



# Microsoft Azure Virtual Desktop (AVD)

# Planning & Implementation Workshop

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# Virtualization makes IT simpler to manage and less costly to own and operate

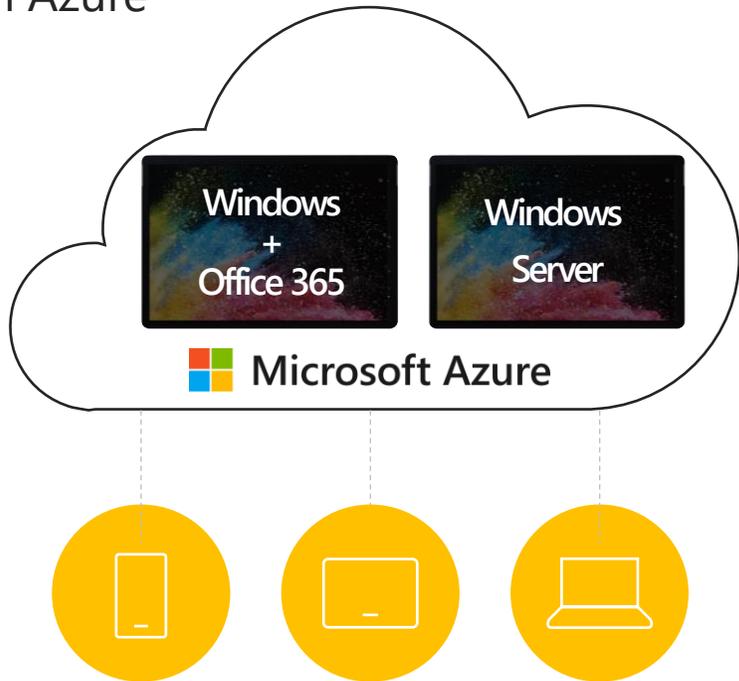
- ✓ Increased IT agility, flexibility, and scalability
- ✓ Significant cost savings
- ✓ Greater workload mobility
- ✓ Increased performance and availability of resources
- ✓ Ability to automate operations

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# Azure Virtual Desktop

The best virtual desktop experience, delivered on Azure



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Covered by the Azure Migration Program, ensuring the most cost-effective, frictionless way to move to the cloud



**Deliver the only multi-session Windows 10/11 experience**



**Enable optimizations for Microsoft 365 Apps for Enterprise**



**Migrate Windows Server (RDS) desktops and apps**



**Deploy and scale in minutes**



**Address hybrid requirements and existing solutions**



# Optimize your desktop virtualization experience to leverage the power of a modern cloud



Expand capabilities with the best virtualized end-user experience



Realize more efficient and simplified management



Ensure security and modernization with a standardized, global cloud



Significantly reduce costs without compromising quality

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# Expand capabilities with the best virtualized end-user experience

