

# Where is My SQL Agent?

Taiob Ali



### Data Solutions Manager, GMO LLC

- http://sqlworldwide.com/
- in /sqlworldwide
- @sqlworldwide
- Taiob@sqlwroldwide.com

#### **Data Professional**

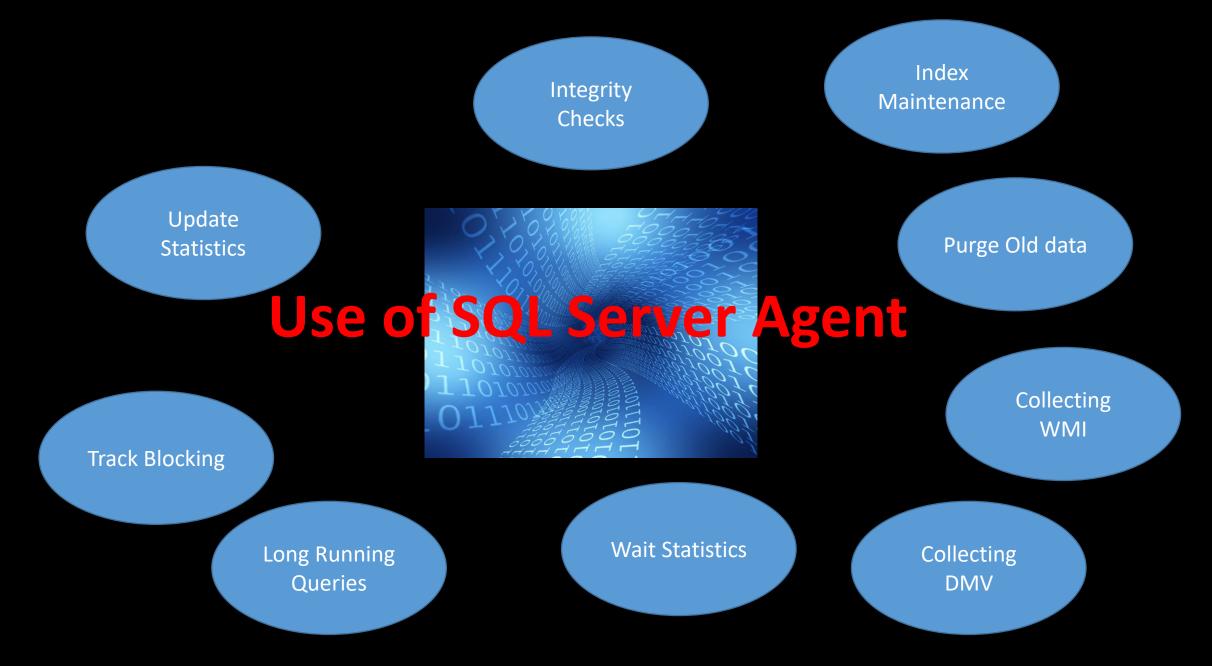
Microsoft Data Platform MVP. 14 Years working with Microsoft Data Platform. Microsoft and MongoDB certified. Worked in ecommerce, healthcare and finance industry.

#### **Giving Back**

Board member NESQL user group and PASS DBA virtual group. Organizer of Boston SQL Saturday. Frequent speaker at local and virtual user groups, SQL Saturdays, and azure events.

#### When Not Working

Running – One 26.2 and many 13.1 miles. Learning US history. Shuttling 3 kids.







#### On-Premise

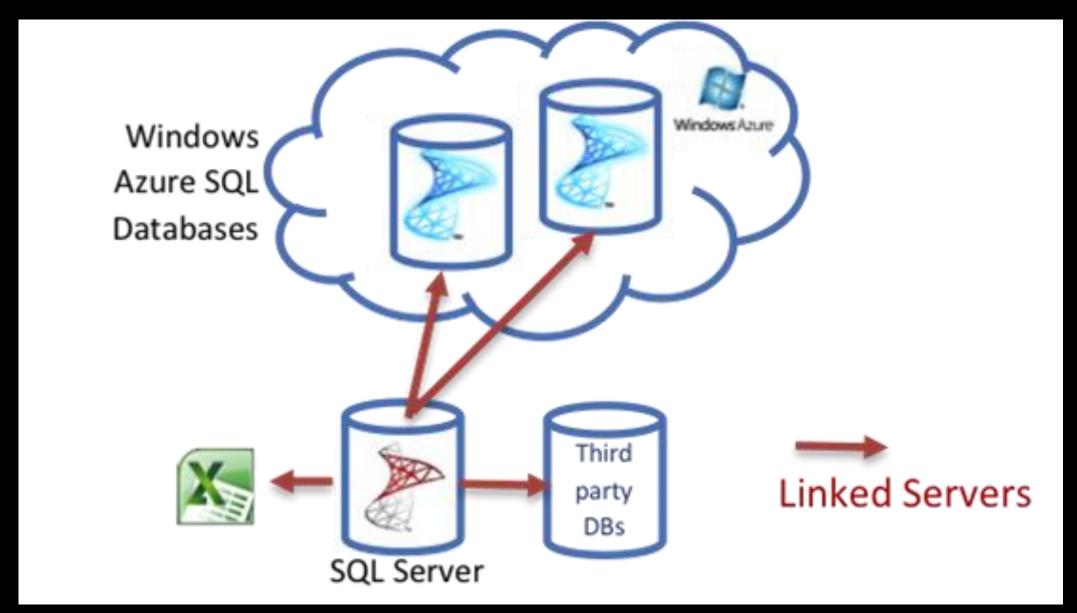
- Linked Server
- PowerShell/ WindowsScheduler
- 3<sup>rd</sup> Party
  Scheduler

