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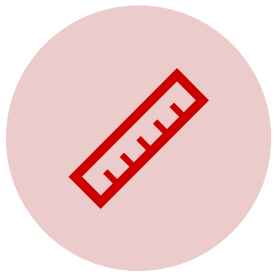# To Hyperscale or not to Hyperscale, that's the question

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He/Him

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Axians Business Analytics
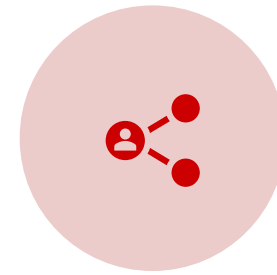
To Hyperscale or not to Hyperscale

DESIGN

PROS AND CONS

BUGS?

WOULD YOU USE IT?

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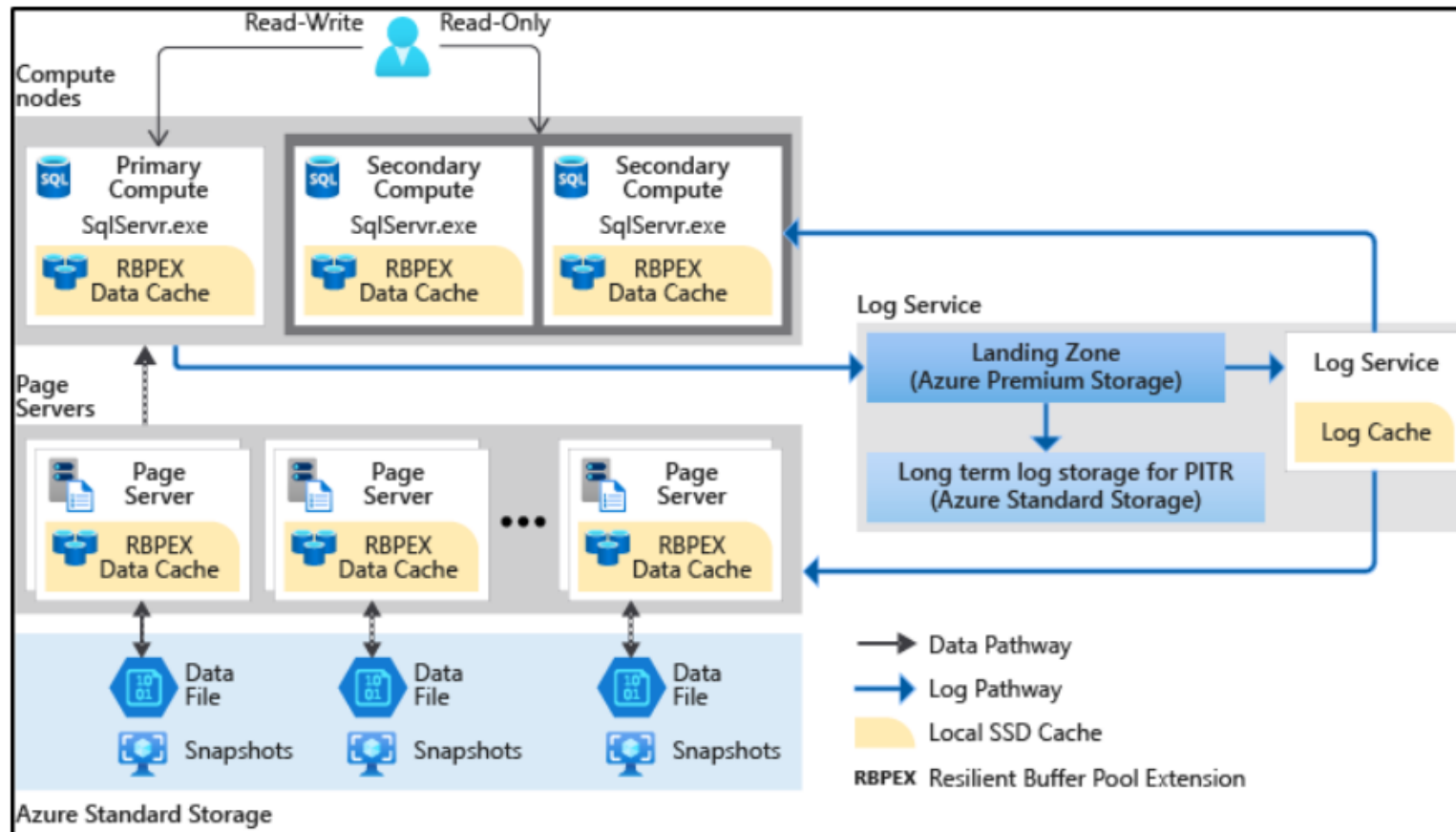
Axians Business Analytics

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@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

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Check your restore

- Is this the correct setting?

Database name *	restoreddb-new_2021-10-20T07-50Z ✓
Server ⓘ	(West Europe) ⌄
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


```sql
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
```

Extended Properties

Query Store

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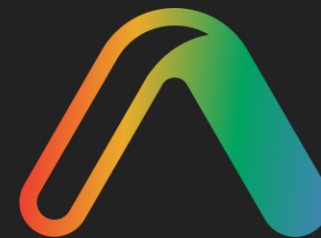SUMMIT 2021

Hyperscale bug

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Session evaluation

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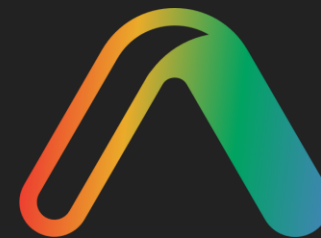**Data Community**
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Thank you

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