



# Windows Virtual Desktop from Microsoft



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



*Increased IT agility,  
flexibility, and  
scalability*



*Greater workload  
mobility*



*Ability to  
automate  
operations*

*Significant cost  
savings*



*Increased  
performance and  
availability of  
resources*



# Windows Virtual Desktop

The best virtual desktop experience, delivered on Azure

- + Deliver the only multi-session Windows 10 experience
- + Enable optimizations for Office 365 ProPlus
- + Migrate Windows Server (RDS) desktops and apps
- + Deploy and scale in minutes
- + Address hybrid requirements and existing solutions



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

# 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



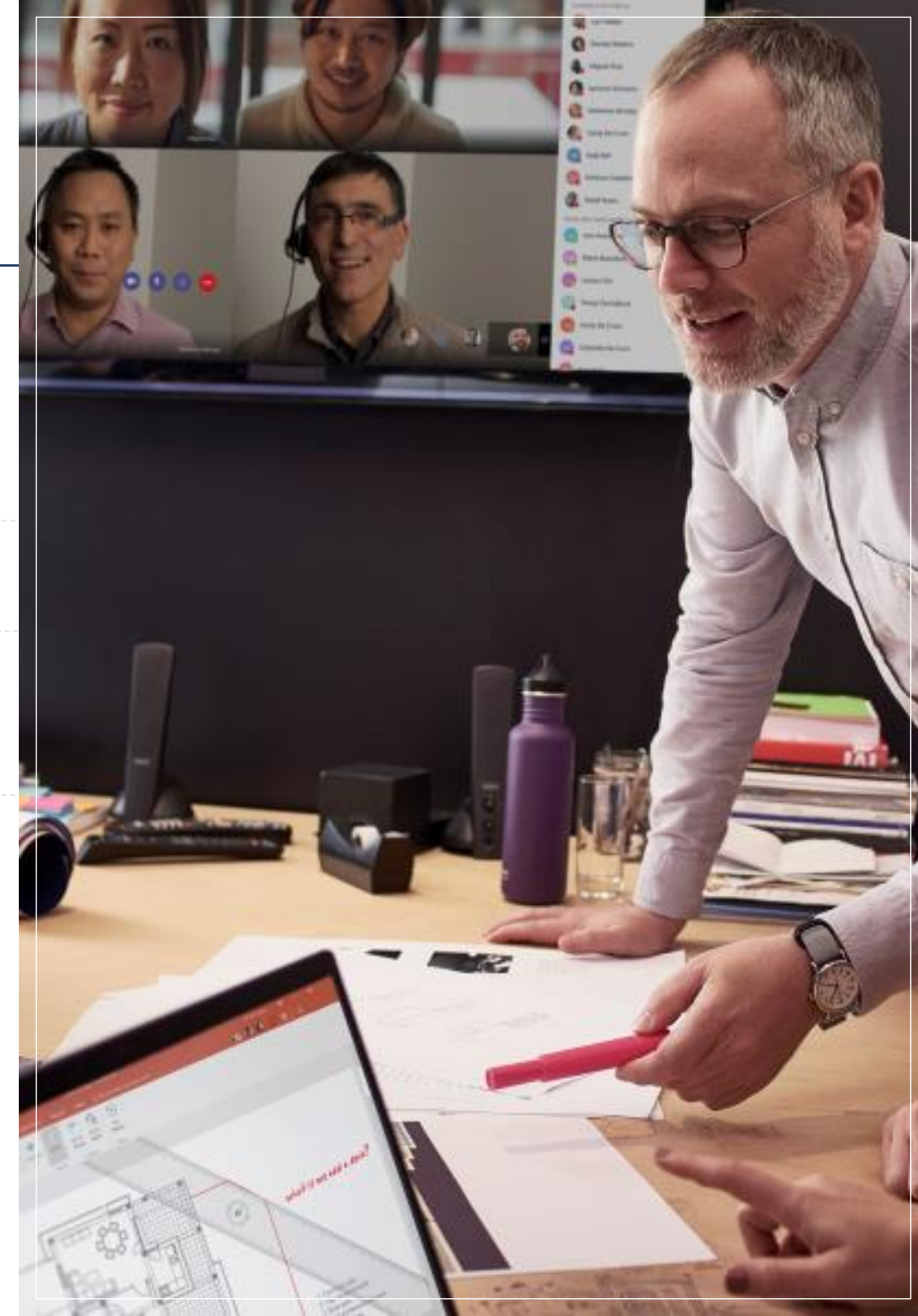
Ensure security and modernization with a standardized, global cloud



