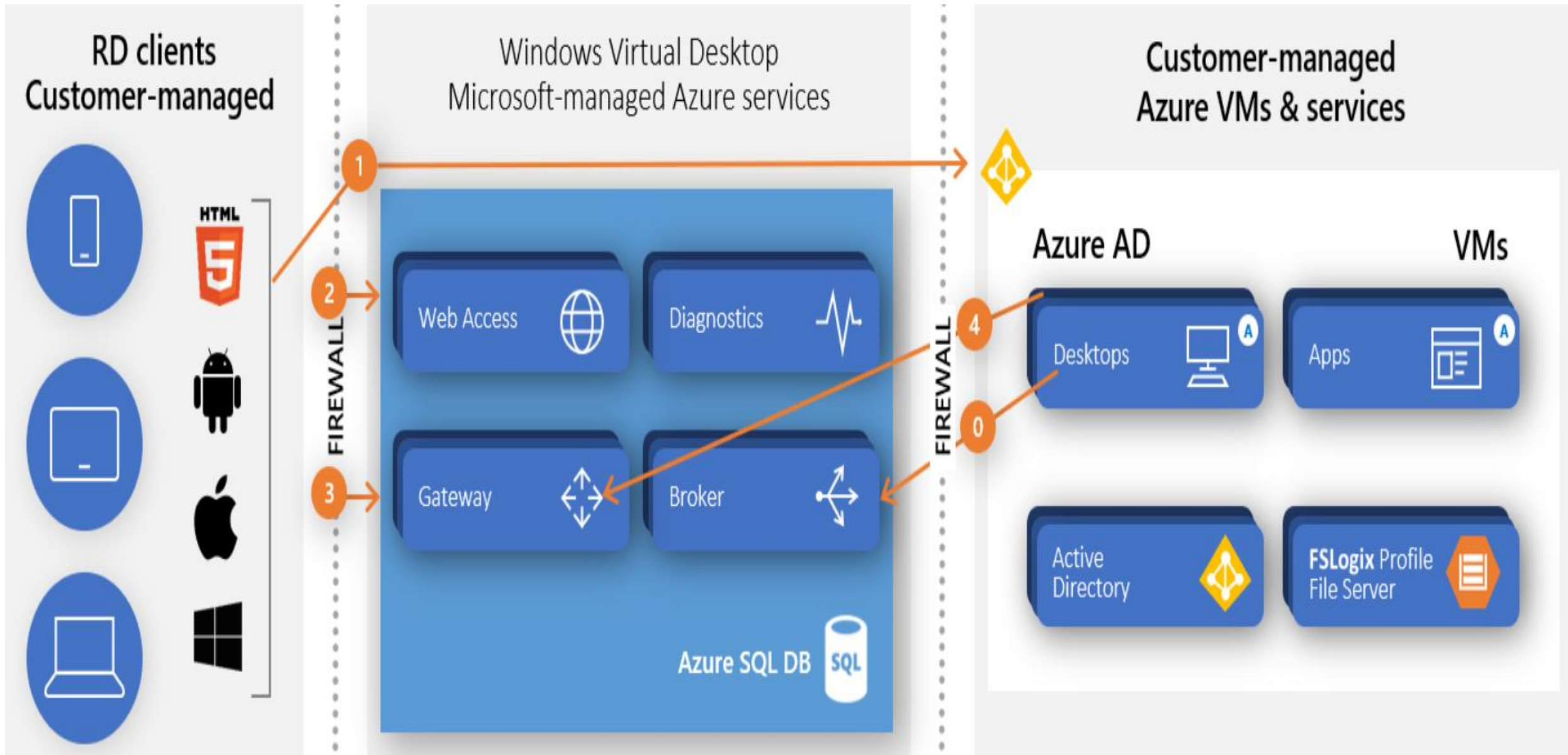
Connectivity

- A client for several OS'es are available (Windows, Android, Apple)
- Connect via any HTML5 capable browser
- AVD machines need to be domain joined (Azure AD join in preview)

Improved Isolation: Reverse Connect

- Connect securely to the AVD machine over port 443
- bidirectional communication between AVD VM's and AVD backend infra over https (443)
- No inbound ports need to be opened to the customer environment

