CUBESYS | Microsoft | nerdio

ROUNDTABLE DISCUSSION

BEYOND THE DESKTOP: INNOVATING EDUCATION WITH MICROSOFT CLOUD SOLUTIONS

I begin today by acknowledging the Traditional Custodians of the Gadigal land (online and offline) on which we meet today, and pay my respects to our Elders past and present.

Success Story: University of Queensland

Transition to Azure-based environment with GPU-accelerated virtual desktops.

Multi-session Windows 10 desktops allow flexible access to high-performance applications.

Students can now access demanding software from any device, anywhere.

Significant cost savings and enhanced digital workspace capabilities.

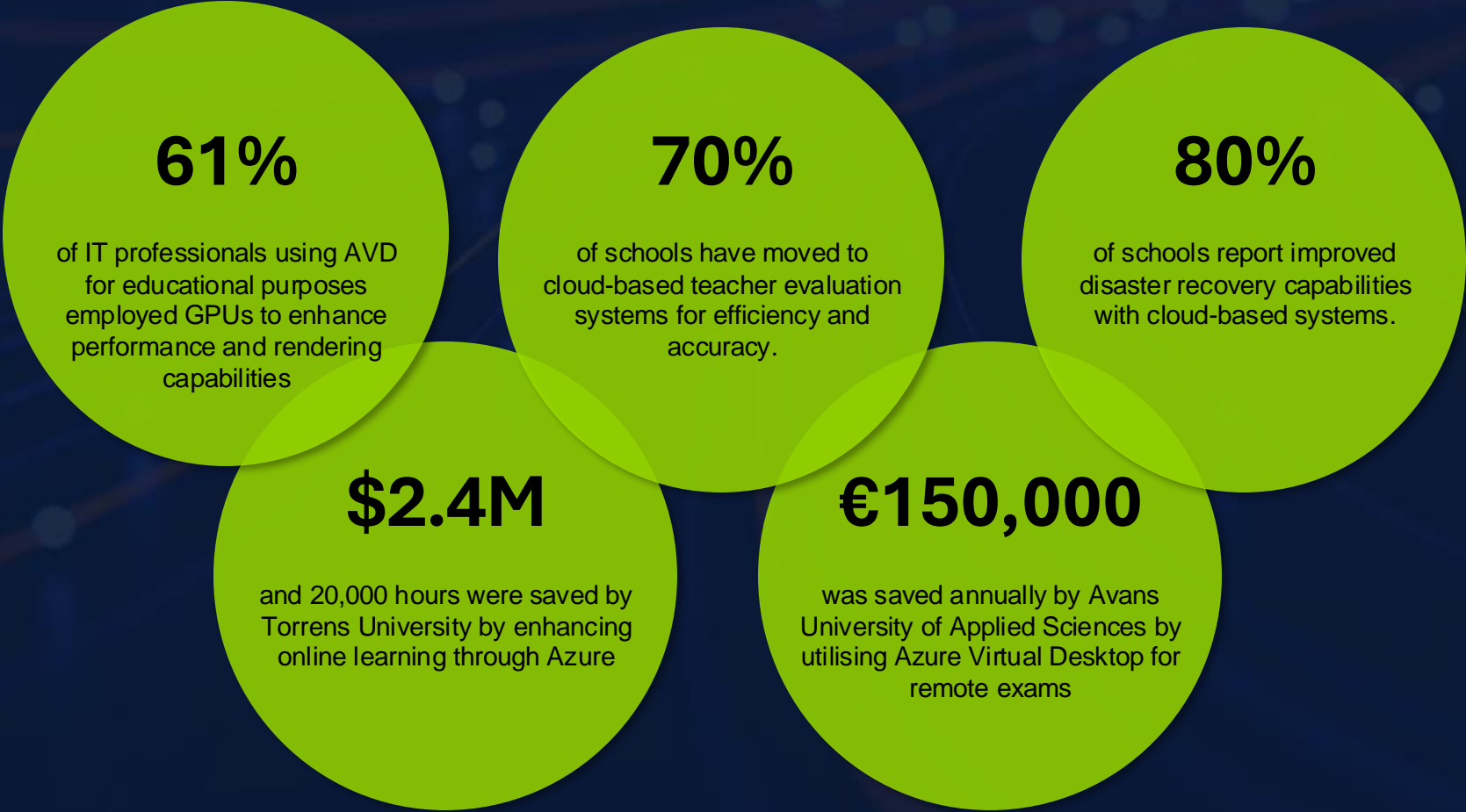Ongoing cloud-managed services for continuous optimization and scalability.