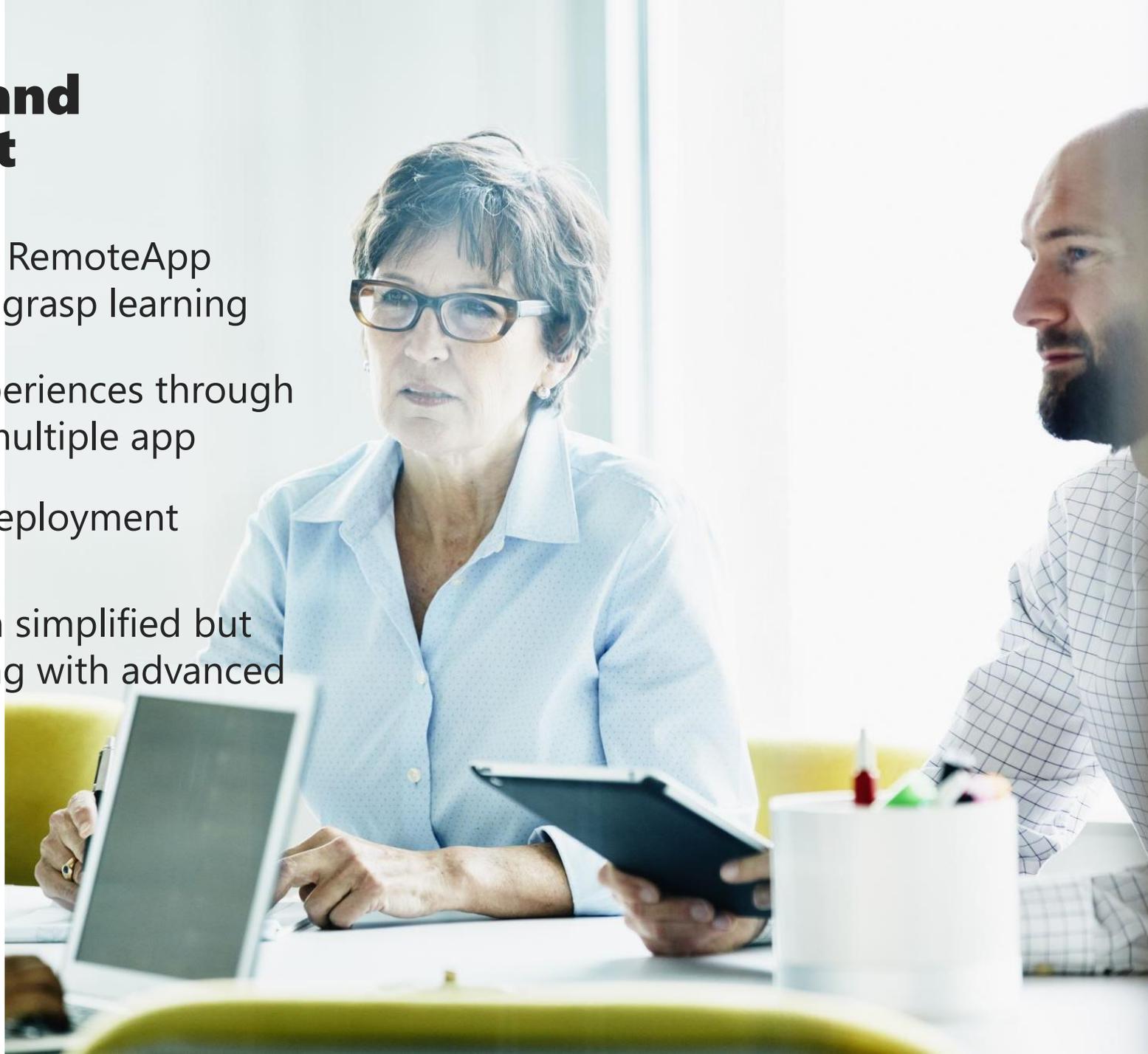
- ✓ Connect to any platform with an experience just like native
- ✓ Enhance protocol by adapting bandwidth utilization
- ✓ Enable fast VHD load times and log-on times with containerized user profiles
- ✓ Drive stronger collaboration with Teams enhancements

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# Realize more efficient and simplified management

- ✓ Unify both Desktop and RemoteApp experiences for easy-to-grasp learning
- ✓ Engage flexible user experiences through a single host pool and multiple app
- ✓ Utilize automated VM deployment
- ✓ Solve errors quickly with simplified but powerful troubleshooting with advanced diagnostics



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# Ensure security and modernization with a standardized, global cloud

- ✓ Reach anyone, anywhere with 54 regions (more than any other cloud provider)
- ✓ Rely on powerful cyber defense operations with over 3,500 full time security professionals
- ✓ Assign role-based access control to admins

