

# Windows Virtual Desktop



# Virtualisation 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 optimisations 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

# Optimise your desktop virtualisation experience to leverage the power of a modern cloud



Expand capabilities with the best virtualised end-user experience



Realise more efficient and simplified management



Ensure security and modernisation with a standardised, global cloud



Significantly reduce costs without compromising quality

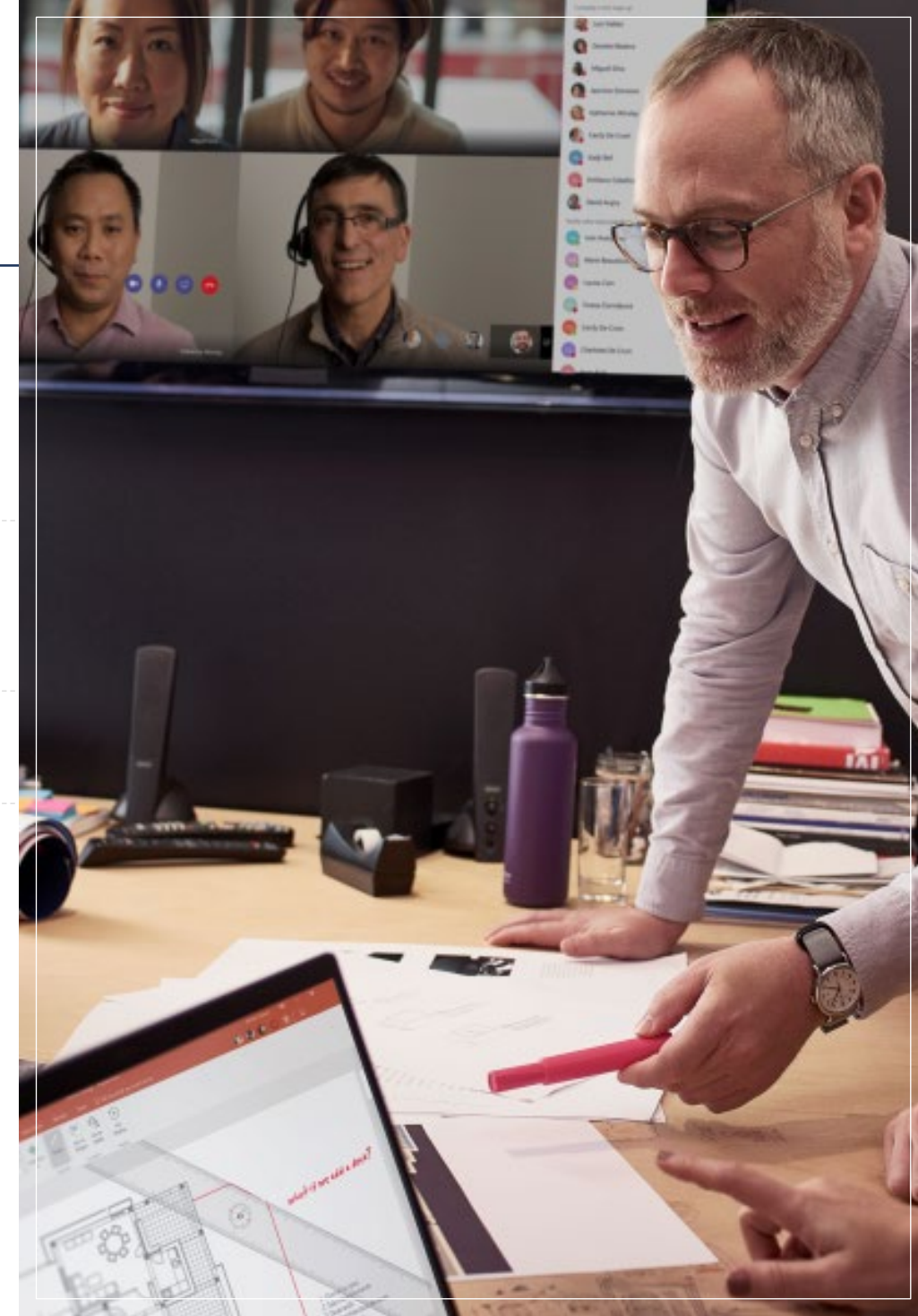
# Expand capabilities with the best virtualised end-user experience

