Microsoft

Windows Virtual Desktop from Microsoft

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

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

Windows 10 + Office 365

Windows Server

Microsoft Azure

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

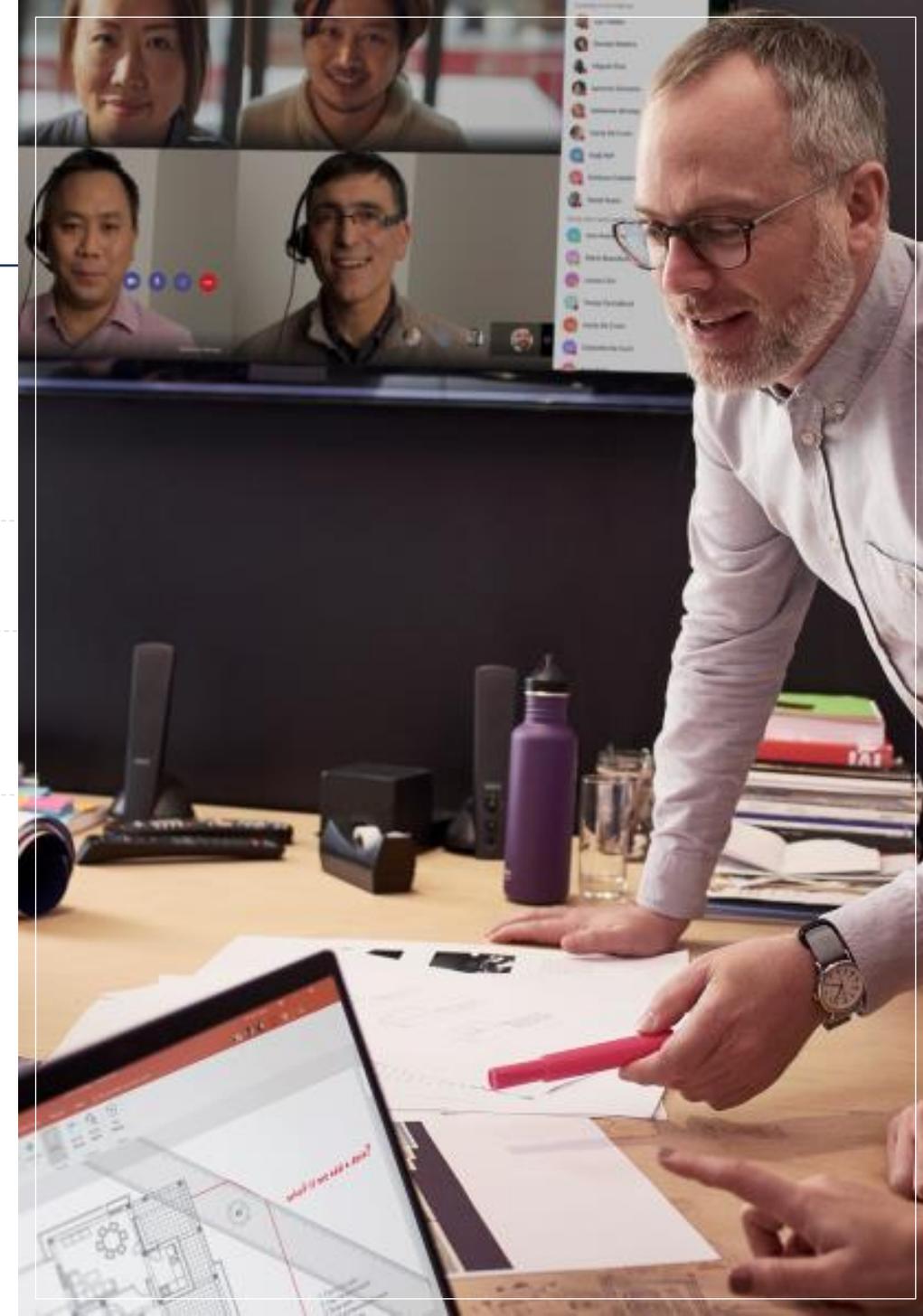Realize more efficient and simplified management

