



WELCOME TO

**AVD**   
**DISCUSSION**  
**SERIES**

SESSION 3 - STORAGE BEST PRACTICES & AZURE NETAPP FILES

# TODAY'S DISCUSSION FORMAT



The discussion is being recorded.



Please use the chat window to ask your questions.



We have our experts on hand to answer your questions.



The video and content will be sent via email post event.



# TODAY'S PRESENTERS



**Paul Heaton**  
CEO & Co-founder  
cubesys

 paulmichaelheaton



**George Zajakovski**  
Senior Cloud Consultant  
cubesys

 gzajakovski



**Tarun Arora**  
Principal Cloud Solutions Architect  
NetApp

 tarun-arora





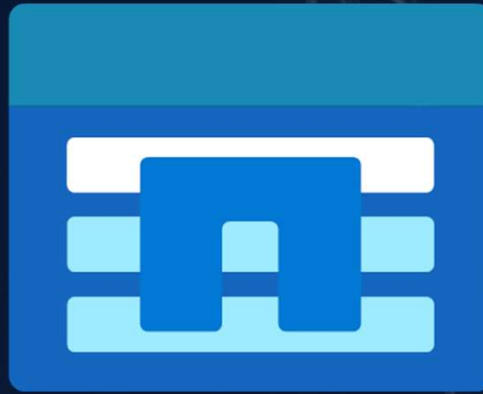
## AGENDA

- 1. Introduction / Cubesys**
- 2. Azure NetApp Files**
- 3. Setup walkthrough**
- 4. Storage Best Practice**

