

# Solution for the Agile & Scalable Enterprise

Access a secure remote virtual desktop and  
app experience, delivered on Azure

Logicalis Desktop as a Service (DaaS)



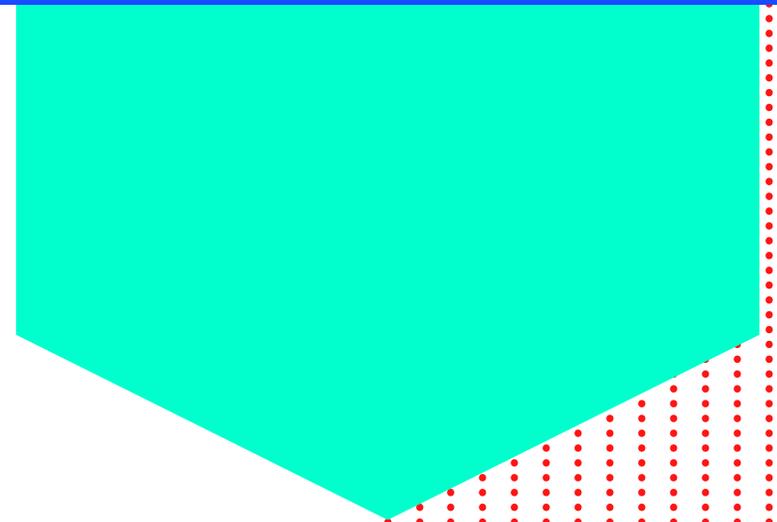
**We are Logicalis,**

we combine strategy

with technical excellence

to help you build, refine and

realise your transformation vision.



We're in the top 1% of Microsoft

Azure partners globally.

As an Azure Expert Managed Services Provider we help clients maximise and accelerate the benefits that can be achieved from Azure.

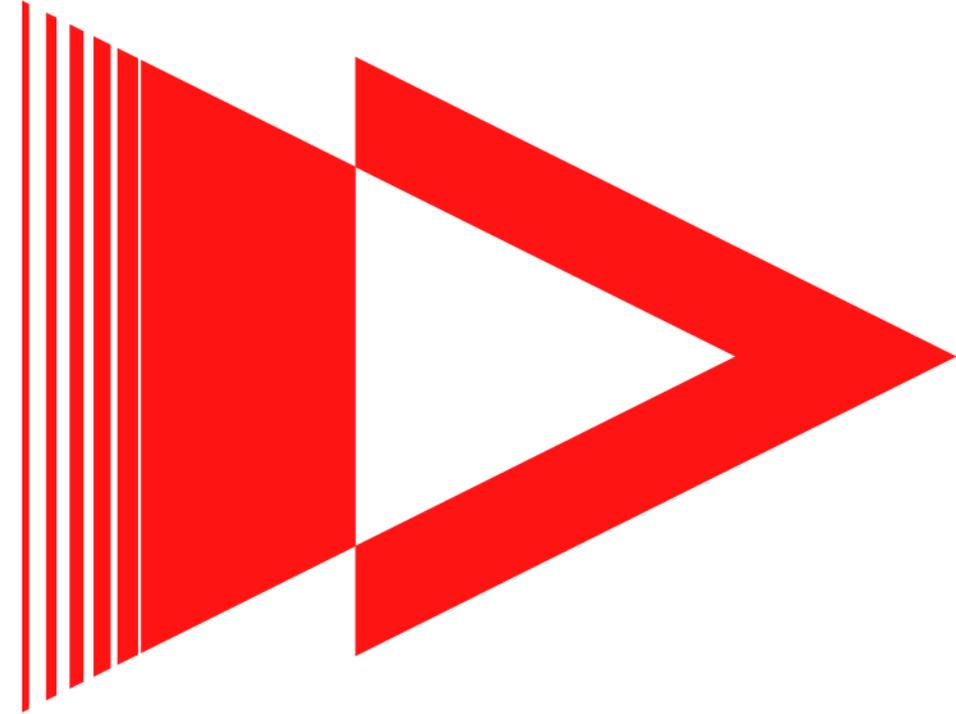
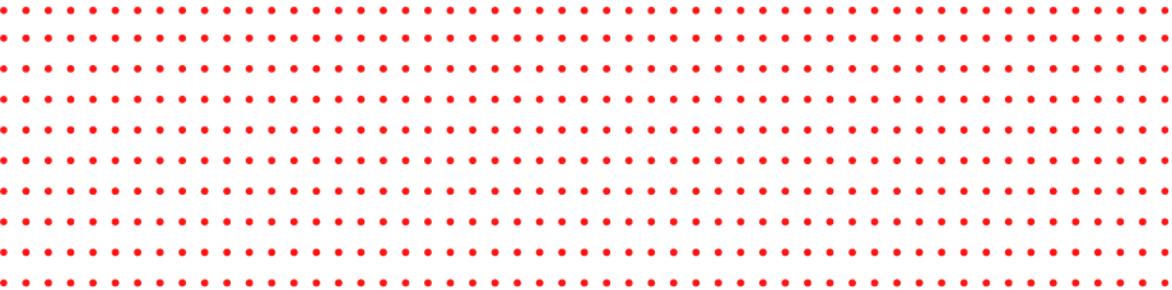
**Our managed services expertise allows us to:**

- ▶ Accelerate business growth without limits using infinite compute capacity.
- ▶ Leverage the full potential of new innovative features offered continuously by Azure.
- ▶ Ensure your platform and ecosystem are fully compliant and as secure as they possibly can be.
- ▶ Align your cloud strategy with your wider business strategy and objectives.

