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NT 30
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Azure Virtual Desktop vs Windows 365

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WE APPRECIATE **YOUR FEEDBACK**,
AND IT MAKES US BETTER EACH YEAR.

YOU CAN COLLECT ADDITIONAL **NT COINS**
BY FILLING OUT THE QUESTIONNAIRES.

THEN VISIT **GEEK BOUTIQUE** AND
SPEND NT COINS ON COOL GIVEAWAYS.





Intro

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Agenda

- Introduction to Azure Virtual Desktop
- Setting up Azure Virtual Desktop
- Introduction to Windows 365
- Setting up Windows 365
- DEMO



AVD - What & Why



Overview of Azure Virtual Desktop



- Cloud-based desktop and app virtualization service
 - Connect through Windows, Mac, iOS, Android, and Linux devices with internet access using a native application or the Azure Virtual Desktop web client.
- Simplified IT Management
- Multi-session Windows 10 & 11 deployment
- Licensing Options (Pricing, cost analysis, Nerdio Modeler)
- Compute Cost Savings
 - Session Host Virtual Machine Sizing Guidelines
- Hotpatch for Windows client

Comparison with Traditional Desktop Environments

- Flexibility
- Automatic Updates
- Centralized Management
- Adaptability



Security Features and Best Practices

- Multi-Factor Authentication
- Role-Based Access Control
- Network Security Groups
- Regular Security Updates



AVD - Prerequisites and Initial Setup

- Azure Subscription
- Azure Virtual Network
- Active Directory and/or Entra ID
- Permissions Management
- Remote Desktop client



Configuring Host Pools and Session Hosts

- Understanding Host Pools
- Configuring Session Hosts
- User Assignment



User Profile Management

- Importance of User Profiles
- FSLogix Benefits
- Consistent User Experience



Monitoring and Performance Optimization

- Azure Monitoring Tools
- Data Analysis for Optimization
- Enhancing User Experience
- Resource Scalability
- Cost Management



Windows 365 - What & Why



Windows 365



- Windows 365 Business
 - For smaller companies (up to 300 seats) with simple management options.
 - No licensing prerequisites.
 - No dependencies on Azure or Active Directory (Microsoft Entra Join only & no Azure vNET)
- Windows 365 Enterprise (Requirements)
 - For larger companies who want unlimited seats for creating Cloud PCs.
 - Includes options to create custom Cloud PCs based on custom device images.
 - More management options and full integration with Microsoft Intune.
 - Admin must have an Intune license to use Intune to manage the devices.
 - Users must have licenses for Windows E3, Intune, Microsoft Entra ID P1, and Windows 365.
- Business vs Enterprise

Resizing Cloud PC



- Resize remote action preserves user and disk data
 - Upgrade the RAM, CPU, and storage size of a Cloud PC
 - Downgrade the RAM and CPU of a Cloud PC. Resizing doesn't let you downsize disk space
 - Resize a single Cloud PC
 - Resize multiple Cloud PCs in bulk
- GPU Cloud PCs not supported
- Resize a Windows 365 Business Cloud PC
- Resize a Windows 365 Enterprise Cloud PC

Restoring Cloud PC



- Admin & user (self-service) point-in-time restore
- Business:
 - 10x short-term restore point (every 12 hours)
 - 4x long-term restore point (every seven days)
- Enterprise:
 - 10x short-term restore point (every 4/6/12/16/24 hours)
 - 4x long-term restore point (every seven days)
 - On-demand manual restore point (only one and only administrators)

AVD & Windows 365



Conditional Access



- Windows 365 (app ID 0af06dc6-e4b5-4f28-818e-e78e62d137a5)
 - Used when retrieving the list of resources for the user and when users initiate actions on their Cloud PC like Restart
- Azure Virtual Desktop (app ID 9cdead84-a844-4324-93f2-b2e6bb768d07)
 - Used to authenticate to the Azure Virtual Desktop Gateway during the connection and when the client sends diagnostic information to the service
- Windows Cloud Login (app ID 270efc09-cd0d-444b-a71f-39af4910ec45)
 - Only needed with SSO
- Enforce sign-in frequency with CA Sign-in frequency policies

Single sign-on with Microsoft Entra



- Can use passwordless authentication and third-party Identity Providers
- SSO experience to and inside the session
- Business Cloud PC:
 - Enable Microsoft Entra authentication for Remote Desktop Protocol (RDP)
 - Configure the target device groups
 - Review your Conditional Access policies
 - Turn on SSO for all Cloud PCs in your account
- AVD & Enterprise Cloud PC:
 - Enable Microsoft Entra authentication for Remote Desktop Protocol (RDP)
 - Hide the consent prompt dialog
 - Create a Kerberos Server object when Active Directory Domain Services is used
 - Review your conditional access policies
 - Configure your host pool to enable single sign-on

Windows 365

Azure Virtual Desktop

vCPU and RAM	SSD Storage (GB)	User Price (monthly)	Personal Desktop User Cost (3-year reserved instances)	Personal Desktop User Cost (% savings) (Pay-as-you-go & auto-scaling)	Pooled Desktop User Cost (% savings) (3-year reserved instances)	Pooled Desktop User Cost (% savings) (Pay-as-you-go & auto-scaling)
Light user 1 vCPU / 2 GB RAM	64	\$20	\$32	\$27 (0%)	\$6 (70%)	\$5 (75%)
Basic user 2 vCPU / 4 GB RAM	64	\$28	\$32	\$27 (3%)	\$7 (73%)	\$6 (77%)
	128	\$31	\$37	\$32 (0%)	\$14 (56%)	\$12 (60%)
	256	\$40	\$46	\$41 (0%)	\$26 (36%)	\$25 (39%)
Standard user 2 vCPU / 8 GB RAM	128	\$41	\$42	\$35 (15%)	\$17 (59%)	\$15 (64%)
	256	\$50	\$51	\$44 (12%)	\$29 (42%)	\$27 (46%)
Premium user 4 vCPU / 16 GB RAM	128	\$66	\$74	\$60 (9%)	\$26 (61%)	\$22 (66%)
	256	\$75	\$83	\$69 (8%)	\$38 (49%)	\$35 (54%)
	512	\$101	\$102	\$88 (13%)	\$62 (38%)	\$59 (42%)
Super user 8 vCPU / 32 GB RAM	128	\$123	\$142	\$110 (11%)	\$44 (64%)	\$37 (70%)
	256	\$132	\$151	\$119 (10%)	\$57 (57%)	\$50 (62%)
	512	\$158	\$170	\$138 (13%)	\$81 (49%)	\$74 (53%)
AVERAGE AVD SAVINGS (as compared to Windows 365)			-11%	9%	53%	58%

Assumptions:

- AVD pooled minimum: **10 users**
- Average work week: **50 hours**
- OS and apps used disk space: **50 GB**

- Average disk space usage: **50%**
- Pooled session host VM OS disk: **£10 (128 GB Standard SSD)**

Pooled user/vCPU density:

- Light: **4 users / vCPU**
- Basic: **3 users / vCPU**
- Standard: **2 users / vCPU**

- Premium: **1 users / vCPU**
- Super: **0.5 users / vCPU**

DEMO



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Kompas Xnet – Azure izobraževanja



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Thank You!



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