

## WVD is Microsoft's virtualization service and delivers compelling value

### **Windows Virtual Desktop**

Best User Experience



**Enhanced Security** 



Simplified Management



Azure



Standardized, Global, & Secure

**Superior Economics** 



Cost effective, Flexible, & Opex

Strong Partner Ecosystem



Extensive, Integrated, & Experienced

# Virtualization addresses 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

# Best Virtualized End-user Experience



### 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





# Enhanced Security with Simplified Configuration



### 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

# Efficient and Simplified Management



### **User Experience Management**



- One service supports <u>both</u> Desktop & RemoteApp experience
- Flexible user experience through a <u>single host</u> <u>pool</u>, 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

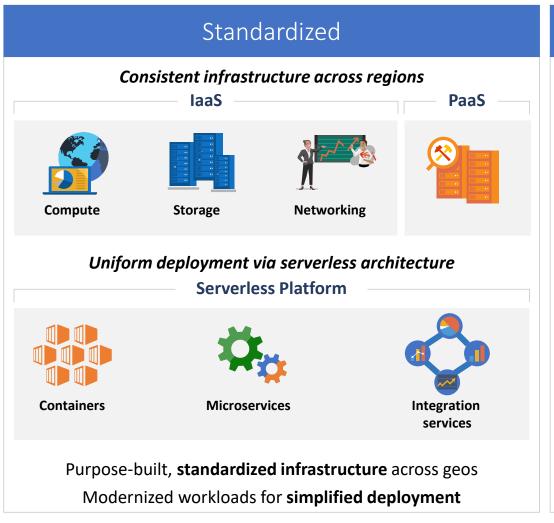
# WVD Service Management

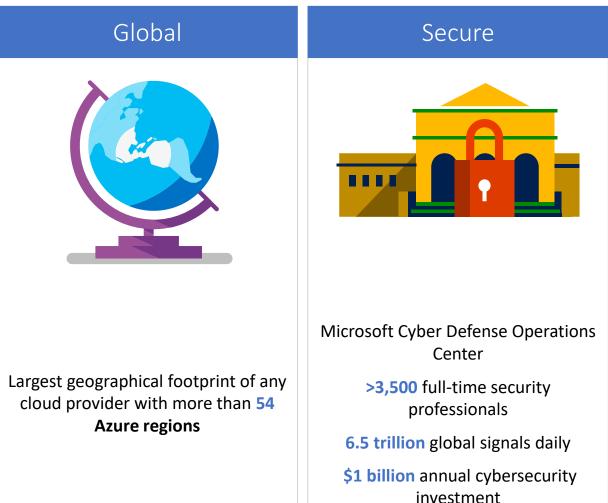


- Simplified and effective troubleshooting using advanced diagnostic service
- 3rd party value-added services enabled by APIs

# Built on Azure: Standardized, Global, and Secure Cloud







# 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



Savings on RDS CAL with multi-session

• 3-year Windows 7 ESU included

deployment

- Labor

  ~60%\*\*
  Savings
- 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

<sup>\*</sup>See Example Scenario: WVD Economic Benefits

<sup>\*\*</sup> 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

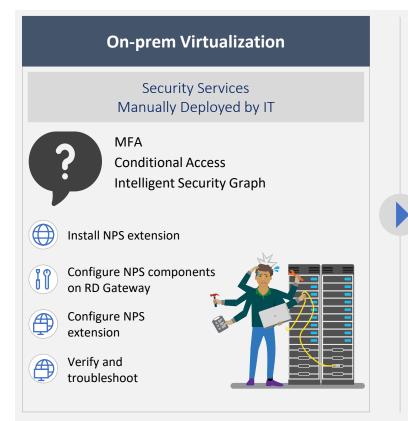
# Azure AD security services are readily available



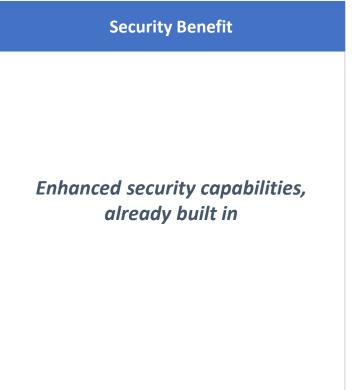
### **Customer Scenario – Moving from on-prem virtualization to WVD**

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









Note: with WVD on Azure AD, admin can set up Conditional Access (CA) controls once and then easily expand that CA to other applications