Gold  
Microsoft  
Partner  
 Microsoft

Azure  
Expert  
MSP

# Introduction to Microsoft Azure Virtual Desktop (AVD)



# What is Azure Virtual Desktop?

Azure Virtual Desktop is desktop and app virtualization service that runs on the cloud

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Enable a secure remote desktop experience from virtually anywhere

# Desktop as a Service

Azure Virtual Desktop (AVD) is a technology that allows students to connect to a desktop or application on a remote system - bypassing the need to install the application locally. Applications available include SPSS, MATLAB, Microsoft Office application, and more. These virtual applications and desktop can be accessed in two ways, via a web browser or by downloading the remote desktop client and subscribing to a feed. In most cases, the application will respond better by downloading the client and subscribing to a feed. The VPN is not needed with either method.



## Security and regulation

Financial Services  
Healthcare  
Government



## Elastic workforce

Mergers and acquisition  
Short term employees  
Contractor and partner access  
Academic



## Specific employees

BYOD and mobile  
Call centers  
Branch workers



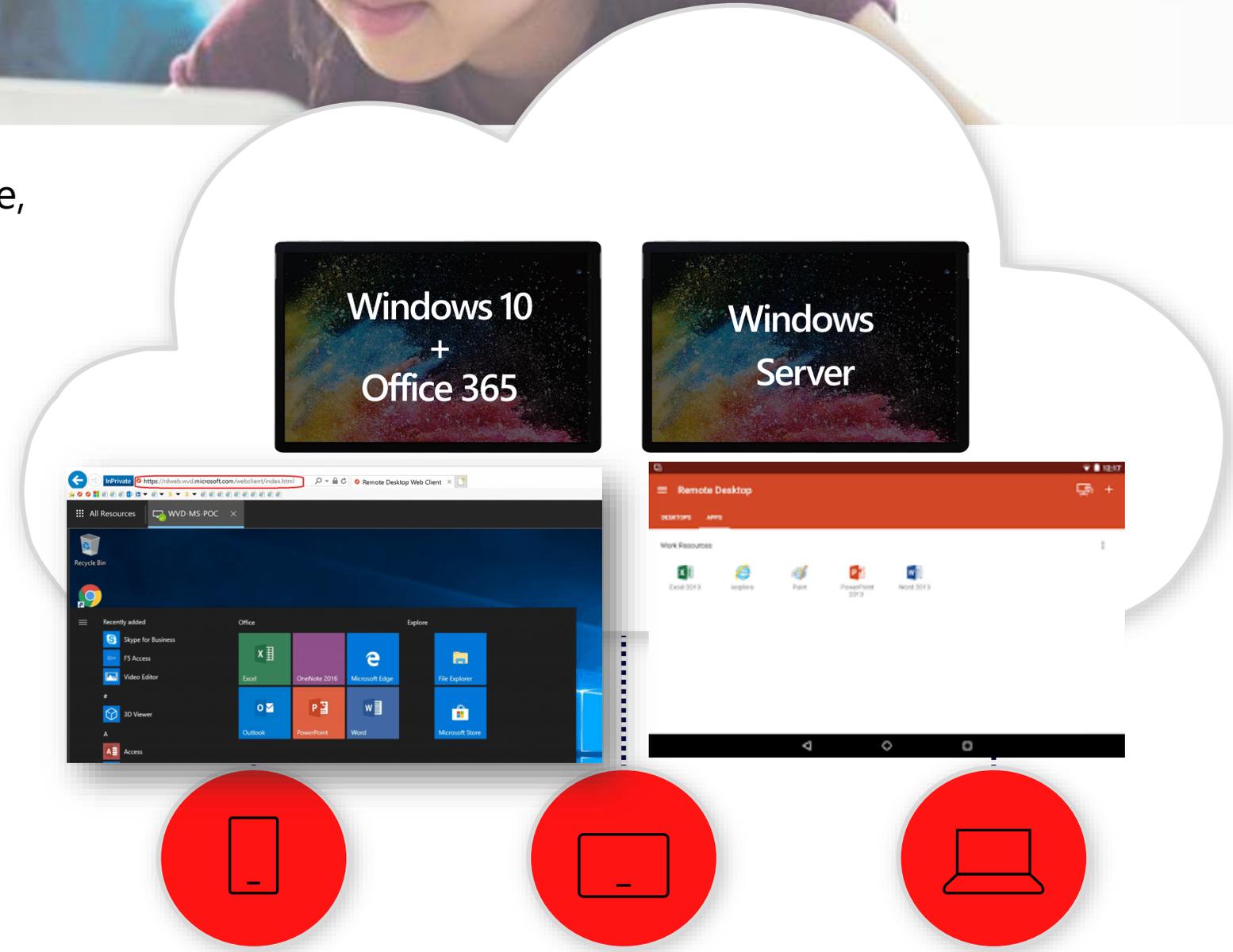
## Specialized workloads

Design and engineering  
Legacy apps  
Software dev test

# Azure Virtual Desktop

The best virtual desktop experience, delivered on Azure

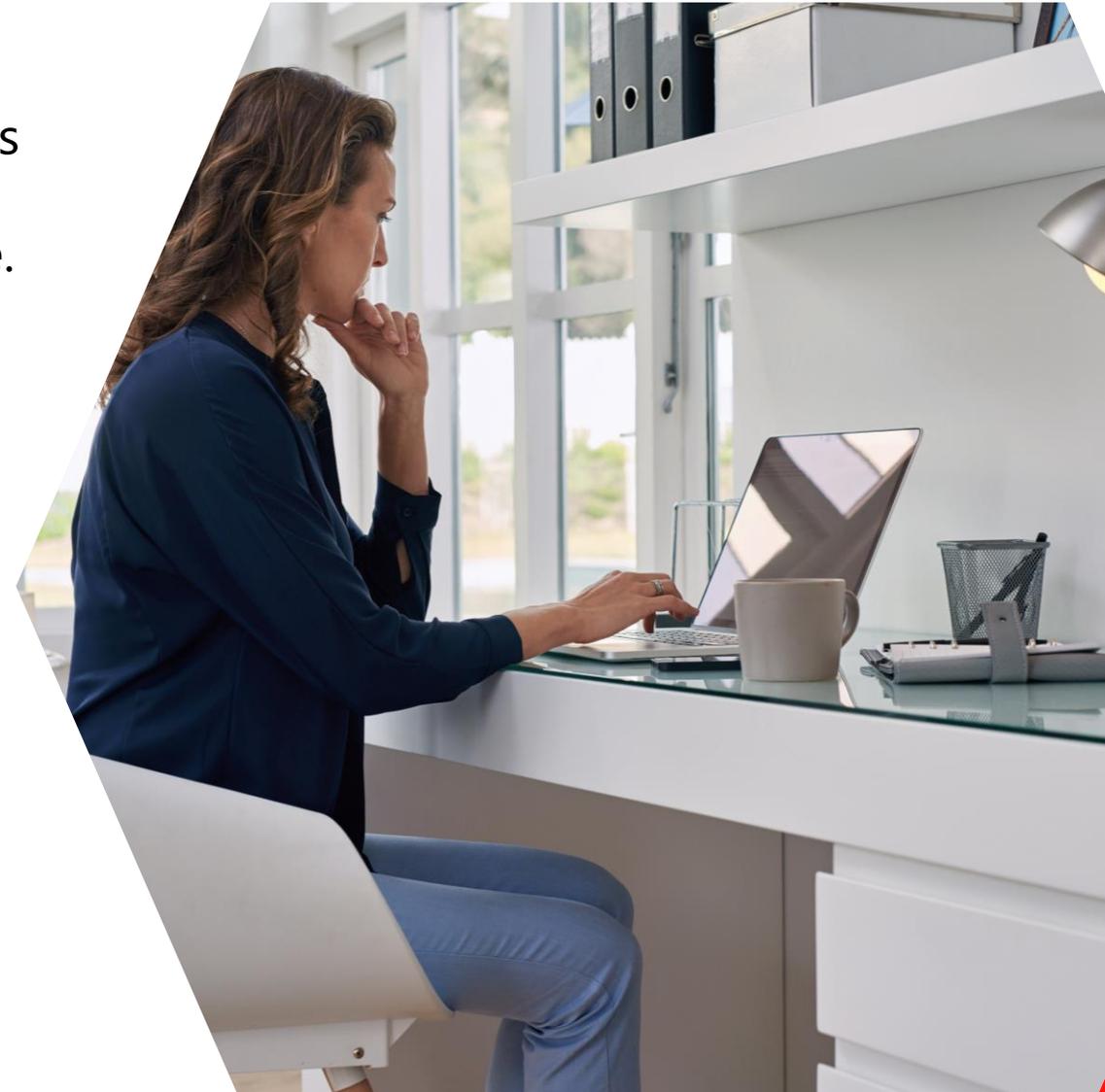
- + Deliver the only multi-session Windows 10 experience
- + Enable optimizations for Microsoft Office 365
- + Migrate Windows Server (RDS) desktops and apps
- + Deploy and scale in minutes
- + Reduce Costs



## Deliver The Only Multi-session

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 Microsoft 365

Deliver the best Microsoft 365 experience with multi-session virtual scenarios to provide the most productive virtualized experience to your users.

- ✔ Microsoft 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



## Migrate Existing Windows

Migrate your Remote Desktop Services (RDS) environment for Azure Server desktops and apps with a simplified infrastructure management and deployment experience on Azure.

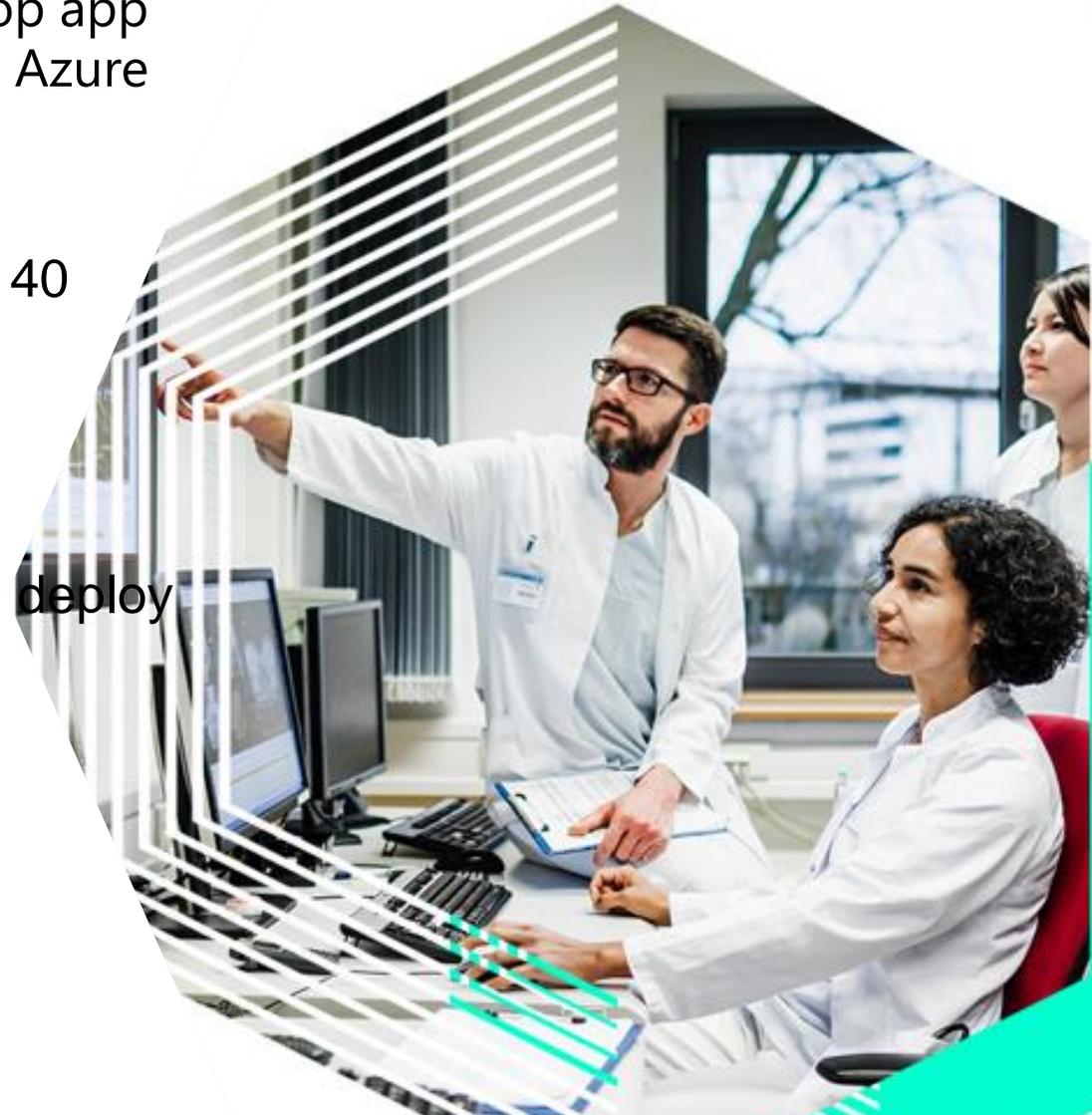
- ✔ Support for Windows Server 2012 and Remote Desktop Services 2012R2 and newer
- ✔ App compatibility for existing Windows Server images used on-prem