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

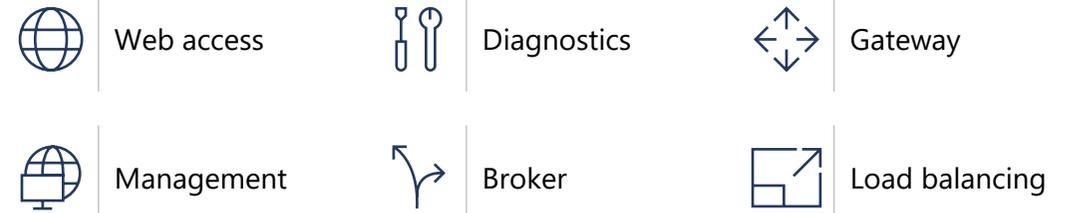# Significantly reduce costs without compromising quality

- Decrease spending to only virtual machines, storage, and networking consumed while using the service

- Employ the full Windows 10 experience at multi-session cost

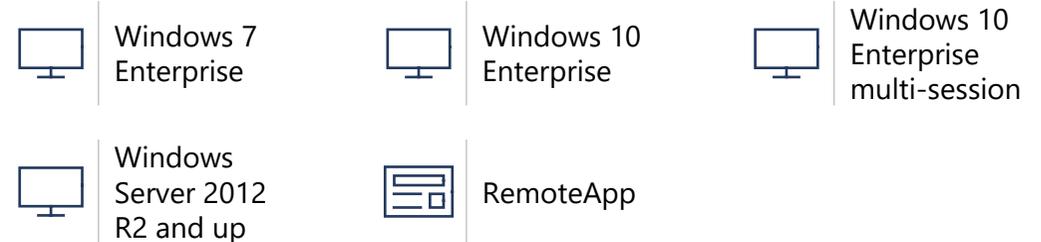- Absorb the licenses you already own to limit spending
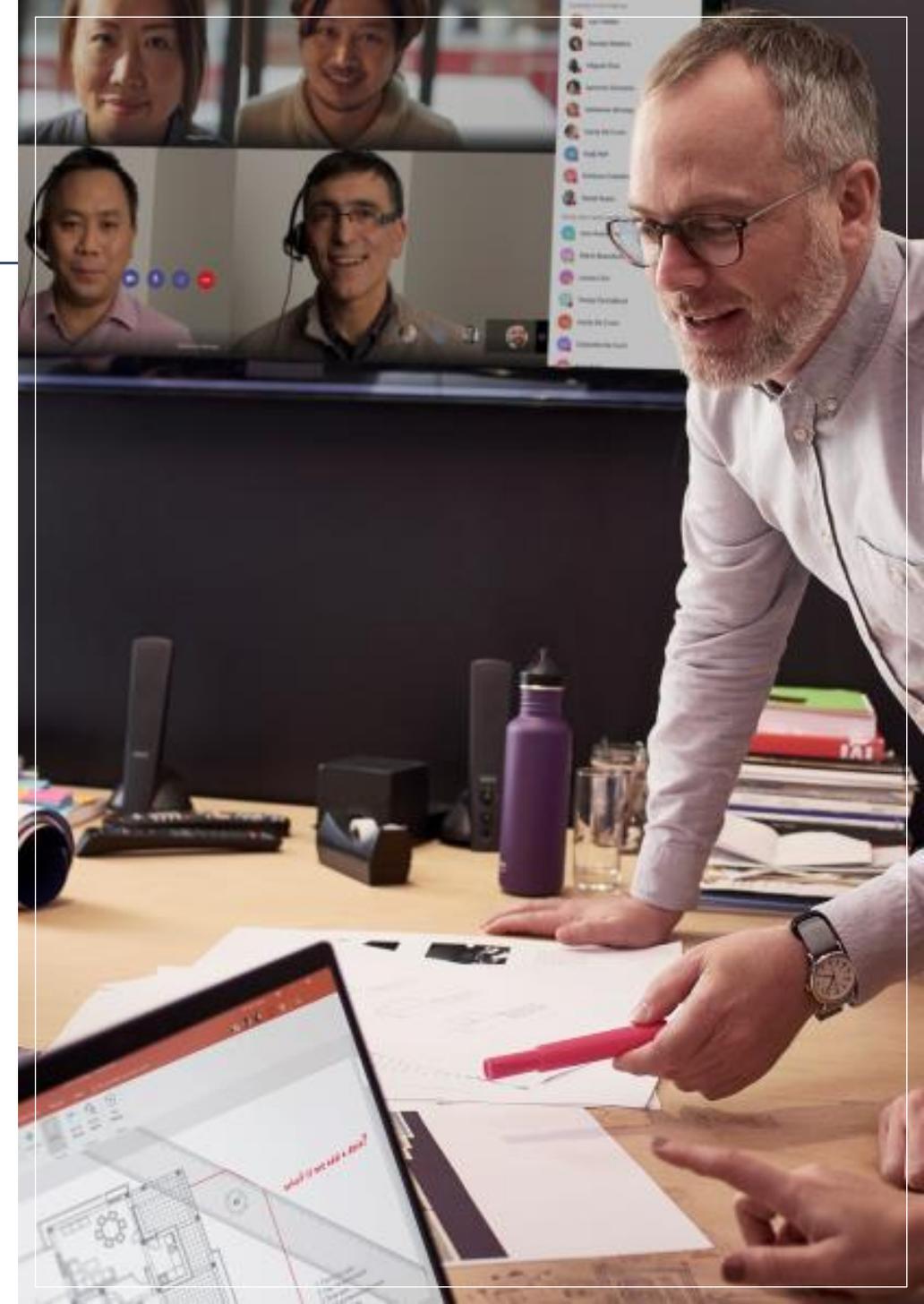
High level architecture

