



Where is My SQL Agent?

Taiob Ali



Data Solutions Manager, GMO LLC



<http://sqlworldwide.com/>



/sqlworldwide



@sqlworldwide



taio@sqlworldwide.com

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 Data 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.

Use of SQL Server Agent

Integrity
Checks

Index
Maintenance

Update
Statistics

Purge Old data

Track Blocking

Collecting
WMI

Long Running
Queries

Wait Statistics

Collecting
DMV



On-Premise

VS.



Cloud

On-Premise

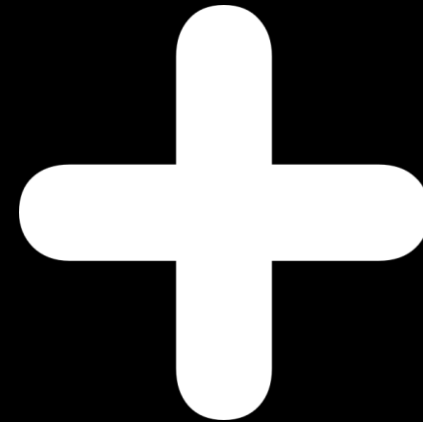
- Linked Server
- PowerShell/
Windows
Scheduler
- 3rd Party
Scheduler

Azure-IaaS

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

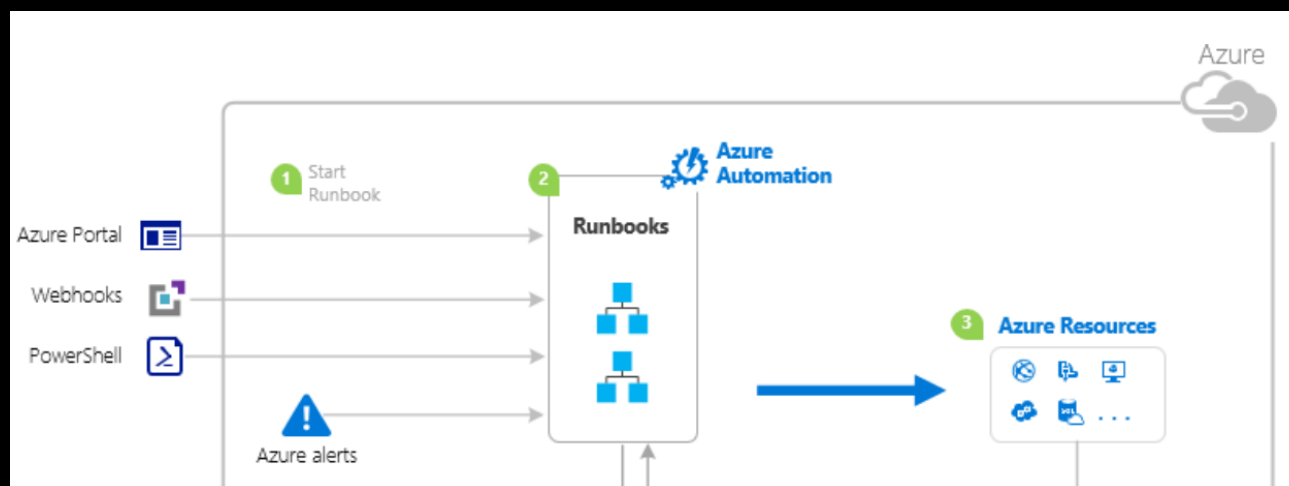
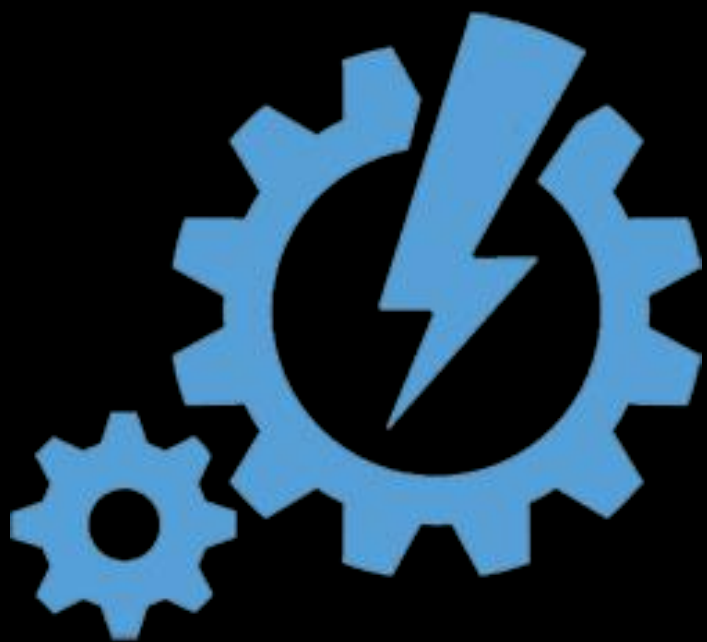
Azure-PaaS