## Deploy And Scale In Minutes

Quickly virtualize and deploy modern and legacy desktop app experiences in minutes with unified management in the Azure portal.

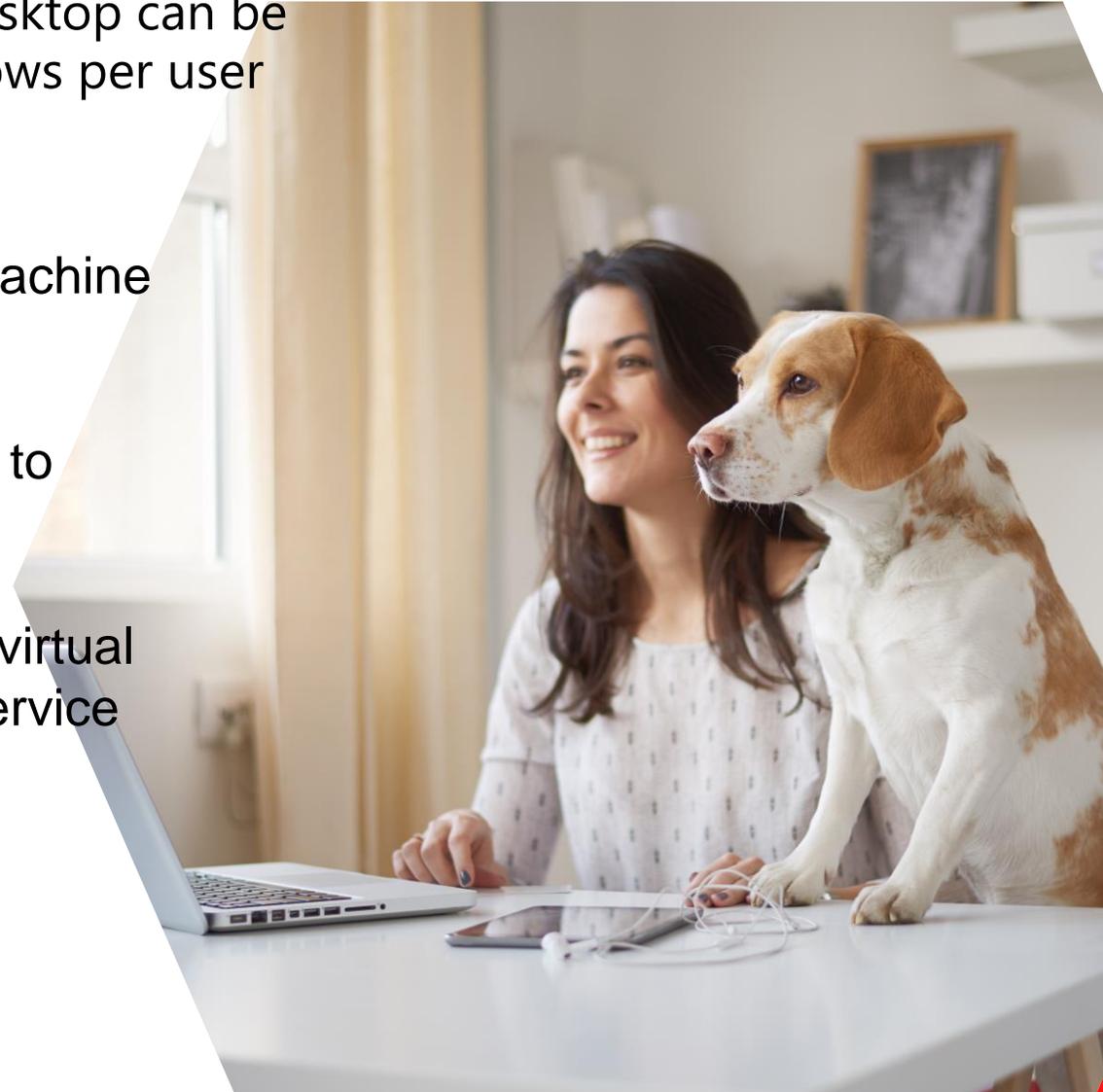
- ✓ Azure has datacenters available in 54 regions and 140 countries
- ✓ Azure management portal for Azure Virtual Desktop
- ✓ A few click to configure network settings, add users, deploy desktop apps and enable security



## Reduce Costs

There are no additional license costs – Azure Virtual Desktop can be used with your existing eligible Microsoft 365 or Windows per user license

- ✔ Reduce infrastructure costs by right-sizing virtual machine and shutting them down when not in use
- ✔ Avoid upfront costs and align operational expenses to business usage
- ✔ Reduce management overhead by moving all your virtual desktop infrastructure to the cloud with managed service



