



Where is My SQL Agent?

Taiob Ali



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/sqlworldwide



@sqlworldwide



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Data Professional

Microsoft Data Platform MVP. 15 Years working with Microsoft Data Platform. Microsoft and MongoDB certified. Worked in ecommerce, healthcare and finance industry.

Giving Back

Board member NESQL user group and Founder of DBA virtual group. Organizer of Boston SQL Saturday. Frequent speaker at local and virtual user groups, Data Saturdays and Azure conferences.

When Not Working

Running – 1x26.2 and 30+x 13.1, Learning US history. Shuttling 3 kids.

Integrity
Checks

Index
Maintenance

Update
Statistics

Purge Old
data

Track
Blocking

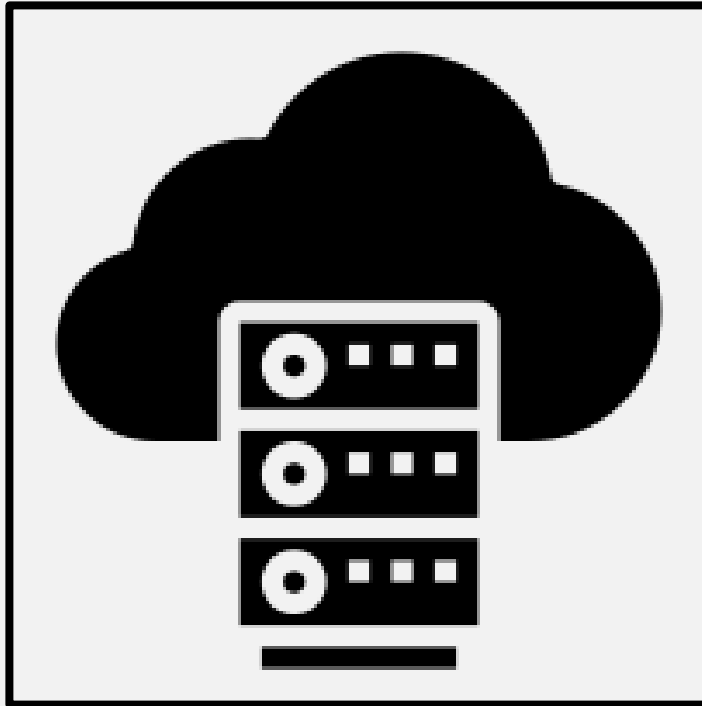
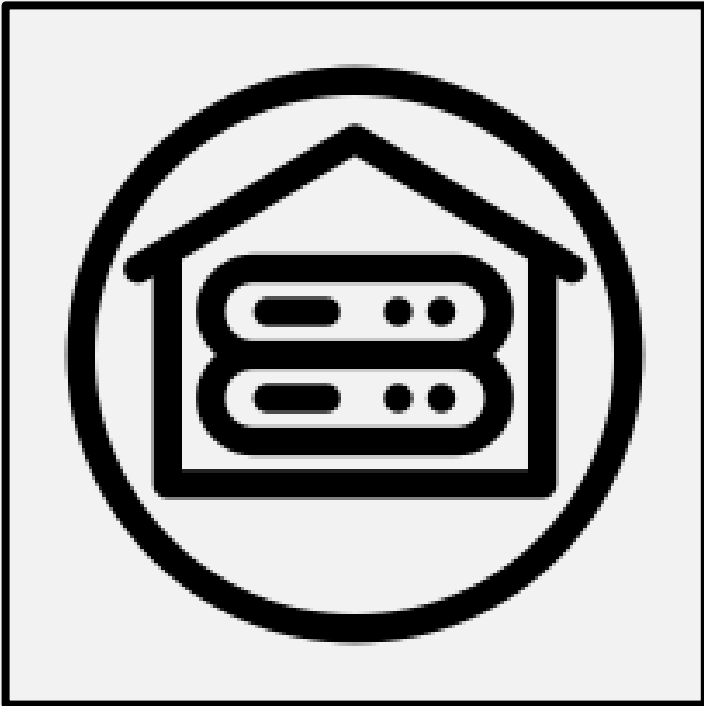
Collecting
WMI

