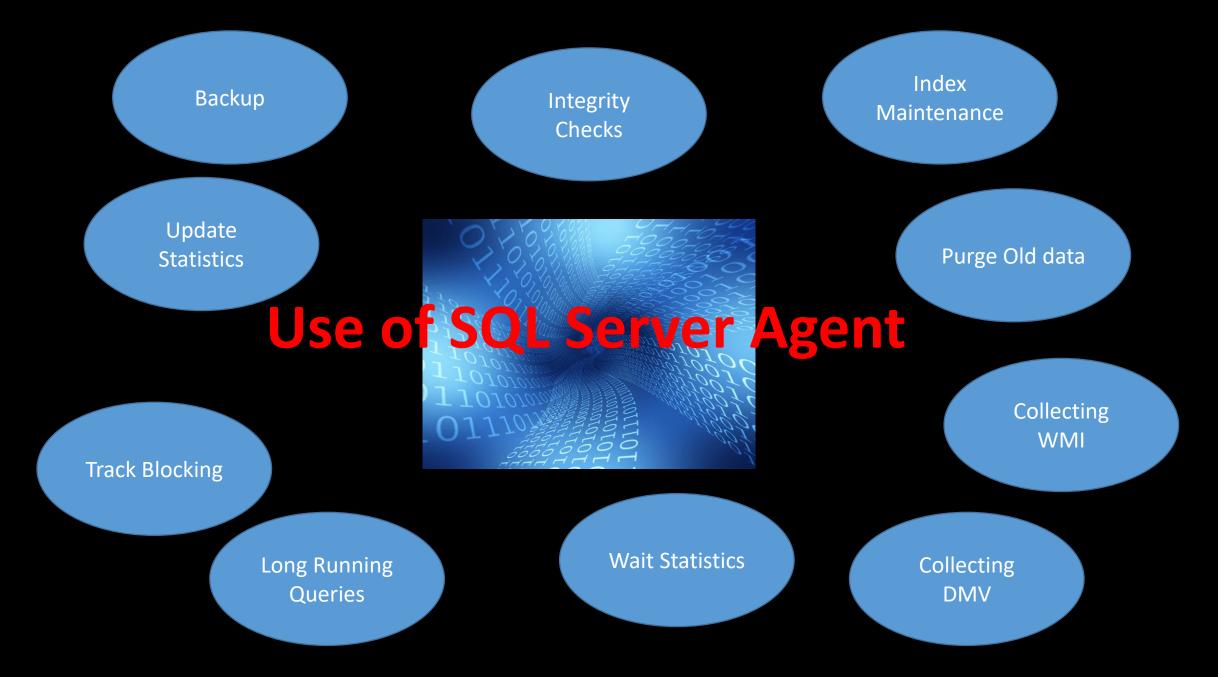
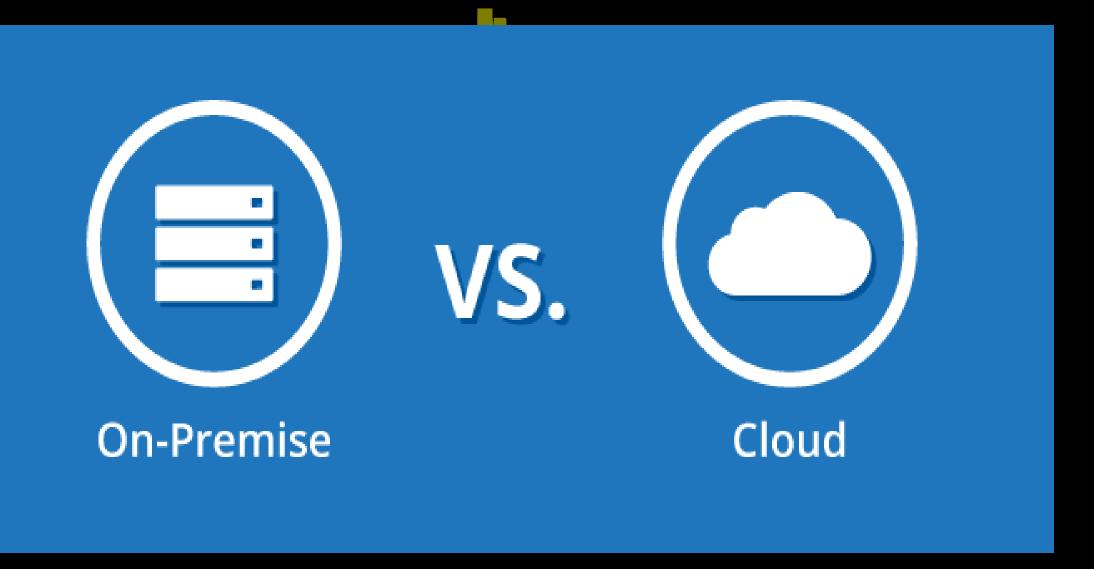


