



# Where is My SQL Agent?

Taiob Ali



Taib Ali

Database Solutions Manager, GMO LLC

 <http://sqlworldwide.com/>

 /sqlworldwide

 @sqlworldwide

 taib@sqlworldwide.com



Integrity  
Checks

Index  
Maintenance

Purge Old  
data

Collecting  
WMI

Collecting  
DMV

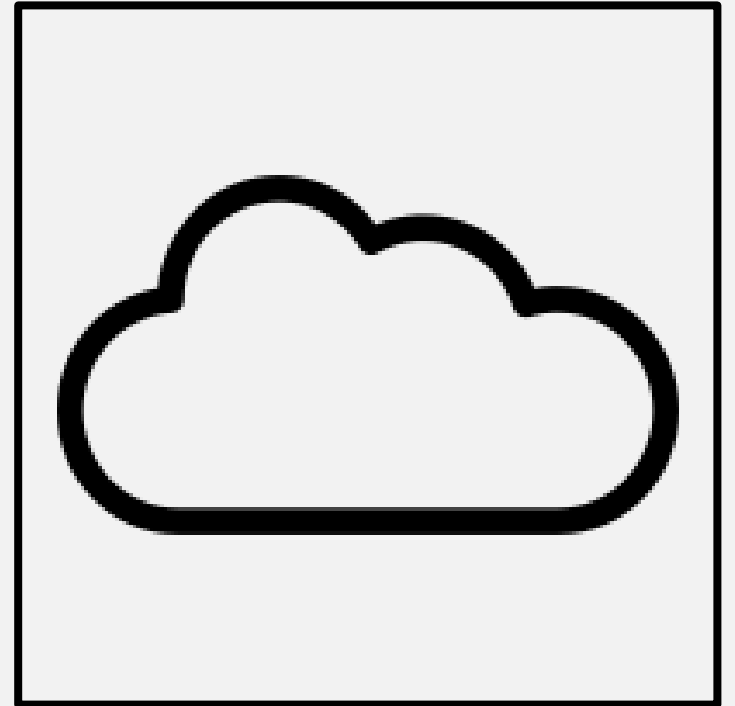
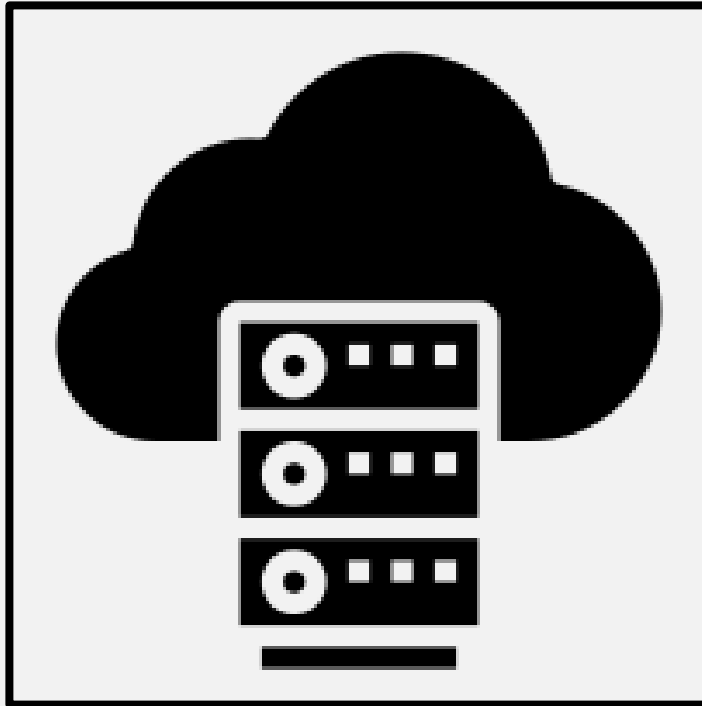
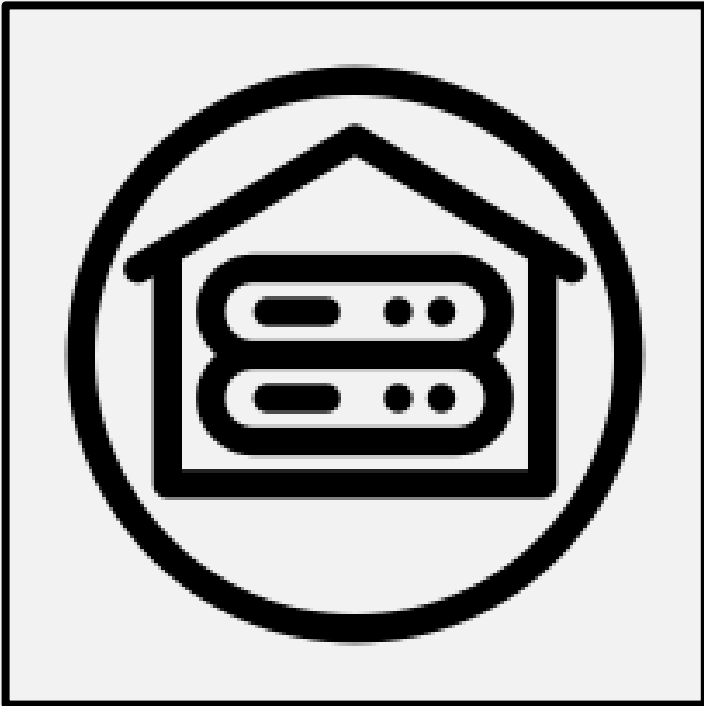
Wait  
Statistics