"cubesys provided a high level of technical skills and knowledge that has seen the successful increase in both capability and capacity of the platform such that it is now seen as industry-leading in its ability to deliver software anywhere, anytime to any device."

Luke Angel

Manager Service Automation & Events, University of Queensland

# Azure Virtual Desktop in Education: Key Insights and Statistics

61%

of IT professionals using AVD for educational purposes employed GPUs to enhance performance and rendering capabilities

70%

of schools have moved to cloud-based teacher evaluation systems for efficiency and accuracy.

80%

of schools report improved disaster recovery capabilities with cloud-based systems.

$2.4M

and 20,000 hours were saved by Torrens University by enhancing online learning through Azure

€150,000

was saved annually by Avans University of Applied Sciences by utilising Azure Virtual Desktop for remote exams

CUBESYS

The Power of Virtual Desktop Infrastructure (VDI) in Education Settings

Exploring the potential of VDI in schools and higher education
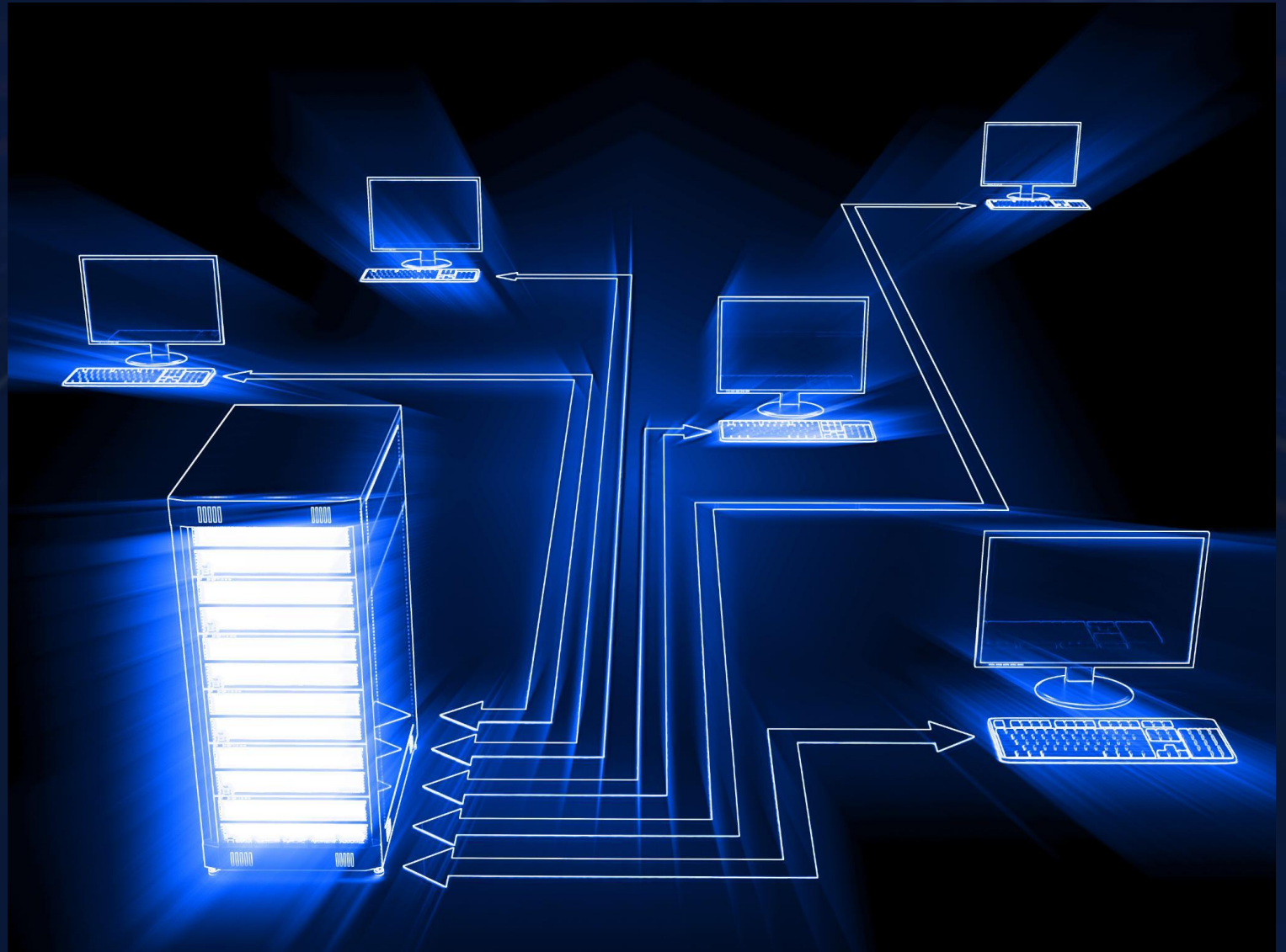
Agenda