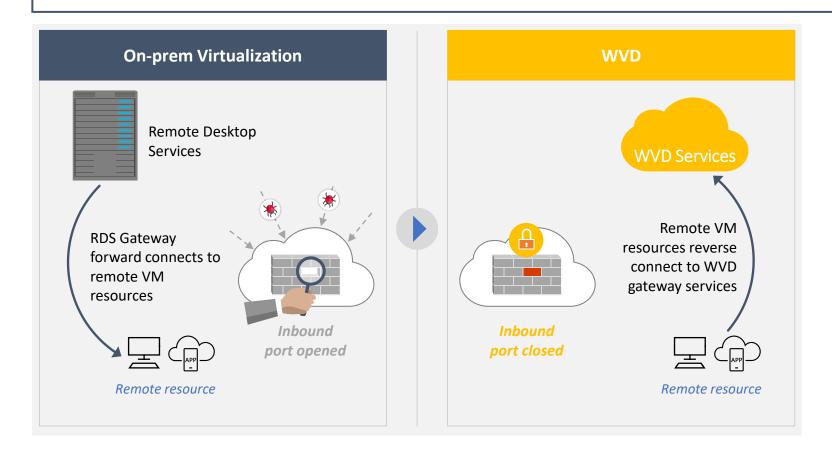
# The attack surface is reduced, compared to on-prem



### **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 identitybased attacks

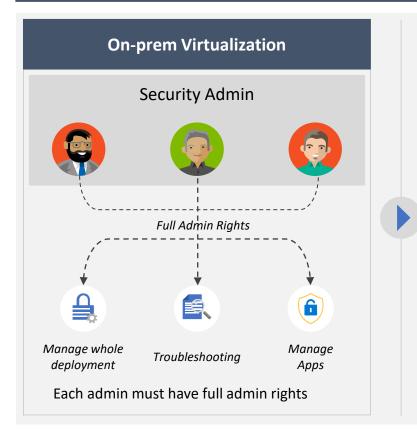
# Granular access control enables role-based administration



### **Customer Scenario – Moving from on-prem virtualization to WVD**

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







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

**Security Benefit** 

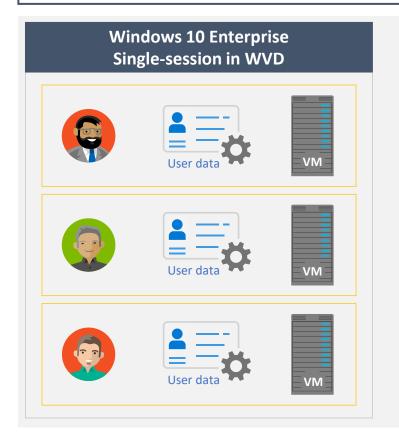
# User sessions are isolated

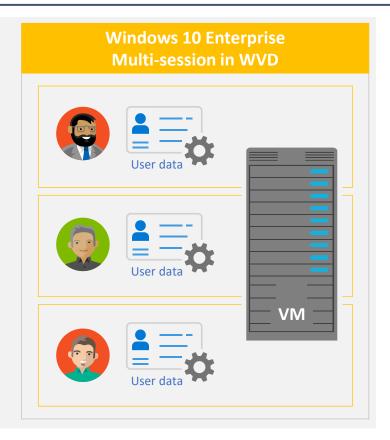


### **Customer Scenario – Deploys both Windows 10 Enterprise single-session and multi-session in WVD**

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







# Users are always isolated, whether using single or multi-session

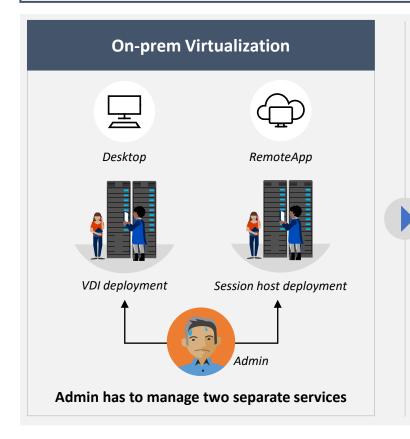
# One service supports both desktop & RemoteApp experience