Long
Running
Queries

Wait
Statistics

Collecting
DMV





On-Premise

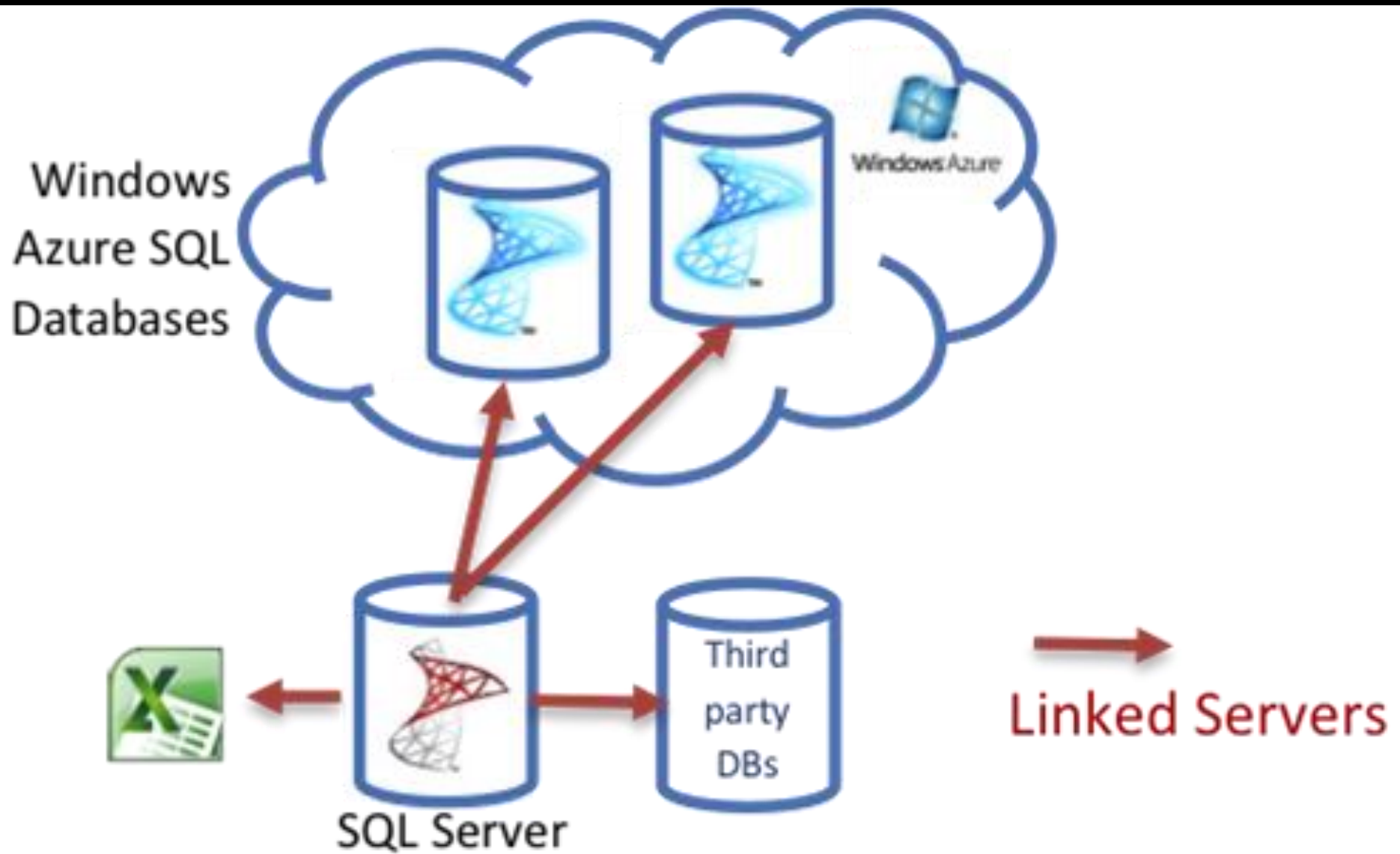
- Linked Server
- PowerShell/
Windows
Scheduler
- 3rd Party
Scheduler

Azure-IaaS

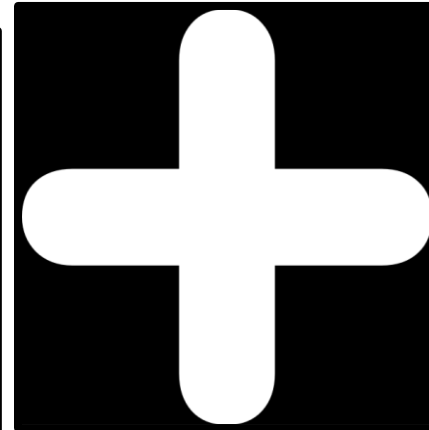
- SQL Server on
Azure VM
- PowerShell/Azure
VM Windows
Scheduler