- Introduction and Overview of VDI

- Current VDI Challenges

- AVD and its Benefits

Introduction

VDI is a technology that enables users to access their desktops and applications from anywhere, on any device, providing secure, remote access to educational resources and applications in education settings.

Historical Context

Evolution of VDI

VDI has evolved significantly over the past 15-20 years, from traditional on-premises solutions to modern, cloud-based solutions, enabling organizations to be more flexible and responsive to changing market needs.

On-Premises VDI Solutions

Many educational institutions have used on-premises VDI solutions in the past, but these solutions can be costly and complex to manage, often requiring dedicated IT resources for maintenance and support.
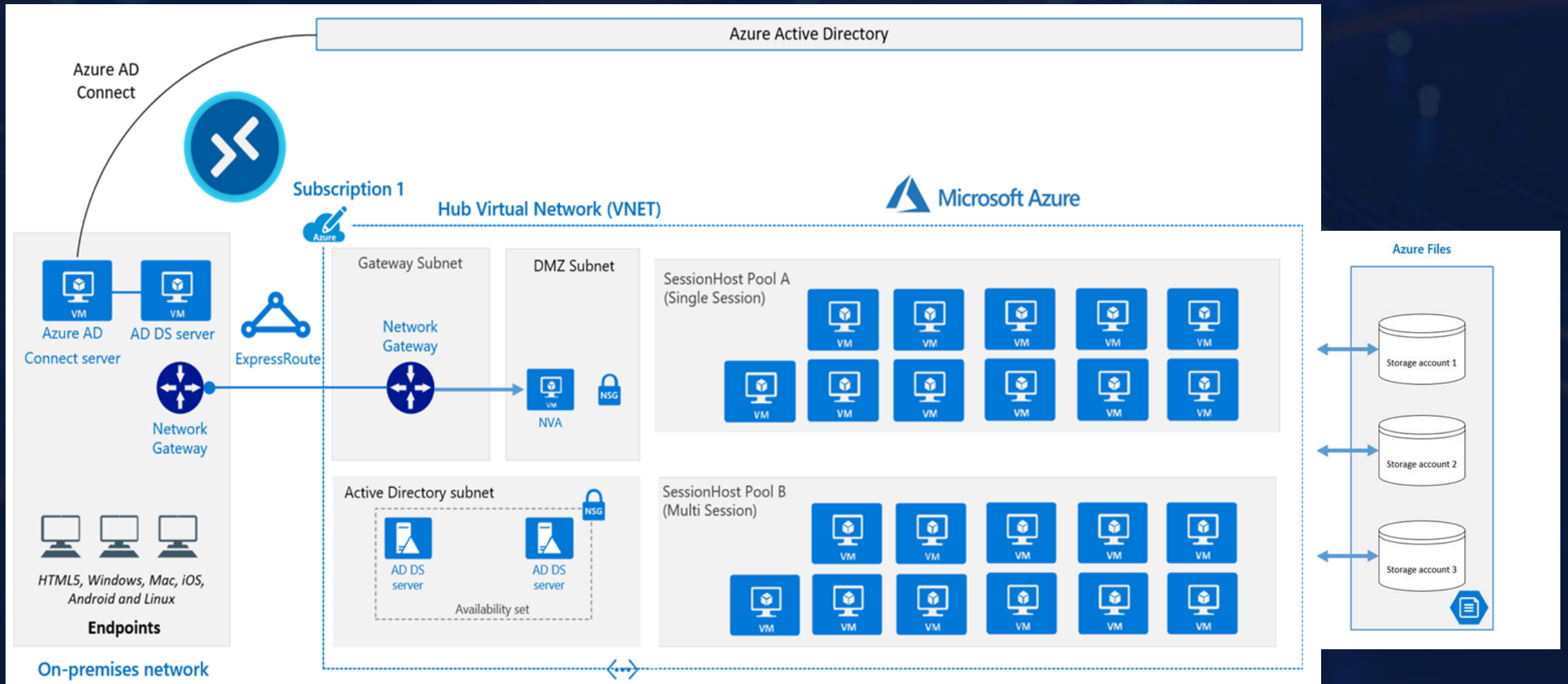
Current VDI Challenges