Long  
Running  
Queries

Track  
Blocking

Update  
Statistics





## On-Premise

- Linked Server
- PowerShell/  
Windows  
Scheduler
- 3<sup>rd</sup> Party  
Scheduler

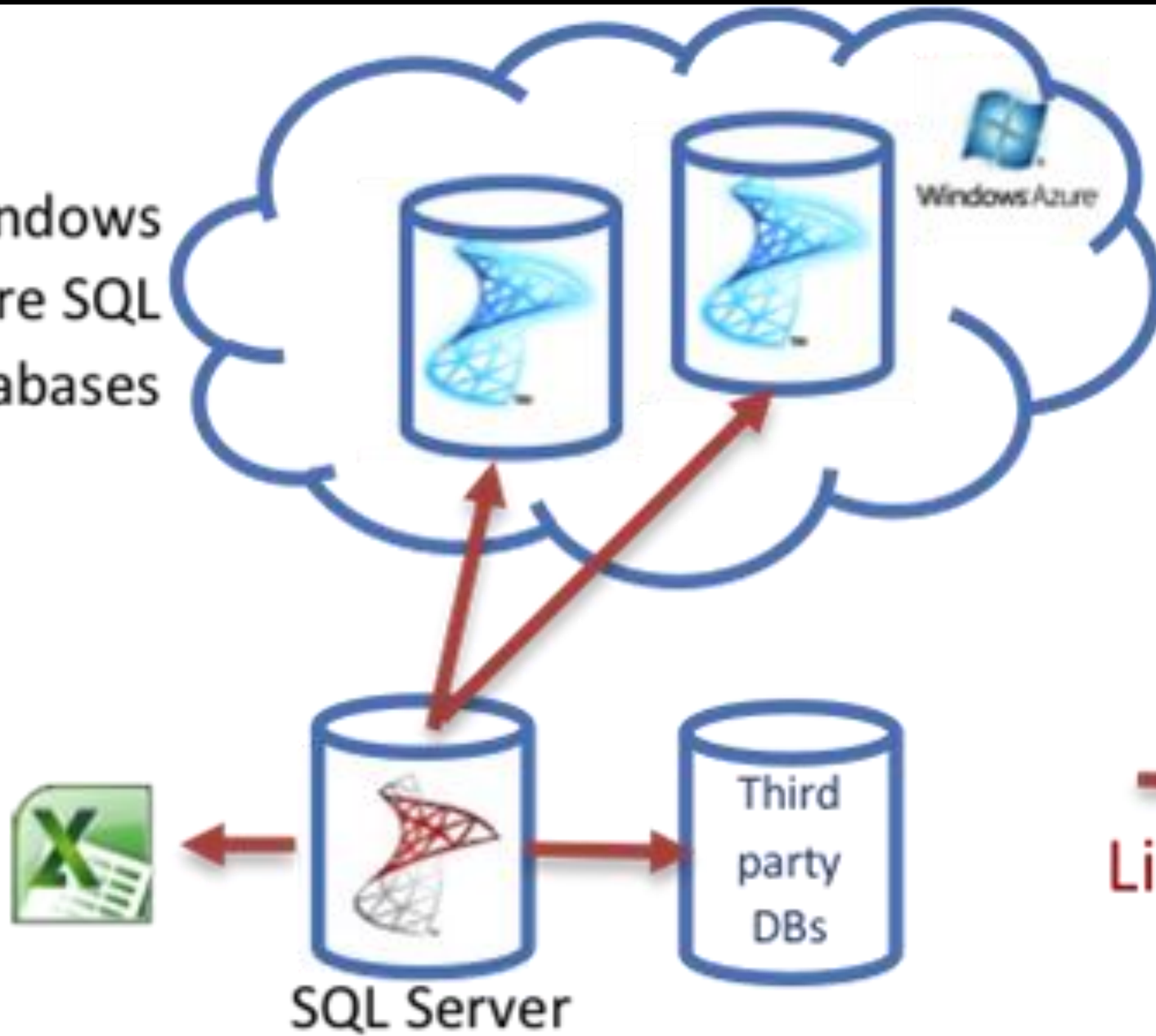