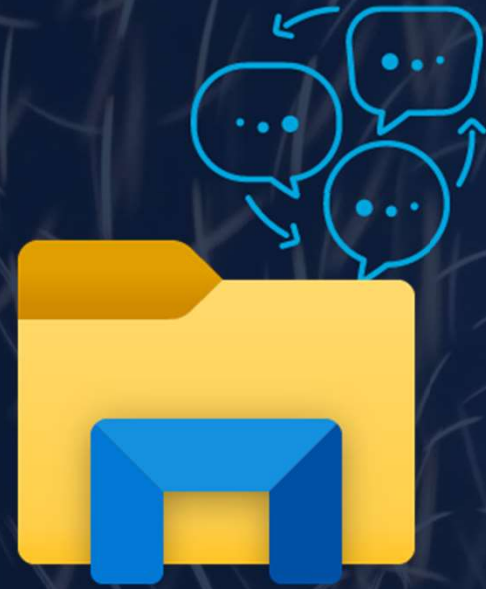




Azure Files



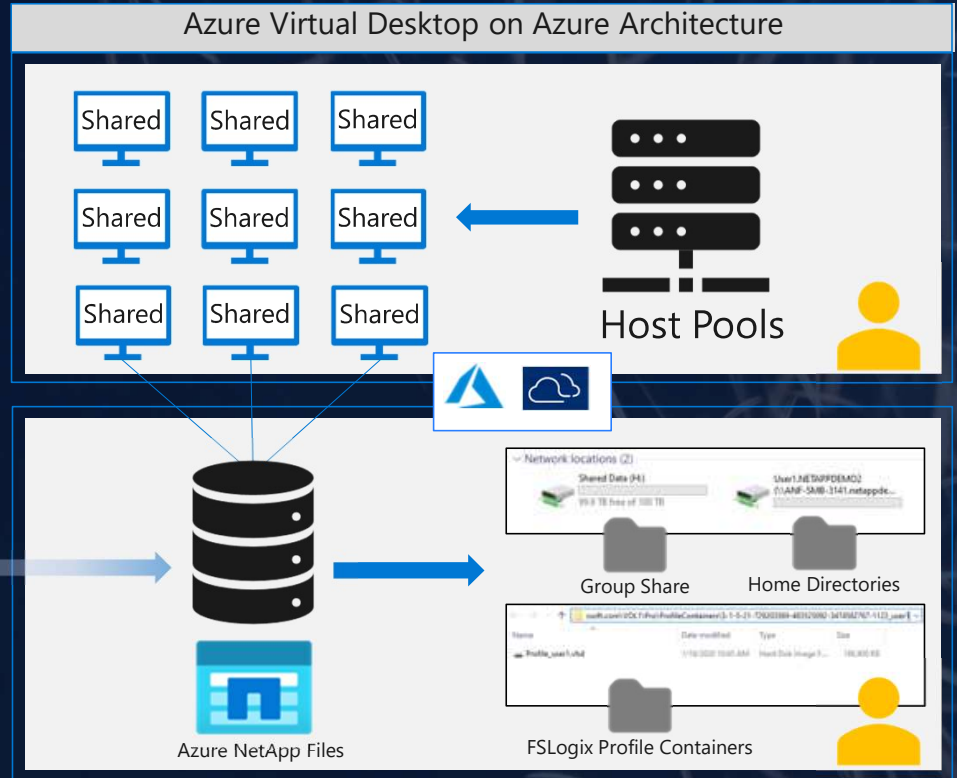
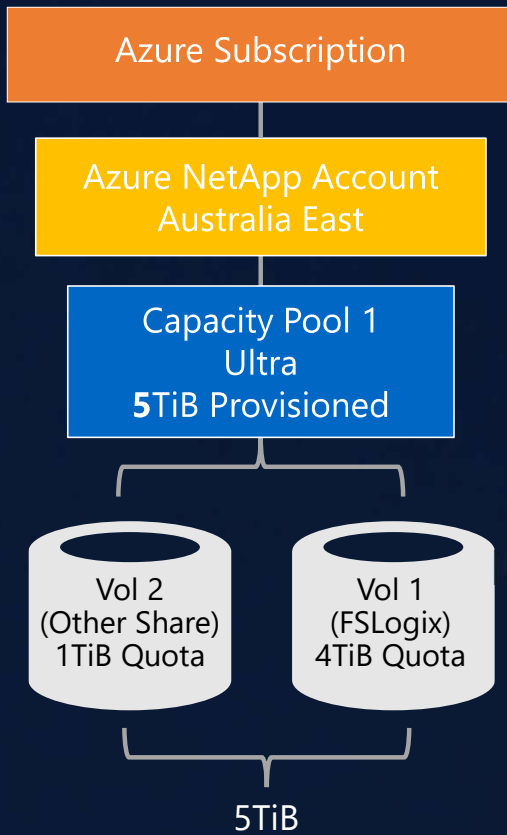
Azure NetApp Files (ANF)



File Server



# ANF + AVD



# Benefits of Azure NetApp Files

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**Simple to  
Manage**

Native Azure service

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Single shared platform for FSLogix Containers and  
Generic File Shares

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**Lower TCO**

PaaS Service

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No VMs required

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Integrated Snapshot Backup and DR

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**Enterprise  
Performance**

High IOPs

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Sub-millisecond latency

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Scalable for both capacity and performance

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**Compatibility**

SMB (All versions)