- What are the attendees' current challenges with their virtual desktop infrastructure (VDI)?

- How can VDI better address the challenges that educational institutions face?

- What more can be done to ensure the success of VDI in education settings?
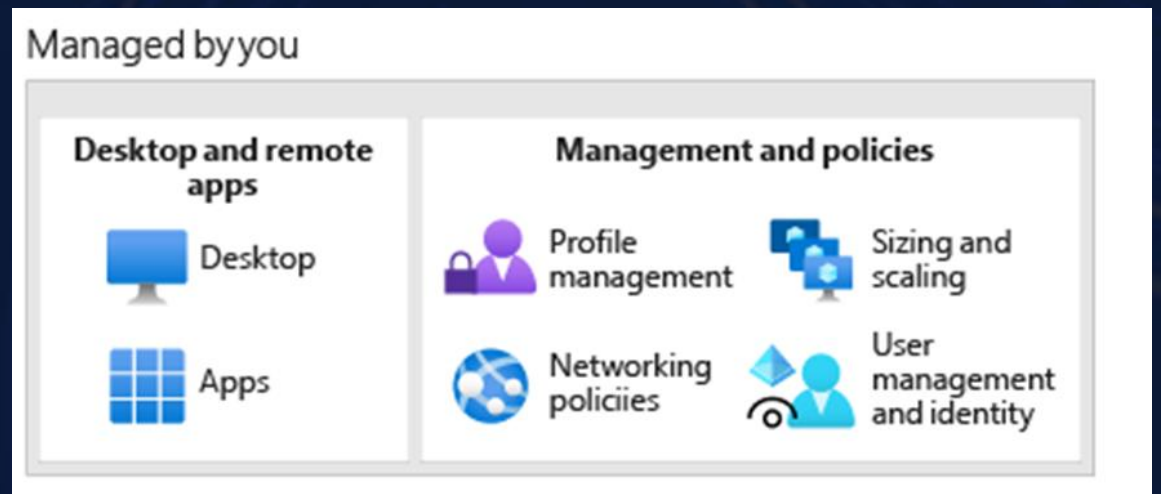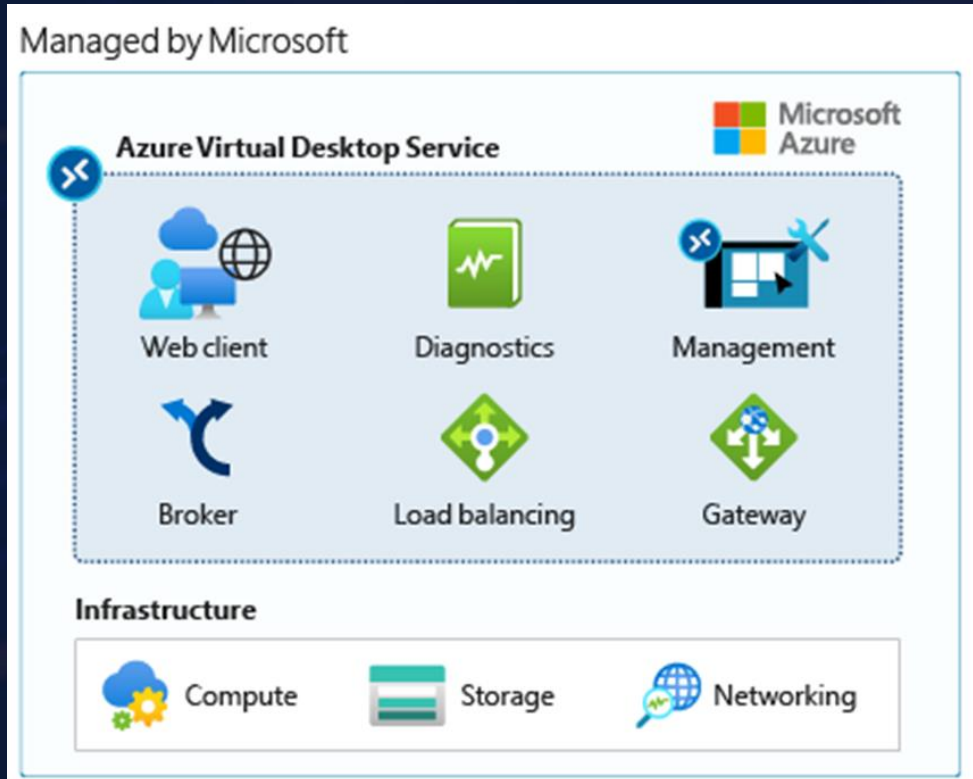
On-prem Solutions
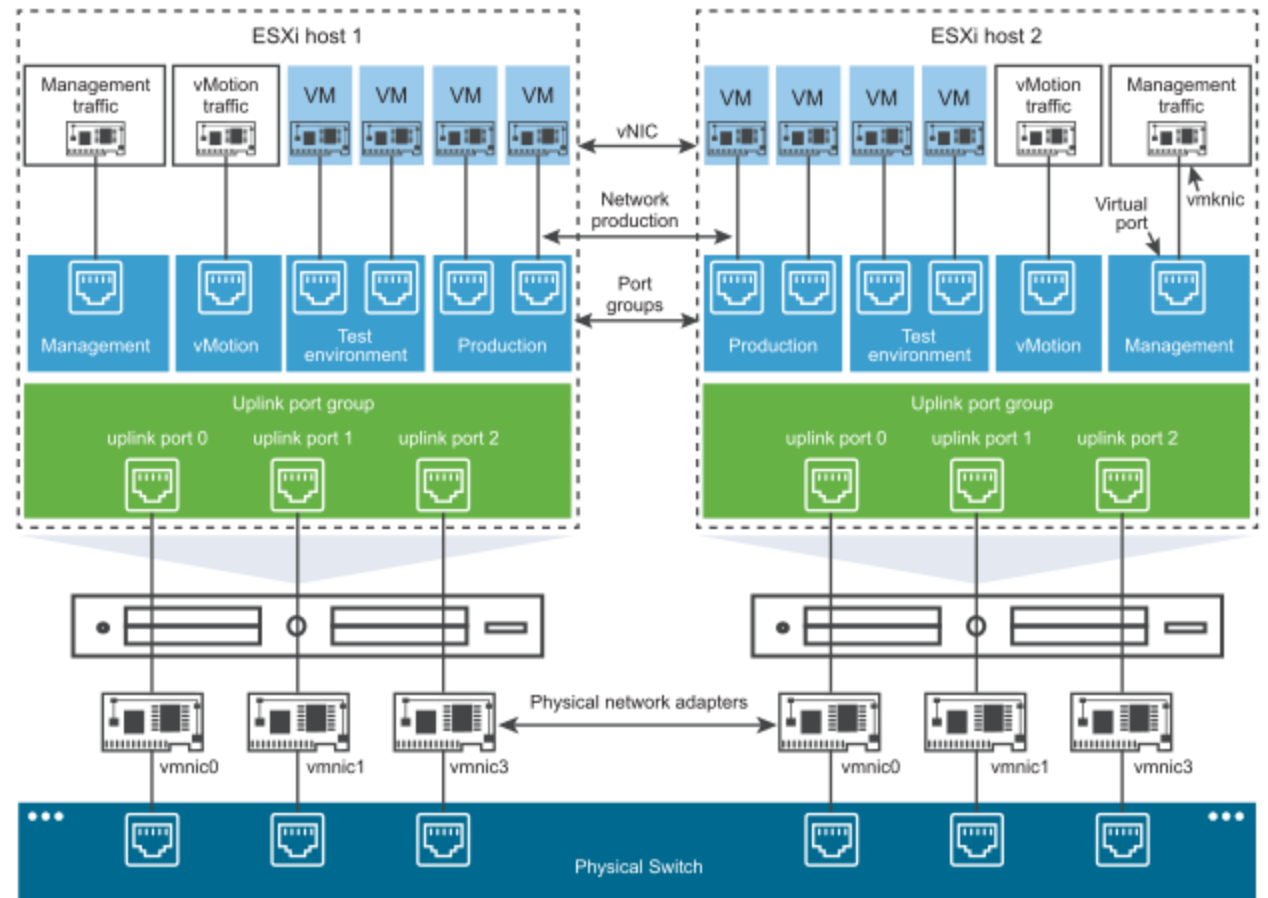
AVD Architecture Overview