## Azure-iaaS

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

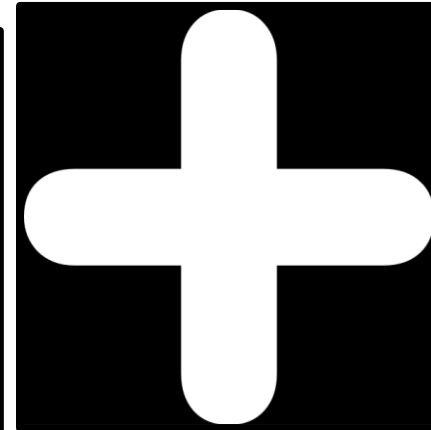
## Azure-PaaS

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

Windows  
Azure SQL  
Databases

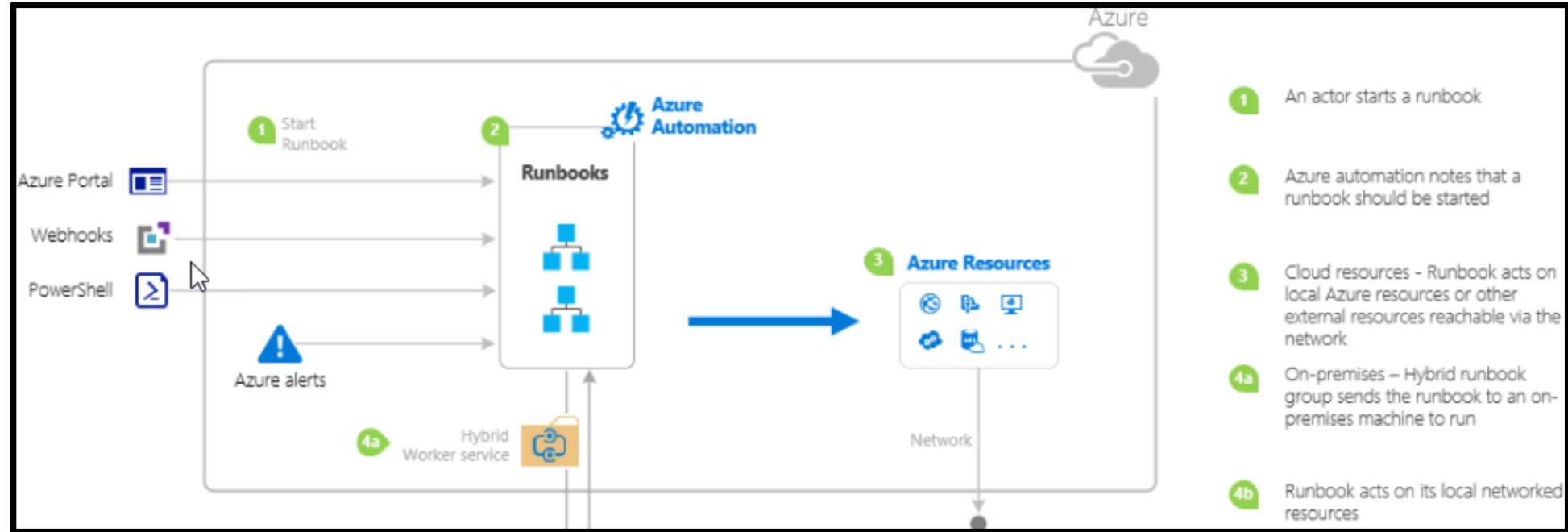


→  
