

Accelerating Cloud Virtual Desktops

Leveraging Microsoft Azure Virtual Desktop to create a dynamic workstation experience for users anywhere, on any device.

Workshop contents

P2	Introduction
P3	About Slalom
P7	About Azure Virtual Desktop
P13	Our Approach
P18	Q&A + Next Steps

About Slalom



WHAT WE DO

Slalom is a purpose-led, global business and technology consulting company.

From strategy to implementation, our approach is fiercely human. We deeply understand our customers—and their customers—to deliver practical, end-to-end solutions that drive meaningful impact.





Microsoft & Slalom achieve more together.

Our business was built on Microsoft, and for nearly two decades, we've delivered innovation together. It starts with our shared purpose: realizing greater impact through collaboration and enabling every person and organization on the planet to achieve more.

We're partnering with change-making clients to shape the future around Microsoft technology—that's because as we look to the next two decades and beyond, we know the future will be built on Microsoft, too.



Microsoft Gold Partner

2022 US Analytics Partner of the Year

350+

Microsoft clients served in 2021

53

Microsoft Partner Awards

Microsoft Solutions

Cloud architecture and migration

Product engineering

Enterprise application strategy and deployment

Artificial Intelligence and machine learning

Data architecture

DevOps

Data visualization and storytelling

Simplifying end user computing with Azure Virtual Desktop

Embrace the challenges of a remote workforce

Secure workstations keep you in control

Provide a workstation experience on any device



About Azure Virtual Desktop



Azure Virtual Desktop is available worldwide

Quickly deploy virtual desktops and apps to enable secure remote work



Deliver the only multi-session Windows 10 experience



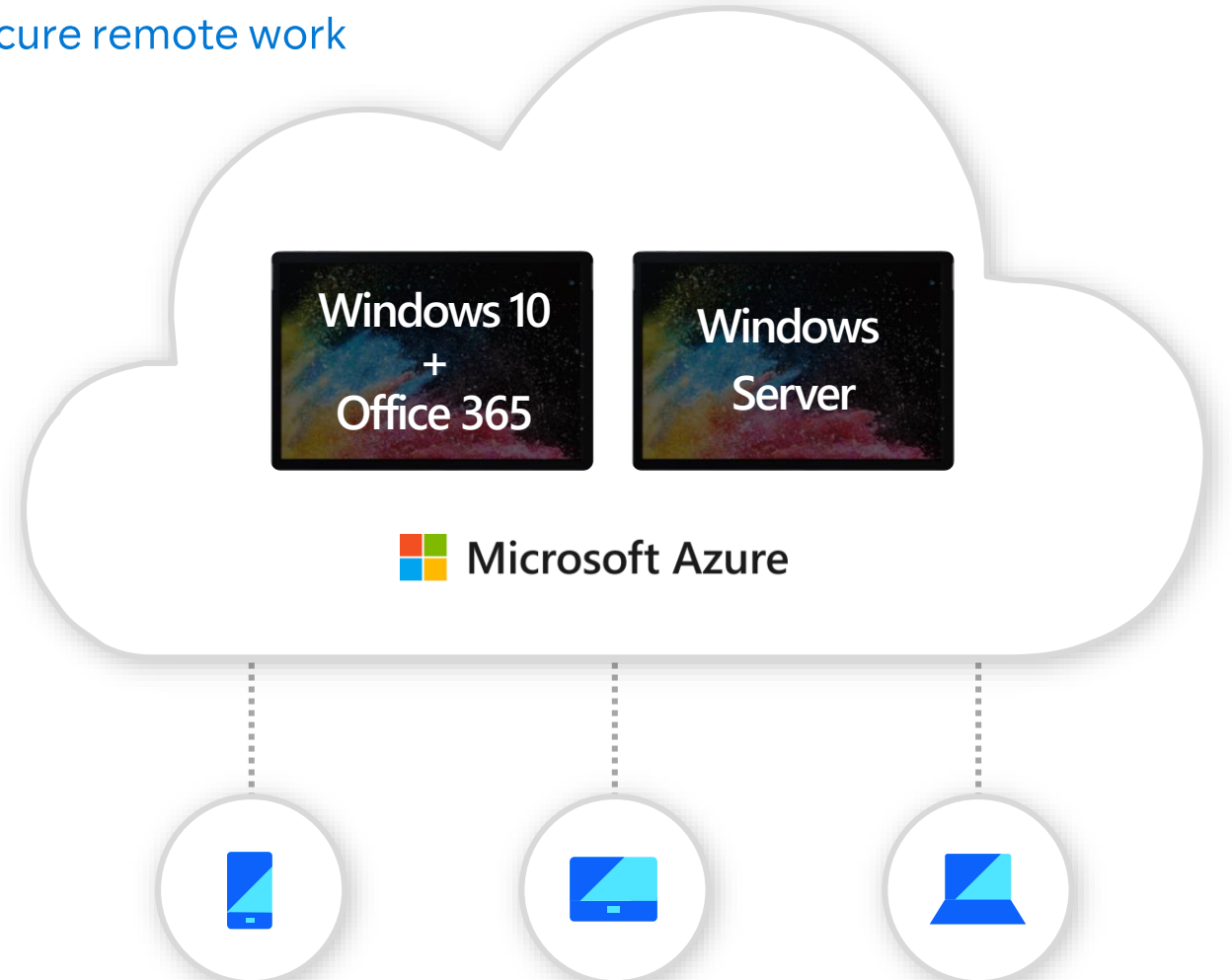
Enable optimizations for Microsoft 365 Apps for enterprise