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



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

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



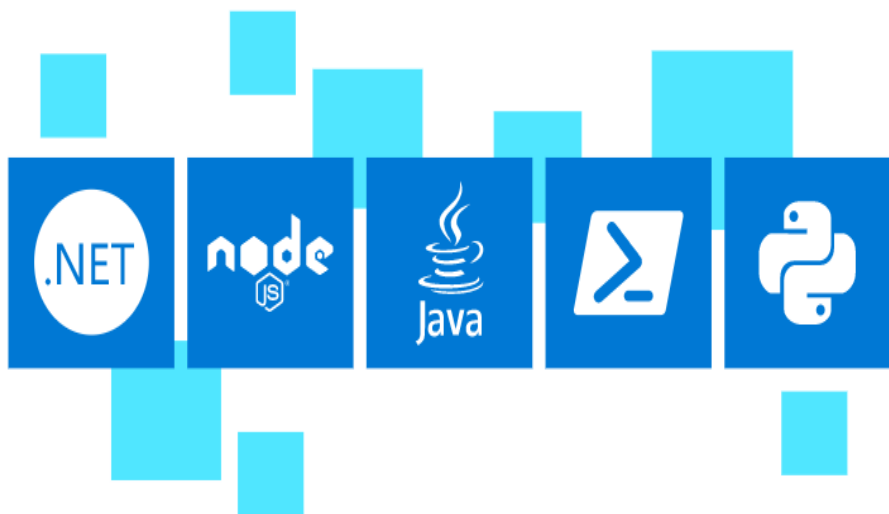
Azure Friday

<https://www.youtube.com/watch?v=DgMJC9bWWrE>