Significantly reduce costs without compromising quality

# 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



# 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



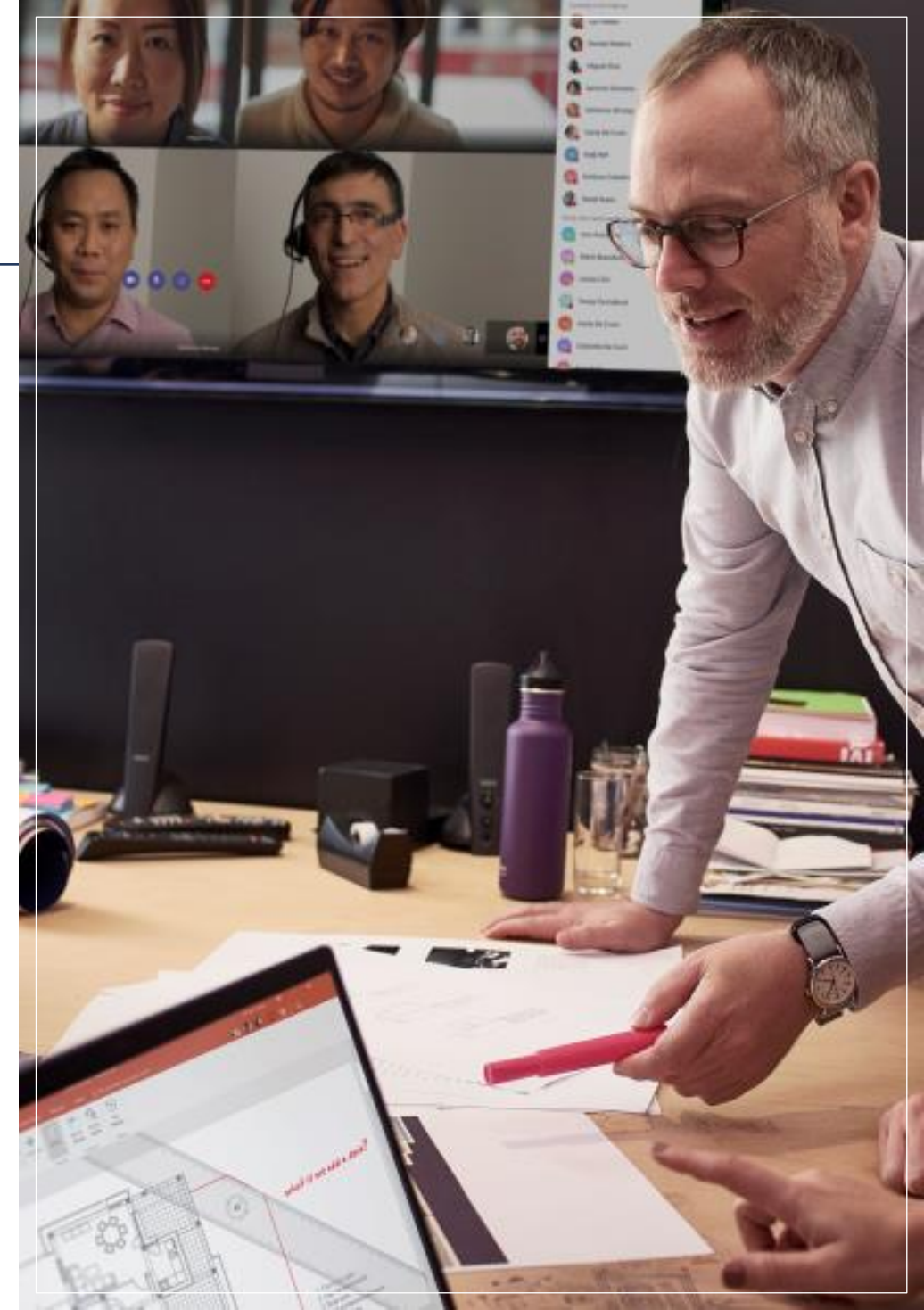
# Ensure security and modernization with a standardized, global cloud

- 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



# 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 experience at multi-session cost
- Absorb the licenses you already own to limit spending