Where is My SQL Agent?

Taiob Ali





On-Premise

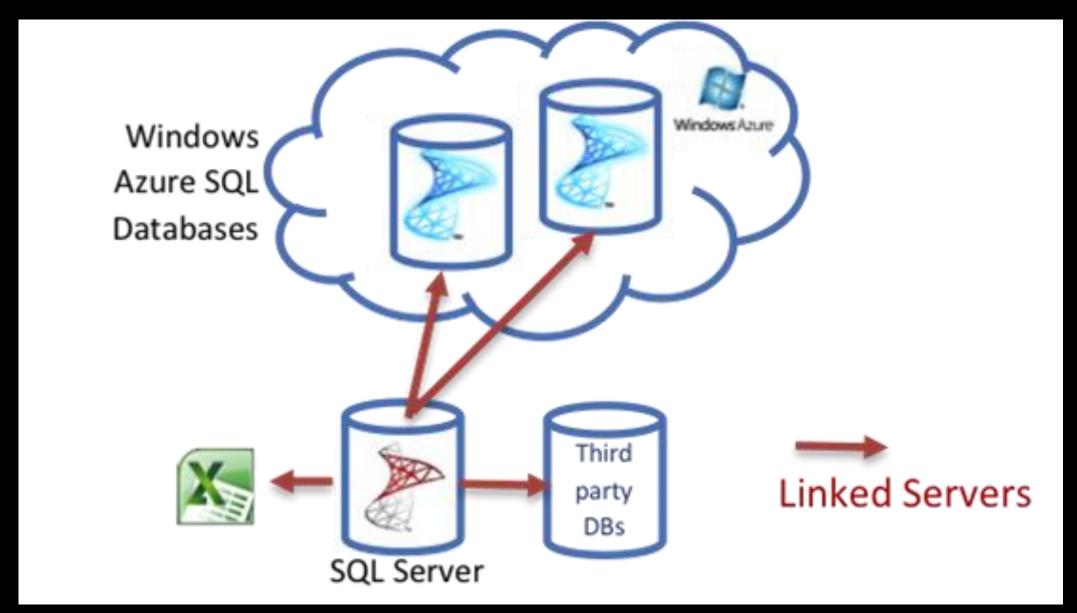
- Linked Server
- PowerShell/ WindowsScheduler
- 3rd Party
 Scheduler

Azure-laaS

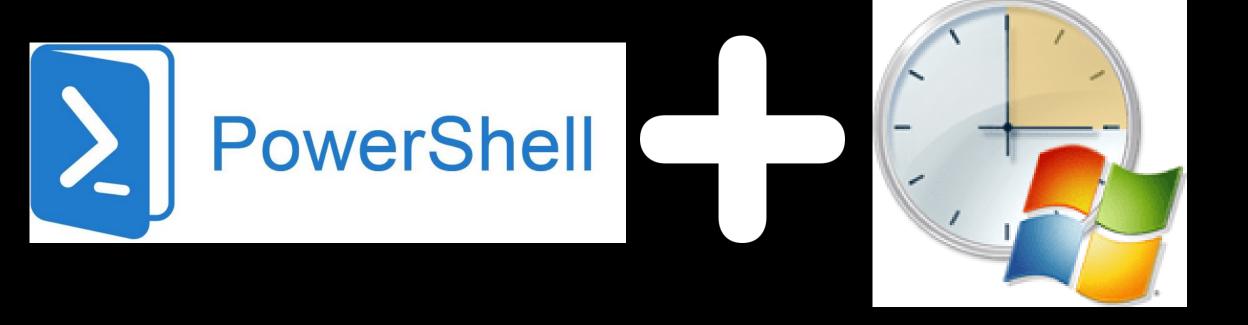
- SQL Server on Azure VM
- PowerShell/Azure
 VM Windows
 Scheduler