Azure Friday Video

0:01 / 13:27

CC



Event Driven

Serverless Compute

Choice of language

Pay per Use

Bring your own dependencies

Simplified integration

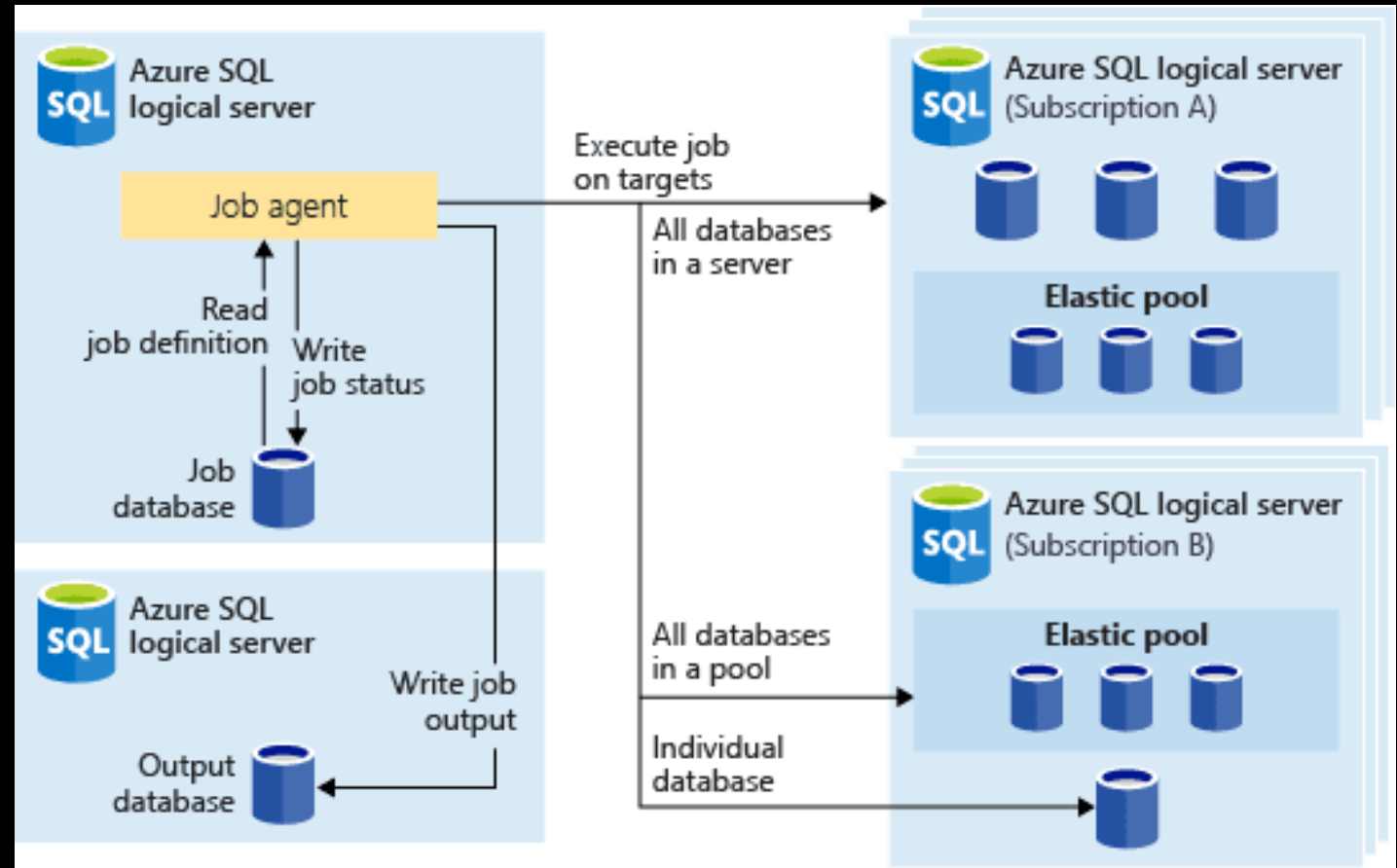
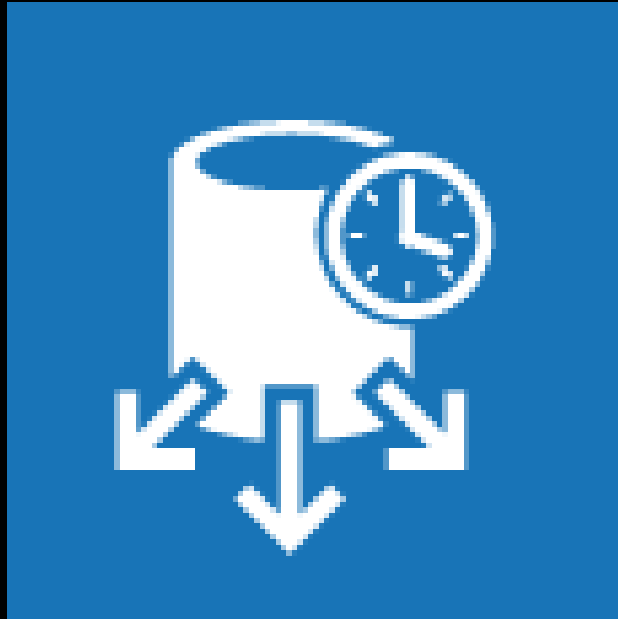
Development flexibility

