

Windows Virtual Desktop

Customer Presentation

Fall 2019

Virtualization can address a broad range of business needs



Security and regulation

Financial Services

Healthcare

Government



Flexible workforce

Mergers and acquisition

Short term employees

Contractor and partner access

BYOD and mobile

Call centers

Branch workers



Specialized workloads

Design and engineering

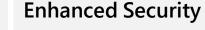
Legacy apps

Software dev test

WVD is Microsoft's virtualization service and delivers compelling value

Windows Virtual Desktop

Best User Experience



Simplified Management



Azure



Standardized, Global, & Secure

Superior Economics



Cost effective, Flexible, & Opex

Strong Partner Ecosystem



Extensive, Integrated, & Experienced



Platform of your choice



- Connect from any device of your choice (Windows, MacOS / iOS, HTML5, Android, Linux*)
- * Coming soon

Windows differentiation



- Like-local Windows experience
- Extensive support for devices

Enhanced protocol



- Support for Windows Hello for Business
- · Dynamically adapting bandwidth utilization

Containerized User Profiles



 Containerized User Profiles (FSLogix) with fast VHD load times

Native 0365 performance



- Uncompromised O365 email and calendar performance, Real-time Outlook search
- Persistent and non persistent environments

Teams Enhancements



- Best conferencing and media experience
- Multimedia redirection capability, highperformance, low latency audio & video calling







Azure AD **Security**Services



Sophisticated security services easily configured through Azure AD (e.g. MFA, CA, etc.)

Reduced **Attack**Surface



Reverse connect technology eliminates the need to open inbound ports to the VMs

Granular Access Control



Multiple admins can be assigned role-based access control

Isolated **User**Sessions



Isolated user sessions in both single and multisession environments



User Experience Management



- One service supports <u>both</u> Desktop & RemoteApp experience
- Flexible user experience through a <u>single</u> host pool, with multiple app groups
- Familiar Azure AD credentials, to access WVD resources

VM Management



- Multiple tools for automated VM deployment
- Enhanced OS/App update tools
- Disaster Recovery with integrated Azure Site Recovery

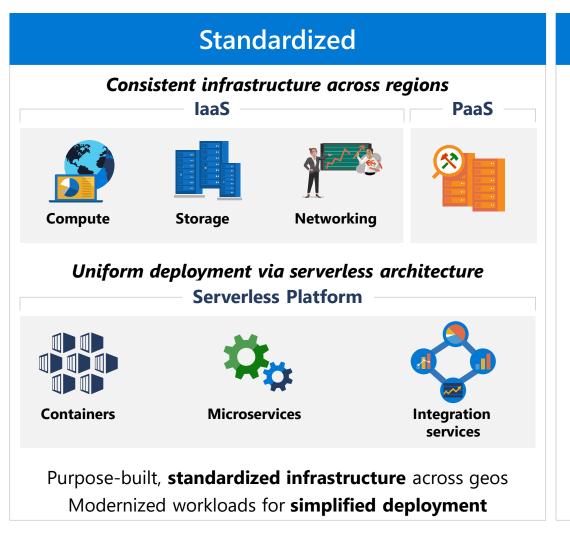
WVD Service Management



- Simplified and effective troubleshooting using advanced diagnostic service
- 3rd party value-added services enabled by APIs

Built on Azure: Standardized, Global, and Secure Cloud





Global

Largest geographical footprint of any cloud provider with more than **54 Azure regions**





Microsoft Cyber Defense Operations Center

>3,500 full-time security professionals

6.5 trillion global signals daily

\$1 billion annual cybersecurity investment

Superior Economics from Significant Cost Savings



Infrastructure ~70%* Savings

- Windows 10 experience at multi-session cost
- Cost effective compute and storage
- Flexible network provisioning
- Best value compute rate
- Opex spend aligned to business usage



- WVD management service included with the licenses you already own
- Savings on RDS CAL with multi-session deployment
- 3-year Windows 7 ESU included



- Lower labor cost because compute and storage move to cloud
- Lower labor cost when you use PaaS services

Note: Infrastructure includes compute, storage (laaS/PaaS), and networking

^{*}See Example Scenario: WVD Economic Benefits

^{**} industry analysis

Extensive Partner Ecosystem with Strong Virtual Desktop Expertise



WVD Approved Providers



- Citrix and VMware provide value add to WVD (e.g. hybrid deployment management)
- Windows 10 Enterprise multi-session is also available with Citrix & VMware management planes
- Customer ultimately decides the management plane(s) of choice

WVD Value-Added Partners













- WVD customers have access to a broad SW/Services partner network with expertise in
 - Customer Environment Assessment
 - Diagnostics & End User Experience Monitoring
 - Application Layering
 - Management
 - Printing
 - App Compatibility Assessment / Remediation

Detail on WVD value drivers follows ("double-click")

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Platform of choice



WVD allows users to connect from any device of their choice



User Experience Benefits

Local and remote UI is optimized for the various form factors across all supported platforms: Windows, macOS, iOS, HTML5, and Android

Linux SDK* will enable partners to build their own high performance WVD clients for their Linux endpoints

Performance of clients built on Linux SDK is at parity with other non-Windows clients

Windows experience is indistinguishable from native

MacOS client provides integrated RemoteApp experience iOS, Android, and HTML5 clients provide immersive RemoteApp experience

^{*} Coming soon

Best Virtualized End-user Experience Differentiated Windows Experience



Windows devices deliver the best WVD experience for end users



User Experience Benefits

Like-local Windows experience (integrated Start Menu, task bar, action center, App Switcher)

Extensive support for devices

Multiple monitor support (max 16 monitors with up to 8k x 8k resolution each)

RemoteApp indistinguishable from local apps

Integration with accessibility tools (e.g. Jaws)

Support for 3rd party extensions

Enhanced WVD / remote desktop protocol



RDP enhancements deliver the optimized WVD experience for end users



User Experience Benefits

Support for Windows Hello for Business and smartcard authentication

Dynamically adapting bandwidth utilization

Devices and resources redirection (camera, printers, multi-touch, pen, time zone, clipboard)

Dynamic resolution and scaling

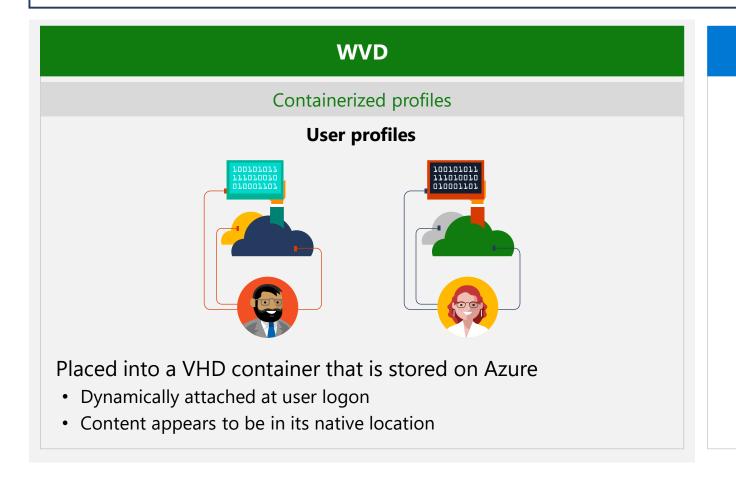
Better user experience with graphics optimized with mixed-mode encoding (clear text code for text and H.264 for video)