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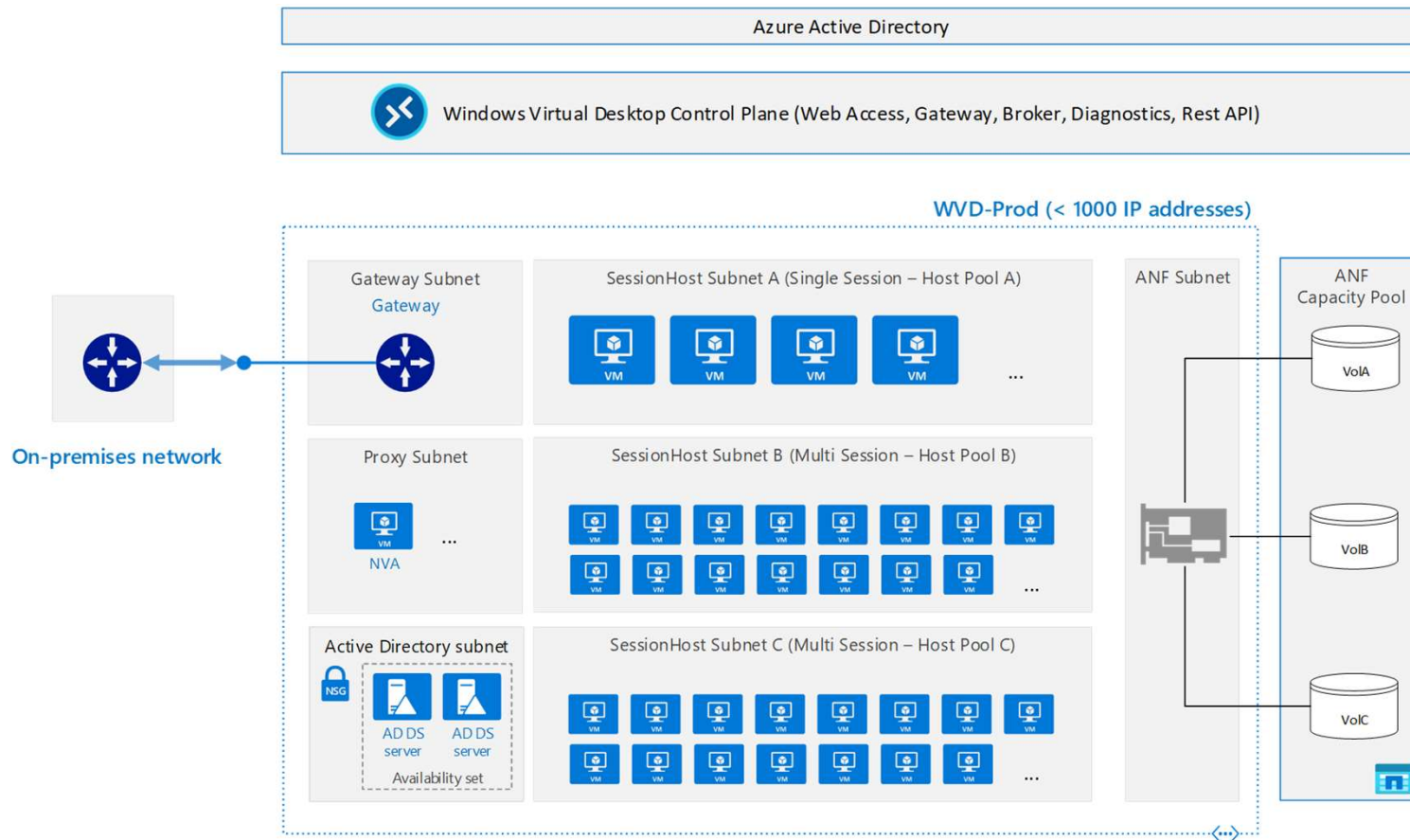
Active Directory Support