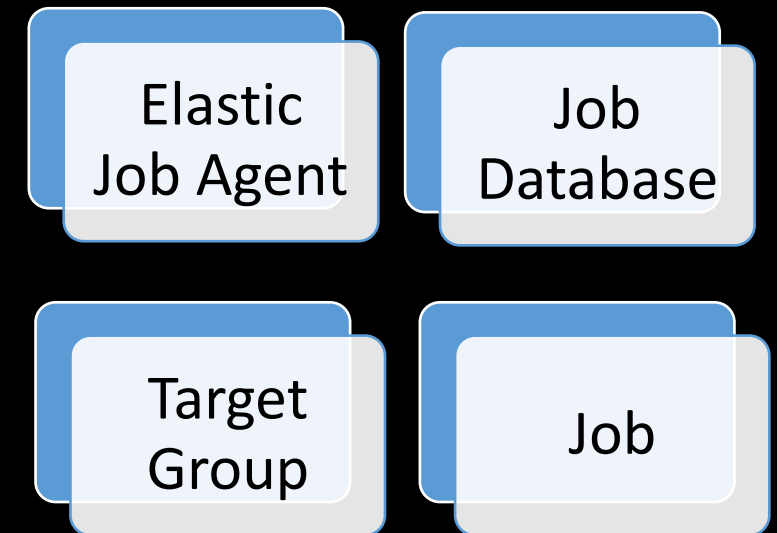
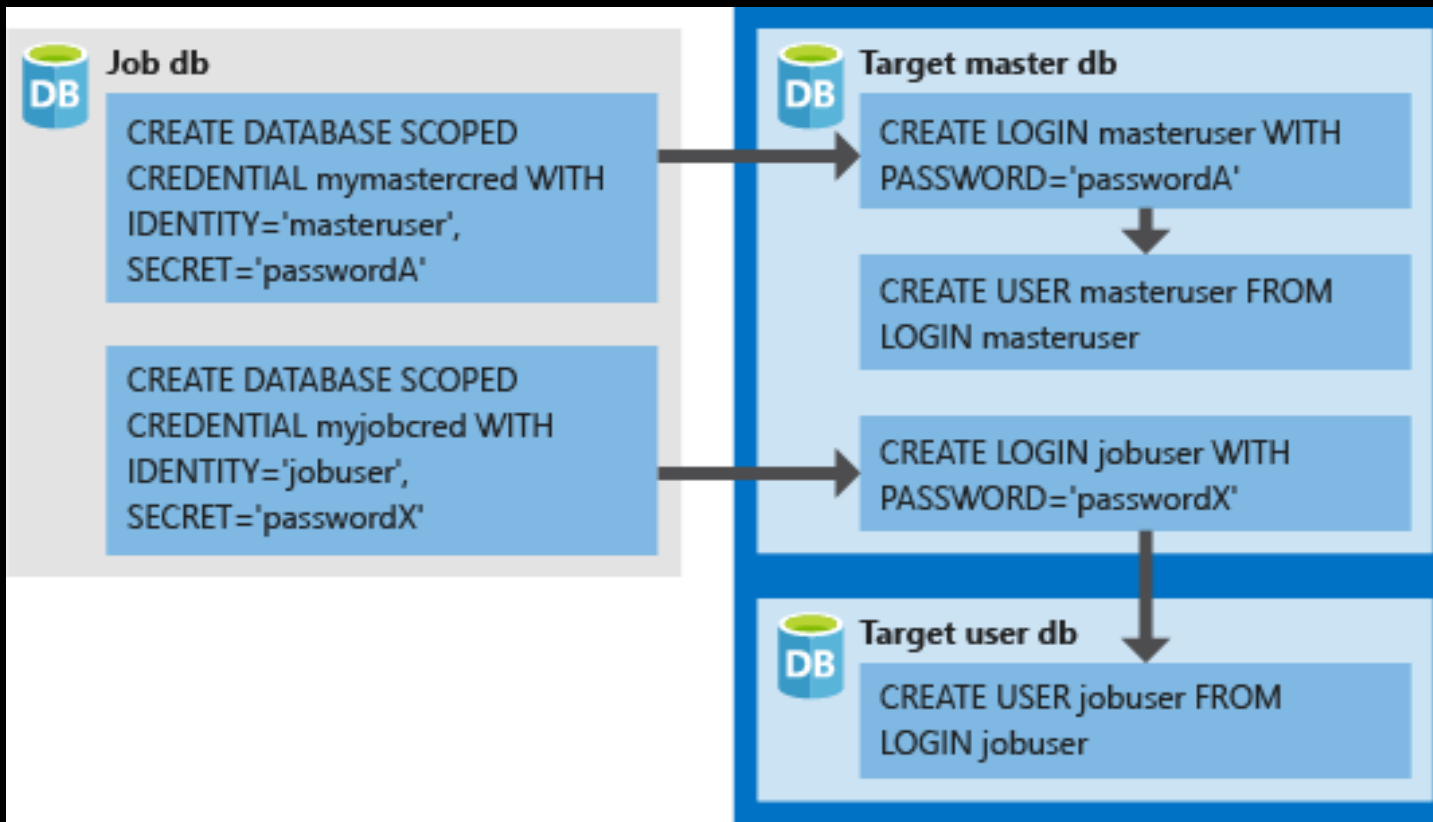
Open source

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 1.26.1
SQL2019 CU9
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](#)



@sqlworldwide



linkedin.com/in/sqlworldwide



sqlworldwide.com



taio@sqlworldwide