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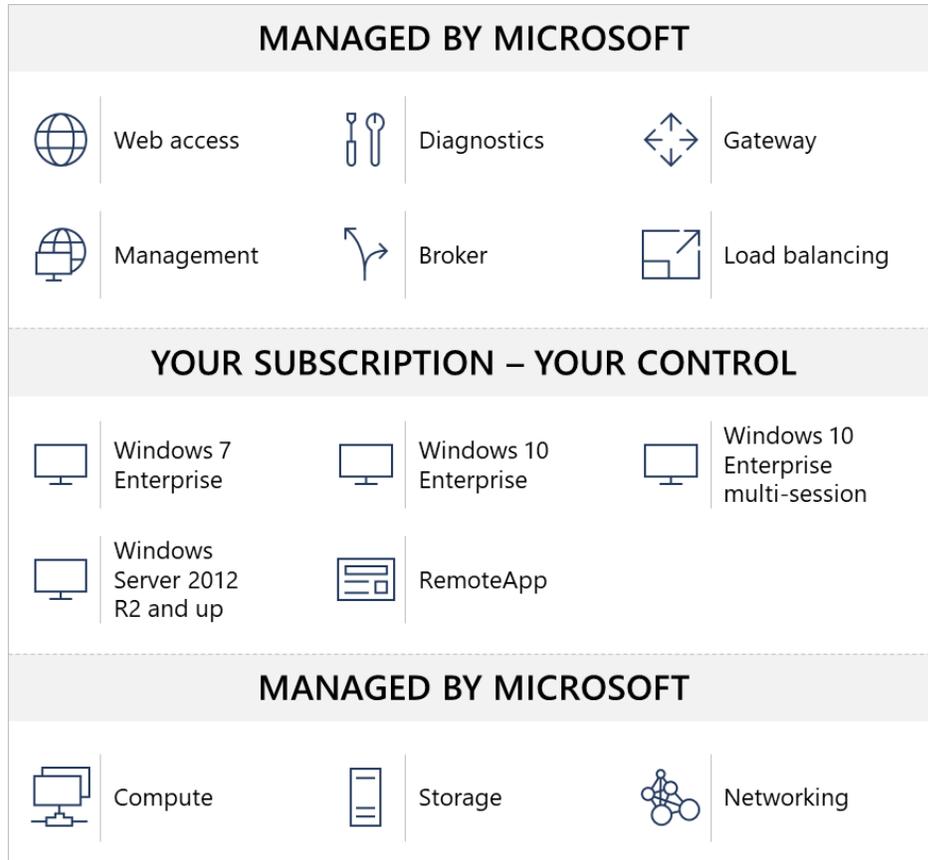
# Significantly reduce costs without compromising quality

- ✓ Decrease spending to only virtual machines, storage, and networking consumed while using the service
- ✓ Employ the full Windows 10/11 experience at multi-session cost
- ✓ Absorb the licenses you already own to limit spending

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# High-level Architecture



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**Provides virtualization infrastructure as a managed service**



**Utilizes Azure Active Directory identity management service**



**Deploy and manage VMs in Azure subscription**



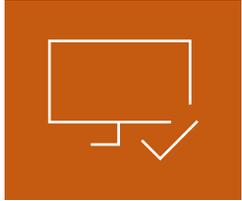
**Manage using existing tools like Configuration Manager**



**Simply connect to on-premise resources**



# Access to Azure Virtual Desktop



## What are the eligible Windows and M365 licenses to access AVD?

You are eligible to access Windows 10/11 and Windows 7 with Azure Virtual Desktop if you have one of the following licenses \*

- Microsoft 365 E3/A3
- Microsoft 365 E5/A5
- Microsoft 365 F3 (w/Win10 Enterprise)
- Microsoft 365 Business Premium
- Windows Enterprise E3/E5
- Windows Education A3/A5
- Windows VDA per user

*\* Customers can access Azure Virtual Desktop from their non-Windows Pro endpoints if they have a Microsoft 365 E3/E5, Microsoft 365 A3/A5 or Windows VDA per user license.*



## What is the eligibility criteria on Remote Desktop Services (RDS) CAL licenses to access Windows Server desktops and apps on AVD?

You are eligible to access Windows Server 2012 R2 and newer desktops and apps if you have an RDS CAL license with active Software Assurance (SA).

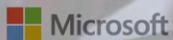
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# Azure Consumption

- ✓ Pay only for the virtual machines (VMs), storage, and networking consumed when your users are using the service
- ✓ You have the flexibility to pick any VM and storage options to match your use cases
- ✓ Take advantage of options such as [one-year or three-year Azure Reserved Virtual Machine Instances](#), which can save you up to 72% versus pay-as-you-go pricing. Reserved Virtual Machine Instances are flexible and can easily be exchanged or returned

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# Deliver the only multi-session Windows 10/11 experience

Provide your users with the only multi-session Windows 10 experience virtualized in the cloud that's highly scalable, always up to date, and available on any device

- ✓ Multi-session and single-session Windows 10/11
- ✓ Store and legacy app remoting
- ✓ Free Windows 7 Extended Security Updates