Containerized user profiles enable fast VHD load times



End users receive seamless O365 experience





User Experience Benefits

Achieves extremely fast logon times

Uses native Windows VHD capabilities – no hypervisor

Outlook Enhancements, OneDrive & Desktop Search Improvements

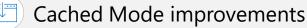


End users get native O365 performance and behavior in both non-persistent and persistent virtual environments



WVD





- ✓ Syncing of Inbox prior to 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 index is now per-user and can be persisted with the user profile
- Reliable OneDrive syncing in non-persistent environments
- OneDrive Files-on-Demand capabilities

* Coming soon

User Experience Benefits

Uncompromised O365 email and calendar performance

Real-time Outlook search

Speedy, persistent, per-user Windows Desktop search

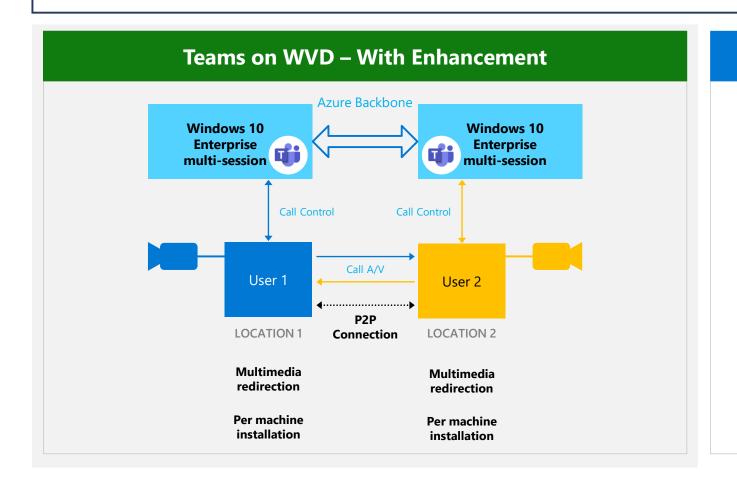
Seamless O365 co-authoring and collaboration in non-persistent environments

Teams Enhancements (Coming soon)



Teams provides end users with better conferencing and media experience





User Experience Benefits

Less network bandwidth compared to USB camera redirection

Increased video framerates, up to 30 fps

Enhanced UI for ease of use in virtualized environments

Ability to redirect multiple cameras

High-performance, low latency audio & video calling

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Simplified Management



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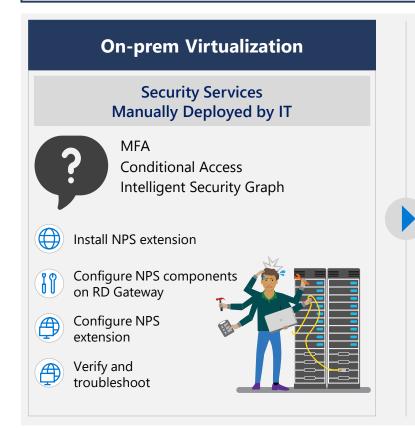
Azure AD security services are readily available



Customer Scenario – Moving from on-prem virtualization to WVD

• WVD customers can readily utilize sophisticated Azure AD security services via built-in integration







Security Benefit Enhanced security capabilities, already built in

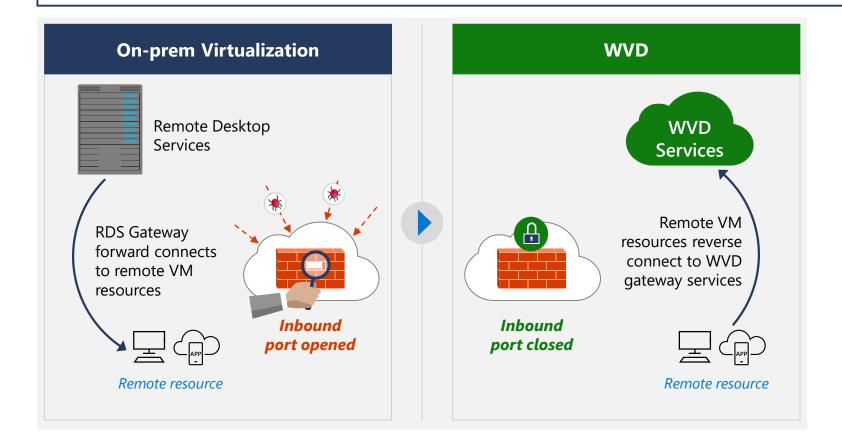
The attack surface is reduced, compared to on-prem



Customer Scenario – Moving from on-prem virtualization to WVD

• Reverse connect eliminates the need to open inbound ports, reducing the attack surface





Security Benefit

Reduced exposure to attacks

Less time monitoring inbound ports

Focus alerts on access and identity-based attacks

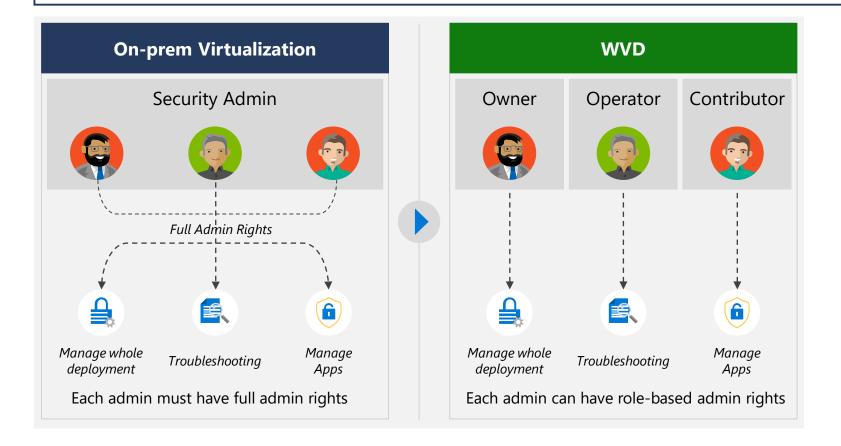
Granular access control enables role-based administration



Customer Scenario – Moving from on-prem virtualization to WVD

• WVD role-based access control enables delegation of admin rights at granular level