Azure-PaaS

- Azure
Automation
- Azure Function
- Elastic Job Agents
- Web Jobs

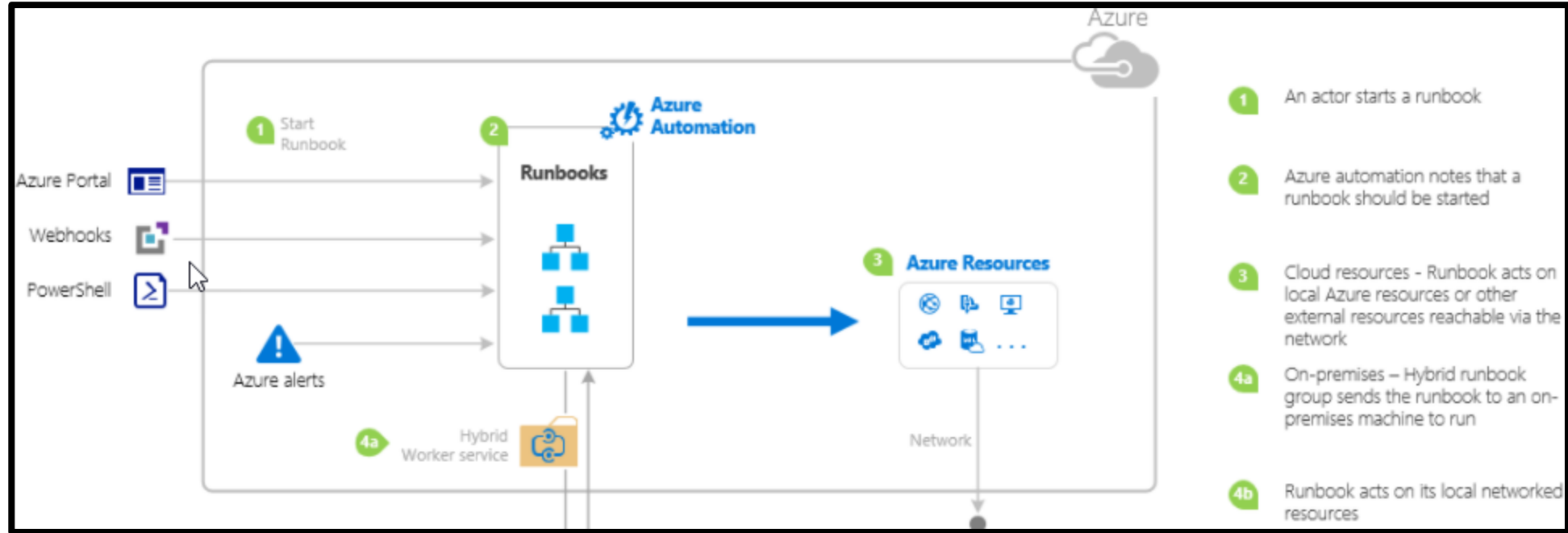


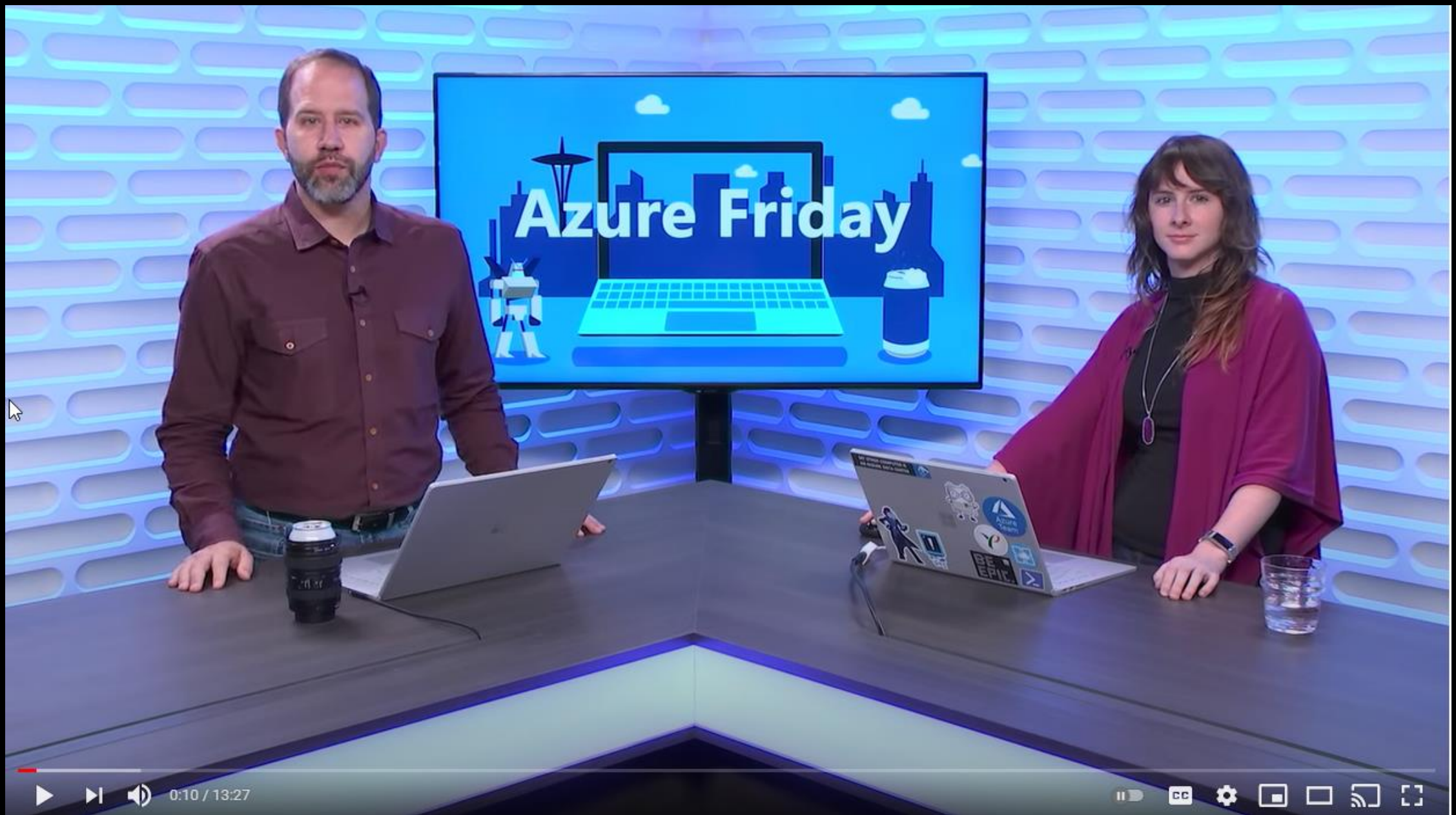
<https://azure.microsoft.com/ja-jp/blog/announcing-updates-to-windows-azure-sql-database/>



