

# **CUBESYS** DISCUSSION SERIES **OPTIMISING AVD FOR EFFICIENCY & COST SAVINGS**

# **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.

# Panel of Speakers





George Zajakowski Senior Cloud Consultant *cubesys* 

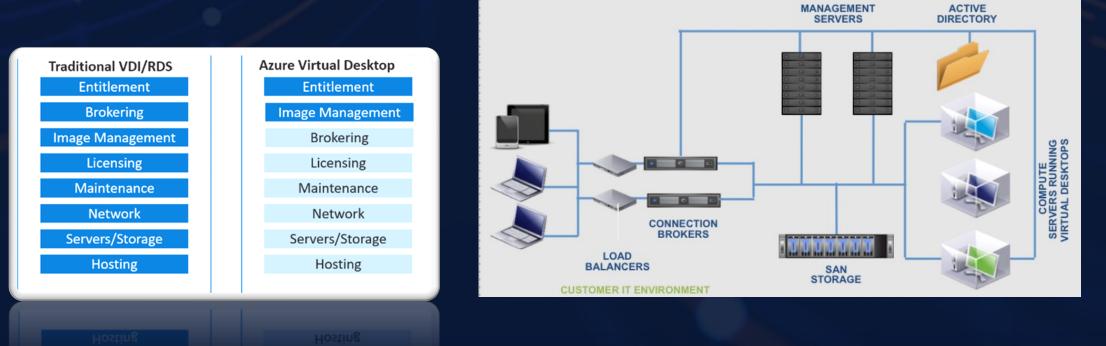


Paul Heaton Chief Executive Officer *cubesys* 

## On-Prem VDI

- Capital Expenditure (CapEx)
- Licensing
- Physical Limits
- Underlying infrastructure and management





# **AVD Efficiency**

- Users per session host
- Resources per session host
- Windows/Teams/OneDrive Optimisations
- Media Redirection

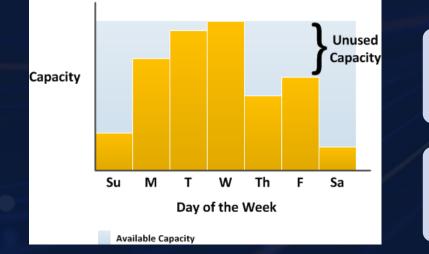




# OPTIMISING AVD FOR EFFICIENCY & COST SAVINGS

# AVD Cost Savings

Auto Scaling is the first logical step...



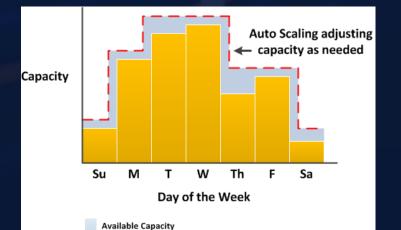


If you are using or considering AVD, scaling and **reviewing** how it performs **regularly** 



Native AVD provides some capability including:

Time of day Specific days of the week Session limits per session host





Toolsets and customisation and help build upon this and help



Don't just focus on the scale out, you also need to focus on the scale in

## **AVD Cost Optimisation**

... it is not just Auto Scaling Azure Compute...

- Just-in-time Provisioning
  - Avoid overprovisioning where possible
- Profile Optimisation
  - Optimise what is captured in profiles, this avoids bloat in the first place.
  - Regularly shrink and optimise what is captured.
  - Clear out stale and archive profiles regularly.



#### Storage Optimisation

- Consider reducing the base disk size if 128GB is not required, this can add up in a large environment.
- Premium SSD is recommended, but look to optimise its use, or use automation or a toolset to optimise disk type selection.
- Profile storage is often a hidden cost in AVD, monitor and manage your storage usage, and if possible, implement automation or a toolset to manage and optimise file storage



## **AVD Cost Optimisation**

... it is not just Auto Scaling Azure Compute...