## Windows Virtual Desktop benefits

- ✔ Enables a multi-session Windows 10 experience, optimized for Office 365 ProPlus
- ✔ Supports Windows Server (2012R2+)
- ✔ Most flexible service allowing you to virtualize both desktops and apps
- ✔ Windows 7 virtual desktop with free Extended Security Updates
- ✔ Integrated with the security and management of Microsoft 365
- ✔ Deploy and scale quickly within Azure portal



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

## Standardized

**Consistent infrastructure across regions**

IaaS

PaaS



Compute



Storage



Networking



**Uniform deployment via serverless architecture**

Serverless Platform



Containers



Microservices



Integration services

Purpose-built, **standardized infrastructure** across geos  
Modernized workloads for **simplified deployment**

## Global



Largest geographical footprint of any cloud provider with more than **60 Azure regions**

## Secure



Microsoft Cyber Defense Operations Center

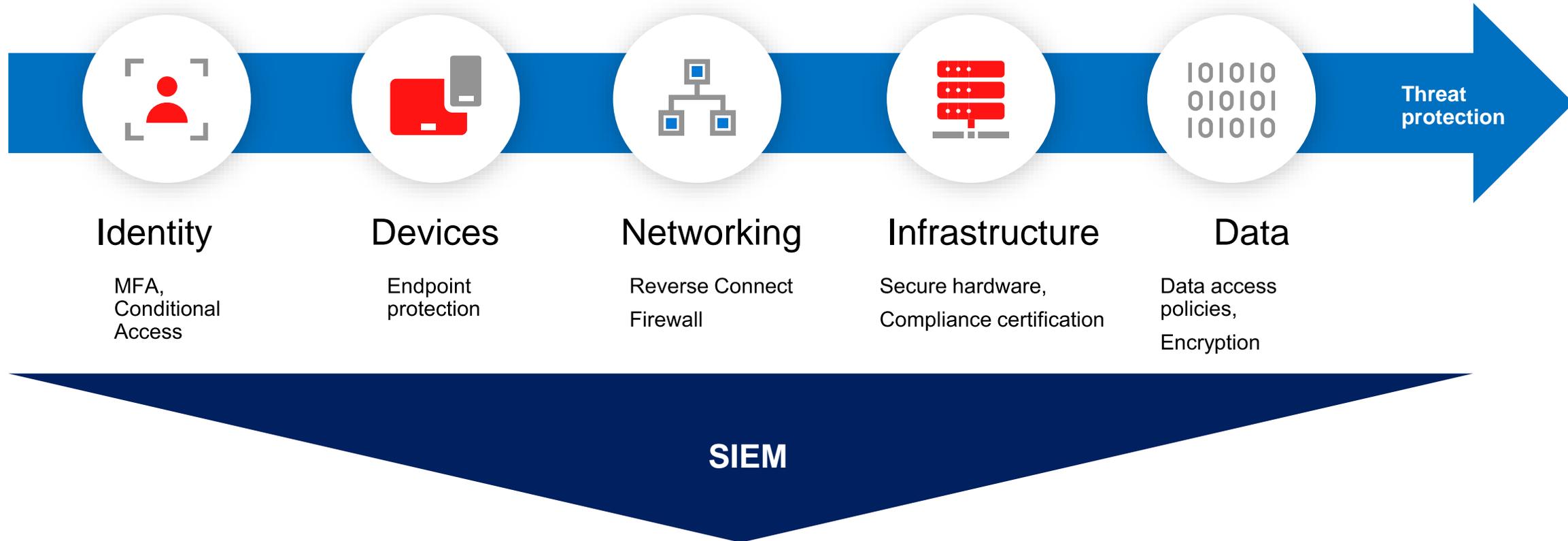
**>3,500** full-time security professionals

**6.5 trillion** global signals daily

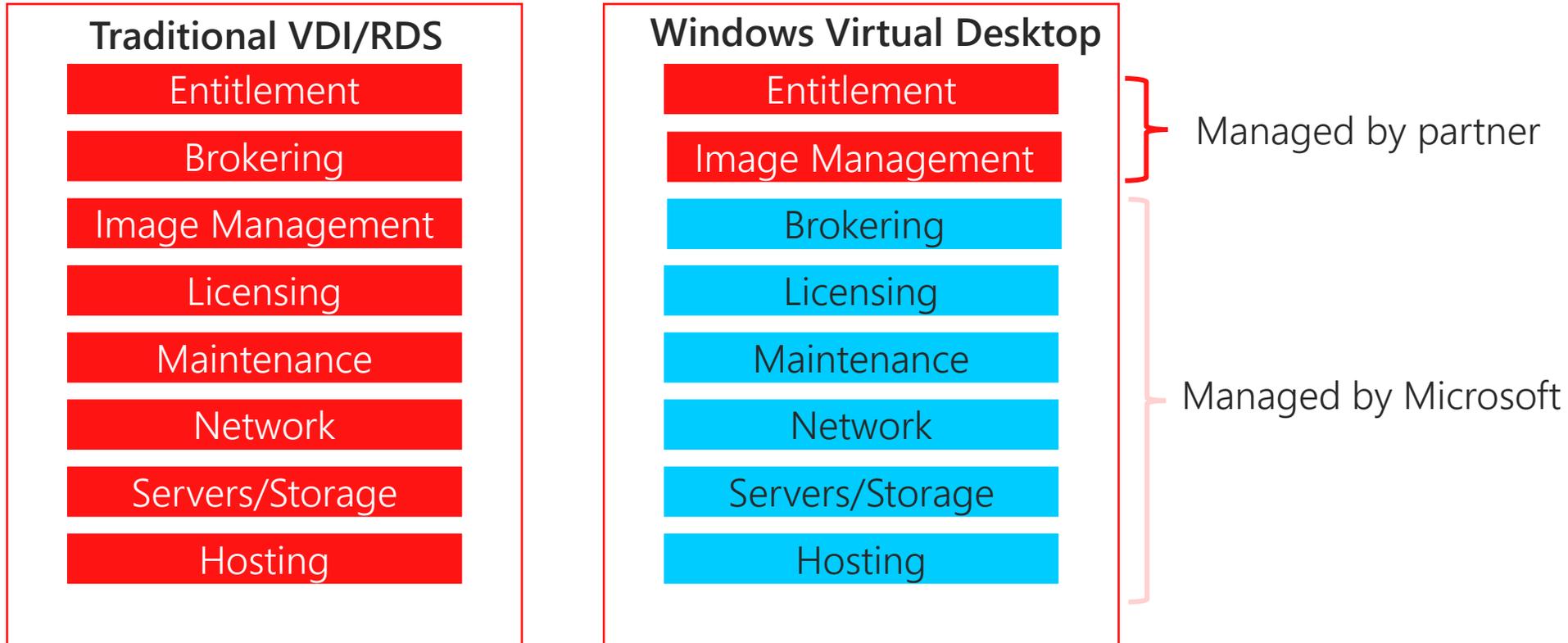
**\$1 billion** annual cybersecurity investment