<https://www.fullstackpython.com/powershell.html>

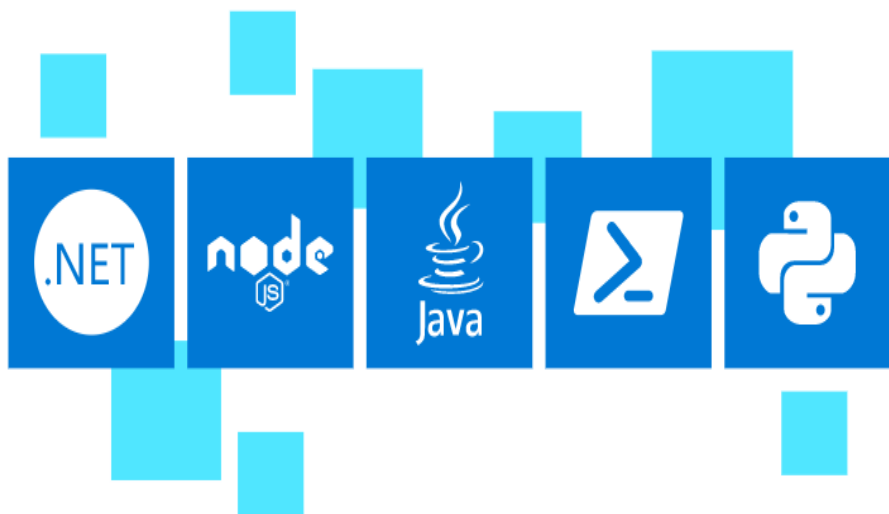
<https://www.adamtheautomator.com/create-jenkins-jnlp-scheduled-tasks-powershell-dsc/>





[Azure Automation | Azure Friday](#)