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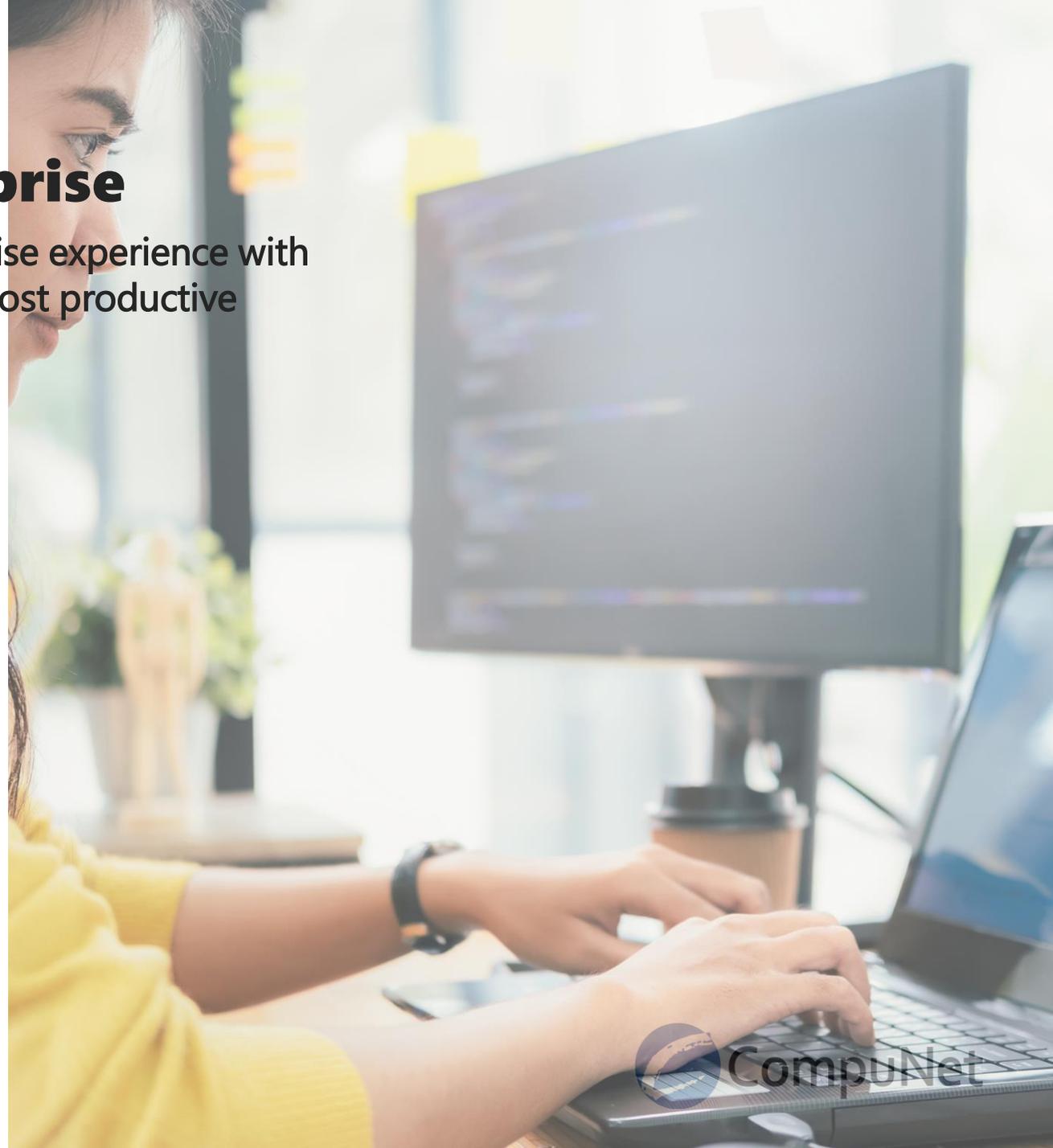


# Enable optimizations for Microsoft 365 Apps for Enterprise

Deliver the best Microsoft 365 Apps for Enterprise experience with multi-session virtual scenarios to provide the most productive virtualized experience to your users

- ✓ Office 365 containers make Office more performant in a multi-session environment including Outlook and OneDrive for Business support
- ✓ Profile containers enable faster and more performant experience in non-persistent environments

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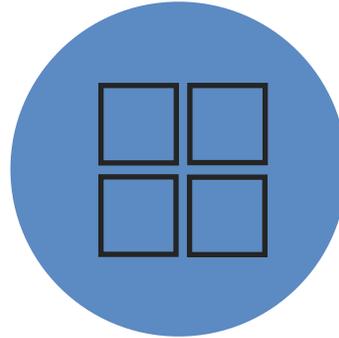
# FSLogix

With the acquisition of FSLogix, eligible customers will get access to three core pieces of technology