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NTFS ACLs support

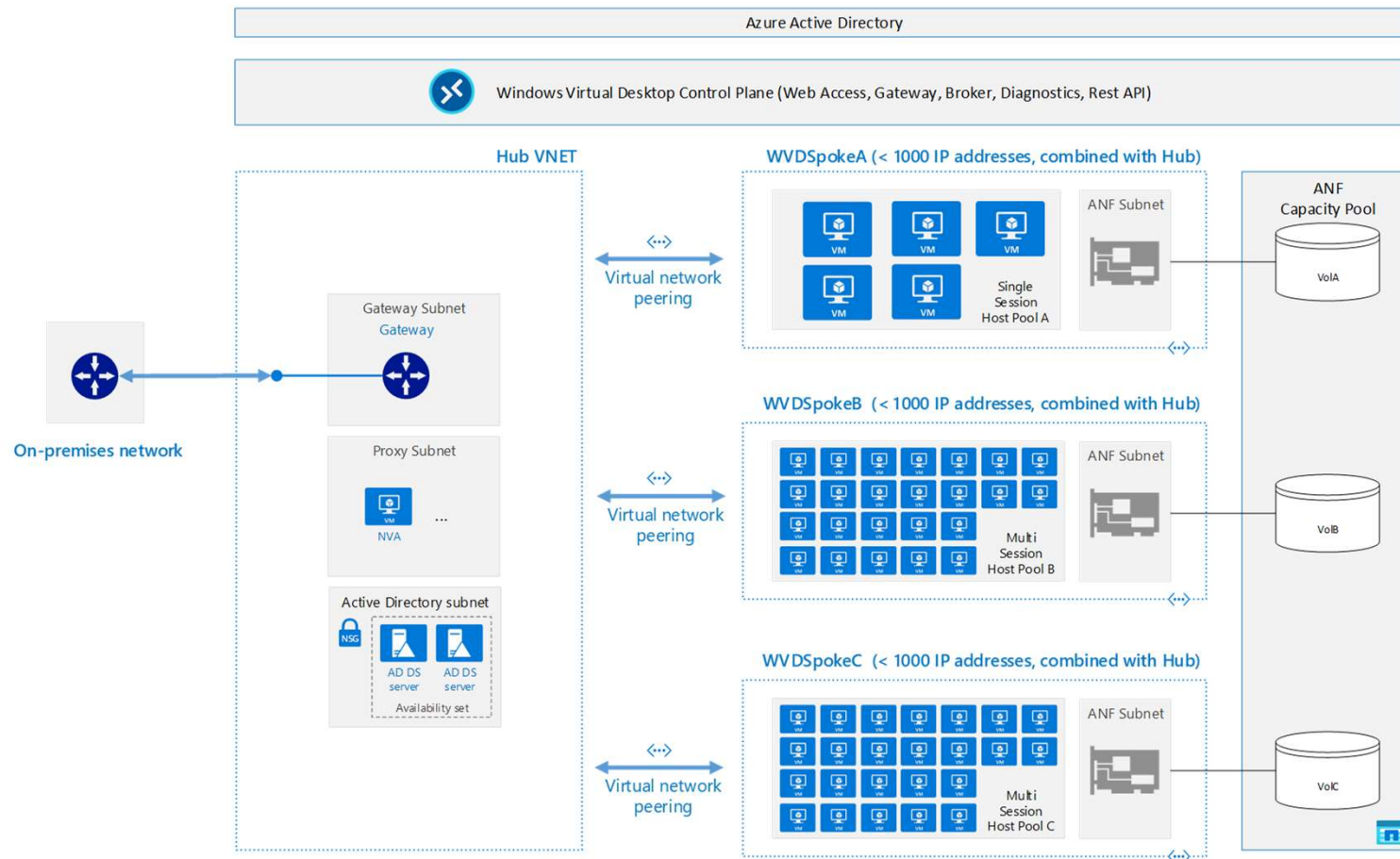
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# AVD ANF Best Practice (Less than 1000 hosts)





# AVD ANF Best Practice (More than 1000 hosts)





Key Functionality	Azure NetApp Files	Azure Premium Files	Azure Files
Availability	99.99	99.9	99.9
NFS Protocol	NFSv3 and NFSv4.1	NFSv4.1	NFSv3.0
SMB Protocol	3.1	3.0	3.0
Multichannel	Yes	Yes	No
SMB Server Allocated Per	VNET	Storage Account	Storage Account
Snapshots per Filesystems	256	200	200
Revert Volume	True	False	False
Max Volume Size	100 TiB (500TB Preview)	100 TiB	100 TiB
Max File Size	16 TiB	4 TiB	1 TiB
Access via Public IP Address	No	Yes	Yes
Bandwidth Allocation Method	SLA * Allocated Capacity	Not Selectable *See Performance limits	Not Selectable *See Performance limits
Bandwidth modification frequency	Increase – Unlimited (on-the-fly) Decrease – Unlimited	Increase – Unlimited Decrease – Once	
Storage Backend	SSD	Object storage on SSD	Object storage