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Event Driven

Serverless Compute

Choice of language

Pay per Use

Bring your own dependencies

Simplified integration

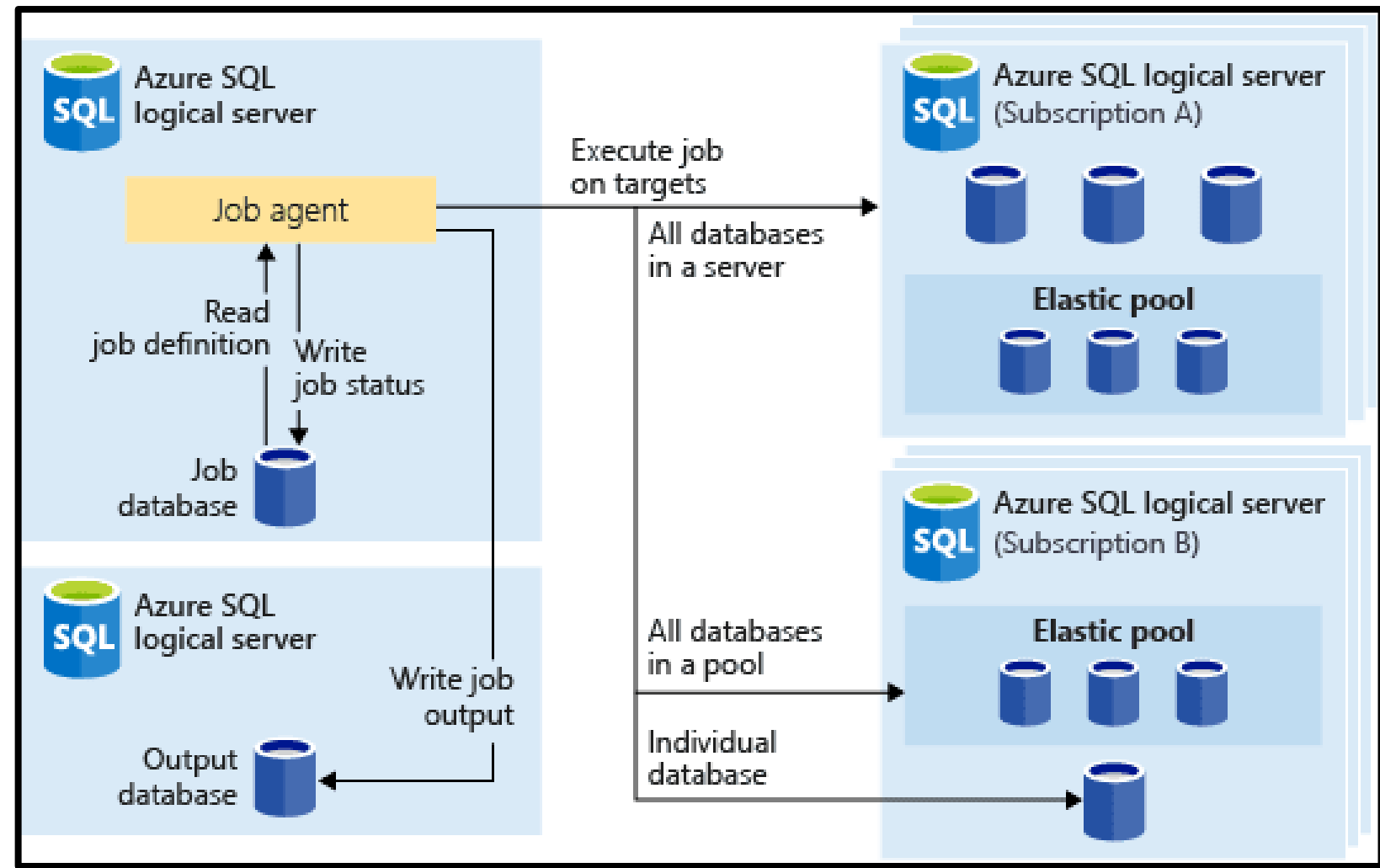
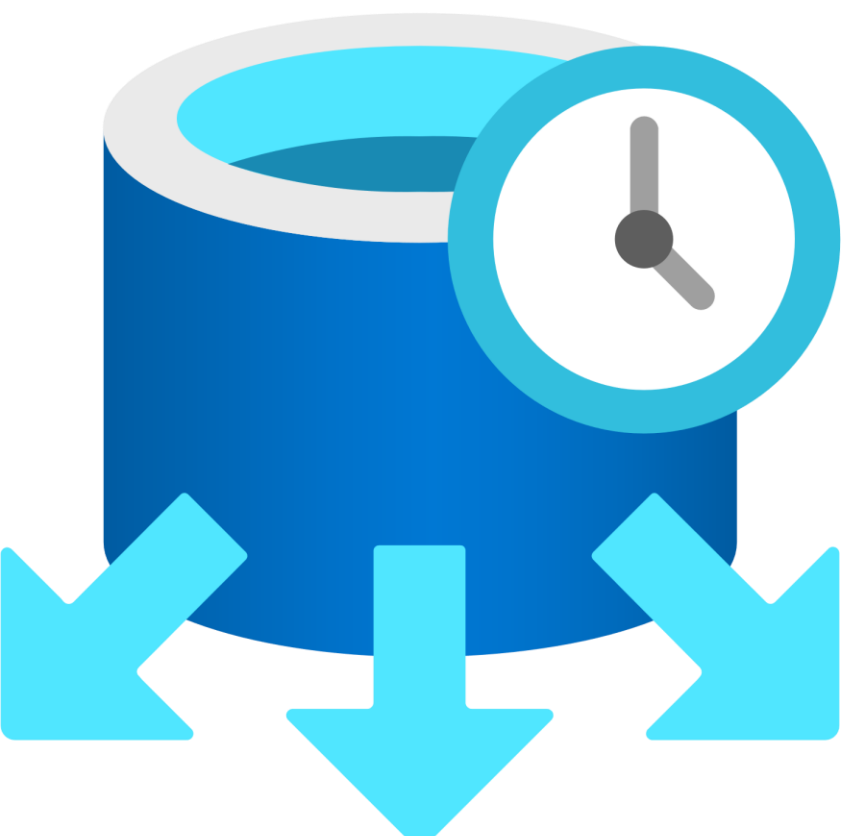
Development flexibility

