



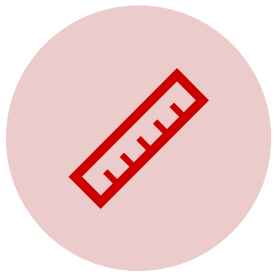
# Reitse Eskens

# Dataplatform Consultant

# Axians Business Analytics



# To Hyperscale or not to Hyperscale



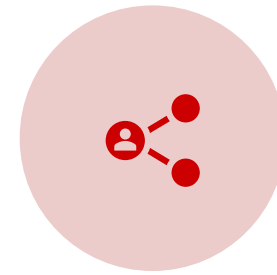
DESIGN



PROS AND  
CONS



BUGS?



WOULD YOU  
USE IT?

# Reitse Eskens

He/Him

**Dataplatform Consultant**  
Axians Business Analytics

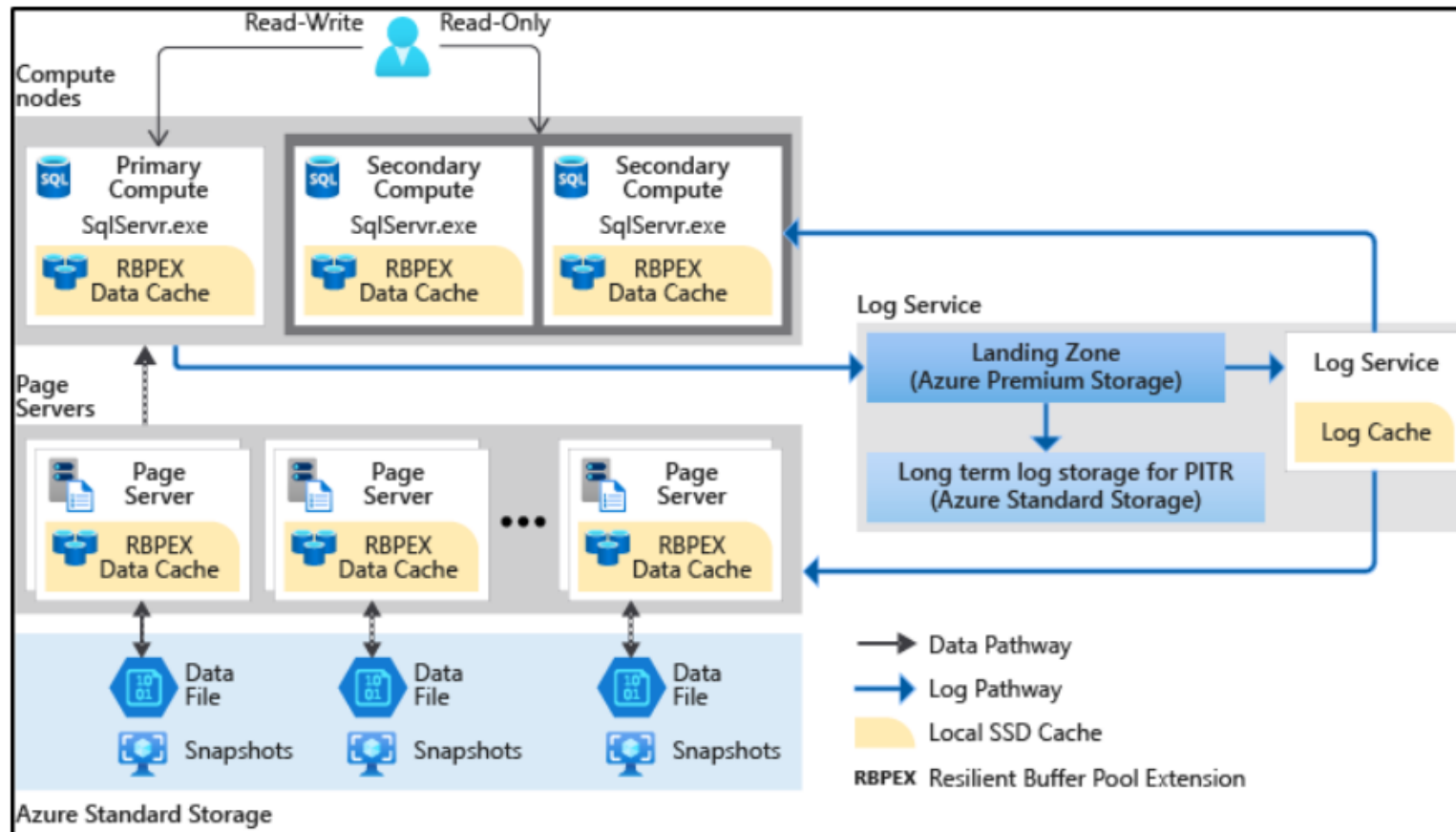
**reitse.eskens@axians.com**

**@2meterDBA**



- Production DBA / Performance tuning
- Azure infrastructure with Terraform
- SQL training
- Photography, running, cycling
- Public speaker
- Certified beyond any repair

# Hyperscale, general design



# Hyperscale!

- It's really fast (less to no log waits)
- It scales in the background
- You can scale it when needed
- Costs are related to the running setting

# Hyperscale?

- Scaling means a failover
- Don't forget to scale down
- Scaling loses most of your DMV contents
- Look at your restores, is the default the correct one?
- Querystore doesn't seem to suffer

# Check your restore

- Is this the correct setting?

Database name \*  ✓

Server ⓘ  ▼

Want to use SQL elastic pool? \* ⓘ ☐ Yes ☒ No

Compute + storage \* ⓘ

**Hyperscale**  
Gen5, 16 vCores  
[Configure database](#)

# Hyperscale bug

- Do not upgrade a database to Hyperscale
- The underlying design breaks. You need 128 GB page servers, we got one 1 TB page server
- RBIO\_RG\_STORAGE wait
- No performance at all



# Hyperscale bug



## Database Properties -

```
SELECT d.name,  
       vfs.file_id,  
       fsu.total_page_count,  