**Linked Servers**

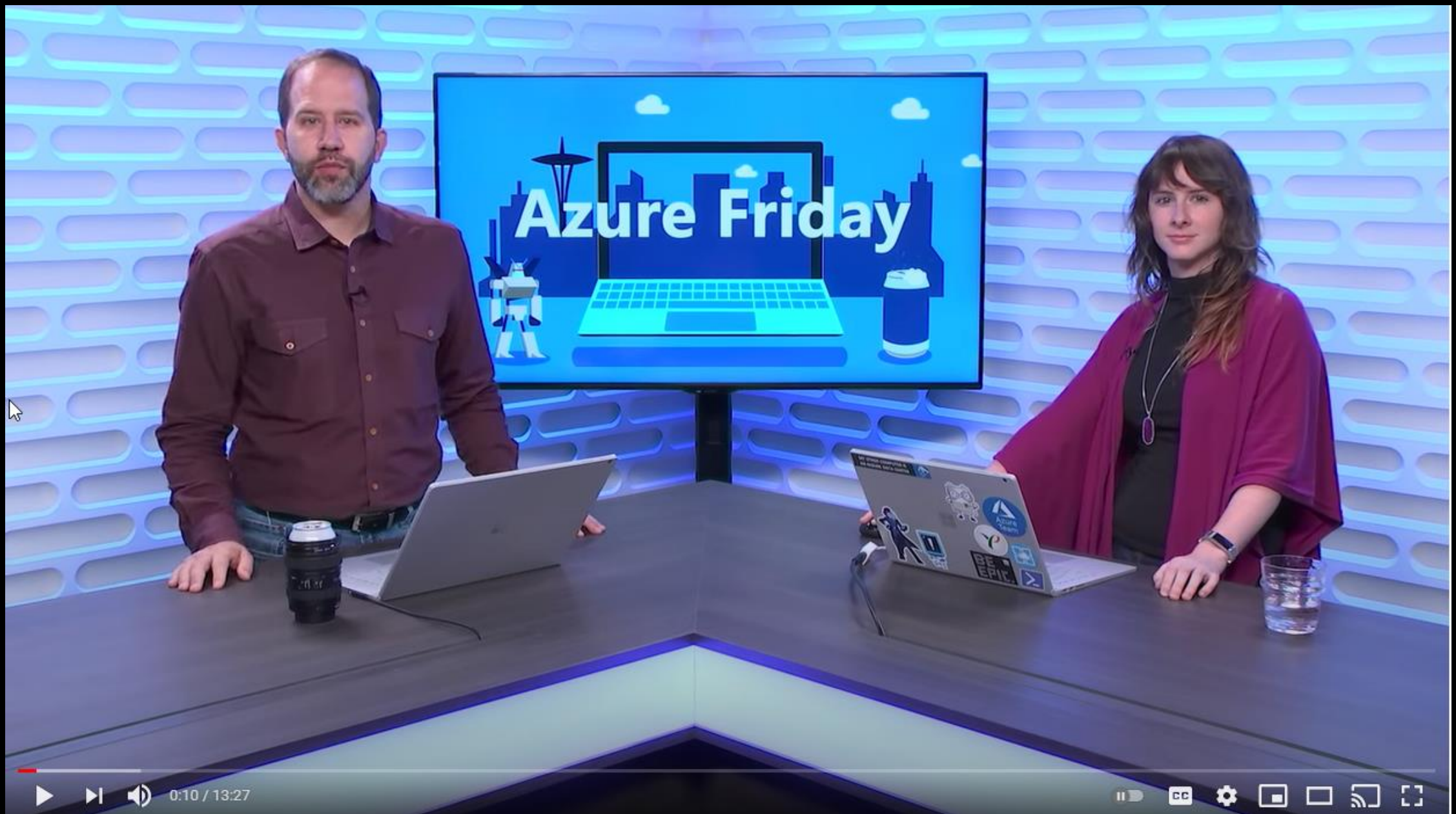


<https://www.fullstackpython.com/powershell.html>

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

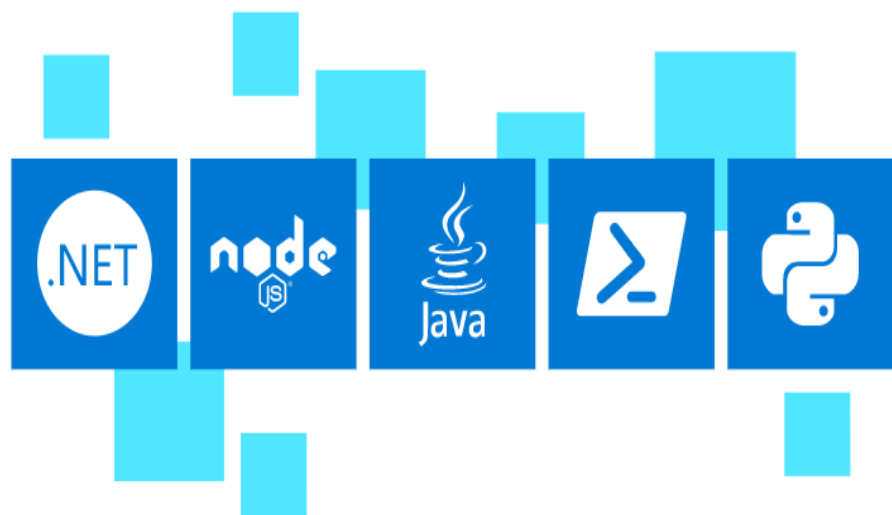






[Azure Automation | Azure Friday](#)