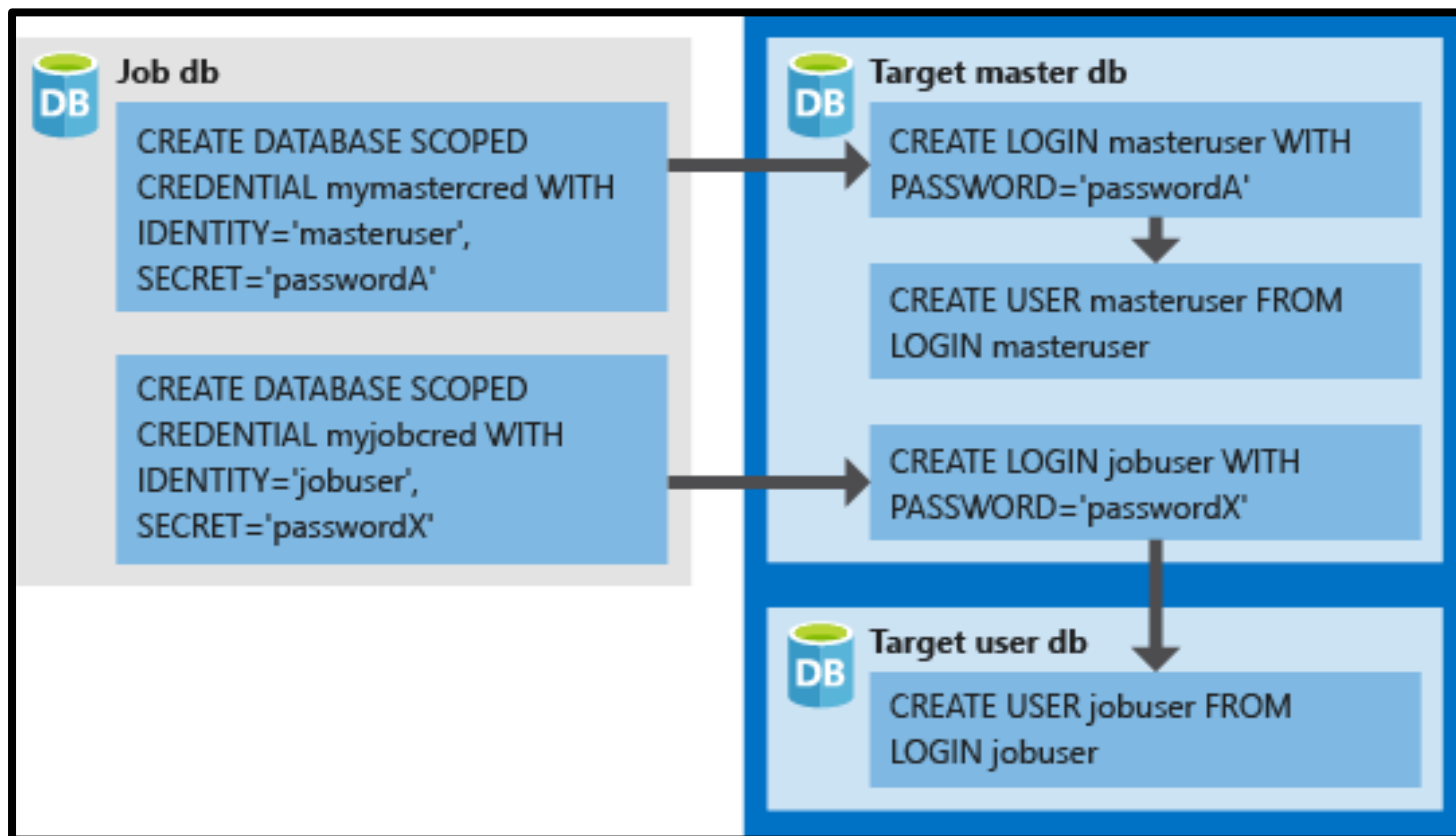
Open source

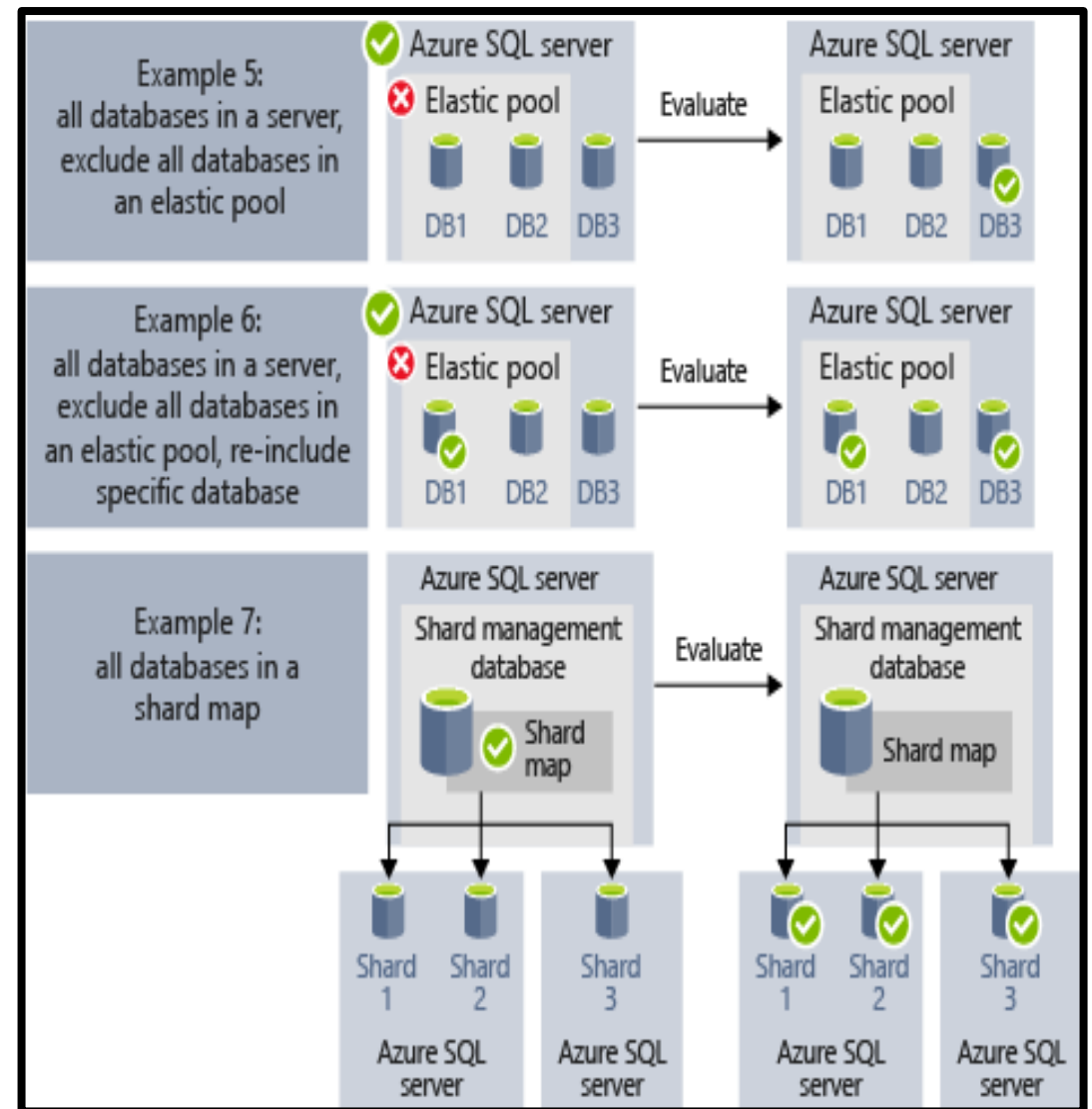