- Personal VDIs
  - While a valid persona / delivery method, avoid giving everyone a Personal VDI if possible
  - Don't over provision, have an agreed provisioning process and SLA for new VDIs
  - If possible, use Start VM on Connect
  - Reclaim unused machines where possible



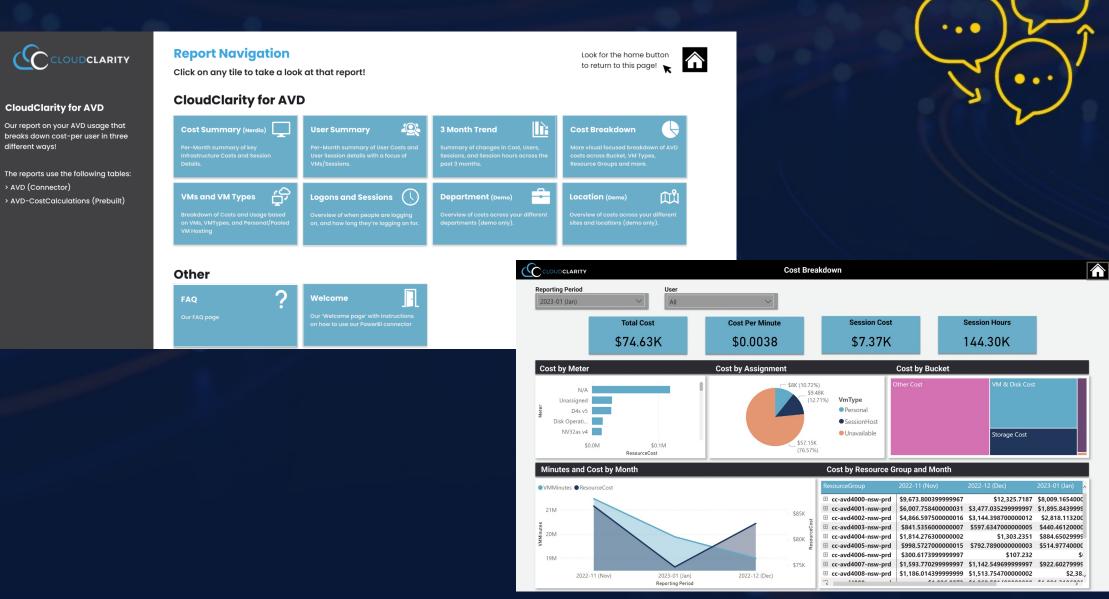
- Log Analytics Optimisation
  - While not as big as storage, this can be another hidden cost in AVD
  - Look to reduce retention and reduce frequency / fidelity if it isn't required
  - Use automation or a toolset to continue to monitor and optimise
- Reserved Instances / Azure Savings Plans
  - Both are worth investigating if you have a good handle on usage patterns
  - It is best to start off with PAYG if possible, and then optimise later



Cost Reduction Strategies For 🤤 Azure Virtual Desktop						
	AZURE COMPONENT COSTS					
	Compute (VMs)	OS Disks (Storage)	FSLogix (Storage)	Monthly Total	Per-User Cost	% Savings
Unoptimized	\$4,038	\$215	\$737	\$4,991	\$25.99	N/A
#1: VM Power Management	\$1,202	\$215	\$737	\$2,154	\$11.22	57%
#2: Just-in-time Provisioning (50% Burst)	\$1,202	\$140	\$737	\$2,079	\$10.83	58%
#3: 3-year Reserved Instances	\$457	\$140	\$737	\$1,333	\$6.94	73%
#4: OS Disks Auto-scale	\$457	\$89	\$737	\$1,283	\$6.68	74%
#5: OS Disks Shrink to 64 GB	\$457	\$46	\$737	\$1,240	\$6.46	75%
#6: FSLogix Shrink by 50%	\$457	\$46	\$369	\$871	\$4.54	83%
Assumptions • Number of users: <b>192</b> • User type: <b>Heavy</b> (2 users per vCPU) • Session host VM size: <b>D8s_v4</b> • OS disk: <b>P10</b> (128 GB Premium SSD)	<ul> <li>FSLogix profile size: 20 GB</li> <li>FSLogix storage: Azure Files Premium</li> <li>Hours in work week: 50</li> <li>Azure list pricing: South Central US</li> </ul>	TOTAL SAVINGS				83%

# AVD Cost Reporting

different ways!



### AVD Partners ...



# O-O-Managernerdiofor Enterprise



https://getnerdio.com/

https://cloudclarity.app



# **GOT MORE QUESTIONS?**

**Paul Heaton** 

paul.heaton@cubesys.com.au



in paulmichaelheaton

George Zajakovski

george.zajakovski@cubesys.com.au

in gzajakovski



# CUBESYS DISCUSSION SERIES **OPTIMISING AVD FOR EFFICIENCY & COST SAVINGS**