Security Benefit

Granular, role-based access control allows the admin to apply the "principle of least privilege"

User sessions are isolated

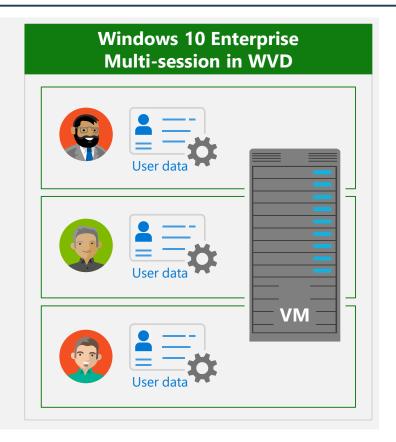


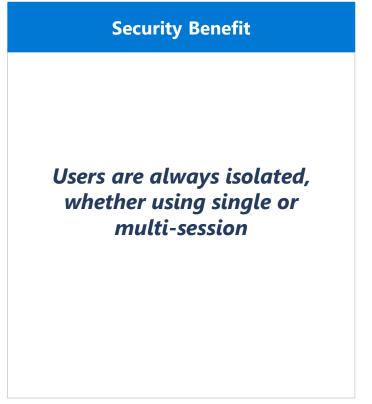
Customer Scenario – Deploys both Windows 10 Enterprise single-session and multi-session in WVD

• WVD ensures user isolation in both single and multi-session environment



Windows 10 Enterprise Single-session in WVD -VM





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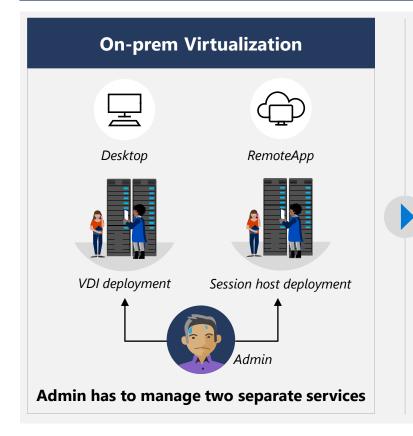
One service supports both desktop & RemoteApp experience

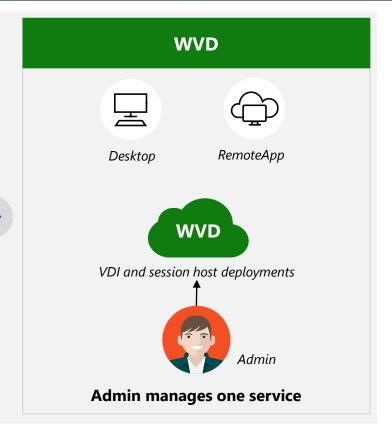


Customer Scenario – From on-prem virtualization to WVD

• Both desktop and RemoteApp are managed through one WVD service







Less labor and time required to manage both VDI and session host deployments

Management Benefit

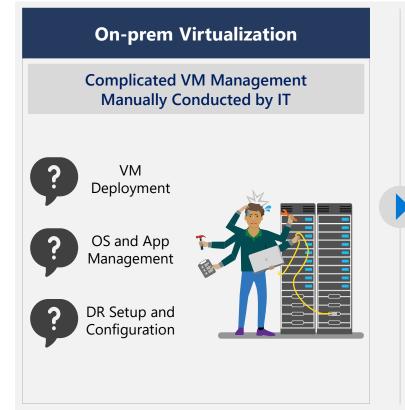
Readily-available VM management tools

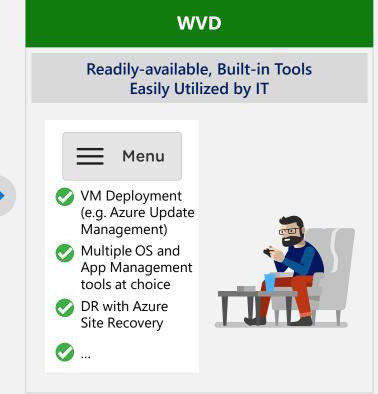


Customer Scenario – From on-prem virtualization to WVD

• WVD customers can leverage a broad set of VM management tools via WVD and Azure







Simplified management via versatile tools and automation

Management Benefit

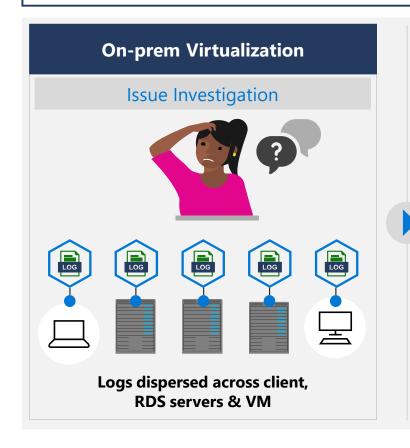
Simplified and Efficient Troubleshooting with Diagnostic Service

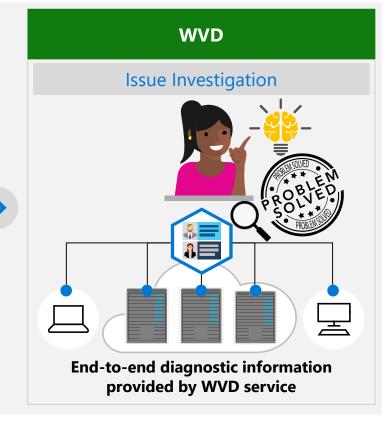


Customer Scenario – From on-prem virtualization to WVD

• Advanced Diagnostic Service enables WVD customers to identify root cause and fix issues more efficiently







Management Benefit

Fast root cause identification via advanced diagnostic services

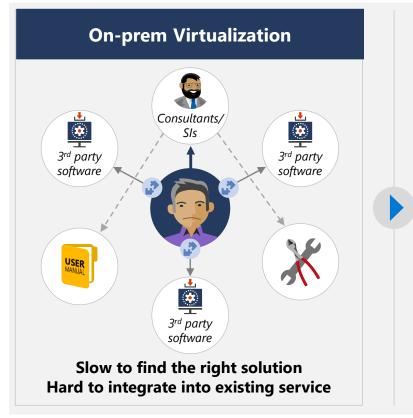
Extensive 3rd Party Value-added Services Enabled by APIs

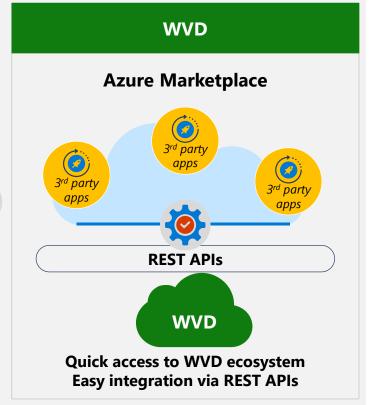


Customer Scenario – From on-prem virtualization to WVD

• WVD customers have access to best-of-breed management solutions, including 3rd party apps