# High level architecture

- 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

## MANAGED BY MICROSOFT



Web access



Diagnostics



Gateway



Management



Broker



Load balancing

## YOUR SUBSCRIPTION – YOUR CONTROL



Windows 7 Enterprise



Windows 10 Enterprise



Windows 10 Enterprise multi-session



Windows Server 2012 R2 and up



RemoteApp

## MANAGED BY MICROSOFT



Compute



Storage



Networking

# Access to Windows Virtual Desktop



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

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

- Microsoft 365 E3/A3
- Microsoft 365 E5/A5
- Microsoft 365 F1
- Microsoft 365 Business
- Windows 10 Enterprise E3/E5
- Windows 10 Education A3/A5
- Windows 10 VDA per user

*\*Customers can access Windows Virtual Desktop from their non-Windows Pro endpoints if they have a Microsoft 365 E3/E5, Microsoft 365 A3/A5 or Windows 10 VDA per user license.*

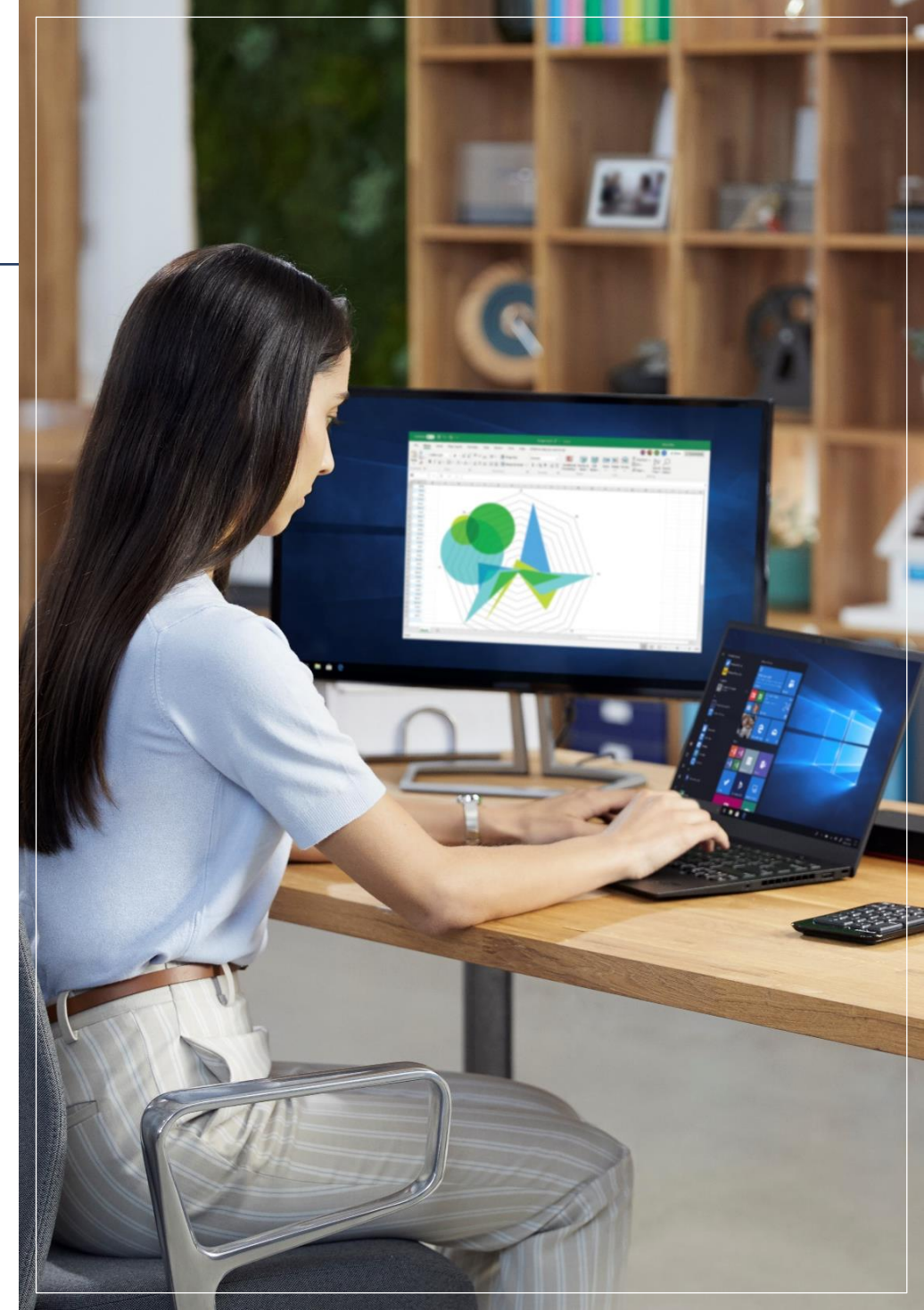


## What is the eligibility criteria on Remote Desktop Services (RDS) CAL licenses to access Windows Server desktops and apps on WVD?