#### Azure-laaS

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

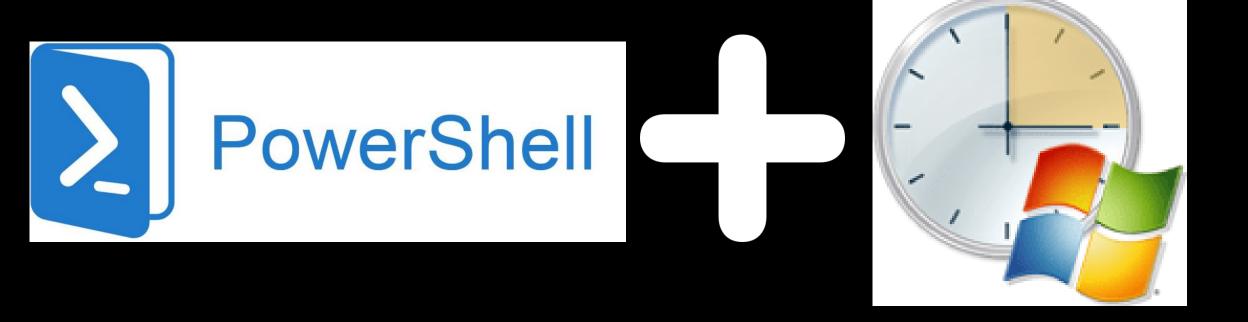
#### Azure-PaaS

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



https://azure.microsoft.com/zh-tw/blog/announcing-updates-to-windows-azure-sql-database/

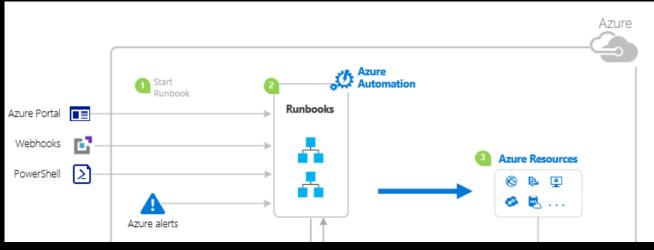
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https://www.fullstackpython.com/powershell.html https://www.adamtheautomator.com/create-jenkins-jnlp-scheduled-tasks-powershell-dsc/

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## Save time and lower overhead costs



**Update Windows and Linux systems** across hybrid environments

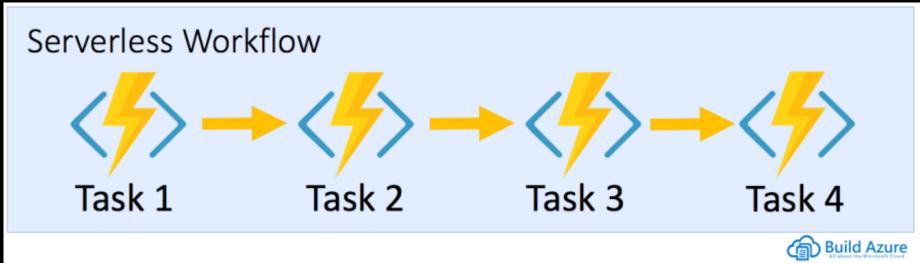


Simplify configuration management in the cloud

https://azure.microsoft.com/en-us/services/automation/#features

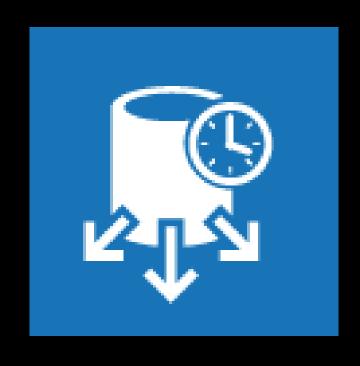


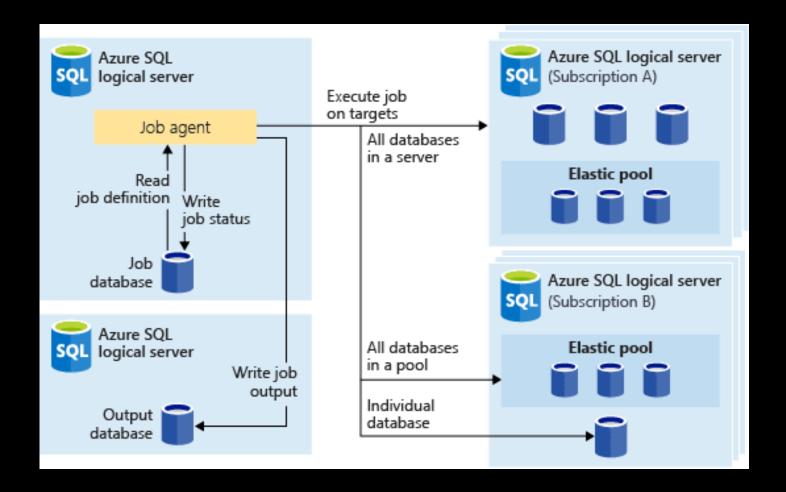
- Choice of language
- Pay per Use
- Max run time 10 minutes
- Bring your own dependencies
- Simplified integration
- Development flexibility
- Open source