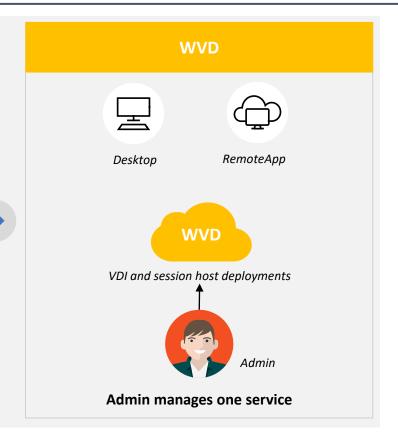


#### Customer Scenario – From on-prem virtualization to WVD

• Both desktop and RemoteApp are managed through one WVD service









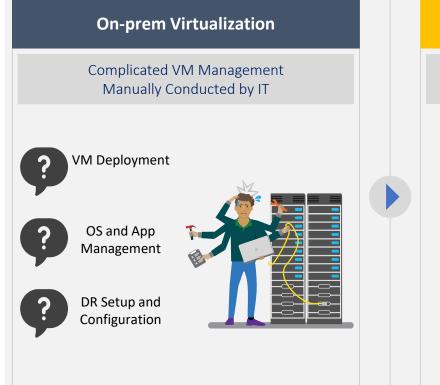
# Readily-available VM management tools

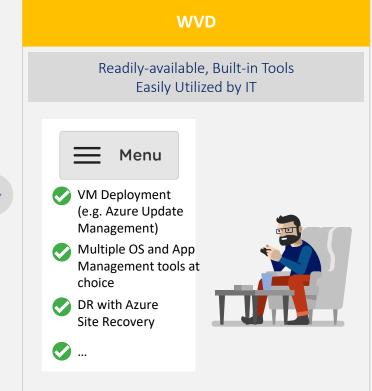


### **Customer Scenario – From on-prem virtualization to WVD**

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









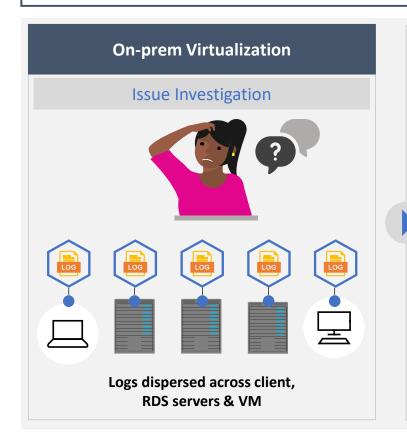
# Simplified and Efficient Troubleshooting with Diagnostic Service



### **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

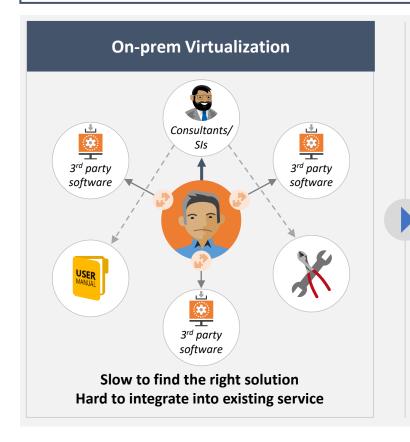
# Extensive 3rd Party Value-added Services Enabled by APIs

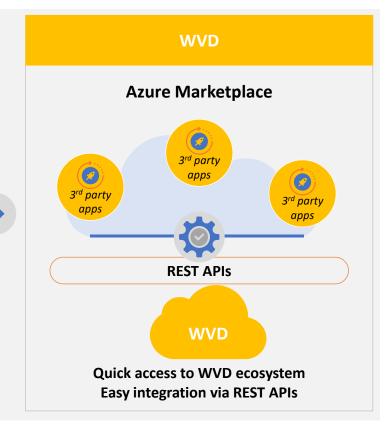


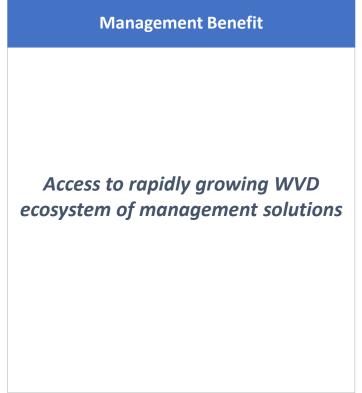
#### Customer Scenario – From on-prem virtualization to WVD