# Secure Your User Data And VM's

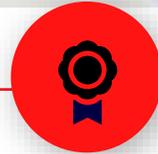
Microsoft provides end to end security for your virtual desktops



# Traditional VDI/RDS vs. Windows Virtual Desktop



# Virtualization After Windows Virtual Desktop



## Windows Server 2019 RD Session Host

Scalable multi-user **legacy**  
Windows environment

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Windows Server 2019

Multiple users

Win32

Office 2019 Perpetual

Long-Term Servicing Channel

## Windows 10 Enterprise session user

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

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Windows 10

Multiple users

Win32, UWP

Microsoft 365

Semi-Annual Channel

## Windows 10 Enterprise

Native single-session **modern**  
Windows experience

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Windows 10

Single user

Win32, UWP

Microsoft 365

Semi-Annual Channel

## Additional optimizations

- **Microsoft Teams**
  - New support for audio-visual (A/V) redirection, including peer-to-peer optimization
  - Easier to provide shared workstations and access for front-line workers
- **OneDrive**
  - Co-auth and collab capabilities in WXP, powered by OneDrive
  - OneDrive sync will run in non-persistent environments
  - Files on Demand capabilities
  - Auto populate user profile folders
- **Outlook**
  - 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 is now per-user
- **Autoscaling**
  - Schedule VMs to start and stop based on business hours to reduce cost and complexity
  - Serverless, based on Azure automation and Logic Apps
- **Service tags/URL security**
  - Meets firewall connection requirements with defined service tags

## Why trust Azure Virtual Desktop?

### Built-in Security

Help secure your employee data and company data by storing in Azure rather than local desktops

Endpoint protection with Azure Firewall, Azure Security Centre, Azure Sentinel and Microsoft Defender for end-to-end security to applications

### Dynamic policy engines

Use conditional access to manage risks before granting access

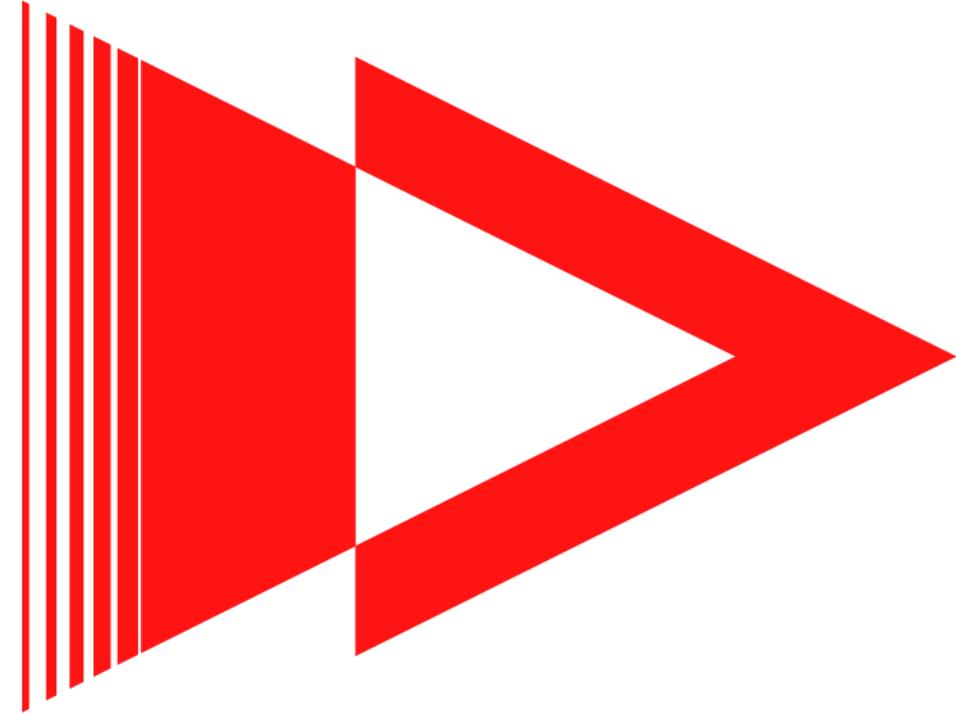
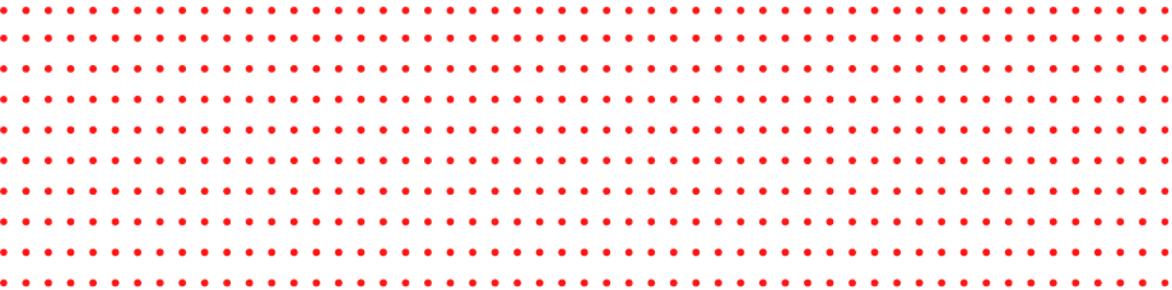
Setup multifactor authentication for secure sign-in

Protect your Azure infrastructure by enabling role based access control (RBAC) and detect threats using Azure Security Centre

### Compliance

Compliance certification including ISO 27001, 27018 and 27701, plus PCI, FedRAMP High for Commercial and HIPAA and more

# Logicalis Services



# Our three-step methodology

## Align

Create a blueprint for cloud transformation that aligns IT readiness and security requirements with business strategy and objectives.