# Cross-Region Replication



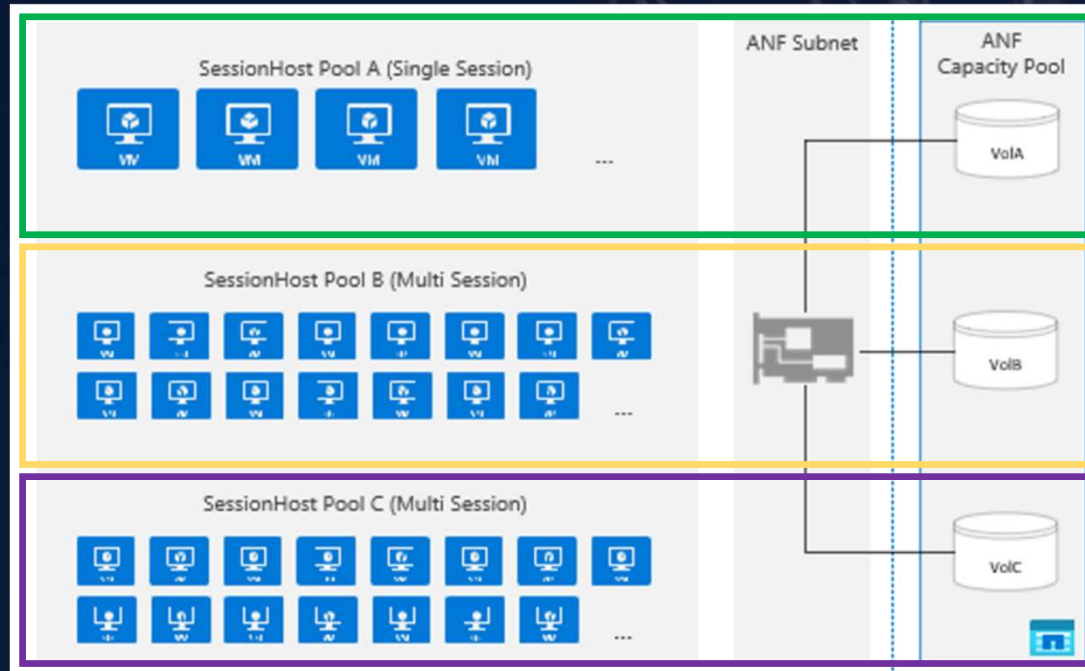
# Demo

Deploying Azure  
NetApp Files



# Storage Best Practice





One FSLogix share per host pool



Exclude your AVD  
from scanning VHDX



Size and grow your  
storage for more IOPS



Storage must be close  
to workload

# STORAGE BEST PRACTICES & AZURE NETAPP FILES



Consider DR /  
Failover / Backup



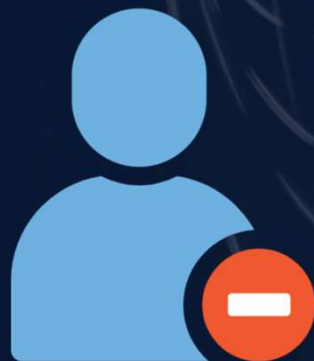
Remove local profiles



Use VHDX profiles



Shrink user profiles  
from time to time

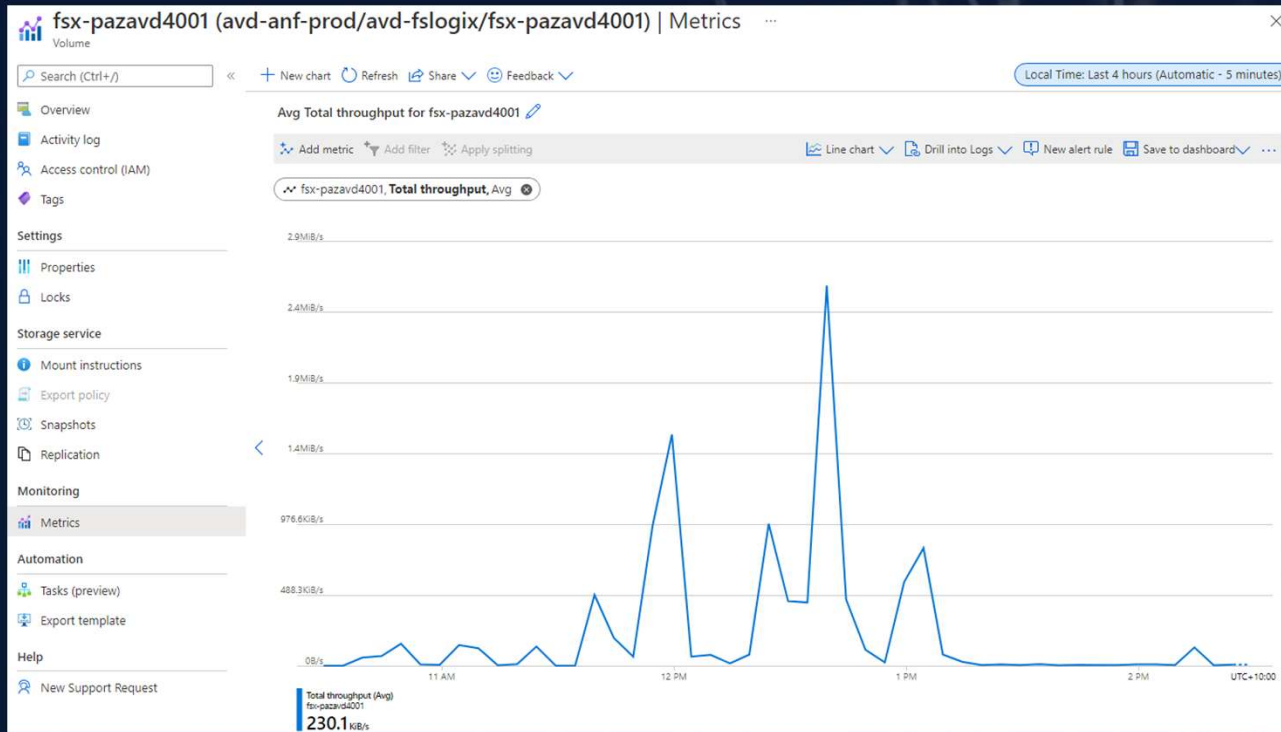


Remove old user  
profiles from your  
storage



Enable SMB 3.1  
encryption

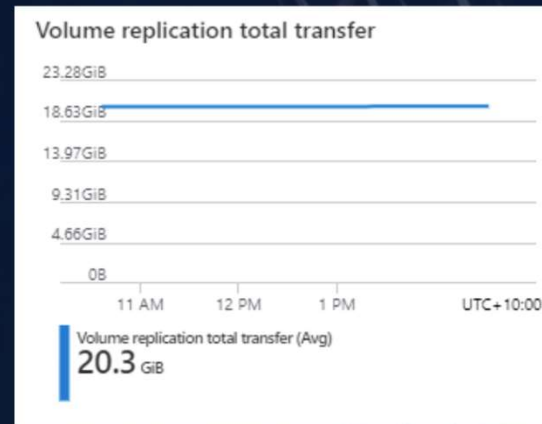
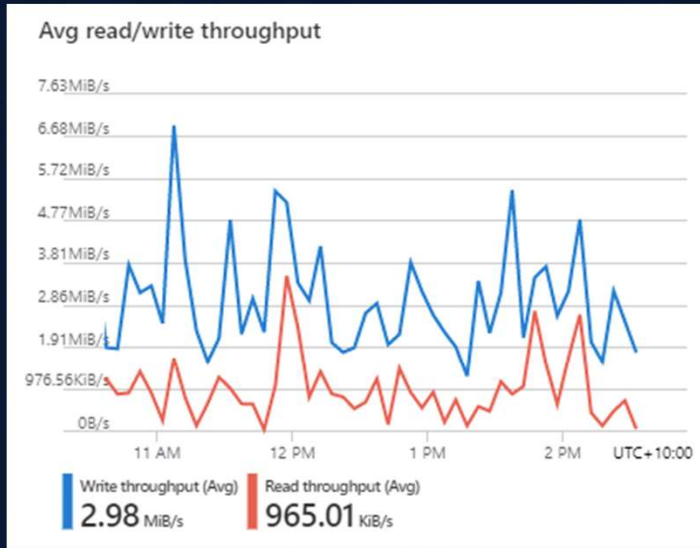
# STORAGE BEST PRACTICES & AZURE NETAPP FILES







METRIC	Avg ↑↓
Volume Consumed Size	109.84 GiB
Volume snapshot size	397.92 MiB
Percentage Volume Consumed Size	10.7265 %





# Azure NetApp Files Upcoming features



# Questions?

# UPCOMING SESSIONS

- ✓ **Session 4:** Nerdio Automation | **TUESDAY 17 MAY 2022**
- ✓ **Session 5:** AppAttach & MSIX | **TUESDAY 31 MAY 2022**
- ✓ **Session 6:** Economic Assessment - building a business case | **TUESDAY 14 JUNE 2022**
- ✓ **Session 7:** AVD Cost Analysis & Charge backs | **TUESDAY 28 JUNE 2022**
- ✓ **Session 8:** Series Finale - AVD best Practices | **TUESDAY 12 JULY 2022**





# AVD DISCUSSION SERIES

*Thank you*

SESSION 3 - STORAGE BEST PRACTICES & AZURE NETAPP FILES