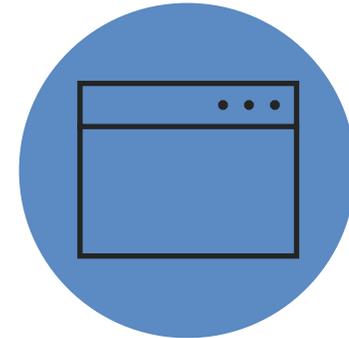
## Profile container

Replacement for roaming profiles and folder redirection, including Office 365 Container, which roams all cache data



## App masking

Allows single image with all applications; excellent app compatibility with no packaging, sequencing, backend infrastructure, or virtualization



## Java redirection

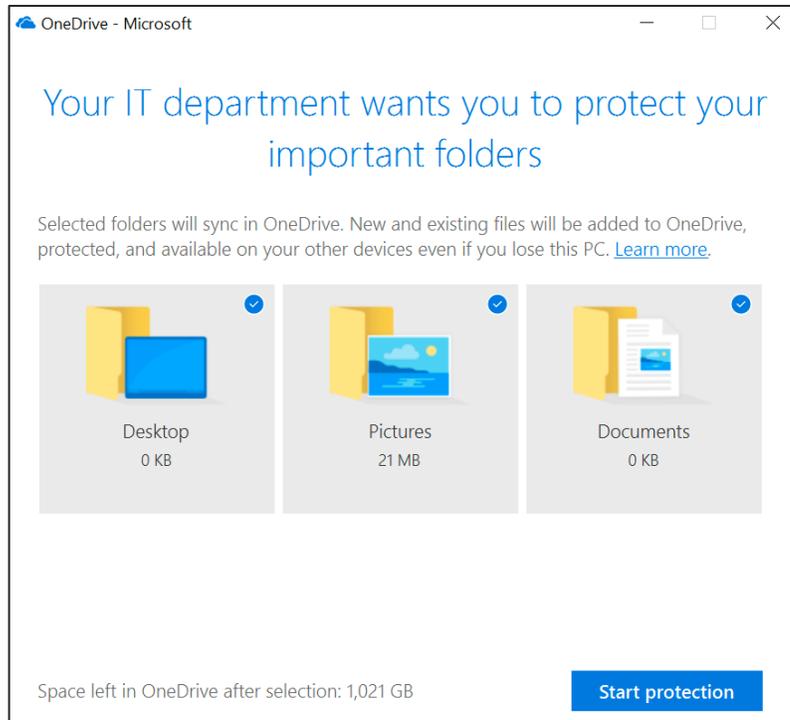
Helps protect the enterprise from vulnerabilities of multiple installed versions of Java by mapping specific versions to individual apps or websites

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# OneDrive for Business

Full support and new virtualization optimizations



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**OneDrive sync will run in non-persistent environments**



**Co-authoring and collaborative capabilities**



**Files On-Demand capabilities**



**Automatically populate user profile folders**

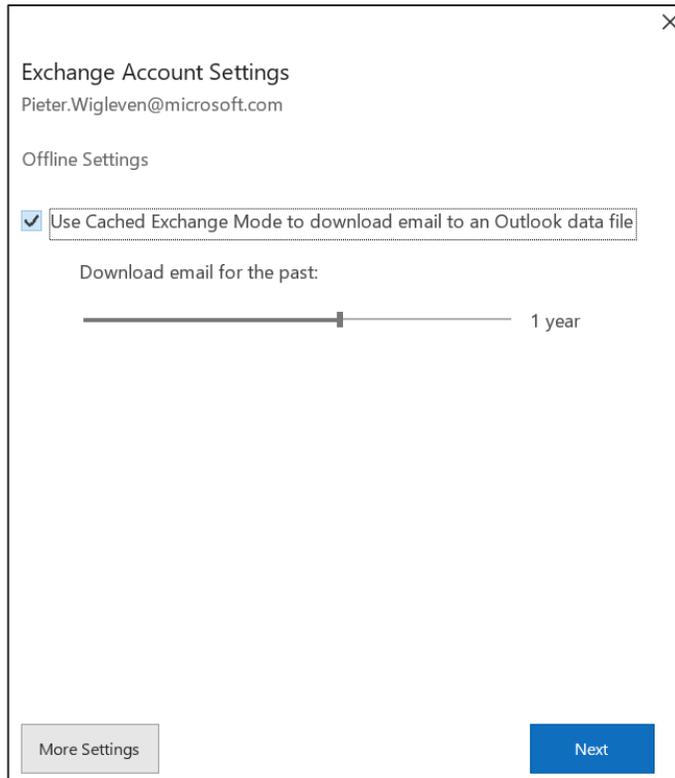


**OneDrive per machine installer**



# Outlook optimizations

Outlook in Apps for Enterprise optimizations



Exchange Account Settings  
Pieter.Wigleven@microsoft.com

Offline Settings

Use Cached Exchange Mode to download email to an Outlook data file

Download email for the past:

1 year

More Settings Next

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**Sync inbox before calendar for faster startup experience**



**Admin option to reduce calendar sync window**



**Reduce the number of folders that are synced by default**



**Windows Desktop Search is now per-user**



**More to come**



# Migrate existing Windows Server (RDS) desktops and apps

Migrate your Remote Desktop Services (RDS) environment or Windows Server desktops and apps with a simplified infrastructure management and deployment experience on Azure

- ✓ Support for Windows Server 2012 and Remote Desktop Services 2012R2 and newer
- ✓ App compatibility for existing Windows Server images used on-prem

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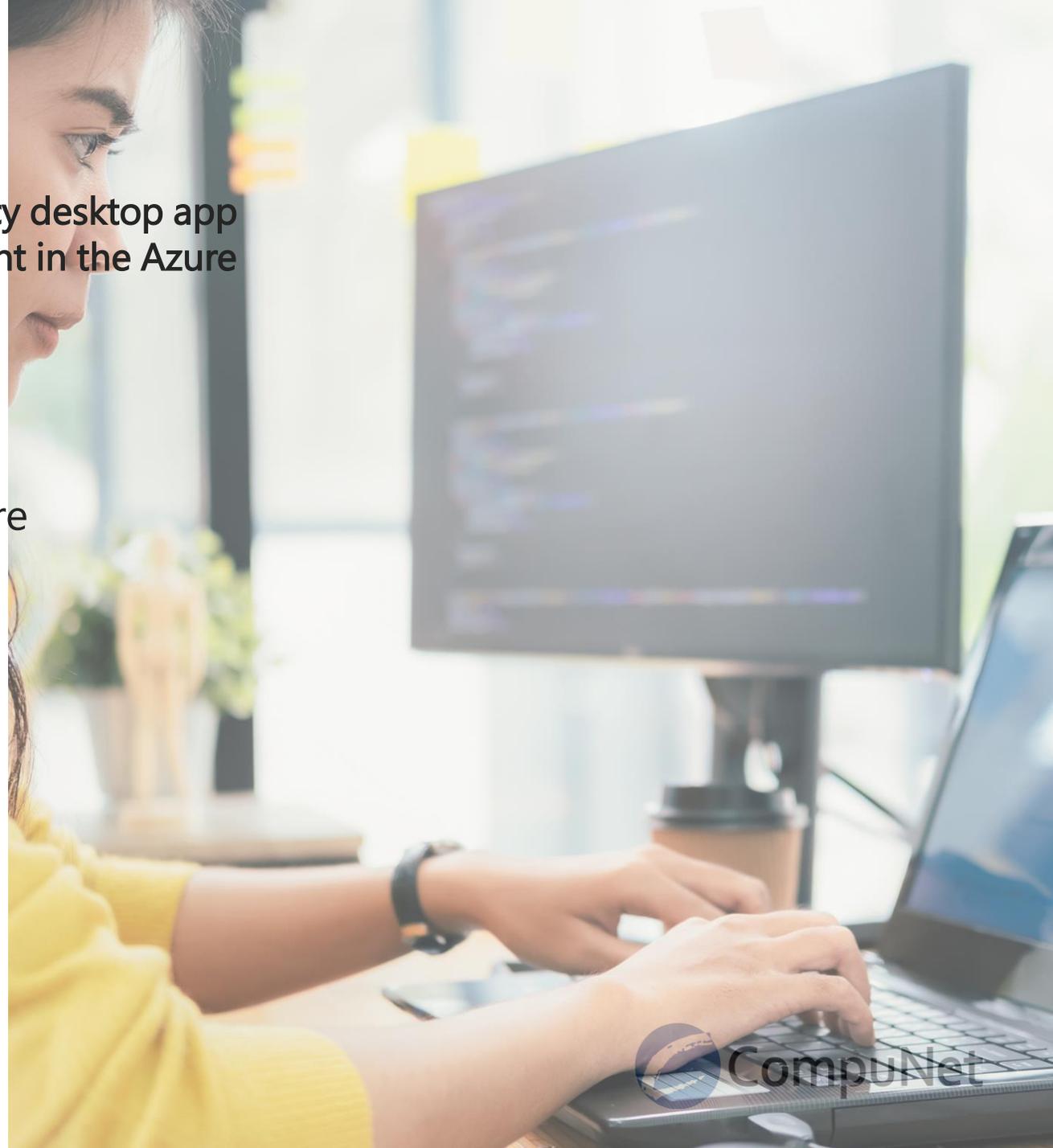