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).

# 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.



# Deliver the only multi-session Windows 10 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
- Store and legacy app remoting
- Free Windows 7 Extended Security Updates



# Enable optimizations for Office 365 ProPlus

Deliver the best Office 365 ProPlus 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



# FSLogix technologies

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.

# OneDrive for Business



## Full support and new virtualization optimizations

- 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

The screenshot shows the OneDrive for Business folder selection interface. At the top, it says "OneDrive - Microsoft" with window control buttons. The main heading is "Your IT department wants you to protect your important folders". Below this, a message states: "Selected folders will sync in OneDrive. New and existing files will be added to OneDrive, protected, and available on your other devices even if you lose this PC. [Learn more.](#)". Three folders are shown with blue checkmarks in the top right corner, indicating they are selected: "Desktop" (0 KB), "Pictures" (21 MB), and "Documents" (0 KB). At the bottom, it shows "Space left in OneDrive after selection: 1,021 GB" and a blue "Start protection" button.

# Outlook optimizations



## Outlook in ProPlus optimizations

- 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

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



# 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



# 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 Windows Virtual Desktop
- Built in security and compliance (Windows & Azure)
- Partner ecosystem extensibility (coming soon)



# WVD 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



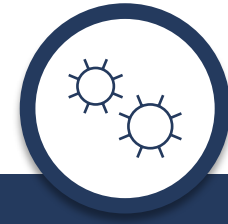
## Management

Azure Portal will enable native integration post GA for deployment and management alongside other Azure services

Use REST API's to set and manage WVD directly, build complex workflows – sample UI and outlines for customers will be provided

PowerShell is the best option for repeatable deployment, Azure integration, and DSC

Other options include Terraform or partner management solutions



## Hosting partners

Leverage multitenancy support to scale the number of customers

# Call to action



Get started  
today

[aka.ms/WVDGetStarted](https://aka.ms/WVDGetStarted)



Estimate the  
end user experience

[aka.ms/wvd/ExperienceEstimator](https://aka.ms/wvd/ExperienceEstimator)



Use the Azure calculator  
to estimate your costs

[aka.ms/WVDPricing](https://aka.ms/WVDPricing)



