SQL KONFERENZ 2025





dbatools: Replication

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Jess Pomfret
(She/Her)





- Data Platform Engineer
- Open Source Contributor
  - dbatools, dbachecks, SqlServerDsc
- Passionate about SQL Server, PowerShell & Proper Football

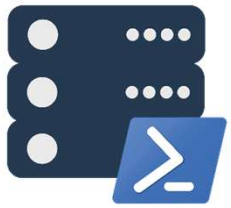


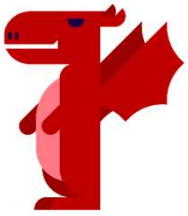
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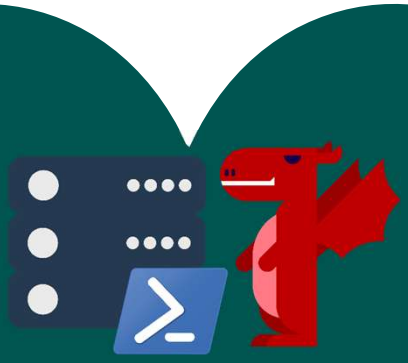
Agenda

What is dbatools?

What is replication?



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dbatools and replication!



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Warnings

Preview Feature

I'm definitely not a replication expert!

This is not a Replication best practice session

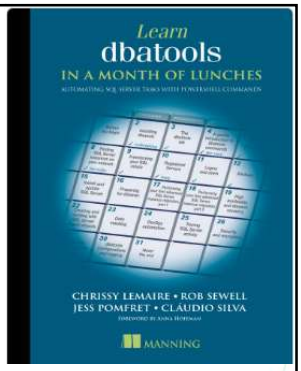


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dbatools

- Open-source PowerShell Module
- Written by the community
- 650+ commands

- https://dbatools.io/
- https://github.com/dataplat/dbatools





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Replication

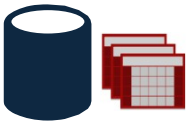
- Replication copies and synchronises database objects and data from one database to another.
  - http://msdn.microsoft.com/en-us/library/ms151198.aspx
- Around since SQL Server 6.0
- Three flavours
  - Snapshot
  - Transactional
  - Merge



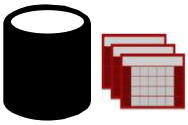
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How does replication work?

