

Where is My SQL Agent?

Taiob Ali



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Data Professional

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

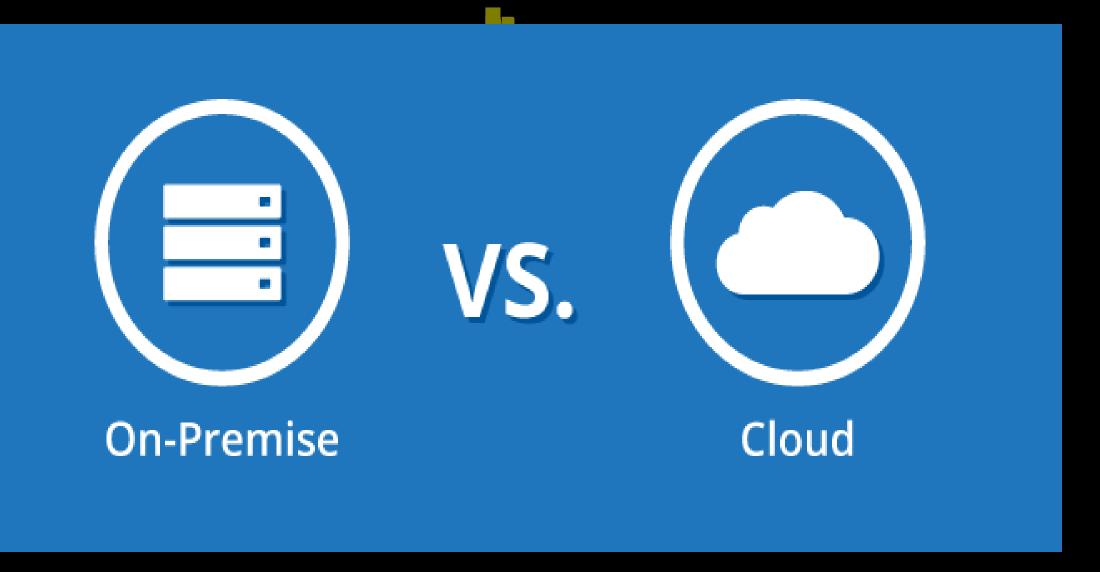
Giving Back

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

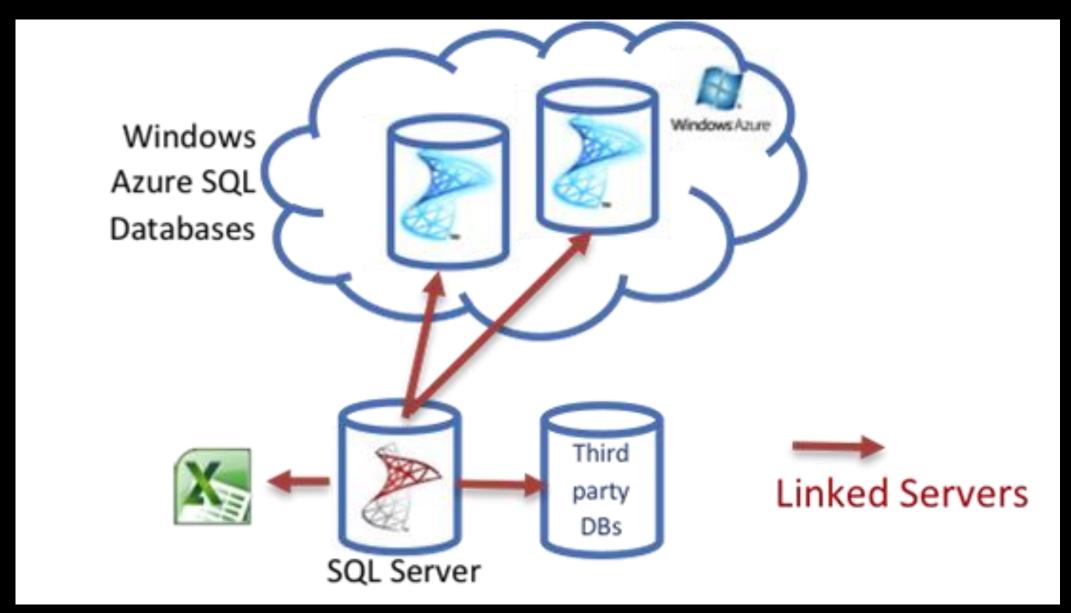
- Linked Server
- PowerShell/ WindowsScheduler
- 3rd Party
 Scheduler

Azure-laaS

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

Azure-PaaS

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



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

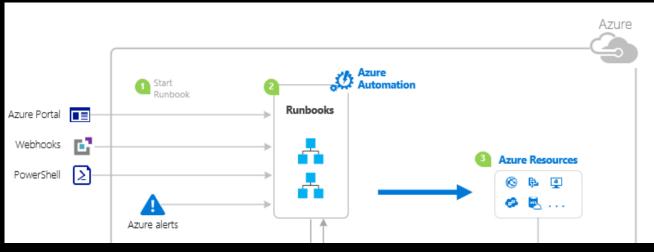
7/2/2020 @SQLWorldWide



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

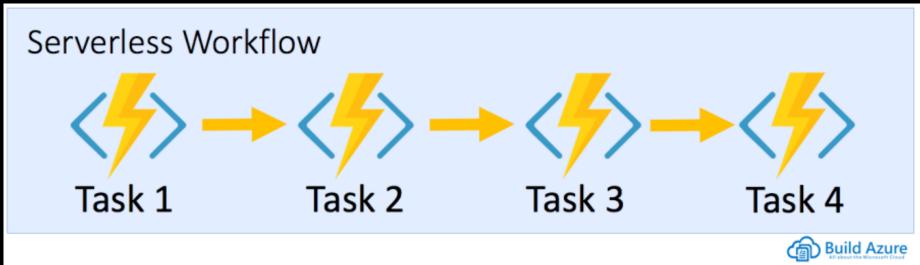
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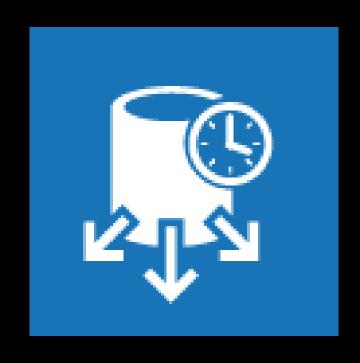