# Deploy and scale in minutes

Quickly virtualize and deploy modern and legacy desktop app experiences in minutes with unified management in the Azure portal

- ✓ Azure has datacenters available in 54 regions, and 140 countries.
- ✓ Azure management portal for Azure Virtual Desktop
- ✓ Built in security and compliance (Windows & Azure)
- ✓ Partner ecosystem extensibility (coming soon)

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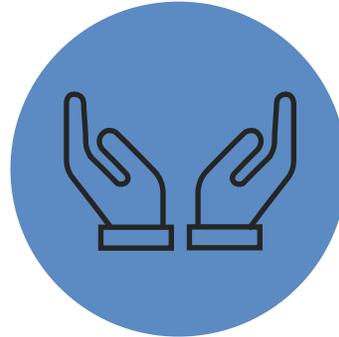


# AVD deployment and management options



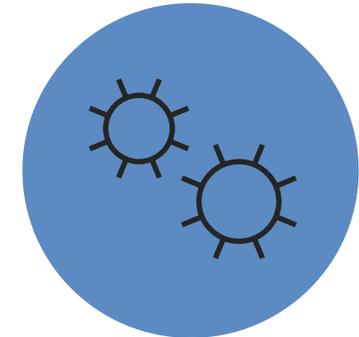
## Deployment

Onboarding will be through Azure Marketplace or through GitHub using ARM templates to deploy new or update existing host pool



## Management

- Azure Portal will enable native integration post GA for deployment and management alongside other Azure services
- Use REST API's to set and manage AVD directly, build complex workflows – sample UI and outlines for customers provided
- PowerShell is the best option for repeatable deployment, Azure integration, and DSC
- Other options include Terraform or partner management solutions



## Hosting partners

Leverage multi-tenancy support to scale the number of customers

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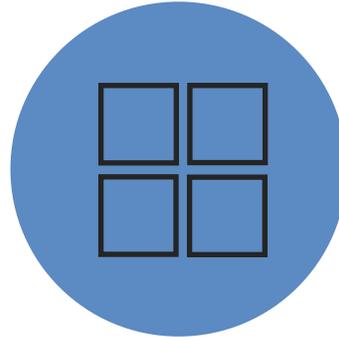
# Next steps

A valuable team of CompuNet architects, engineers, consultants, and service delivery managers are standing by to help in your journey. Reach out for help with your roadmap.



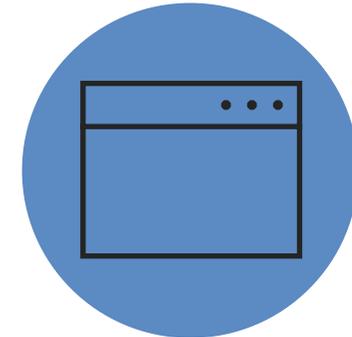
**Get started today:**  
[aka.ms/WVDGetStarted](https://aka.ms/WVDGetStarted)

Learn more about Azure  
Virtual Desktop:  
<https://aka.ms/wvdplaylist>



**Estimate the end-user  
experience:**  
[aka.ms/avd/ExperienceEstimator](https://aka.ms/avd/ExperienceEstimator)

See what's coming next:  
[https://www.youtube.com/  
watch?  
v=QLDu6QVohEI&t=19s](https://www.youtube.com/watch?v=QLDu6QVohEI&t=19s)



**Use the Azure calculator to  
estimate your costs:**  
[aka.ms/AVDPricing](https://aka.ms/AVDPricing)

Technical documentation:  
[https://docs.microsoft.com/  
en-us/azure/virtual-  
desktop/](https://docs.microsoft.com/en-us/azure/virtual-desktop/)

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