Access to rapidly growing WVD ecosystem of management solutions

Management Benefit

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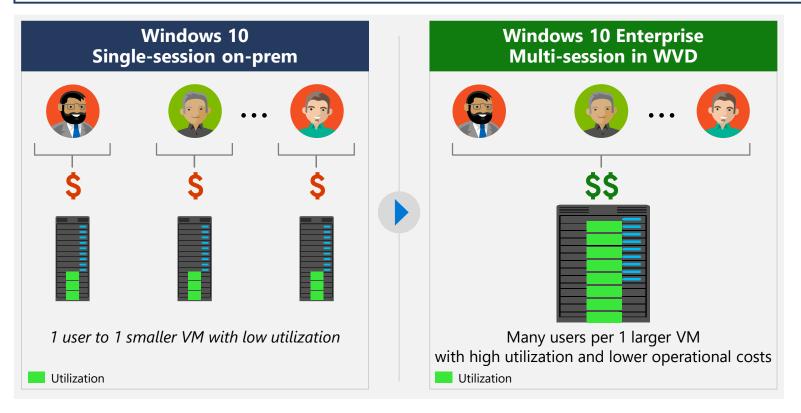
Windows 10 Experience at Multi-session Cost

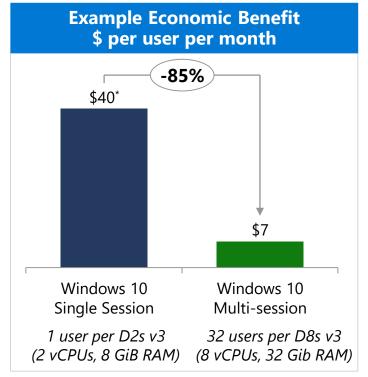


Customer Scenario – From Windows 10 single-session on-prem to Windows 10 multi-session in WVD

• Trade many small dedicated VMs for few large shared VMs (with higher utilization and lower operational costs)







Note: WVD is the only way to run Windows 10 Multi-Session

Note: Figures are illustrative and based on pre-configured assumptions; actual savings vary by user requirements and infrastructure configuration

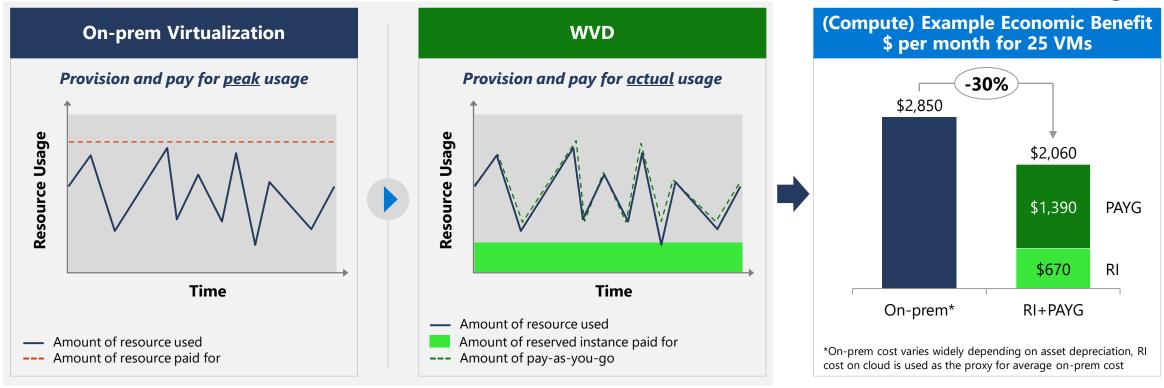
Cost Effective Compute and Storage*



Customer Scenario – From on-prem virtualization to WVD

• Pay for actual usage instead of peak usage; optimize compute by using both Pay-as-you-go and Reserved Instance





^{*}When using Azure NetApp Files or Azure Files for storage, customers pay for actual consumed storage (vs. pay for fixed-sized disks)

Note: Figures are illustrative and based on pre-configured assumptions; actual savings vary by user requirements and infrastructure configuration

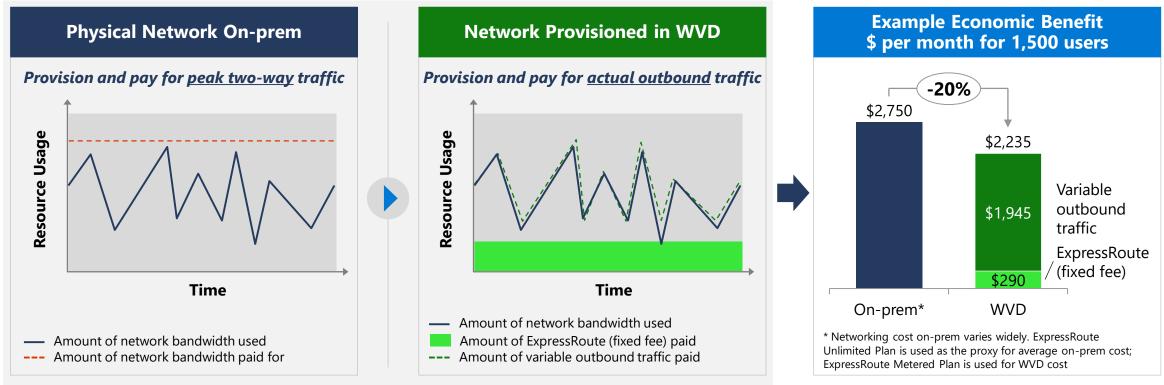
Flexible Network Provisioning



Customer Scenario – From Physical Network on-prem to Network Provisioned in WVD

- Pay for actual outbound data transfer instead of peak two-way data transfer;
- Optimize networking cost by using both fixed fee and variable outbound traffic





Note: Customers can connect from on-prem physical networks to Azure virtual networks via two ways: Virtual Private Network (VPN) or ExpressRoute

Note: Variable outbound traffic can be implemented via Virtual Network or ExpressRoute

Note: Figures are illustrative and based on pre-configured assumptions; actual savings vary by user requirements and network configuration