Publisher
Publication
Articles



Subscribers
Subscription
Articles



Distributor

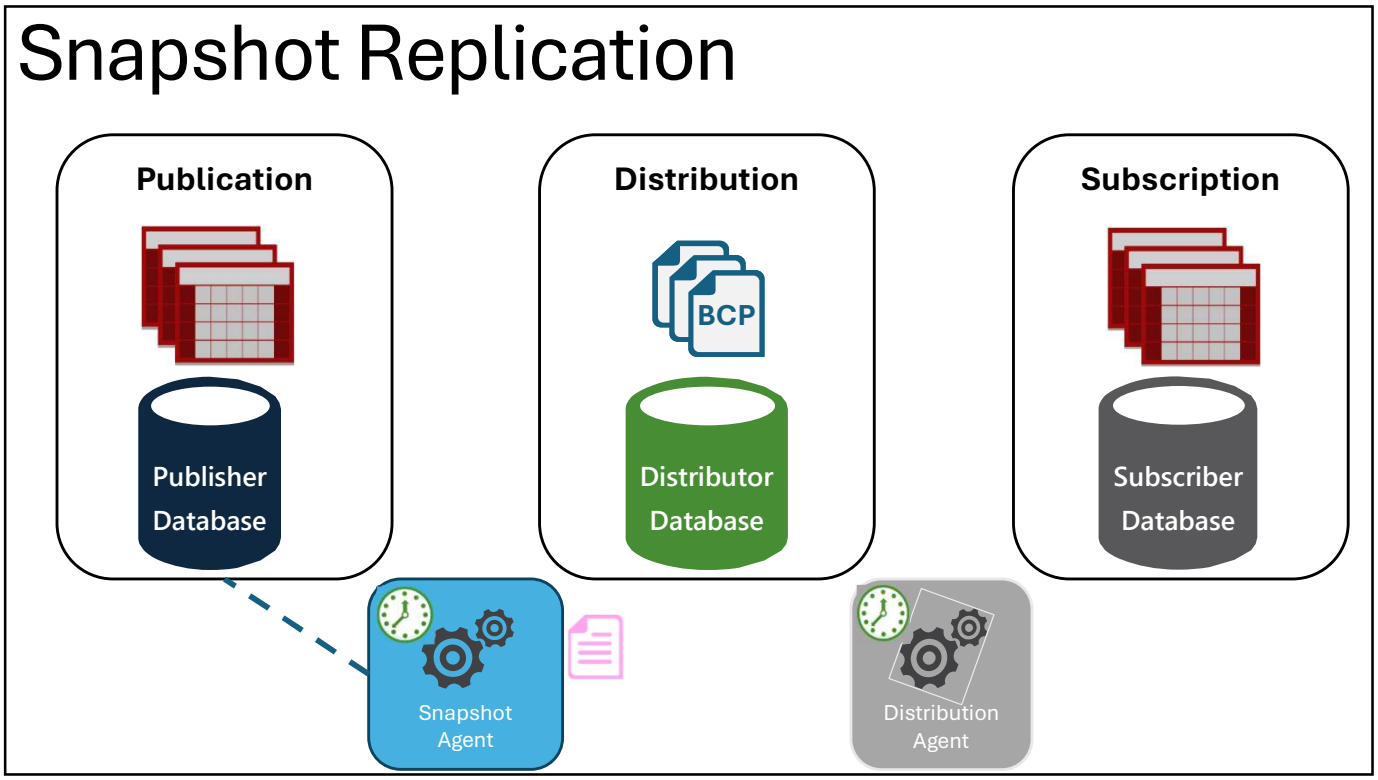


Log Reader Agent
Snapshot Agent
Distribution Agent



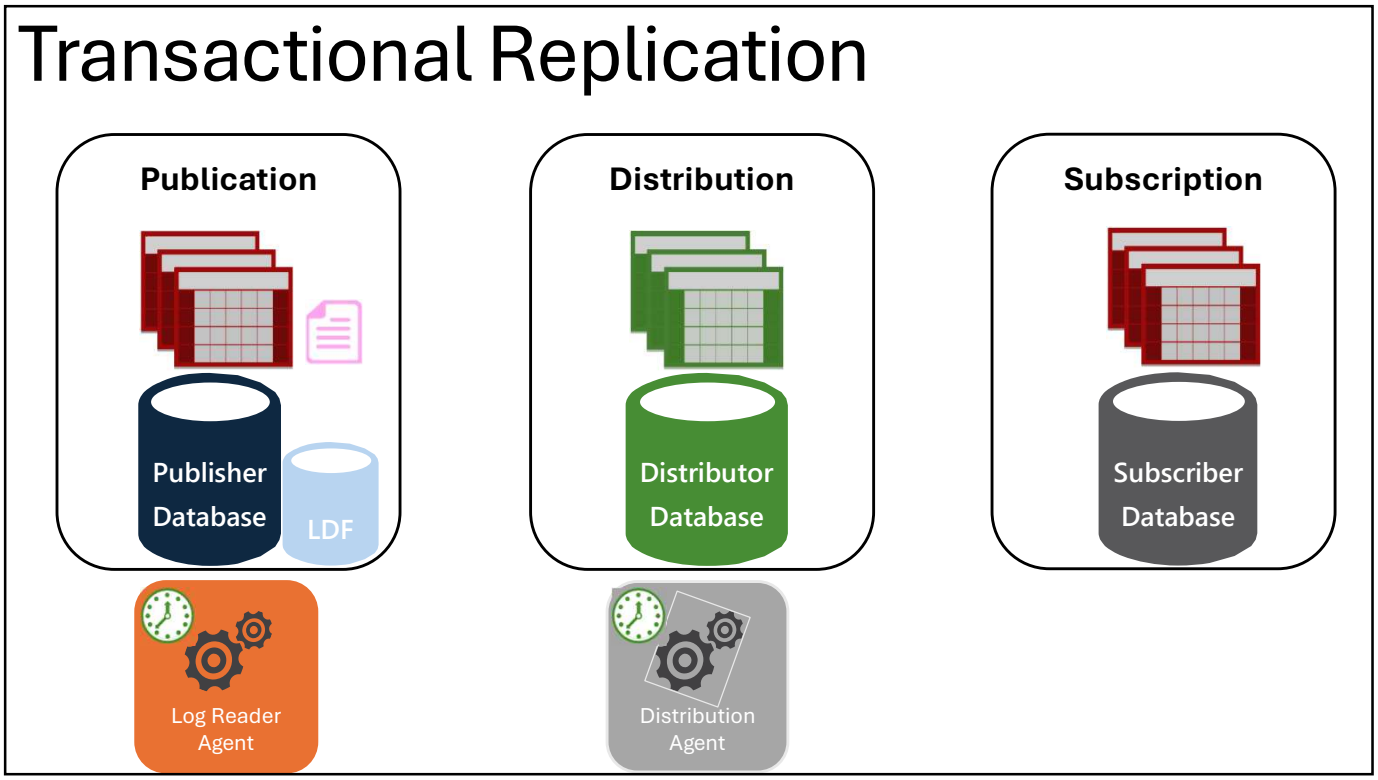
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Snapshot Replication