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Host Pools


- AVD VM's are stored in collections called Host Pools
- Machines in the Host Pools should be of the same OS and config
- You can create as many Host Pools as needed
- For example 1 Host Pool for W7 machines, one for W10, another for GPU machines,...
- Host Pools can be in 2 types: Persistent or Pooled
- A Validation Host Pool is recommended to test changes/updates/fixes before deploying them to all your Host Pools
- An Autoscaling feature is available for up and downscaling to save on costs

User Profiles

- AVD uses FSLogix profile containers to store user profiles
- This is a redirection of the user profile to a remote location (VHD stored on a file share)
- The user profile as such is completely separated from the VM and is mounted upon user login to the VM
- This improves login/logoff times for users
- The pooled VM's as such are expendable (depends on application provisioning)




Traditional Application Provisioning



Current option 1: Multiple images by role

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
- High overhead



Current option 2: Mega single image with hidden apps

OPTION 2
Traditional App layering

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



Current option 3: Streaming apps

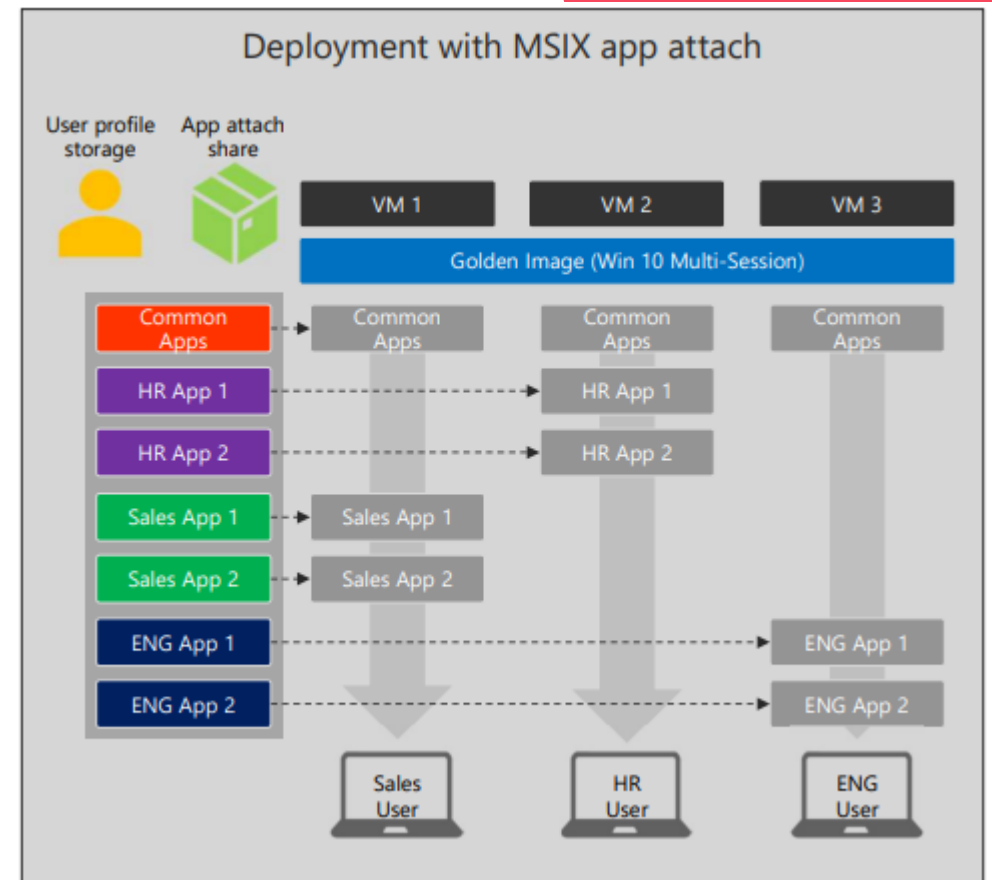
OPTION 3
App streaming

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

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MSIX App Attach – What is it ?

- MSIX App Attach is a new App delivery feature
- Leverages FSLogix concepts but for applications
- Each application is stored in it's own container (vhd or other) and is decoupled from the VM
- Applications look and feel as locally installed for the user
- Per user visibility, only authorized users have access to their assigned applications
- Applications need to be in the new MSIX packaging format
- Applications can be converted to MSIX if needed via tooling



Management & Monitoring

- Intune doesn't support pooled AVD VM's, support currently exists only for personal and single session AVD VM's.
- Microsoft Endpoint Manager does support multi-session AVD VM's but only with device configurations, user scoped policies are not possible.
- Microsoft provides an integrated monitoring solution for AVD: Azure Monitor for Azure Virtual Desktop.
- There is a management interface for Azure Virtual Desktop in the Azure Portal.



