Microsoft SQL Server and Veeam Backup & Replication

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Agenda

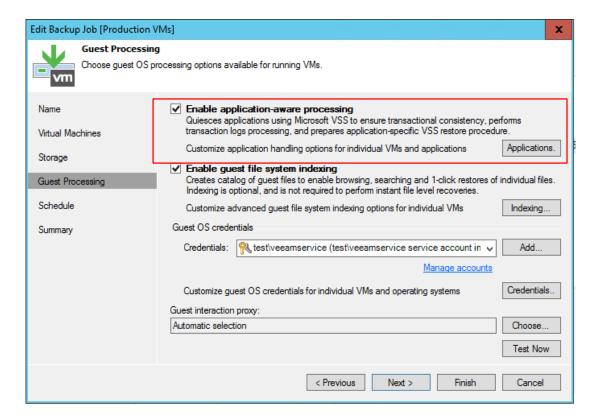
- Backup Job Options
- Under The Hood
- Veeam Backup & Replication v9
- Veeam Explorer for Microsoft SQL
- Microsoft SQL Always-On
- Veeam Virtual Labs and SQL
- Free SQL stuff

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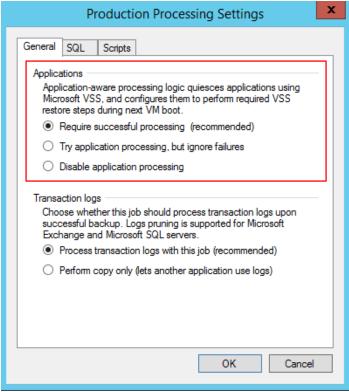
Backup Job Options

I am new to SQL server. What do I need to know?

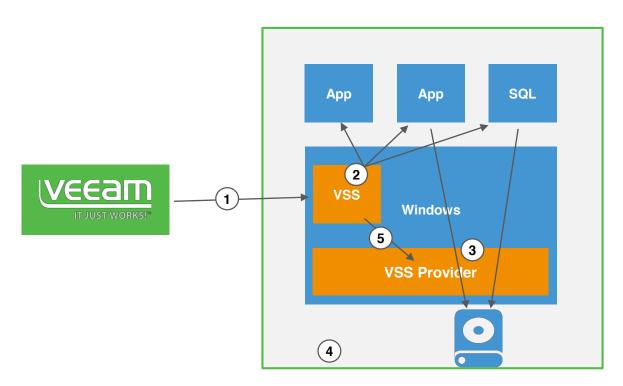
One click



VSS options

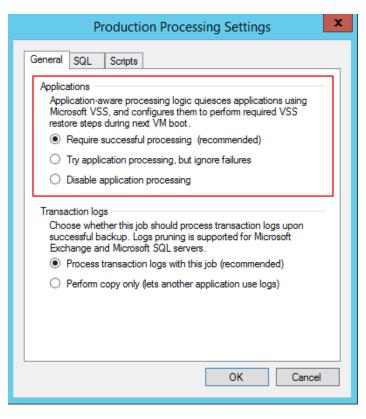


VSS inside Guest VM

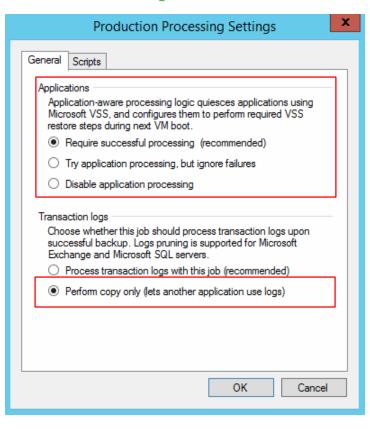




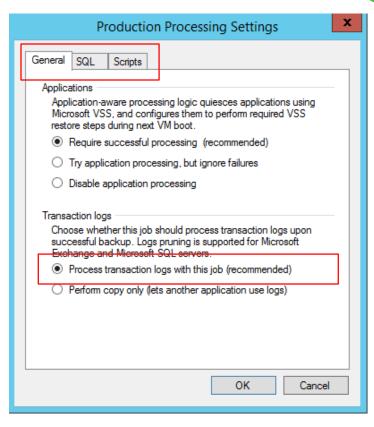
VSS options



COPY_ONLY option



Process transactions logs





Data and log files

Every database always has at least one data file (.MDF) and one log file (.LDF)