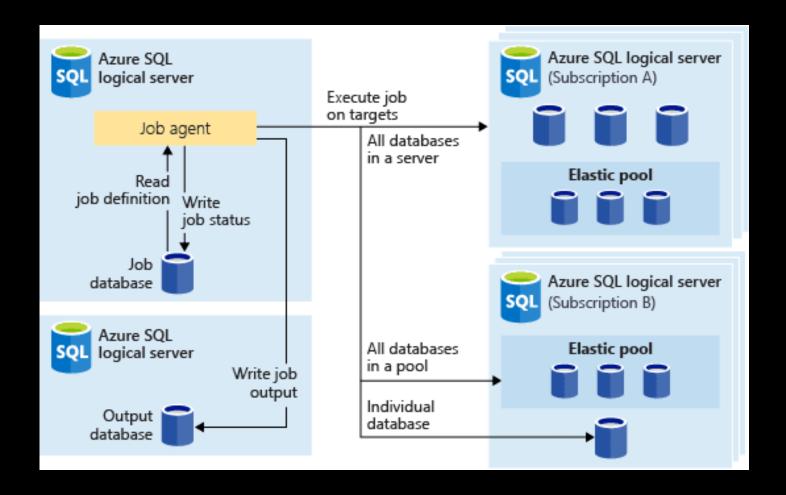
- Choice of language
- Pay per Use
- Max run time 10 minutes
- Bring your own dependencies
- Simplified integration
- Development flexibility
- Open source

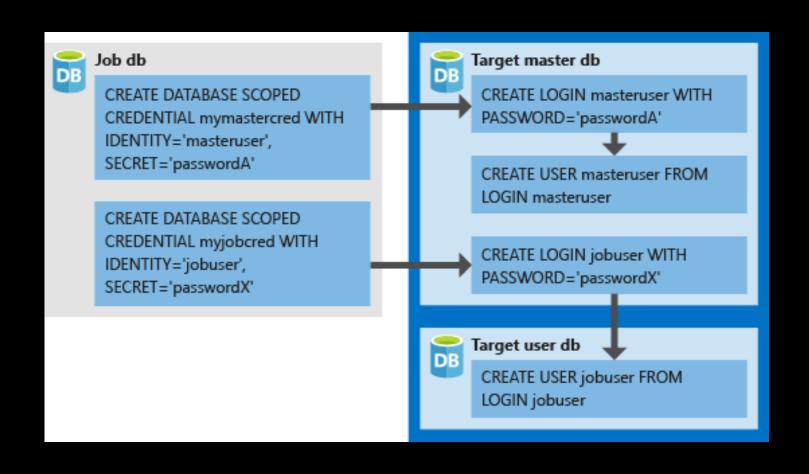


New In Functions

- 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

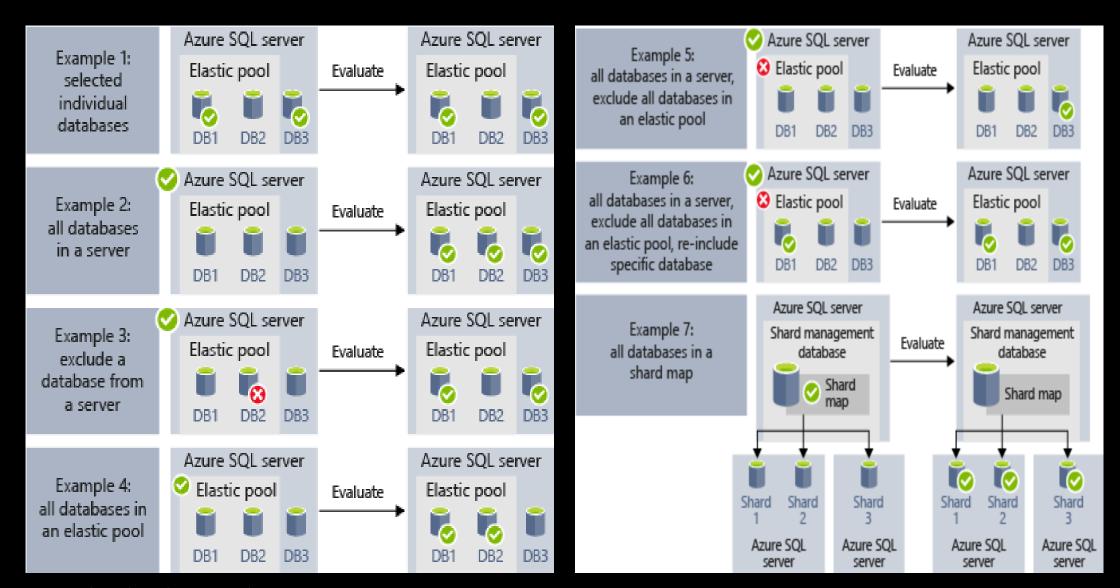








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https://docs.microsoft.com/en-us/azure/sql-database/sql-database-job-automation-overview

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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
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VS Code 1.46.1 SQL2019 CU5 SSMS 18.5.1 PS 7.*

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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