Migrate Windows Server (RDS) desktops and apps



Deploy and scale in minutes



When is virtualization useful?



Security and regulation

Financial services
Health care
Government



Elastic workforce

Mergers and acquisition
Short-term employees
Contractors and partners



Remote employees

BYOD and mobile
Call centers
Branch workers



Specialized workloads

Design and engineering
Legacy apps
Software dev test

Blending security across 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
\$1 billion annual cybersecurity investment

Azure Virtual Desktop

Reverse Connect
Azure AD authentication
AD-joined virtual machines

An optimized computing platform

High-level service architecture

- Can connect to on-premises resources via ExpressRoute or VPN
- User authentication using Azure Active Directory identities
- Integrates with Systems Center Configuration Manager and Microsoft Intune
- Supports devices running non-Windows operating systems with Linux thin-client SDK and other tools

Your subscription—your control

Desktops and remote apps



Full Desktop



RemoteApp



Windows 10 Enterprise multi-session



Windows 10 Enterprise



Windows Server 2012 R2 and newer



Windows 7 Enterprise Full Desktop

Management and policies



Image, app, and profile management



User density, VM sizing, and scaling policies



User management and identity



Networking policies

Managed by Microsoft

Azure Virtual Desktop Service



Clients



Diagnostics



Gateway



Management



Broker



Load balancing

Infrastructure



Compute



Storage



Networking

Azure Virtual Desktop or Windows 365

The right technology for all your needs

Cloud PC - Windows 365 Optimized for simplicity	Cloud VDI - Azure Virtual Desktop Optimized for flexibility
Windows 10 or Windows 11 (soon) personalized desktop	Windows 10, Windows 11 (soon), or Windows Server multi-session desktops
Complete end-to-end Microsoft service	Remote app streaming
One-stop administration in Microsoft Endpoint Manager (Enterprise edition)	Full control over configuration and management
Direct self-service model (Business edition)	Citrix and VMware support
Predictable per user pricing	Flexible consumption-based pricing

[Windows 365 vs. Azure Virtual Desktop \(AVD\) - Comparing Two DaaS Products - Nerdio \(getnerdio.com\)](#)

[Choosing Between Windows 365 & Azure Virtual Desktop \(AVD\) | Nerdio \(getnerdio.com\)](#)

Our Approach



Bringing technologies together



Nerdio Manager for Enterprise

Nerdio provides an industry leading control plane with support for autoscaling, automation and simple management.



Monitoring and Analysis

Our solution includes custom dashboards to offer single pane of glass visibility into the AVD environment.



Microsoft Azure

Microsoft Azure can provision new hosts or scale up or down existing ones in minutes on-demand, driving down cost.



Synthetic Health Checks

Minute by minute synthetic health checks of the entire logon process grant instant notification of any possible issues.



Windows 10 multi-session

AVD offers the exclusive Windows 10 multi-session SKU which allows an unlimited number of users to use a single machine at the same time.



Image as Code

By using Azure Image Builder and modern DevOps processes, image creation, validation, and reuse can be done quickly with no manual steps.

What is Nerdio?