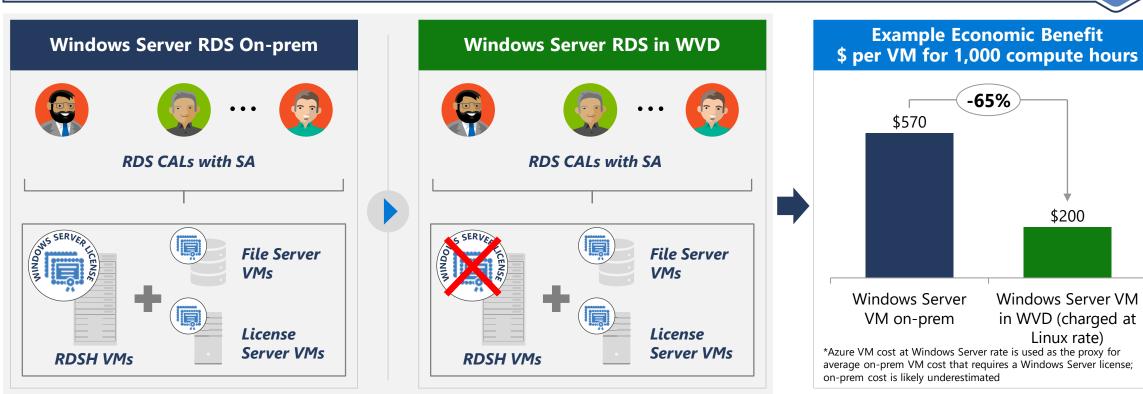
Best Value Compute Rate



Customer Scenario – From Windows Server on-prem to Windows Server in WVD

• WVD doesn't require Windows Server license for session host VMs (i.e. session host VMs charged at Linux compute rate)





Note: Non-session host VMs still require Windows Server license (only if Azure Hybrid Benefits are not available)

Note: With Azure NetApp Files or Azure Files, customers also save the cost of Windows Server license and its hosting VM that would otherwise be required by File Server Note: Figures are illustrative and based on pre-configured assumptions; actual savings vary by user requirements and infrastructure configuration

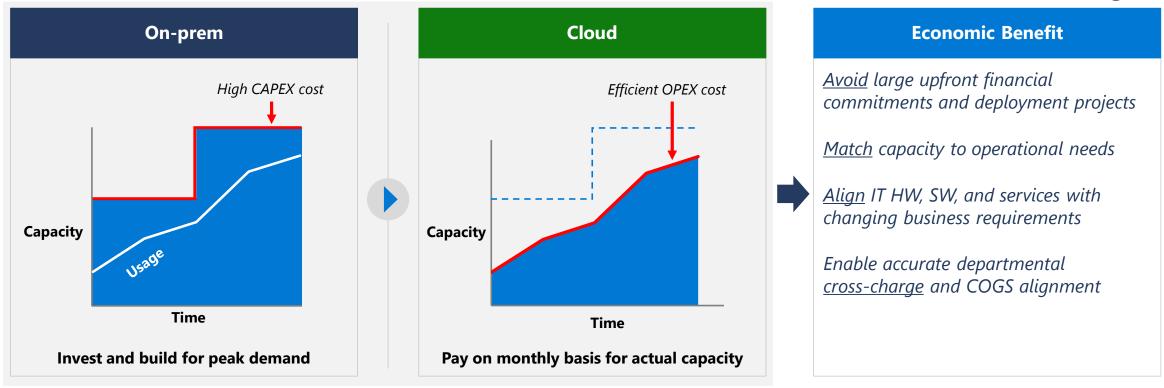
Opex Spend Aligned to Business Usage



Customer Scenario – On-prem to Cloud

• From up-front Capex commitment to flexible Opex investment





Note: Figures are illustrative and based on pre-configured assumptions; actual savings vary by user requirements and infrastructure configuration

Cost-advantaged licensing

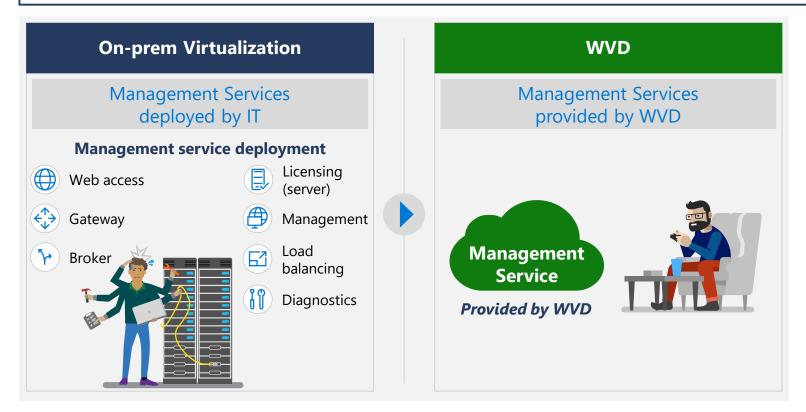
Management Service Included With the Licenses you Already Own





- WVD management service included with the licenses* most Microsoft customers own
- Eliminate the infrastructure cost associated with on-prem management services





No management infrastructure needed No additional licenses required Reduced labor cost

^{*}See Appendix for WVD Client licensing requirements, including specific SKUs

Note: Figures are illustrative and based on pre-configured assumptions; actual savings vary by user requirements and current licensing position

Note: Customers who require Citrix or VMware management services to meet their needs will incur additional cost

Cost-advantaged licensing

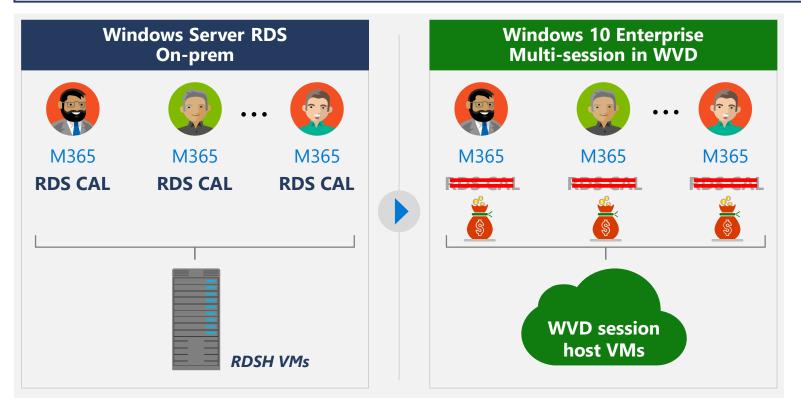
Savings on RDS CAL with Multi-session Deployment



Customer Scenario – From Windows Server RDS on-prem to Windows 10 Enterprise Multi-session in WVD

• Save on RDS CAL when migrating from Windows Server RDS on-prem to Windows 10 Enterprise multi-Session* in WVD





Economic Benefit \$17 Saving** Per user per month **This saving applies when customers migrate from Windows Server deployment to Windows 10 multi-session in WVD; Windows Server in WVD still requires RDS CAL

*Customers can leverage the license (e.g. M365 E3/E5, Win 10 E3/E5) they already own. See Appendix for a complete list of WVD licensing requirements Note: Figures are illustrative and based on pre-configured assumptions; actual savings vary by user requirements and current licensing position Note: Customers need to fully refactor desktops and apps when migrating from Windows Server deployment to Windows 10 multi-session in WVD