*Contact your Microsoft partner to keep the conversation going*

Learn more about Windows  
Virtual Desktop

<https://aka.ms/wvdplaylist>

See what's coming next

<https://www.youtube.com/watch?v=QLDu6QVohEI&t=19s>

Technical documentation

<https://docs.microsoft.com/en-us/azure/virtual-desktop/>



Thank you

# Appendix

# Virtualization scenarios



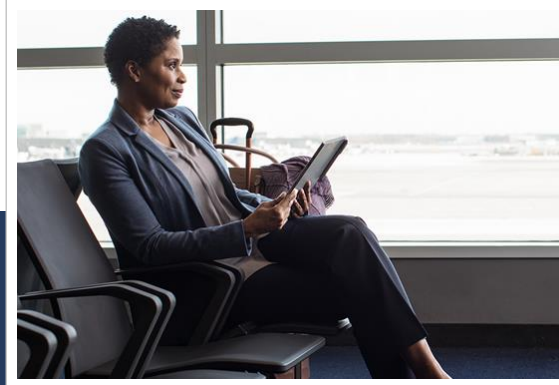
## Security and regulation

Financial services  
Healthcare  
Government



## Elastic workforce

Mergers and acquisition  
Short term employees  
Contractor and partner access



## Specific employees

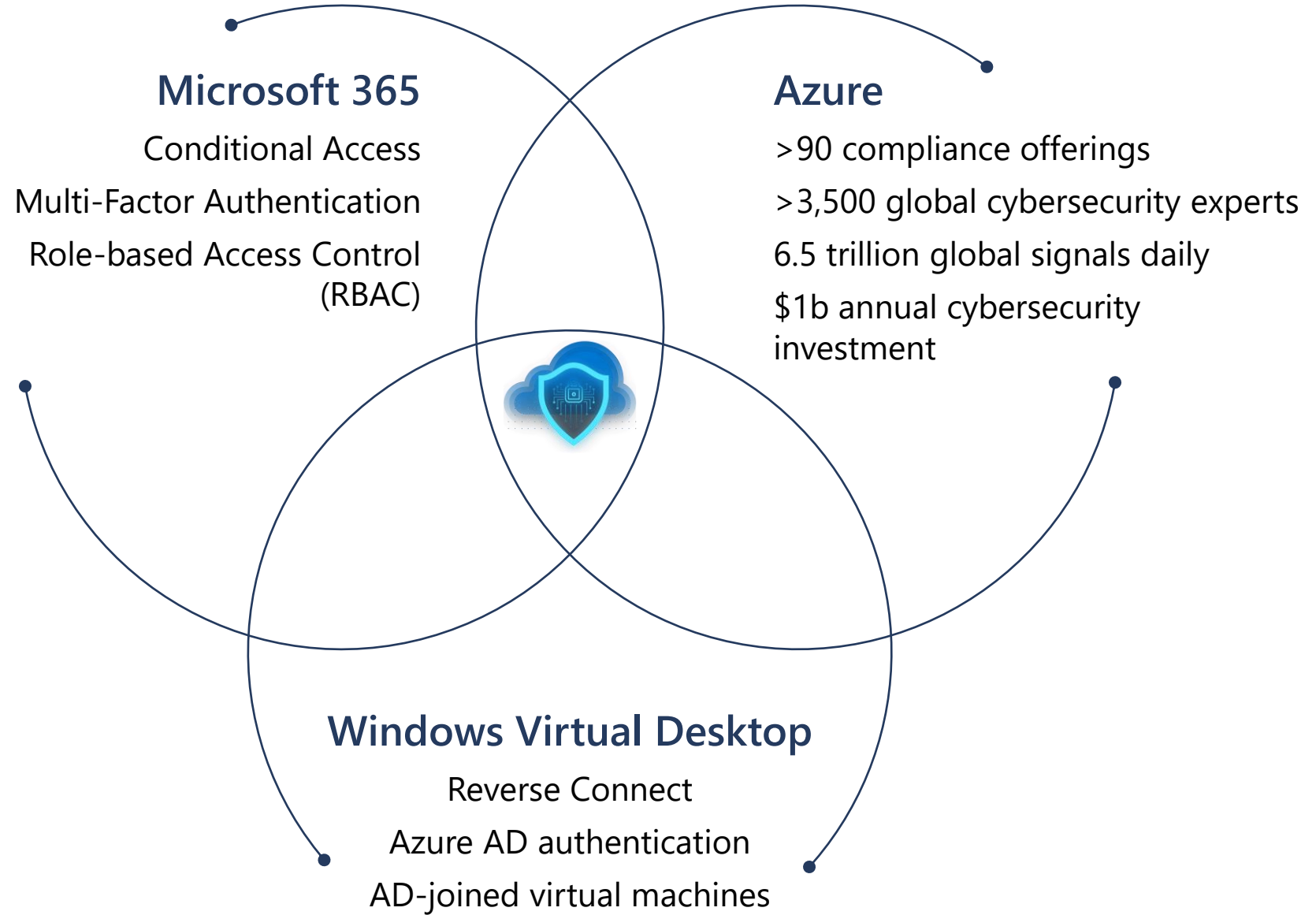
BYOD and mobile  
Call centers  
Branch workers



## Specialized workloads

Design and engineering  
Legacy apps  
Software dev test

# Blending the security of the convergence of the Microsoft ecosystem





# Traditional virtualization hosts

## Windows Server Desktop Experience

Scalable multi-session legacy  
Windows environment

Windows Server

Multiple sessions

Win32

Office Perpetual

Long-Term Servicing Channel

## Windows 10 Enterprise

Native single-session **modern**  
Windows experience

Windows 10

Single session

Win32, UWP

Office 365 ProPlus

Semi-Annual Channel

# Virtualization hosts of the future



## Windows Server multi-session

Scalable multi-session legacy  
Windows environment

Windows Server

Multiple sessions

Win32

Office 2019 Perpetual

Long-Term Servicing Channel

## Windows 10 Enterprise multi-session

Scalable multi-session modern  
Windows user experience with  
Windows 10 Enterprise security

Windows 10

Multiple sessions

Win32, UWP

Office 365 ProPlus

Semi-Annual Channel

## Windows 10 Enterprise VDI

Native single-session **modern**  
Windows experience

Windows 10

Single session

Win32, UWP

Office 365 ProPlus

Semi-Annual Channel

# Next steps



Get a free trial: [{Partner Offer URL}](#)



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