Simplify & Automate

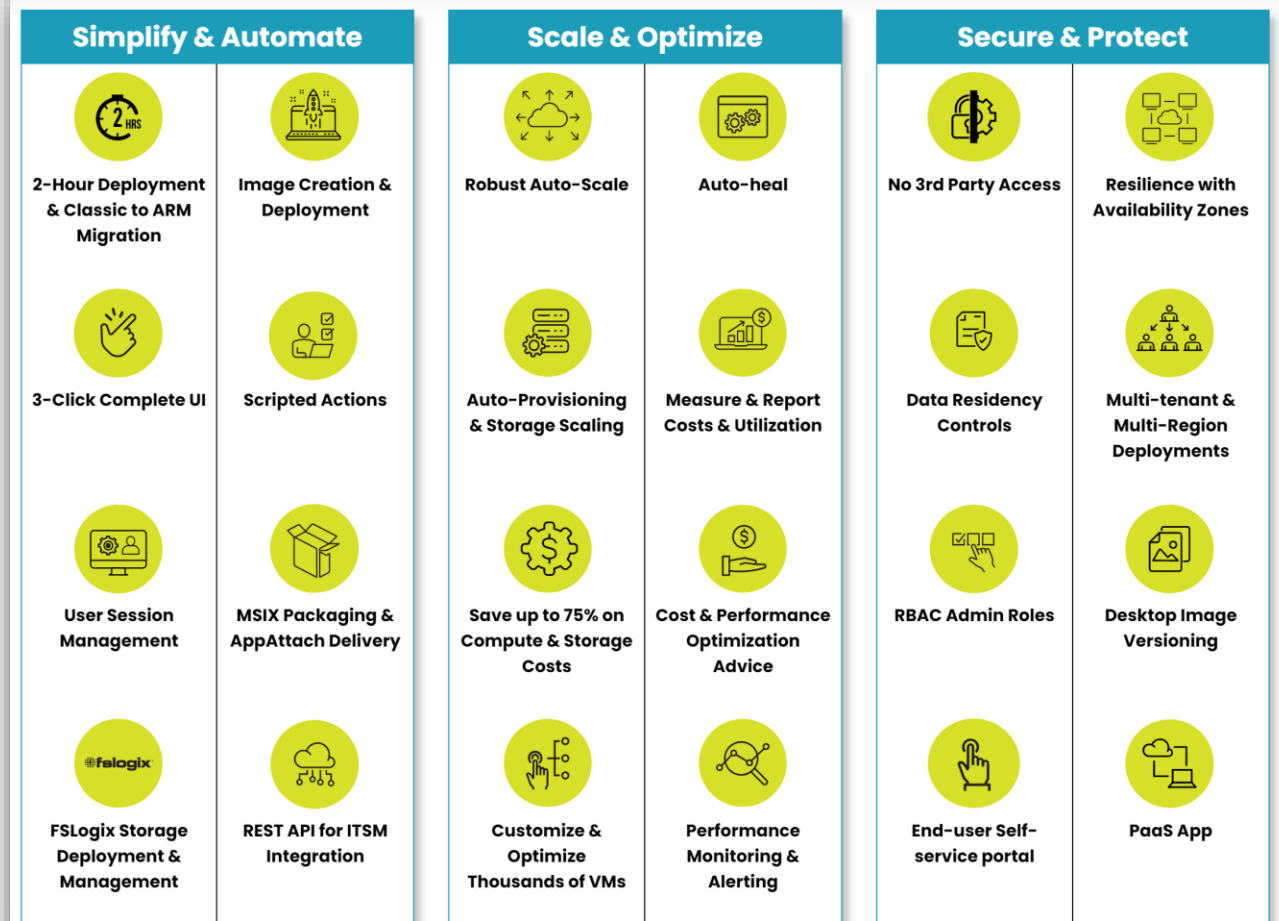
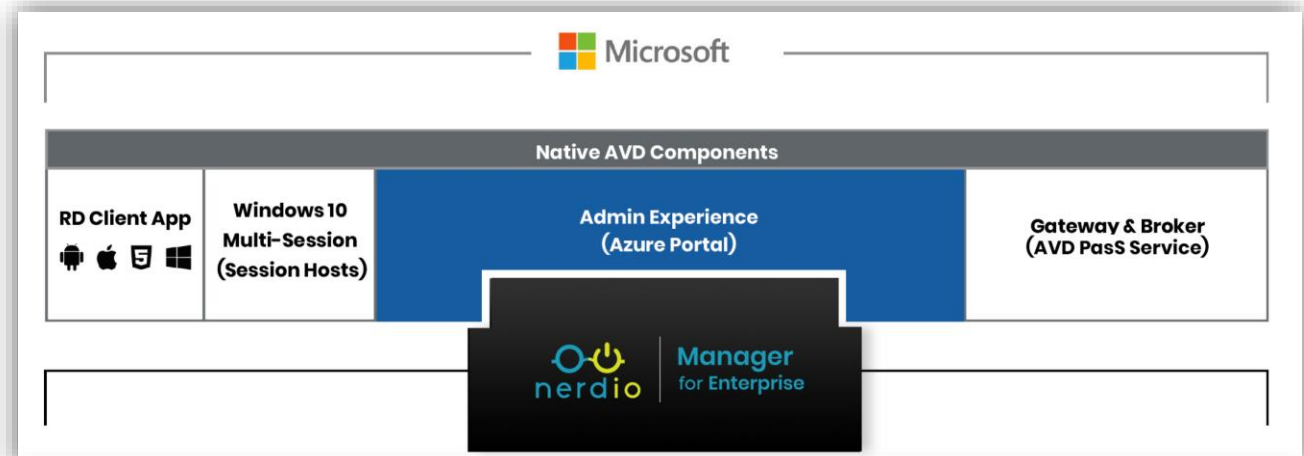
Nerdio Manager for Enterprise provides a one-click interface for management of thousands of AVD hosts, images, sessions, pools, and scripted actions with incredible ease.