## Transform

Implement a secure, modern cloud platform with guardrails that allow for future innovation and the quick migration of workloads.

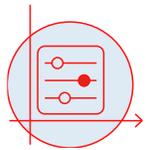
## Scale

Continually innovate at scale while maintaining security and performance by leveraging managed services.



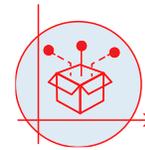
# Logicalis Cloud Services

Standard offerings that quickly lead to time to value



## Readiness Assessment

- Cloud Readiness Assessment
- SQL PaaS Migration Assessment
- Cloud Remediation Assessment



## Production Ready Cloud Platform

- Production Ready Cloud Platform



## Workload Deployment

- Cloud-Enable Your App
- New Applications
- Lift and shift Migrations
- Cloud DR and Backup



## Cloud Team Managed Services

- Cloud Team Managed Services

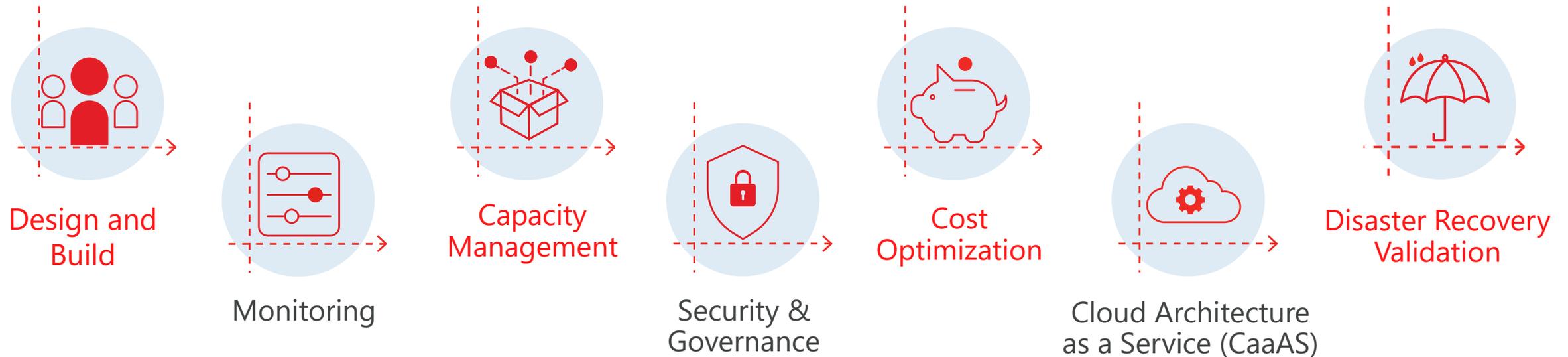
Gold

**Microsoft Partner**  
Azure Expert MSP



# Logicalis Cloud Team Services

Delivering what our customers need for end to end Cloud management and governance



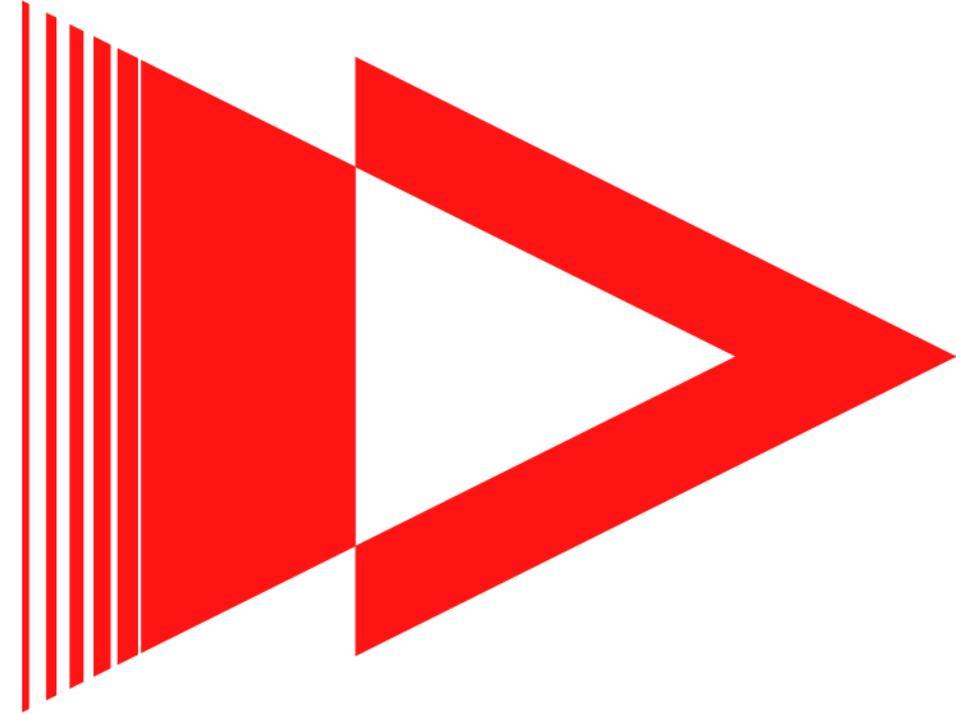
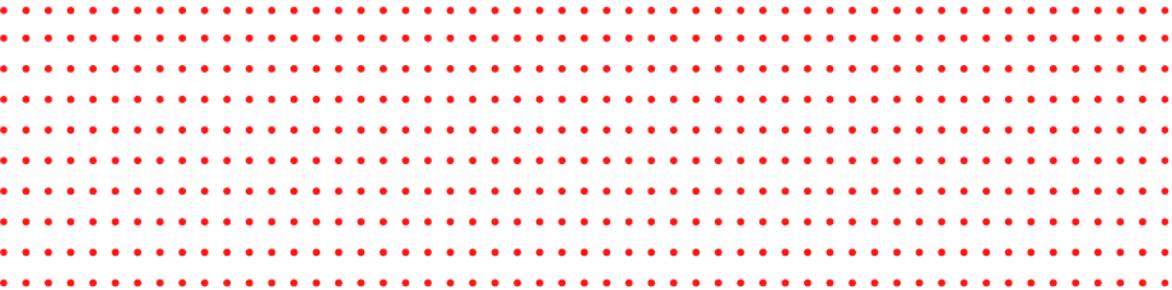
Gold