- 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.
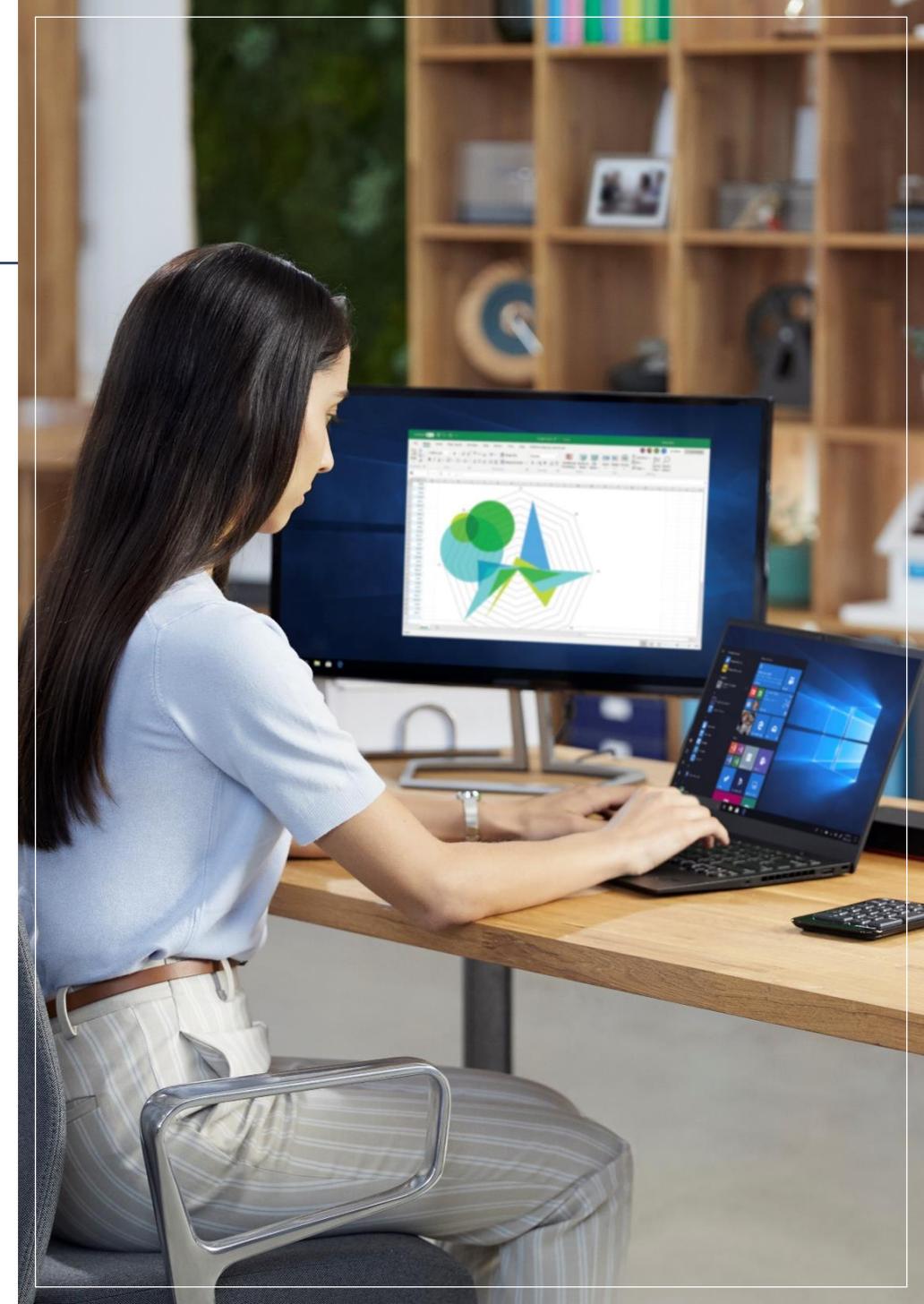
Deliver the only multi-session Windows 10 experience