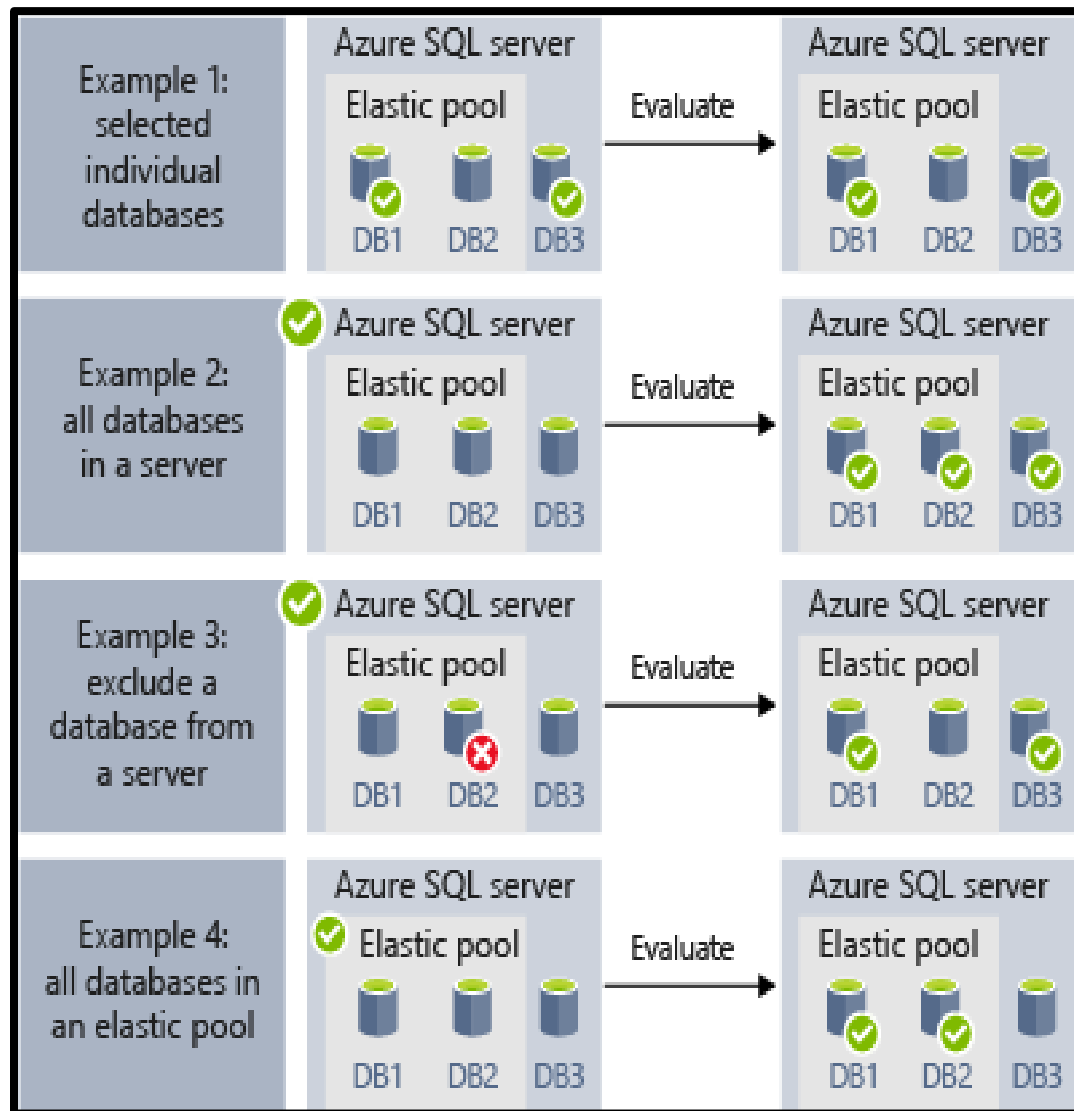
Flexible hosting plan