@SQLWorldWide



Event Driven

Serverless Compute

Choice of language

Pay per Use

Bring your own dependencies

Simplified integration

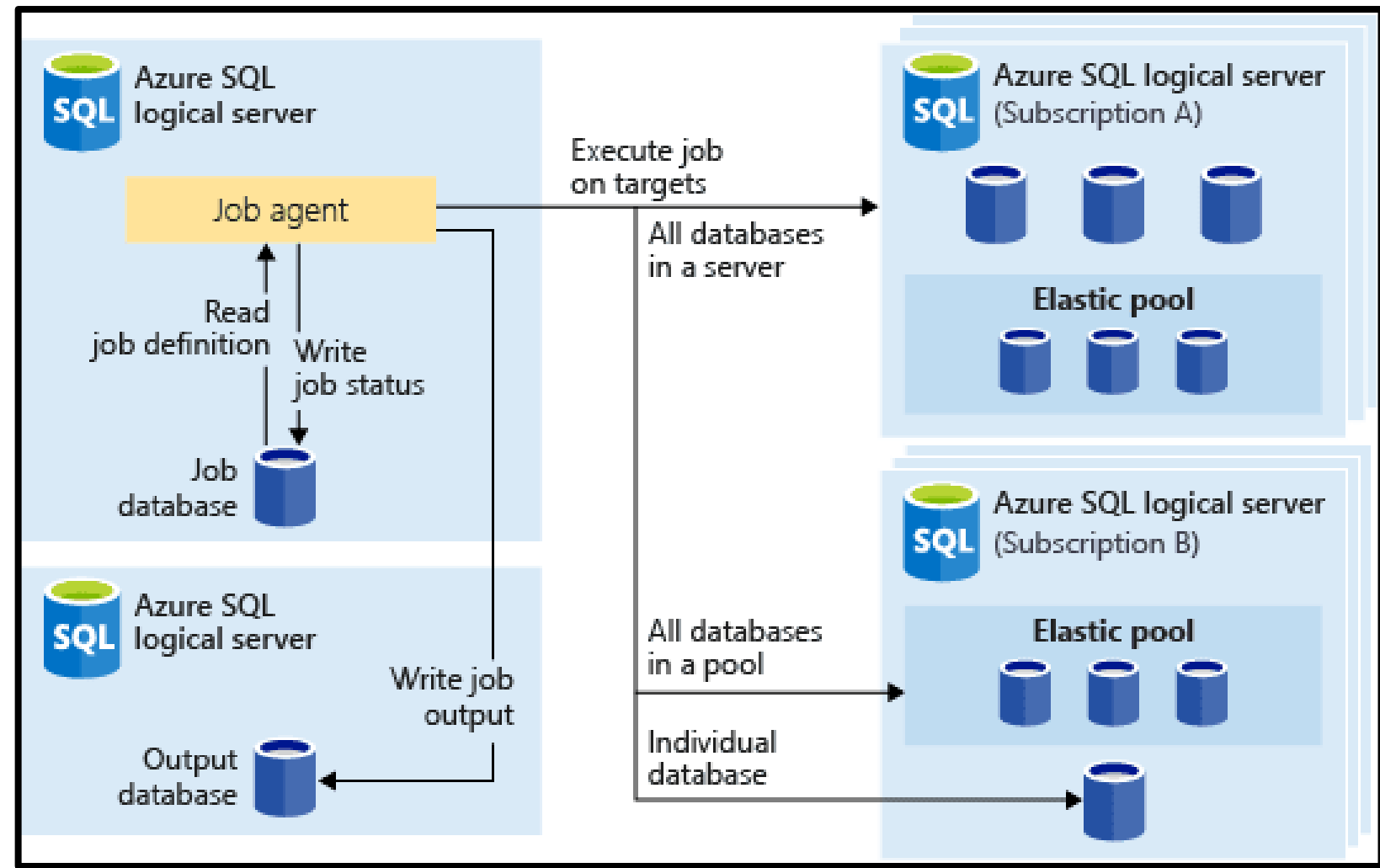
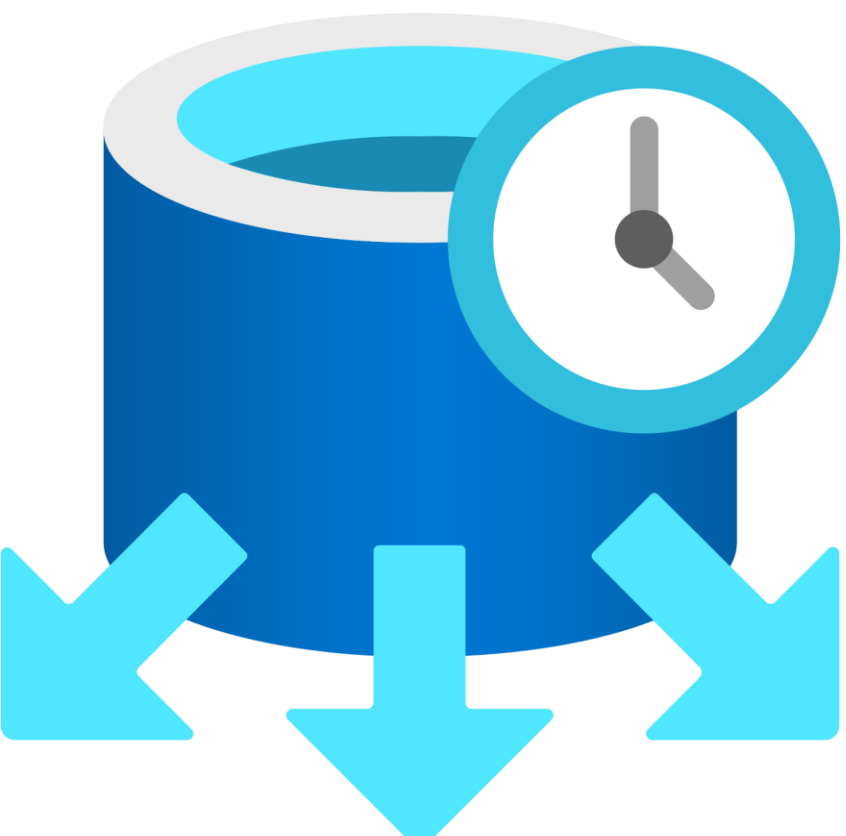
Development flexibility