Azure-PaaS

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

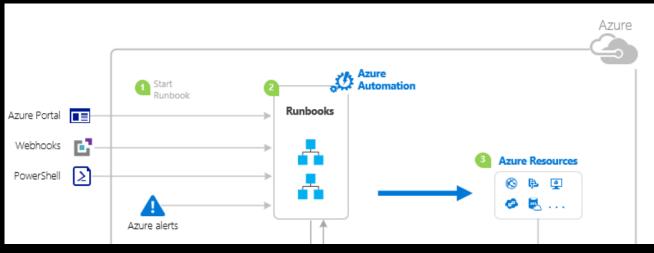


https://azure.microsoft.com/zh-tw/blog/announcing-updates-to-windows-azure-sql-database/



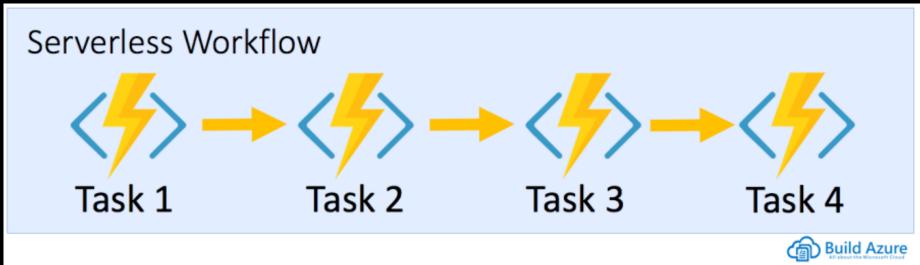
https://www.fullstackpython.com/powershell.html https://www.adamtheautomator.com/create-jenkins-jnlp-scheduled-tasks-powershell-dsc/







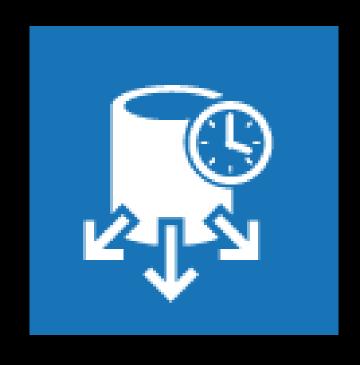
- Choice of language
- Pay per Use
- Max run time 10 minutes
- Bring your own dependencies
- Simplified integration
- Development flexibility
- Open source

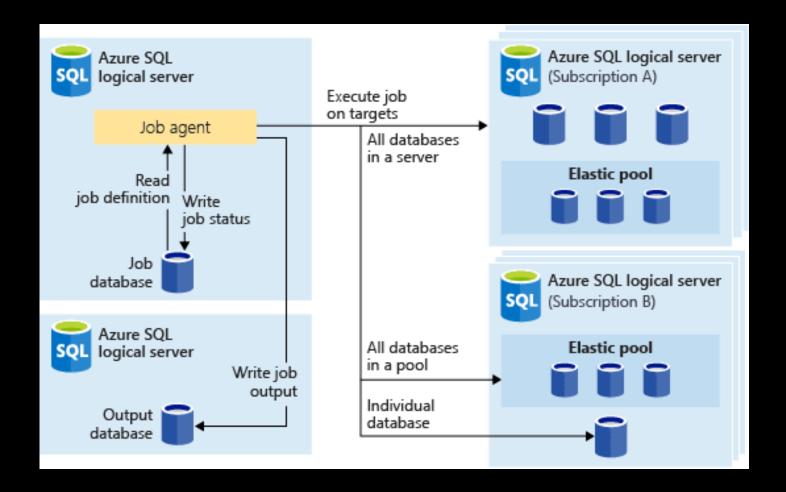


https://buildazure.com/2017/08/17/azure-functions-extend-execution-timeout-past-5-minutes/12/21/2019