<https://aka.ms.tryfunctions>

<https://aka.ms/serverless-quickstart>







Tables

- + System Tables
- + External Tables
- + GraphTables
- + jobs_internal.__MigrationHistory
- + jobs_internal.command_data
- + jobs_internal.job_cancellations
- + jobs_internal.job_executions
- + jobs_internal.job_task_executions
- + jobs_internal.job_versions
- + jobs_internal.jobs
- + jobs_internal.jobstep_data
- + jobs_internal.jobsteps
- + jobs_internal.script_batches
- + jobs_internal.target_associations
- + jobs_internal.target_group_memberships

Views

- + System Views
- + jobs.job_executions
- + jobs.job_versions
- + jobs.jobs
- + jobs.jobstep_versions
- + jobs.jobsteps
- + jobs.target_group_members
- + jobs.target_groups
- + jobs_internal.current_job_version_number
- + jobs_internal.database_credentials
- + jobs_internal.target_group_members_json
- + jobs_internal.visible_jobs
- + jobs_internal.visible_target_groups
- + jobs_internal.visible_targets_formatted

Stored Procedures

- + System Stored Procedures
- + jobs.sp_add_job
- + jobs.sp_add_jobstep
- + jobs.sp_add_target_group
- + jobs.sp_add_target_group_member
- + jobs.sp_delete_job
- + jobs.sp_delete_jobstep
- + jobs.sp_delete_target_group
- + jobs.sp_delete_target_group_member
- + jobs.sp_purge_jobhistory
- + jobs.sp_start_job
- + jobs.sp_stop_job
- + jobs.sp_update_job
- + jobs.sp_update_jobstep
- + jobs_internal.sp_add_job_version

100 concurrent jobs

Can limit parallel job execution

History over 45 days purged



ADS 1.28

SQL2019 CU10

PS 7.*

Multiple
Options

Hybrid
Model

Multiple
Language

Know
Limitations

Scalability

Be Flexible

Resource

[Automate management tasks using database jobs](#)

[Creating a Linked Server to an Azure SQL Database](#)

[An introduction to Azure Automation](#)

[Azure Automation runbook types](#)

[Azure Functions Documentation](#)

[An introduction to Azure Functions](#)

[Use Transact-SQL \(T-SQL\) to create and manage Elastic Database Jobs](#)

[Choose the right integration and automation services in Azure](#)



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