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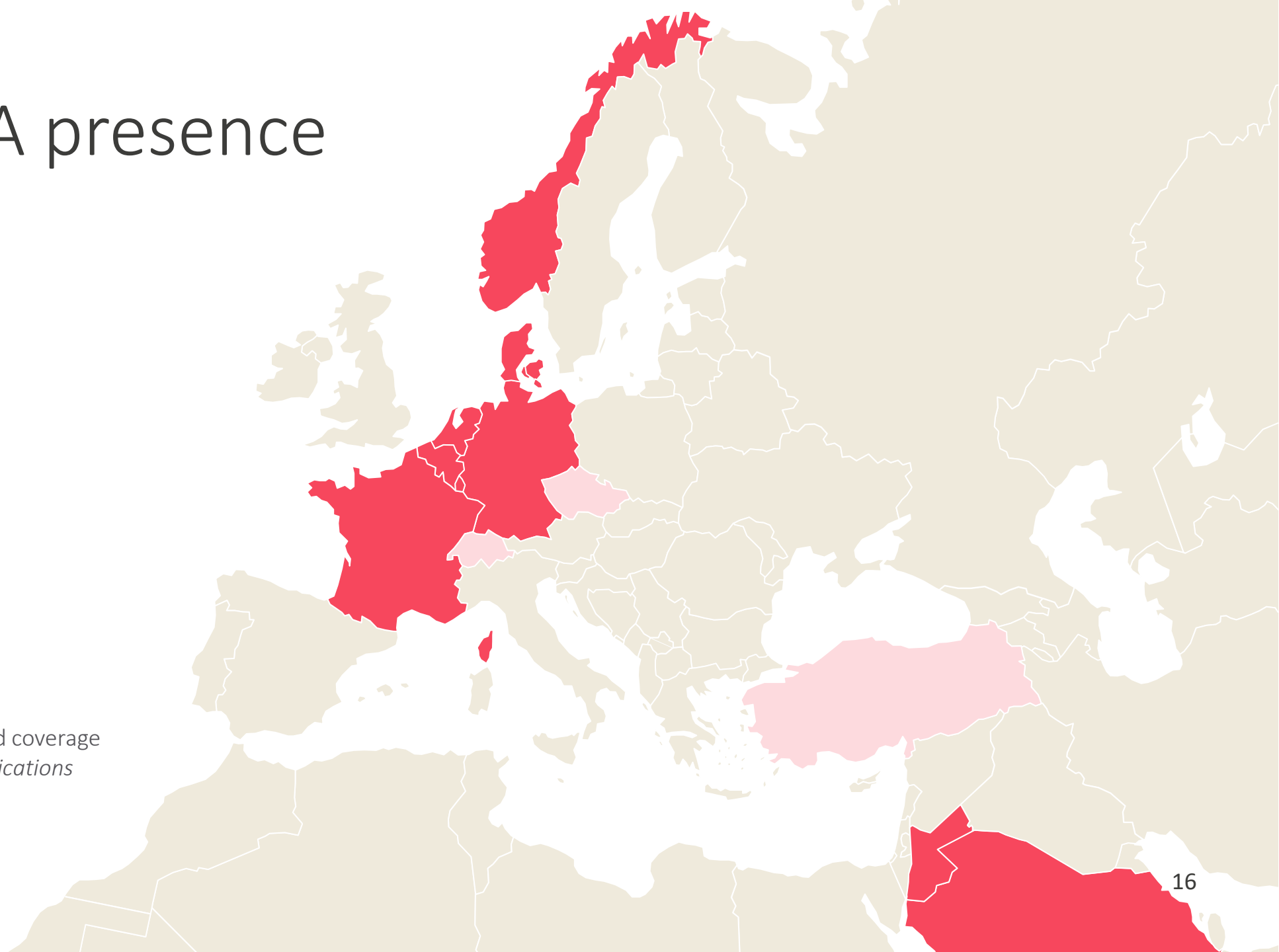
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-  Cloud full workload coverage
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Cloud workloads





Thank you !