Cost-advantaged licensing

3-year Win7 ESU Included



Customer Scenario – From Windows 7 on-prem to Windows 7 in WVD

• With WVD, 3-year Extended Security Update is included for Windows 7 VMs running on Azure*







Economic Benefit
\$25-200 Savings Per device per year

Note: Figures are illustrative and based on pre-configured assumptions; actual savings vary by user requirements and current licensing position

^{*}Benefit not applicable to Windows 7 running on local devices

Reduced Labor Requirements





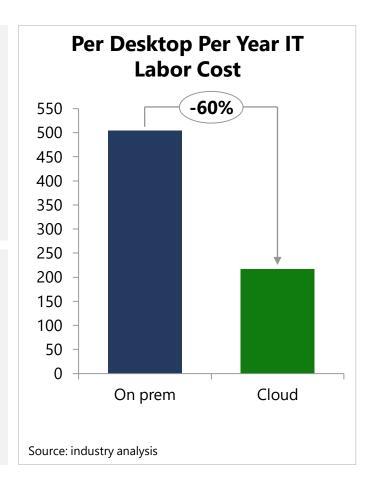
Lower labor cost because compute and storage move to cloud

- Eliminate high overhead associated with managing on-premise infrastructure
- Reduced labor cost due to increased automation in the cloud



Lower labor cost when you use PaaS services

- WVD delivered as an evergreen PaaS service, reducing your labor cost for managing and upgrading management plane
- Simplified file storage management, leveraging fully managed NetApp Files service



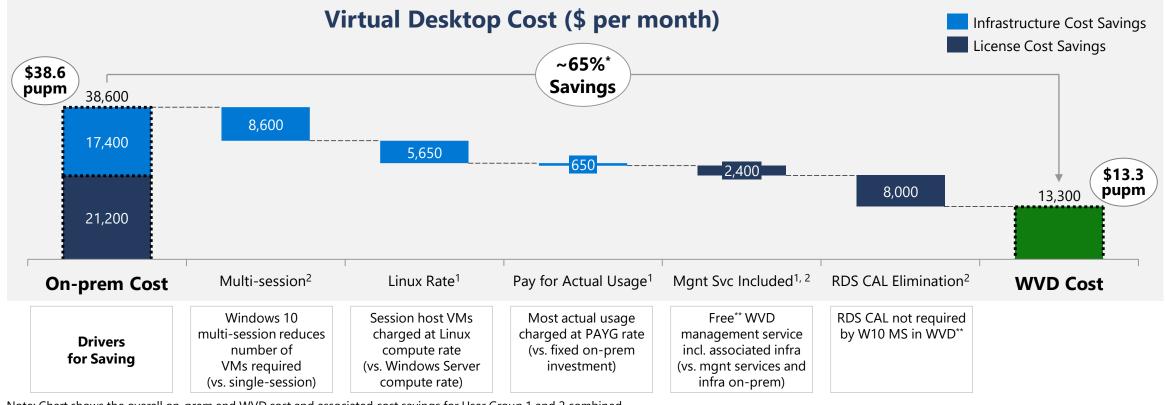
Note: Figures are illustrative; actual savings vary by user requirements and current virtual desktop operating model

Example Scenario: WVD Economic Benefits



Example Migration Scenario

- User Group 1: 800 medium workload users (session running 170 hrs/month): From Windows Server on-prem to Windows 10 multi-session in WVD
- User Group 2: 200 medium workload users (session running 400 hrs/month): From Windows 10 single-session on-prem to Windows 10 multi-session in WVD



Note: Chart shows the overall on-prem and WVD cost and associated cost savings for User Group 1 and 2 combined

Note: Given on-prem costs are highly variable, Azure reserved instance cost is used as the proxy for average on-prem cost; on-prem cost is likely underestimated Note: Results generated by WVD Solution Configurator, an excel-based tool for sizing WVD opportunities; figures are rounded for simplicity

1 – Savings for User Group 1; 2 – Savings for User Group 2

^{*~70%} Savings on infrastructure cost and ~60% on license cost, respectively; labor cost excluded

^{**}Many customers already own licenses that qualify them for WVD (e.g. Win10 E3/E5, M365 E3/E5, VDA) and incur no additional cost for WVD

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WVD Value-Added **Partners**









SAMSUNG





WVD Hardware Partners













Strong Expertise in Virtual Desktop Deployment and Management



Category	Description	Partner Solution Examples	Delivery Mechanism
Customer Environment Assessment	Assess resource utilization of apps/users/OS, baseline user experiences and recommend sizing for WVD	LakesideLiquidwareControlUp	Azure MigrateOCP
Diagnostics & End User Experience Monitoring	Assess, monitor, and manage end user experiences with GUI enabling reactive troubleshooting as well as predictive troubleshooting leveraging AI/ML	LakesideLiquidwareControlUpRDPSoftSepago	Azure Marketplace
Application Layering	Enable dynamic provisioning of apps during boot/log on time based on user profile	LiquidwareCitrix's Unidesk	Azure Marketplace
Management	Deployment and configuration	 Active Cypher CloudVae CloudJumper Nerdio PTG Ubikite 	Azure Marketplace
Printing	Remove the need for print server infrastructure	UprintThinPrint	Azure Marketplace
App Compat Assessment / Remediation	Assess app compatibility for layering new packaging	CloudhouseLiquidwareCitrix's UnideskNumecent	Azure Marketplace

Thank You

Appendix

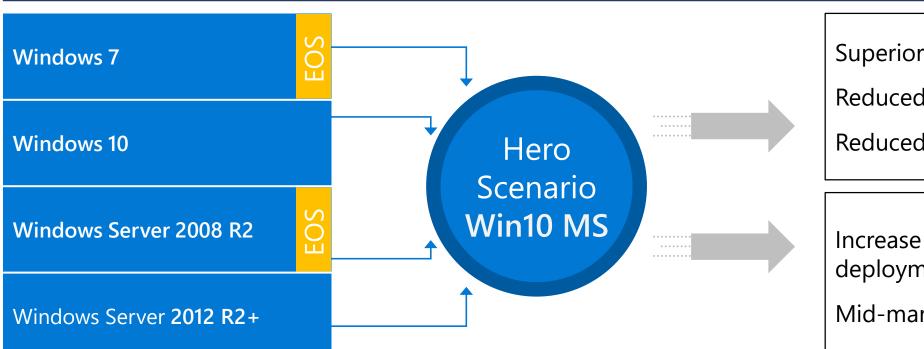
Windows Virtual Desktop

The best virtual desktop and app experience, delivered on Azure



The ONLY multi-session Windows 10 experience

Multiple users <u>active simultaneously</u> on the same VM Each user's data is isolated from every other user