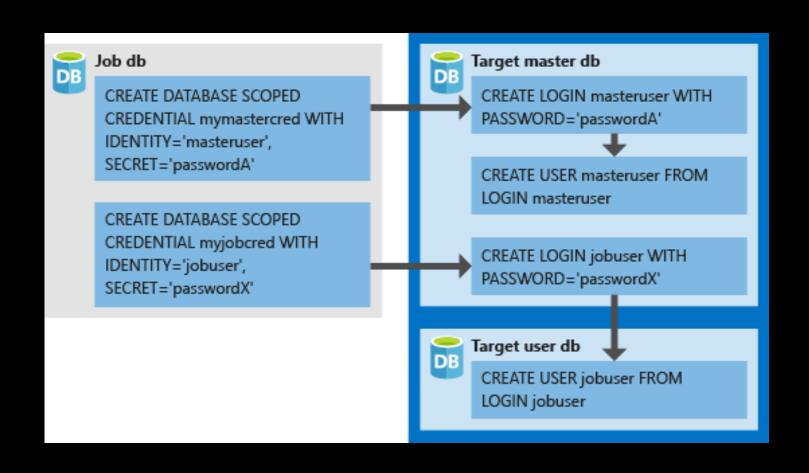


# New In Functions

- Business-critical apps with no cold start and network isolation
  - 60 minutes run time
  - No cold start
  - Up to 100 instances
- Serverless automation with PowerShell in GA
  - Automatic management of PS Module

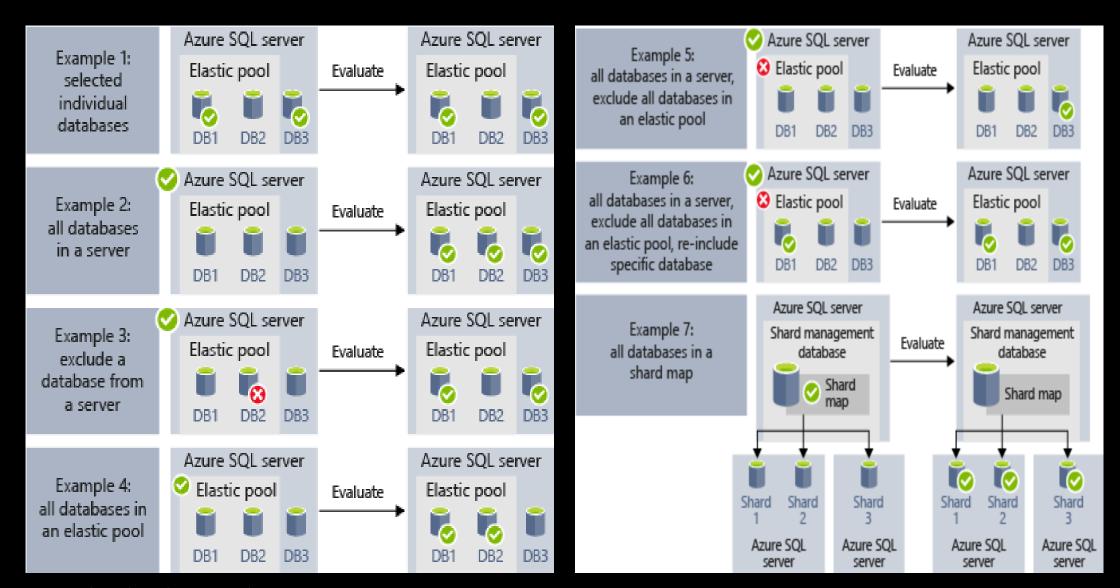








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https://docs.microsoft.com/en-us/azure/sql-database/sql-database-job-automation-overview

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- ■ Tables
  - ■ System 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.target\_group\_members
- jobs.target\_groups
- jobs\_internal.current\_job\_version\_number
- jobs\_internal.database\_credentials
- jobs\_internal.target\_group\_members\_jsor
- 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\_membe
  - jobs.sp\_delete\_job
  - jobs.sp\_delete\_jobstep
  - jobs.sp\_delete\_target\_group
  - jobs.sp\_delete\_target\_group\_mem
  - sp\_purge\_jobhistory
  - jobs.sp\_start\_job
  - jobs.sp\_stop\_job
  - jobs.sp\_update\_job
  - jobs.sp\_update\_jobstep
  - □ iche internal en add ich version



https://www.invotide.com/demo

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# Wrap UP

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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linkedin.com/in/taiobali



sqlworldwide.com



taiob@sqlworldwide.com