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



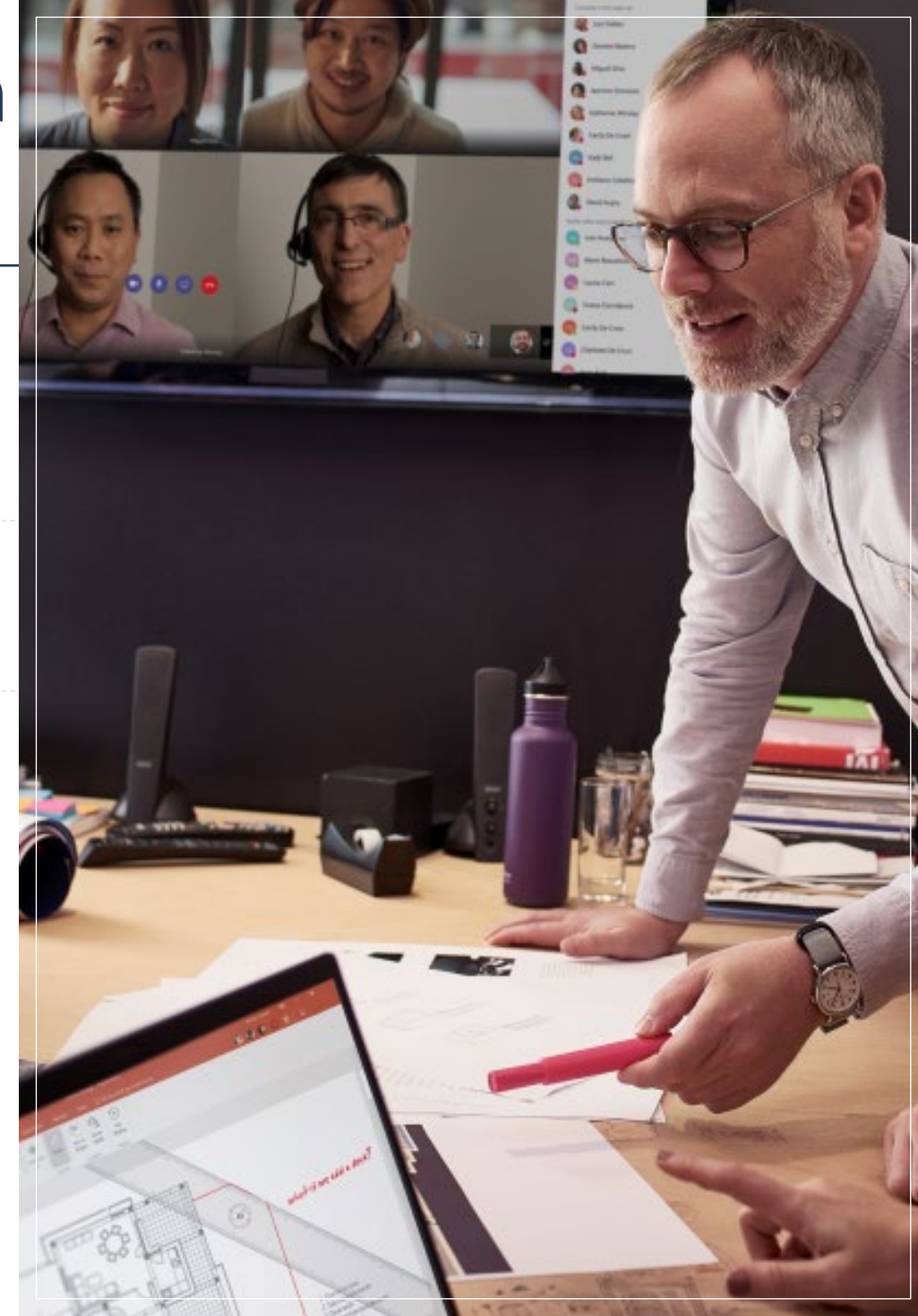
# Realise more efficient and simplified management