Scale & Optimize

A built-in auto scaling and auto provisioning engine can power up/down or create/delete hosts automatically as load increases.

Secure & Protect

Nerdio is built using native Azure technology (App Services, Azure SQL, Automation Accounts) and runs within your subscription. It provides a delegated RBAC permission model to give support staff and administrators least privileged access with robust audit logging.



Custom Monitoring and Automation

Custom Dashboards

Single pane of glass dashboards built natively in Azure Log Analytics by Slalom use telemetry from AVD Insights and Sepago, both configured by Nerdio to monitor every host, session, process, etc.



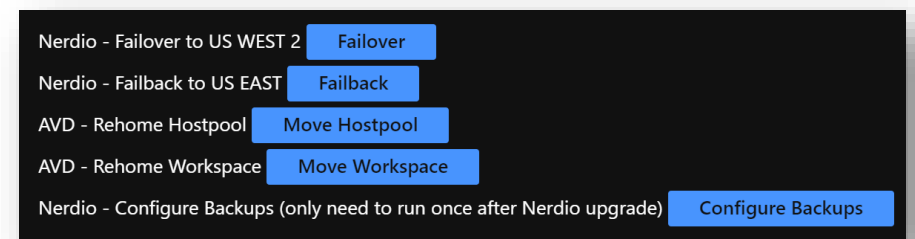
Synthetic Health Checks

Custom once per minute synthetic health check validates Azure service health, on prem connectivity, and user experience by following the login and connection flow as a real user.



Automated DR Runbooks for Nerdio and AVD

Slalom created Azure Automation runbooks add multi-region backup and recovery to Nerdio Manager for Enterprise and give administrators one click DR to a secondary region.



Building and Managing User Personas

```
"resources": [  
  {  
    "name": "[parameters('imageTemplateName')]",  
    "type": "Microsoft.VirtualMachineImages/imageTemplates",  
    "apiVersion": "[parameters('api-version')]",  
    "location": "[parameters('svclocation')]",  
    "dependsOn": [],  
    "tags": {  
      "userIdentity": "enabled"  
    },  
    "identity": {  
      "type": "UserAssigned",  
      "userAssignedIdentities": {  
        "[parameters('ManagedIdentityID')]" : {}  
      }  
    },  
    "properties": {  
      "buildTimeoutInMinutes": 120,  
      "vmProfile": {  
        "vmSize": "Standard_D2_v2",  
        "osDiskSizeGB": 128,  
        "vnetConfig": {  
          "subnetId": "[parameters('SubnetID')]"  
        }  
      },  
      "source": {  
        "type": "SharedImageVersion",  
        "imageVersionID": "[parameters('imageVersionID')]"  
      },  
      "customize": [  
        {  
          "type": "PowerShell",  
          "name": "Install NotepadPP",  
          "runElevated": true,  
          "runAsSystem": true,  
        }  
      ]  
    }  
  }  
]
```

Move beyond the manual image management and build native Azure images using Azure Image Builder to serve diverse groups of users at scale.

What is Azure Image Builder?

Azure Image Builder is an Image as code service leveraging HashiCorp Packer and ARM templates that automatically creates a build VM, applies desktop customizations, then distributes the images to AVD.

Image as Code

Image as Code enables you to manage and support desktop computing needs for many different user personas in a secure and scalable way.

Modular and Repeatable

Built with modern source control in mind, desktop customizations can be reused and mixed and matched to provide every type of user with the workstation experience they need.

Connected and secured by default

Image VMs can be VNET integrated for monitoring and on prem access. All resources are built in a temporary resource group in your subscription.



HashiCorp

Packer

What's next for **you**?

Connect with us to schedule a:

- **1:1 Demo for you and your team**
- **Proof of concept in your environment**
- **Customized Strategy Session**