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





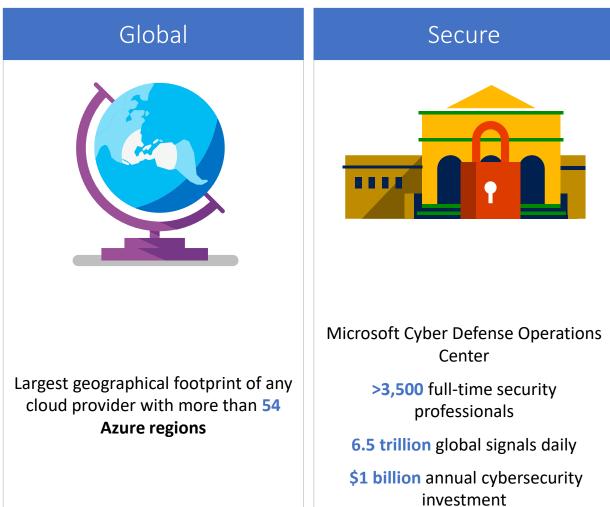




# Built on Azure: Standardized, Global, and Secure Cloud







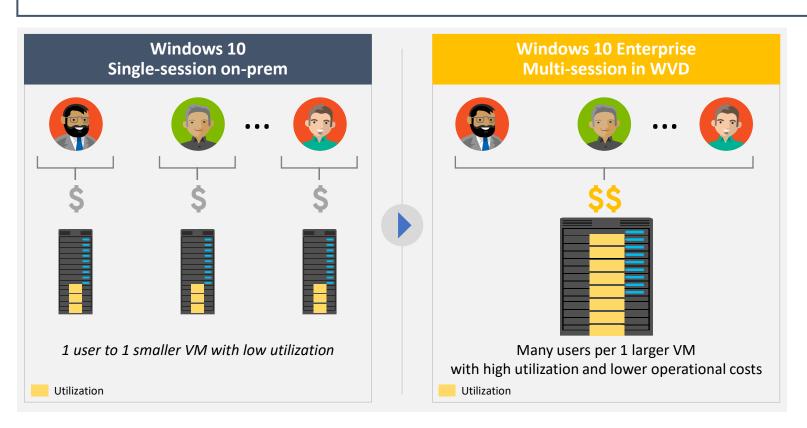
# Windows 10 Experience at Multi-session Cost

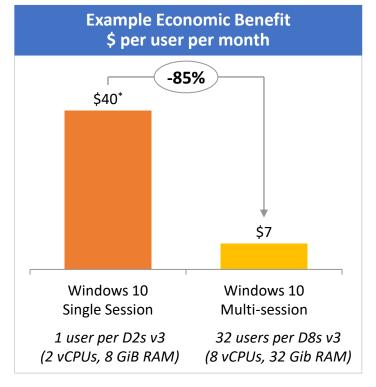


### Customer Scenario – From Windows 10 single-session on-prem to Windows 10 multi-session in WVD

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

\*The \$40 PUPM for single session cost is modeled for a common configuration: Windows 10 single-session in WVD starts at ~\$15 per user per month for 1 vCPU, 2 GiB RAM 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

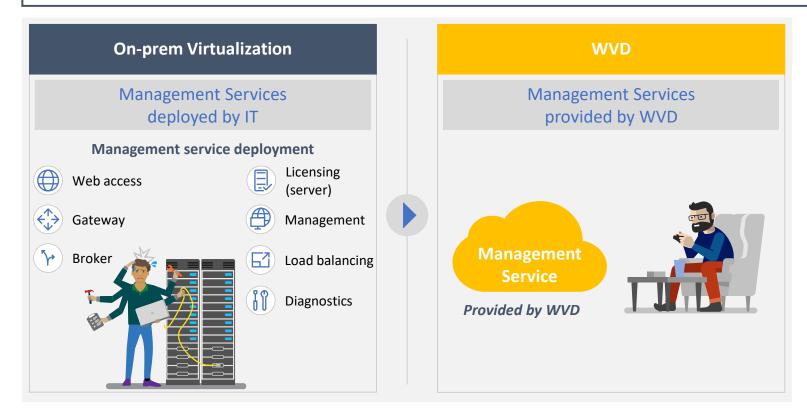
# Management Service Included With the Licenses you Already Own



#### Customer Scenario – From on-prem virtualization to WVD

- 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

<sup>\*</sup>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

# 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

### 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)

<sup>\*</sup>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.



### **INDIA**

Shalmali Arcade, #432, 2nd Floor, 7th Main, 80 Feet Road, 1st Block, HRBR Layout, Kalyan Nagar, Bangalore – 560 043

P: +91-80-40954277

No 9, Chinnaya Street, Satyamurthy Nagar, T Nagar, Chennai - 600017

P: +91-44-45556044

### US

6505 Lvy Summit Ct, Cumming Georgia – 30041 United States

### **SINGAPORE**

51 Changi Business Park, Central 2, #04-05, The Signature Singapore – 486066

P: +65 90272617

contactus@xencia.com