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



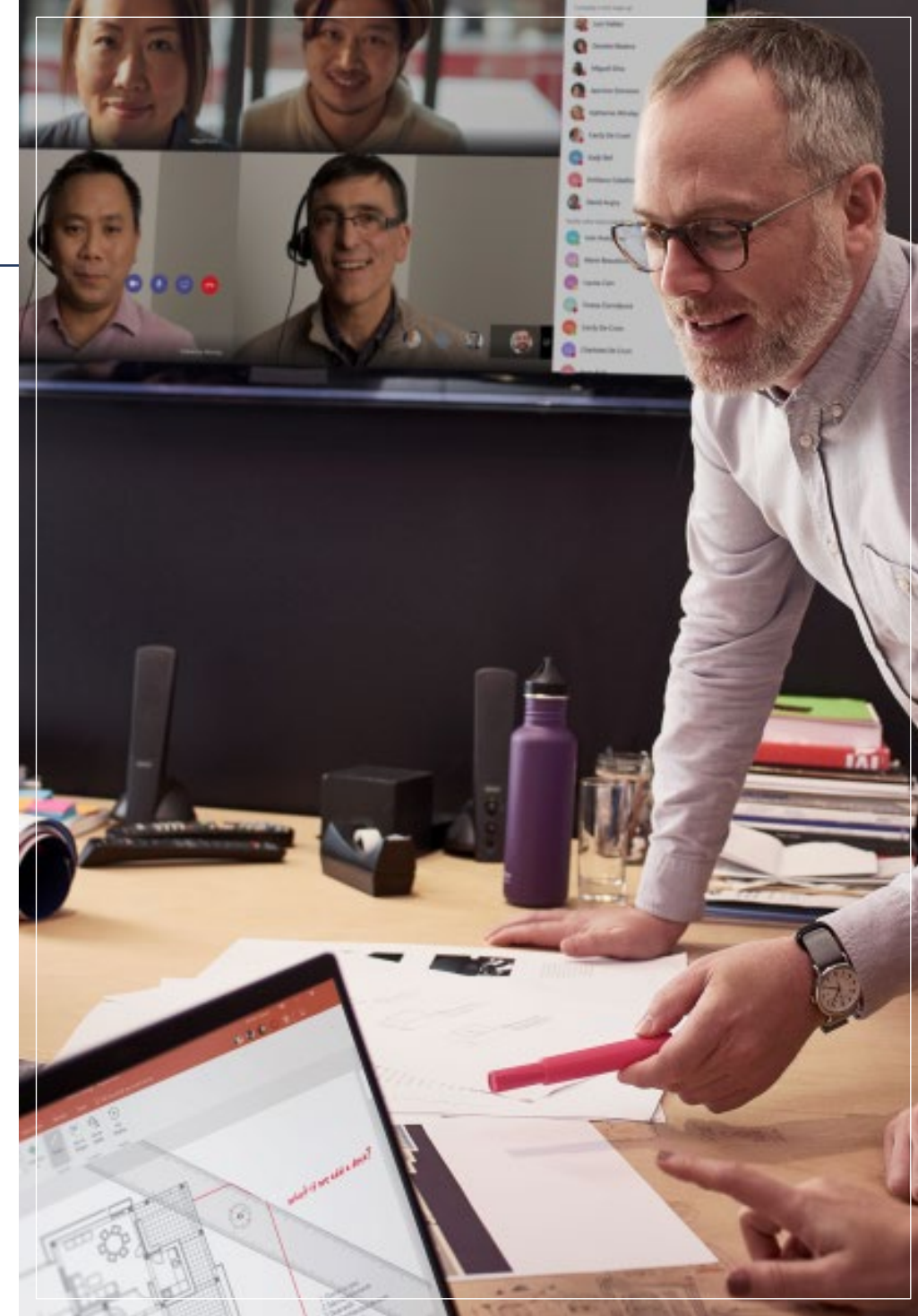
# Ensure security and modernisation with a standardised, global cloud

- Reach anyone, anywhere with 54 regions (more than any other cloud provider)
- Rely on powerful cyber-defence 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 licences you already own to limit spending