Superior price-performance

Reduced compute costs

Reduced storage costs

Increase in Client-based deployments

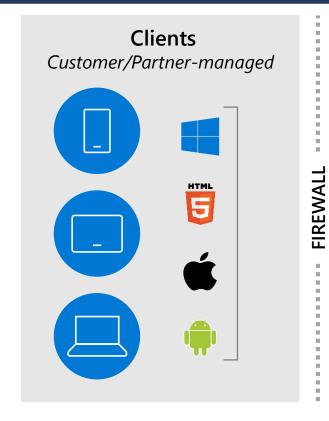
Mid-market adoption

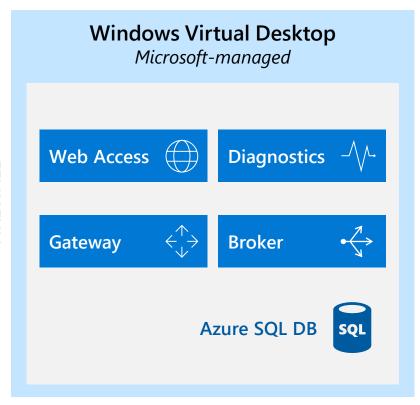


Application compatibility and user experiences vary between Server and Client OS

WVD Architectural Overview

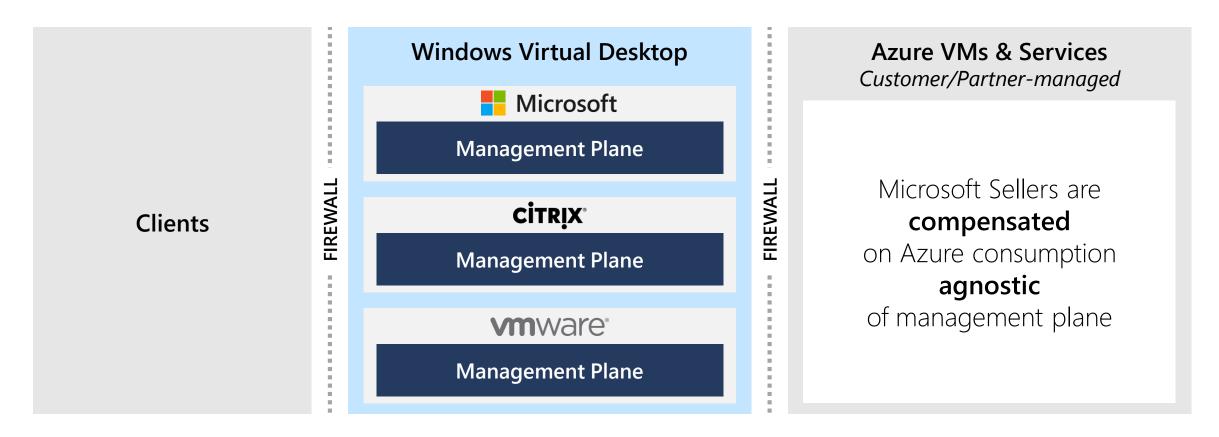
3 BIG PIECES







Citrix & VMware integration



- Citrix and VMware provide value add to WVD (e.g. hybrid deployment management)
- Windows 10 multi-session is also available with Citrix & VMware management planes
- Customer ultimately decides the management plane(s) of choice

Many customers are already eligible for WVD

WVD Licensing Requirements

CLIENT

Customers are eligible to access Windows 10 and Windows 7 with Windows Virtual Desktop (WVD) if they 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.

SERVER

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

All discounts and benefits of Azure apply to WVD

► Virtualization endpoints only Burst-to-Azure (cloud) ► Brand new virtualization env

Windows VirtualDesktopLift and shift andModernize

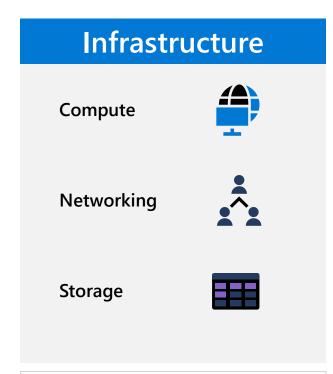
Azure Hybrid User Benefit

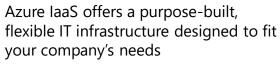
Azure Consumption based Incentive Programs

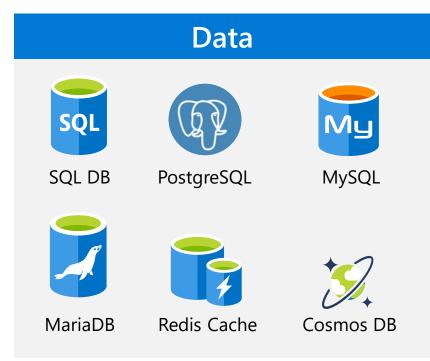
CSP Margins & Rebates Reserved Instances

DPOR

Azure Enhances Productivity







Intelligent

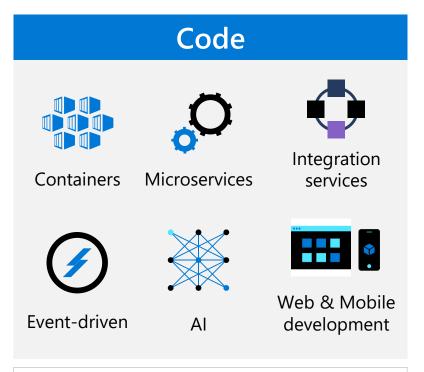
- Intelligent Protection
- Intelligent Performance

Flexible

- Hyperscale
- Elastic scaling
- Resource governance

Trusted

- Always Encrypted (secure enclave)
- Business Continuity, HA/DR
- Industry Compliance certifications
- Enterprise security isolation



Azure is a turn-key delivery platform for modern applications that offers a broad range of managed services for all application scenarios, allowing you to choose the best approach for your cloud-native applications.

Microsoft is Your Trusted Technology Partner

Trusted business partner



Microsoft mission

"Empower every person and every organization on the planet to achieve more"



Satya Nadella, Microsoft CEO *October 2018*

"No customer wants to be dependent on a provider that sells them technology on one end and competes with them on the other. Getting this equation right is key to their success going forward. Microsoft is uniquely positioned to help."