Microsoft Partner

Azure Expert MSP



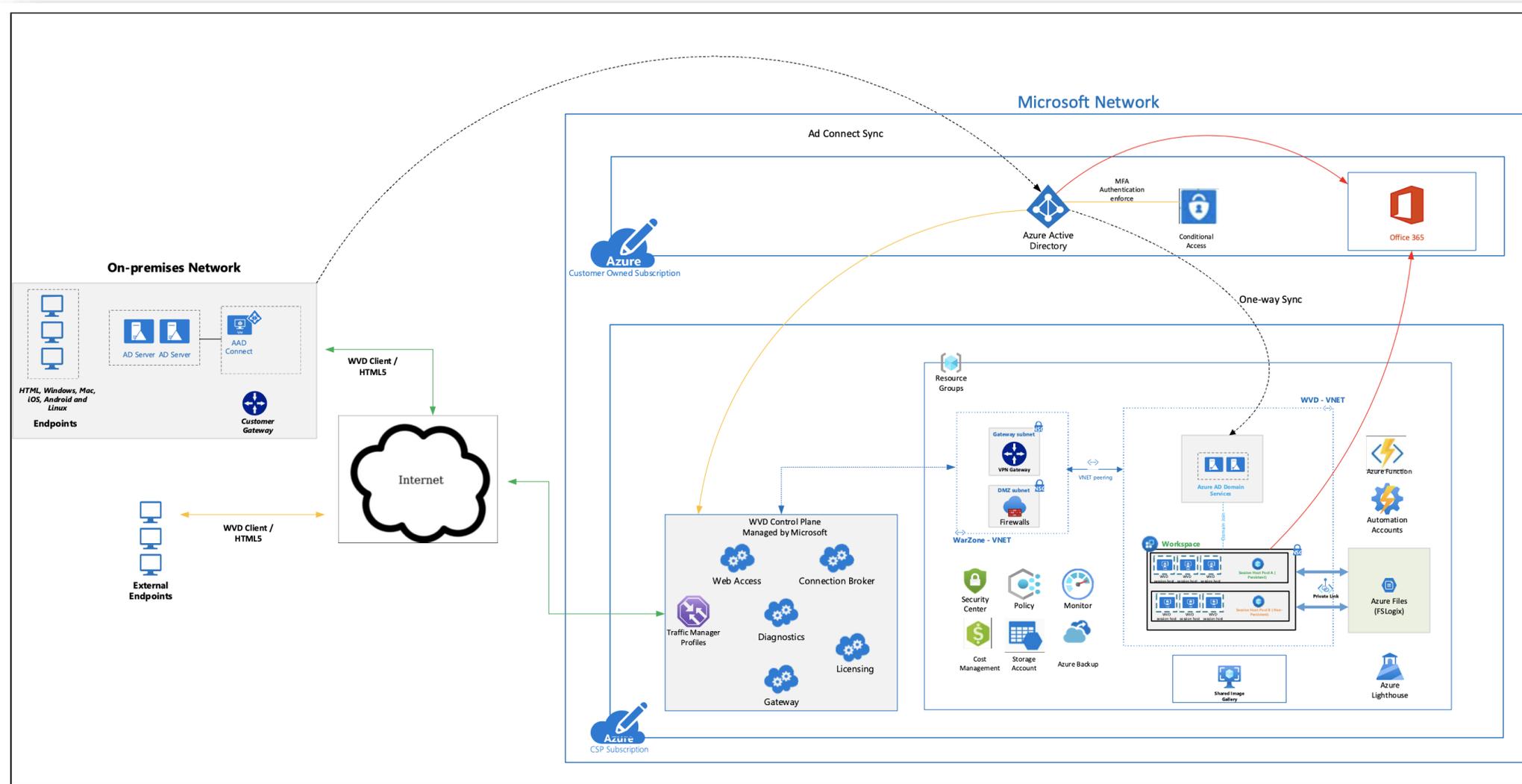
# High Level Solution Design



## Design Goals

- ▶ **Availability and Resiliency:** To ensure high uptime and provide ability of a network or system to gracefully handle and recover from failures. Capable to detect failures and recovering quickly and efficiently.
- ▶ **Data Management:** To ensure data is hosted and stored in secure manner and always meeting compliance, performance, scalability or availability requirements.
- ▶ **Performance and Scalability:** To design and build a network or system to have the ability to handle increases in load without impact on performance or for the available resources to be readily increased.
- ▶ **Management and Monitoring:** To design and build cloud networks, system and applications must expose runtime information that administrators and operators can use to manage and monitor the system, as well as supporting changing business requirements and customization.
- ▶ **Security:** Design using a zero trust and multi-layer architecture approach to prevent disclosure or loss of information. The network and system must be designed and deployed in a way that protects them from malicious attacks, restricts access to only approved users, and protects sensitive data.

# High Level Solution Architecture



# SAML Authentication to WVD Environment