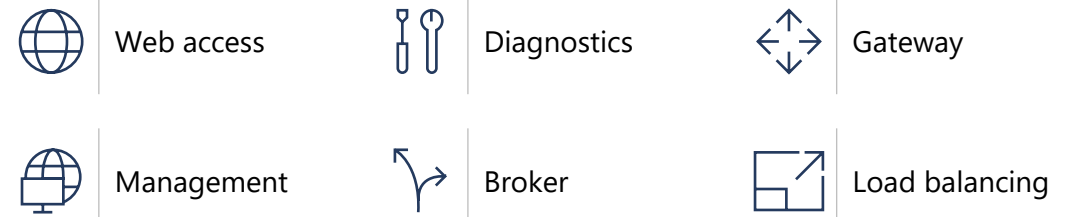




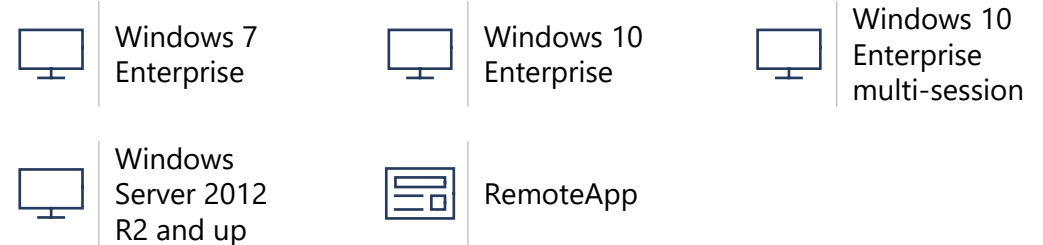
# High level architecture

- Provides virtualization infrastructure as a managed service
- Utilises Azure Active Directory identity management service
- Deploy and manage VMs in Azure subscription
- Manage using existing tools such as Configuration Manager
- Simply connect to on-premise resources

## MANAGED BY MICROSOFT



## YOUR SUBSCRIPTION – YOUR CONTROL



## MANAGED BY MICROSOFT



# Access to Windows Virtual Desktop



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

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

- 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 licence.*



## What is the eligibility criteria on Remote Desktop Services (RDS) CAL licences 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 licence 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 choose 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 virtualised 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 optimisations for Office 365 ProPlus

Deliver the best Office 365 ProPlus experience with multi-session virtual scenarios to provide the most productive virtualised 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 virtualisation.



## 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 virtualisation optimisations

- 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

OneDrive - Microsoft

Your IT department wants you to protect your important folders

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.](#)

Desktop 0 KB	Pictures 21 MB	Documents 0 KB
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Space left in OneDrive after selection: 1,021 GB

[Start protection](#)

The image shows a screenshot of the OneDrive application window. The window title is "OneDrive - Microsoft". The main heading is "Your IT department wants you to protect your important folders". Below this, there is a sub-heading: "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.](#)". There are three folder icons shown, each with a blue checkmark in the top right corner, indicating they are selected for protection. The folders are: "Desktop" (0 KB), "Pictures" (21 MB), and "Documents" (0 KB). At the bottom of the window, it says "Space left in OneDrive after selection: 1,021 GB" and there is a blue button labeled "Start protection".

# Outlook optimisations



## Outlook in ProPlus optimisations

- Sync inbox before calendar for faster start-up 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 virtualise and deploy modern and legacy desktop app experiences in minutes with unified management in the Azure portal.

- Azure has data centres available in [54 regions and 140 countries](#).
- Azure management portal for Windows Virtual Desktop
- Built in security and compliance (Windows and 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



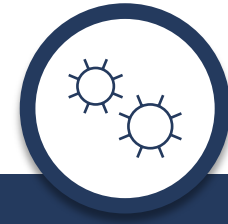
## Management

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

Use REST APIs 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 multi-tenancy 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/>