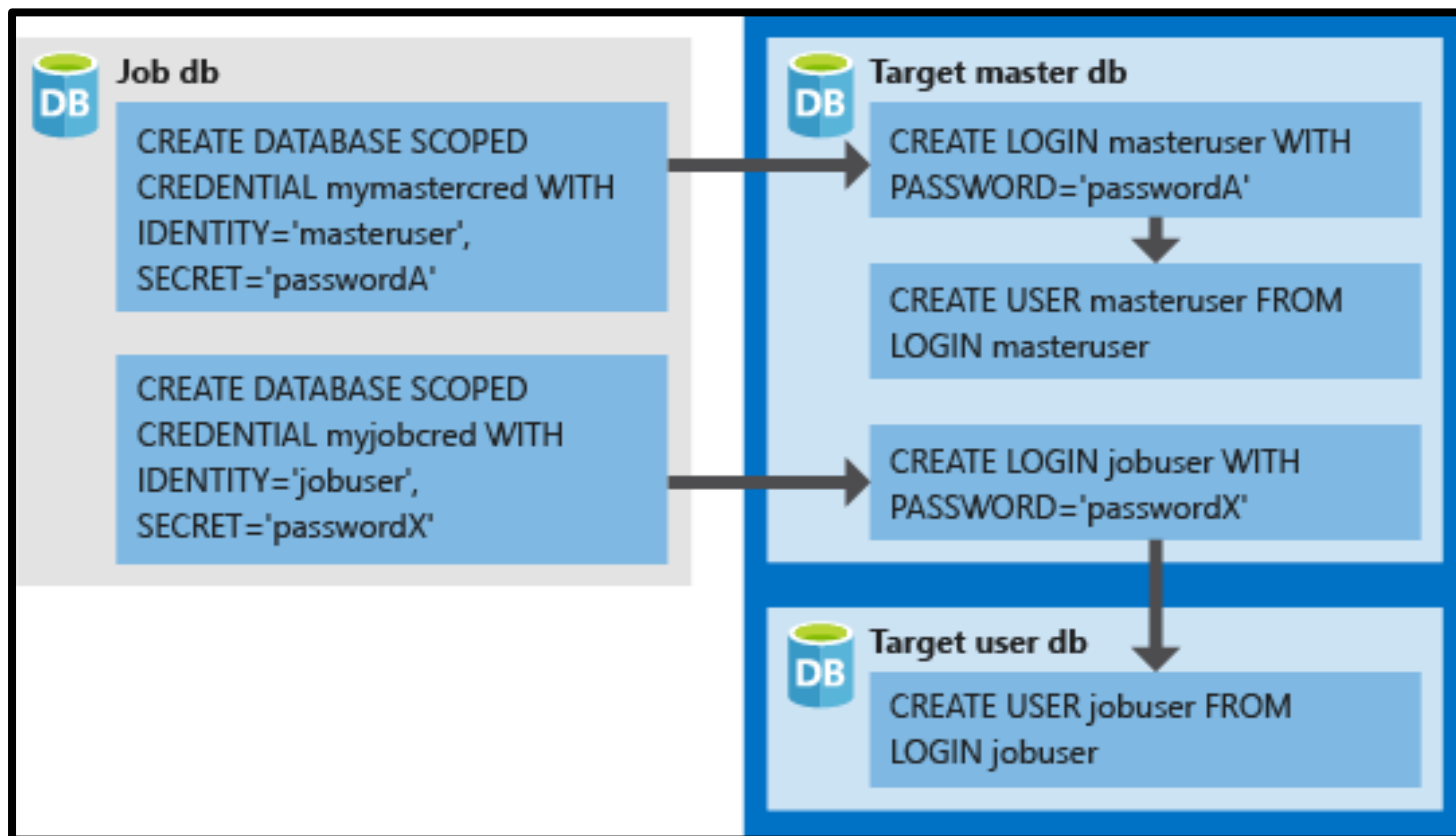
Open source

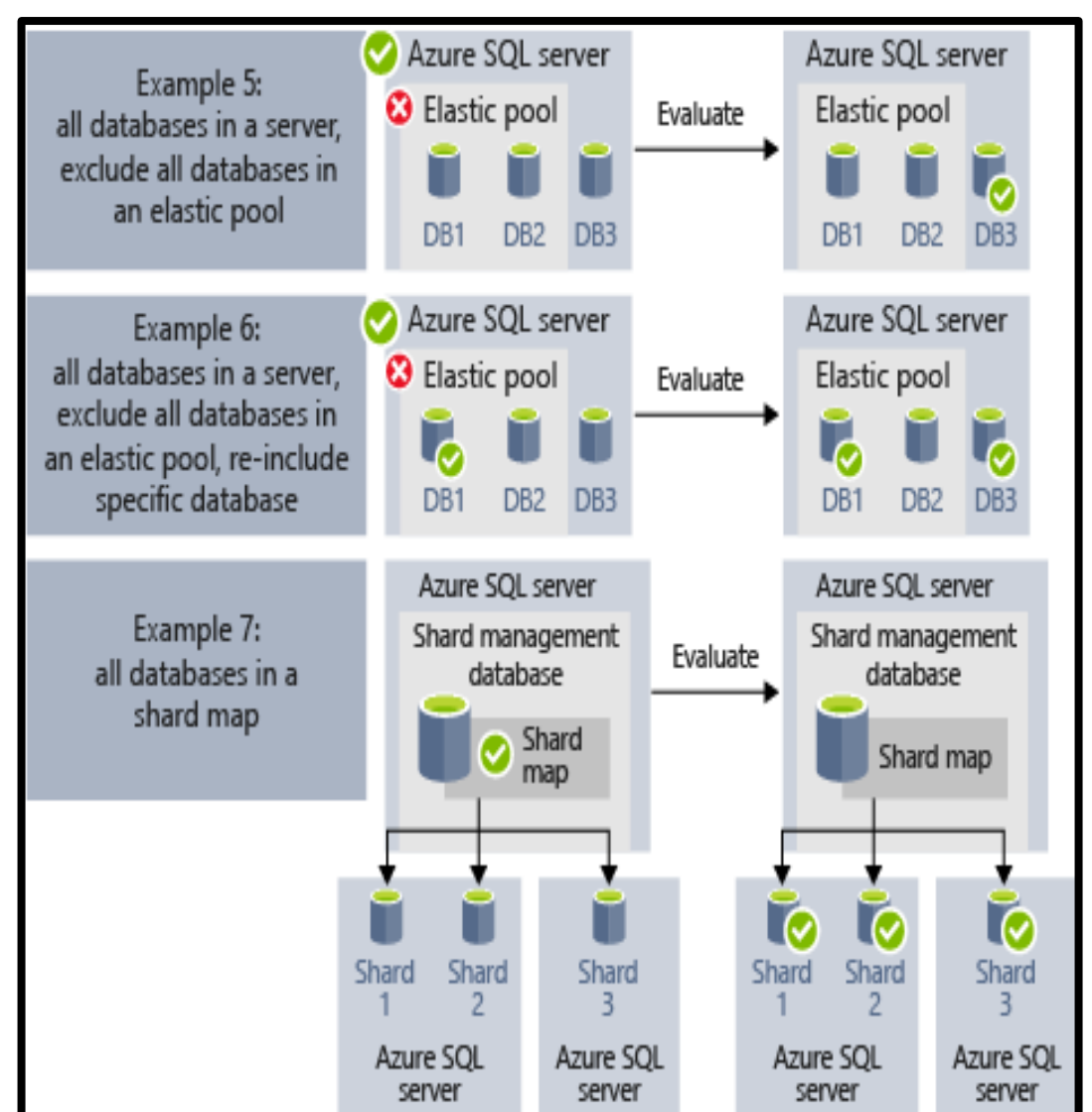
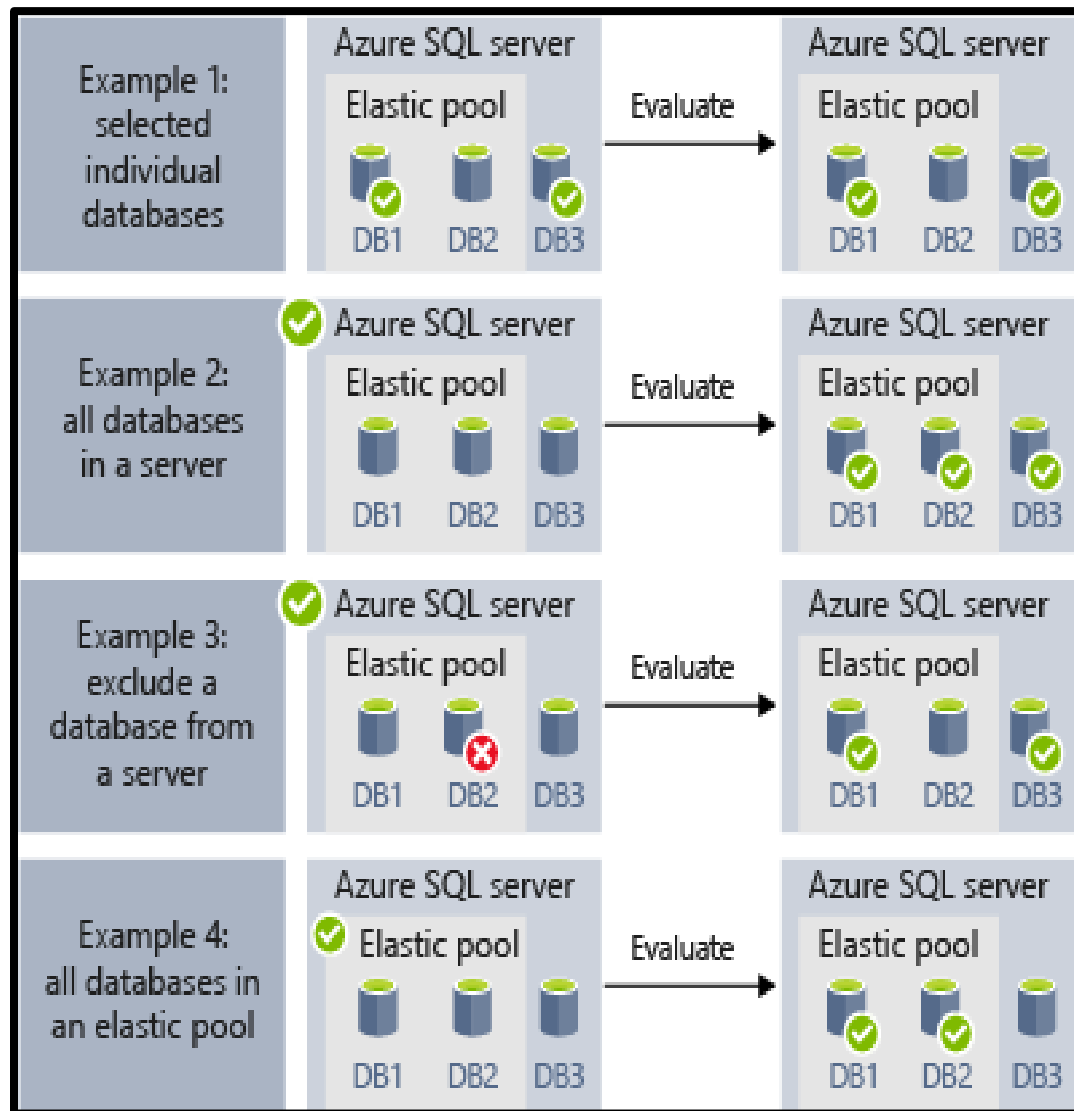
Flexible hosting plan

- **Introduction to  
Azure  
Functions**
- **Develop Azure  
Functions**











## 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 1.44.1  
SQL2012 CU5  
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](#)

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

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



@sqlworldwide



linkedin.com/in/sqlworldwide



sqlworldwide.com



taio@sqlworldwide.com