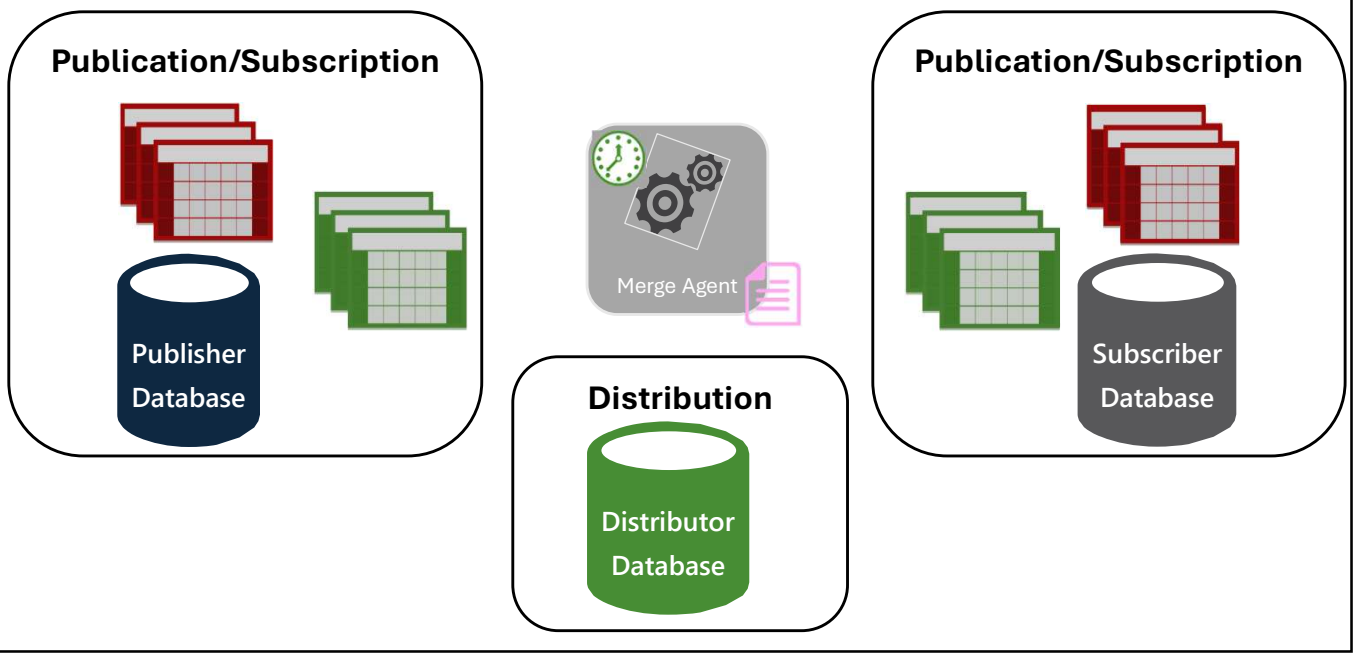
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Transactional Replication



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Merge Replication



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dbatools commands for replication

Distribution	• Enable-DbaReplDistributor • Disable-DbaReplDistributor
Publishing	• Enable-DbaReplPublishing • Disable-DbaReplPublishing
Publications	• New-DbaReplPublication • Remove-DbaReplPublication
Articles	• Get-DbaReplArticle • Get-DbaReplArticleColumn • Add-DbaReplArticle • Remove-DbaReplArticle • New-DbaReplCreationScriptOptions
Subscriptions	• New-DbaReplSubscription • Remove-DbaReplSubscription • Get-DbaReplSubscription
Misc	• Get-DbaReplServer • Get-DbaReplDistributor • Get-DbaReplPublication

Find-DbaCommand –Tag Replication



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Demo Time

Demo Files available here:

https://github.com/jpomfret/dbatools-replication



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Questions & Feedback

https://github.com/jpomfret/dbatools-replication



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