       ((fsu.total_page_count * 8)/1024)/1024 as file_gb  
FROM sys.databases d  
INNER JOIN sys.dm_io_virtual_file_stats(null,null) vfs on d.database_id=vfs.database_id  
INNER JOIN sys.dm_db_file_space_usage fsu on d.database_id = fsu.database_id  
       AND fsu.file_id = vfs.file_id
```

Permissions



Extended Properties



Query Store



# Hyperscale bug

Results		Messages		
	name	file_id	total_page_count	file_gb
1	My Hyperscale DB	1	16777216	128
2	My Hyperscale DB	3	16777216	128
3	My Hyperscale DB	4	16777216	128
4	My Hyperscale DB	5	16777216	128
5	My Hyperscale DB	6	16777216	128
6	My Hyperscale DB	7	16777216	128
7	My Hyperscale DB	8	16777216	128
8	My Hyperscale DB	9	16777216	128
9	My Hyperscale DB	10	16777216	128

27	My Hyperscale DB	28	16777216	128
28	My Hyperscale DB	29	16777216	128
29	My Hyperscale DB	30	15728640	120
30	My Hyperscale DB	31	13107200	100
31	My Hyperscale DB	32	11796480	90
32	My Hyperscale DB	33	9175040	70
33	My Hyperscale DB	34	7864320	60
34	My Hyperscale DB	35	5242880	40
35	My Hyperscale DB	36	2621440	20

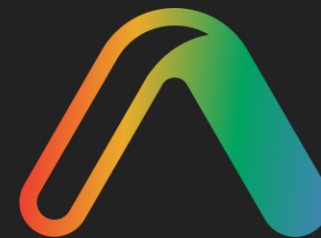
# Session evaluation

Your feedback is important to us



**Evaluate this session at:**

[www.PASSDataCommunitySummit.com/evaluation](http://www.PASSDataCommunitySummit.com/evaluation)



PASS  
**Data Community**  
**SUMMIT 2021**

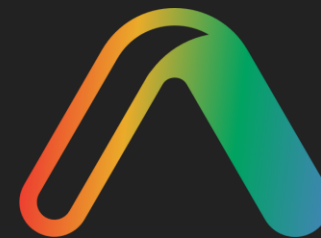
# Thank you

To Hyperscale or not to Hyperscale,  
that's the question

**Reitse Eskens**

Reitse.eskens@axians.com

@2meterDBA



PASS  
**Data Community**  
**SUMMIT 2021**