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

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

Microsoft

Thank you

Appendix

Virtualization scenarios

Security and regulation	**Elastic workforce**	**Specific employees**	**Specialized workloads**
Financial services	Mergers and acquisition	BYOD and mobile	Design and engineering
Healthcare	Short term employees	Call centers	Legacy apps
Government	Contractor and partner access	Branch workers	Software dev test

Blending the security of the convergence of the Microsoft ecosystem

Microsoft 365

Conditional Access

Multi-Factor Authentication

Role-based Access Control (RBAC)

Azure

>90 compliance offerings

>3,500 global cybersecurity experts

6.5 trillion global signals daily

$1b annual cybersecurity investment

Windows Virtual Desktop

Reverse Connect

Azure AD authentication

AD-joined virtual machines
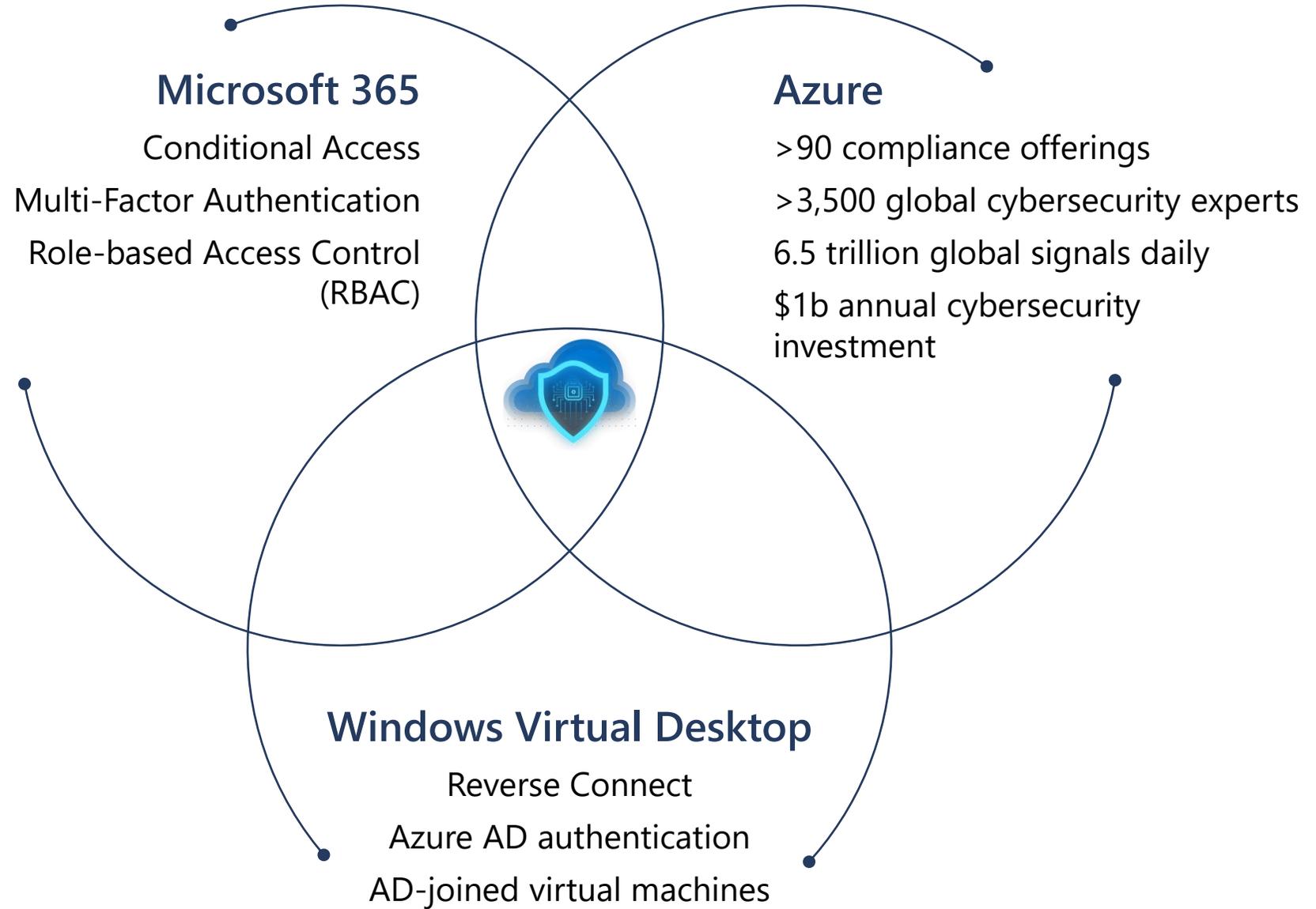
Traditional virtualization hosts

Windows Server Desktop Experience	Windows 10 Enterprise
Scalable multi-session legacy **Windows environment**	**Native single-session** modern **Windows experience**
Windows Server	Windows 10
Multiple sessions	Single session
Win32	Win32, UWP
Office Perpetual	Office 365 ProPlus
Long-Term Servicing Channel	Semi-Annual Channel

Virtualization hosts of the future

Windows Server multi-session	Windows 10 Enterprise multi-session	Windows 10 Enterprise VDI
Scalable multi-session legacy Windows environment	**Scalable multi-session modern Windows user experience with Windows 10 Enterprise security**	**Native single-session modern Windows experience**
Windows Server	Windows 10	Windows 10
Multiple sessions	Multiple sessions	Single session
Win32	Win32, UWP	Win32, UWP
Office 2019 Perpetual	Office 365 ProPlus	Office 365 ProPlus
Long-Term Servicing Channel	Semi-Annual Channel	Semi-Annual Channel