Trusted innovation partner

Shared IP Innovation Principles:

Microsoft's policies give customers peace of mind and clarity when innovating with us

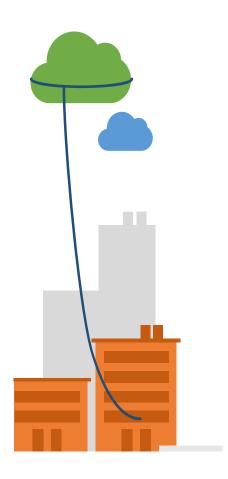
Azure IP Advantage:

Microsoft offers best-in-industry protection against IP risks



Microsoft is committed to WVD as the future of the Windows platform

- 1 Broad availability and rapid global rollout of the WVD Service
- 2 Compelling infrastructure and licensing pricing to end customers
- Plan to support wide range of devices, including mobile and thin client running other operating systems
- Rapid innovation/integration with Microsoft and Azure products e.g., Teams, Microsoft Defender ATP
- Wide partner ecosystem to build on/integrate with WVD



Calculation Backups

WVD Infrastructure Cost* at a Glance



Customer Requirements

- User Type: Medium (Microsoft Office apps users)
- # of Users: 1,000
- Peak Concurrency: 80%
- Profile Storage Requirement: 20GB / user
- Network egress: 100 kpbs / user

Key Infrastructure Assumptions

Compute:

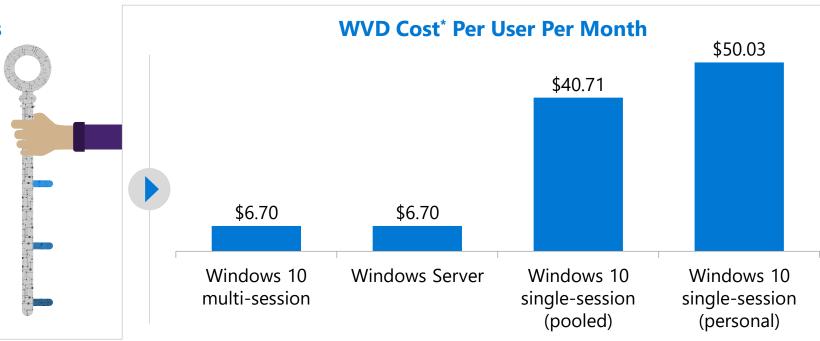
- East US
- 3-year Reserved Instance
- D8s v3 (for multi-session)
- 4 users/vCPU (for multi-session)
- D2s v3 (for single-session)

Storage:

Azure NetApp Files

Networking:

 Virtual Network (East US Same Region)



Note: Results generated by WVD Solution Configurator, an excel-based tool for sizing WVD opportunities; figures are rounded for simplicity

^{*}License cost not included; Many customers already own licenses that qualify them for WVD (e.g. Win10 E3/E5, M365 E3/E5, VDA) and incur no additional license cost for WVD

WVD Cost Estimation for Win10 multi-session vs. Win10 single-session(1/3)

Opportunity Profile

WVD Opportunity	User Group 1	User Group 2
WVD (W7, W10, W10 MS, WS)	Windows 10 multi-session	Windows 10
Customer Environment / User Requirements		
User Type	Medium	Medium
Named (total) users	1,000	1,000
Peak Concurrency	80%	80%
Pooled / Personal	Pooled	Pooled
Azure Region (for infrastructure)	US-East	US-East

WVD Cost Estimation for Win10 multi-session vs. Win10 single-session(2/3)

Compute Cost

Session Host VM	User Group 1	User Group 2	
OS Type	Windows 10 multi-session	Windows 10	
Pooled / Personal	Pooled	Pooled	
Deployment Type	Multi-session	Single-session	
# users/vCPU (only valid for multi-session) (Default)	4	N/A	
VM Instance (Default)	D8s v3	D2s v3	
Reserved Instance (Default)	3-year reserved	3 -year reserved	
Price / hour per VM	\$0.147	\$0.0368	
Users per VM	32	1	
Peak hours / month per VM	730	730	
VMS during peak hours	26	801	
Total VM cost / month	\$2,797	\$21,536	
OS Disk (for Session Host VM)	User Group 1	User Group 2	
OS Disk size (GB) required (Default)	127	127	
# OS Disk per VM (Default)	1	1	
OS Disk Tier (Default)	Premium	Premium	
OS Disk	premiumssd-p10	premiumssd-p10	
OS Disk cost per VM	\$19.71	\$19.71	
# VMS during peak hours	26	801	
Total OS Disk cost / month during peak hours	\$512.46	\$15,787.71	
Total OS Disk cost / month	\$512.16	\$15,787.71	

Storage Cost

Storage Requirements	User Group 1	User Group 2
Storage GB/user (Default)	20	20
Total profile storage required (GB)	20,000	20,000
Azure NetApp Files		
Azure Region	US-East	US-East
Pricing Option	Month	Month
Storage Hours	N/A	N/A
Storage Tier (Default)	Standard	Standard
Cost / GB / (Month or Hour)	\$0.15	\$0.15
Total Azure NetApp Files Storage cost / month	\$2,949.20	\$2,949.20

WVD Cost Estimation for Win10 multi-session vs. Win10 single-session(3/3)

Networking Cost

Virtual Network	User Group 1	User Group 2
Source vNet Region	US-East	US-East
Destination vNet Region	US-East	US-East
Туре	Same Region	Same Region
Network egress (Default kbps per user)	150	150
Average work hours (per user per month)	160	160
Network egress (GB per user per month)	66	66
Network egress (total GB)	65,918	65,918
Cost per GB	\$0.01	\$0.01
Total Virtual Network Cost / month	\$659.18	\$659.18

Total Cost

WVD Total Infrastructure Cost (Total cost / month)	User Group 1	User Group 2
Compute	\$3,309.54	\$37,323.32
Storage	\$2,949.20	\$2,949.20
Networking	\$659.18	\$659.18
EA or Other Customer Discount	0%	0%
Total Azure Infrastructure cost / month	\$6,917.92	\$40,931.70
Named (total) users	1,000	1,000
Azure Infrastructure cost / user / month	\$6.92	\$40.93

Default Values (Microsoft Guidance) for WVD Cost Estimation

User Type Profiles	Light	Medium	Heavy	Heavy Graphics
Description	Ideal for lightweight use cases with such as data entry and call center apps.	Ideal for basic Microsoft Office apps such as Word and Excel, as well as database apps.	Ideal for more intensive workloads such as development or engineering.	Ideal for graphics intensive apps such as 3D CAD and Adobe Photoshop.
VM Instance (Default) Multi-session	D8s v3	D8s v3	D8s v3	NV6
VM Instance (Default) Single-session	D2s v3	D2s v3	D2s v3	NV6
# users/vCPU (only valid for multi-session) (Default)	6	4	3	1
OS Disk size (GB) required (Default)	127	127	127	127
# OS Disk per VM (Default)	1	1	1	1
OS Disk Tier (Default)	Premium	Premium	Premium	Premium
Profile Data Disk size (GB) required (Default)	2,000	2,000	2,000	2,000
Storage GB/user (Default)	20	20	20	20
Storage Option (Default)	Azure NetApp Files	Azure NetApp Files	Azure NetApp Files	Azure NetApp Files
Storage Tier (Default)	Standard	Standard	Standard	Standard
Profile Data Disk Tier (Default)	Premium	Premium	Premium	Premium
Network egress (Default kbps per user)	75	150	500	1,000