What do I manage?

AVD and its Benefits

Introduction to AVD

Cloud-based VDI solution

AVD is a cloud-based VDI solution that enables users to access their desktops and applications from anywhere, on any device, with enhanced security and scalability.

Access Desktops and Applications from Anywhere

AVD enables users to access their desktops and applications from anywhere, on any device, making it easier for employees to work remotely or on the go.

Enhanced Security

AVD provides enhanced security features to protect sensitive data and prevent unauthorized access, making it a safer solution than traditional on-premises VDI solutions.
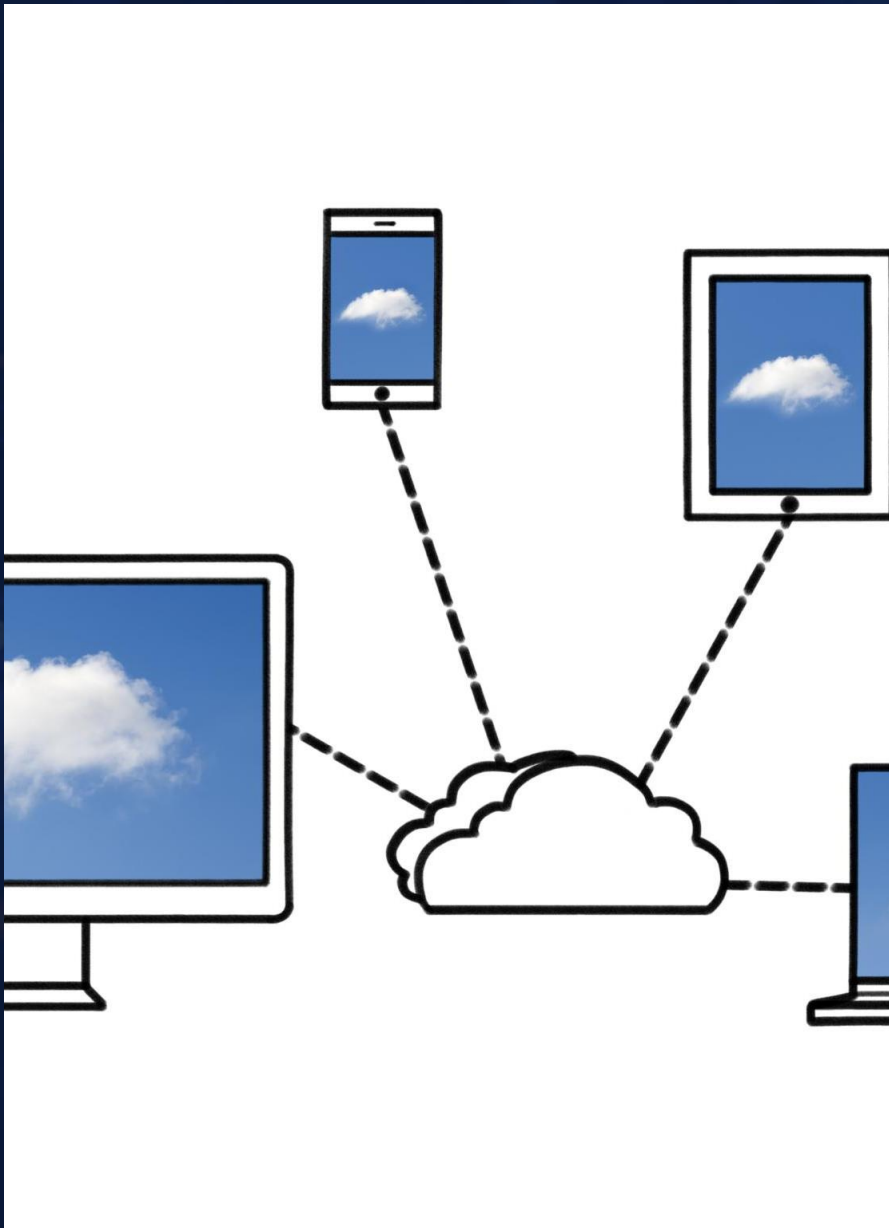
Benefits of AVD

Scalability

AVD technology allows educational institutions to scale their resources up or down based on their needs, without having to invest in new hardware or infrastructure.

Cost-Effectiveness

AVD technology can significantly reduce costs for educational institutions by eliminating the need for expensive hardware, reducing maintenance costs, and enabling the use of low-cost devices.

Ease of Management

AVD technology simplifies the management of educational resources by providing a centralized platform for managing applications, data, and devices.