# Appendix

# Virtualisation scenarios



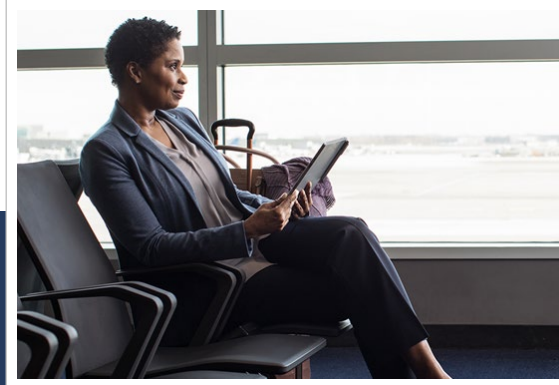
## Security and regulation

Financial services  
Healthcare  
Government



## Elastic workforce

Mergers and acquisition  
Short-term employees  
Contractor and partner access



## Specific employees

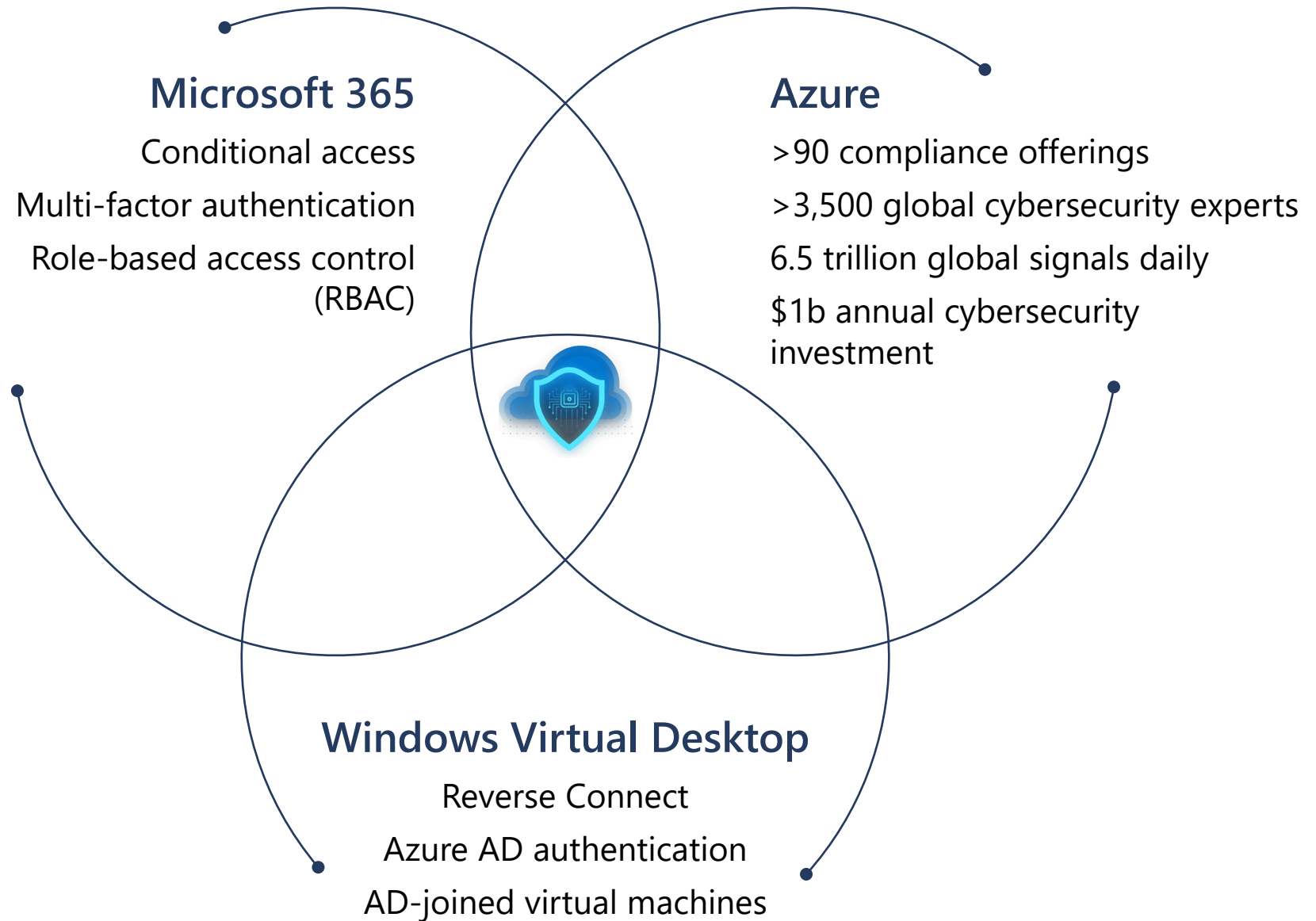
BYOD and mobile  
Call centres  
Branch workers



## Specialised workloads

Design and engineering  
Legacy apps  
Software dev test

# Blending the security of the convergence of the Microsoft ecosystem



# Traditional virtualisation 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



# Virtualisation 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