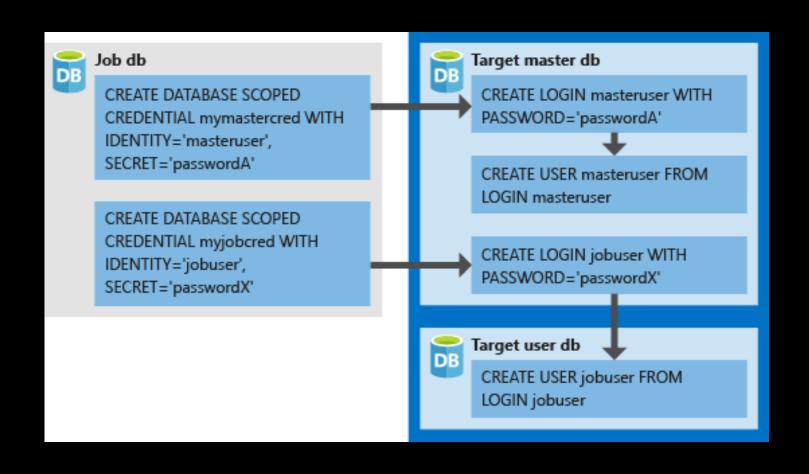
New In Functions

- 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



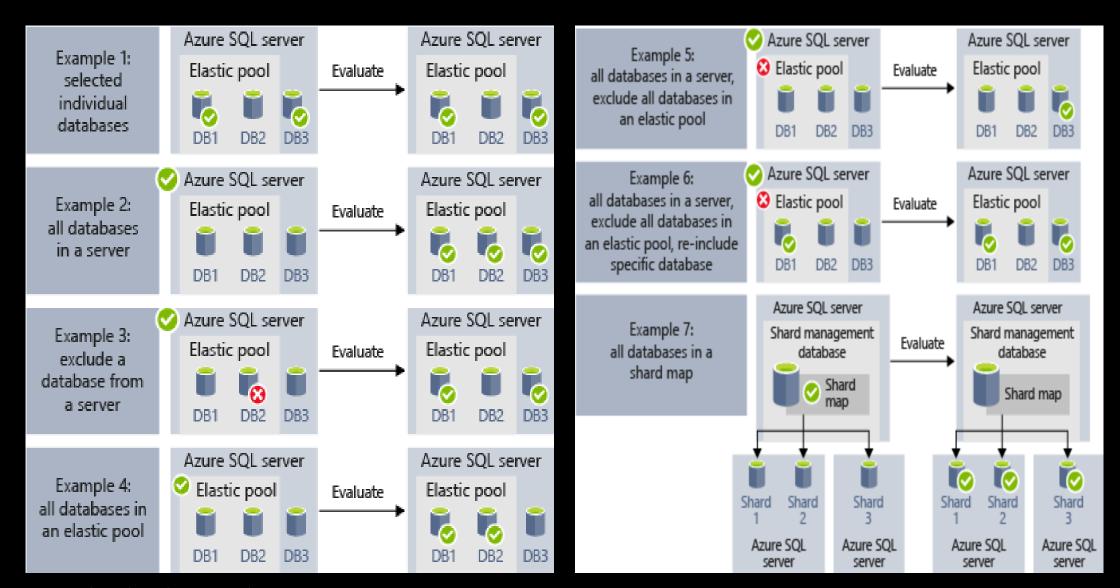


12/21/2019





12/21/2019



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

- ■ 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.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
 - 🖫 🗖 joho internel en edd joh versjon



https://www.invotide.com/demo

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 Functions Documentation
- An introduction to Azure Functions
- Use Transact-SQL (T-SQL) to create and manage Elastic Database Jobs

Work

- Microsoft MVP Data Platform
- 13 years as DBA
- MCSE Data Management and Analytics

Outside Work

- Running—One 26.2 and Many 13.1
- Shuttling 3 kids

Giving Back

- Organizer @SqlSaturdayBoston and Co-organizer NESQL UG
- Frequent speaker local user groups, SQL Saturdays & Virtual groups
- Answering questions at #sqlhelp & dba.stackexchange
- Blog at sqlworldwide.com





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