Enhanced Security

AVD technology offers enhanced security features, such as multi-factor authentication and data encryption, to protect sensitive educational data and prevent unauthorized access.
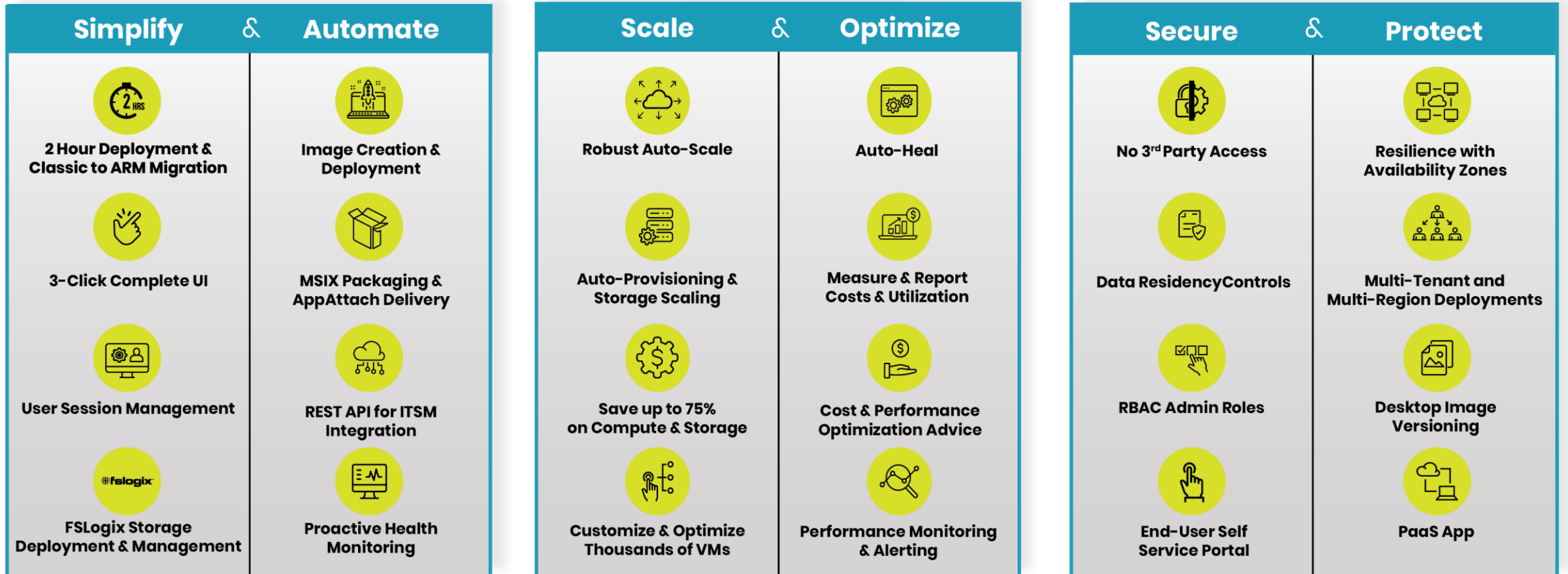
Nerdio for Enterprise Benefits

Nerdio for Enterprise simplifies the deployment, management, and optimisation of AVD environments, allowing educational institutions to focus on their core operations.

Nerdio Manager for Enterprise extends native AVD admin experience

Microsoft
Windows Virtual Desktop

Native WVD Components

RD Client App	Windows 10 Multi-Session (Session Hosts)	Admin Experience (Azure Portal)	Gateway & Broker (WVD PaaS Service)

nerdio | Manager for WVD

Simplify & Automate

2 Hour Deployment & Classic to ARM Migration

Image Creation & Deployment

3-Click Complete UI

MSIX Packaging & AppAttach Delivery

User Session Management

REST API for ITSM Integration

FSLogix Storage Deployment & Management

Proactive Health Monitoring

Scale & Optimize

Robust Auto-Scale

Auto-Heal

Auto-Provisioning & Storage Scaling

Measure & Report Costs & Utilization

Save up to 75% on Compute & Storage

Cost & Performance Optimization Advice

Customize & Optimize Thousands of VMs

Performance Monitoring & Alerting

Secure & Protect

No 3rd Party Access

Resilience with Availability Zones

Data ResidencyControls

Multi-Tenant and Multi-Region Deployments

RBAC Admin Roles

Desktop Image Versioning

End-User Self Service Portal

PaaS App

Future Trends

Improved Integration

Future trends in VDI may feature improved integration with educational applications and resources, making it easier for teachers and students to access the tools and resources they need to teach and learn effectively.

Enhanced Security

With the increasing importance of data security and privacy, future trends in VDI may incorporate enhanced security features to ensure that student and teacher data is secure and protected.

Greater Scalability and Flexibility

Future trends in VDI may feature greater scalability and flexibility, allowing educational institutions to easily scale up or down their VDI resources as per their needs.

Conclusion

Benefits of VDI Technology

VDI technology provides many benefits to educational institutions, such as increased flexibility, scalability, and security.

Modern Cloud-Based VDI Solution

AVD is a modern, cloud-based VDI solution that offers many advantages over traditional on-premises solutions, such as improved performance, scalability, and accessibility.

Simplified Deployment with Nerdio for Enterprise

Nerdio for Enterprise can simplify the deployment, management, and optimization of AVD environments, providing educational institutions with a powerful, easy-to-use solution for their VDI needs.