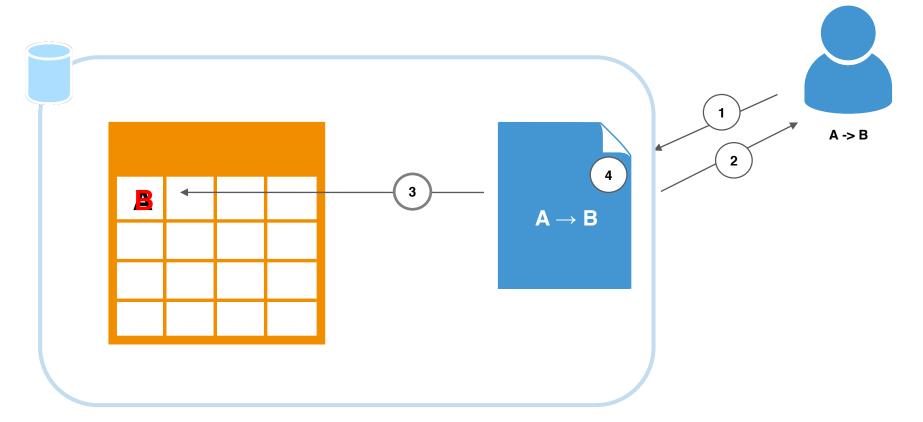
Database recovery models

Simple

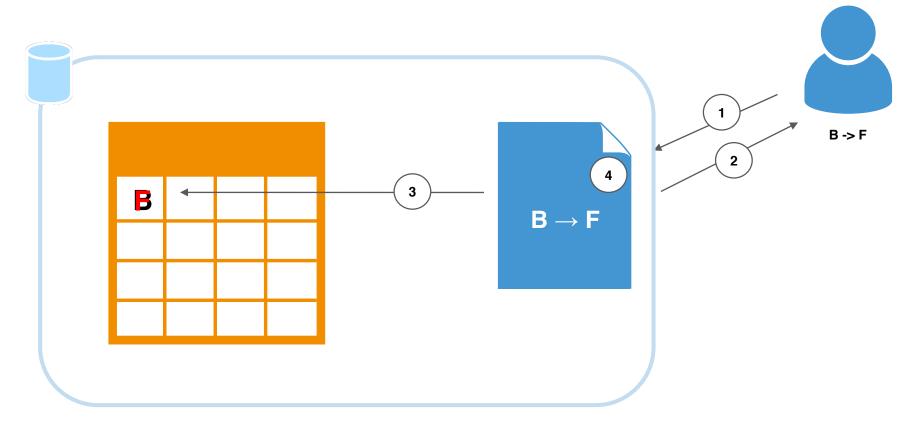
Full



Database recovery models: Simple



Database recovery models: Simple



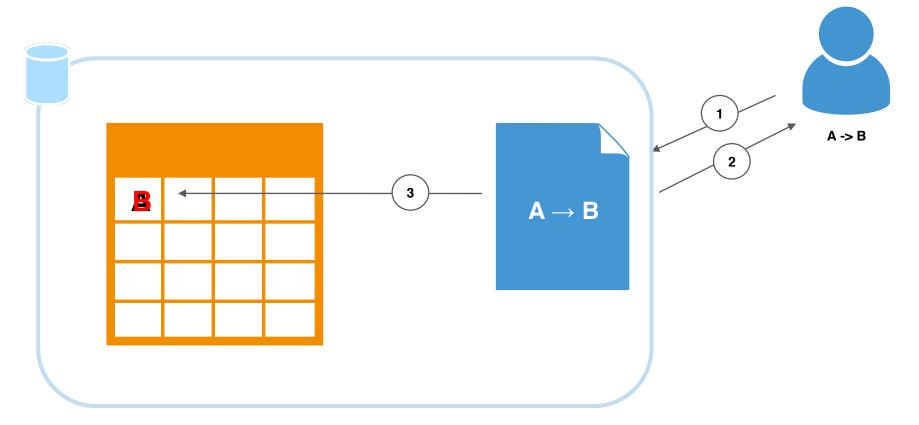
Database recovery models

Simple

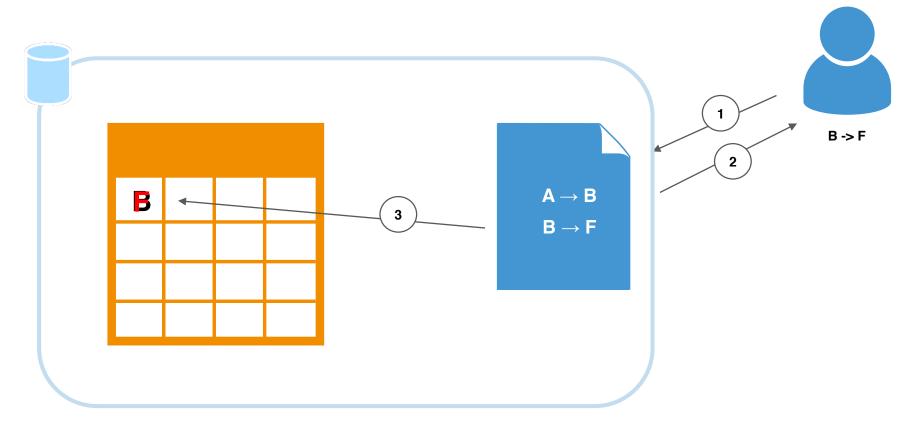
Full



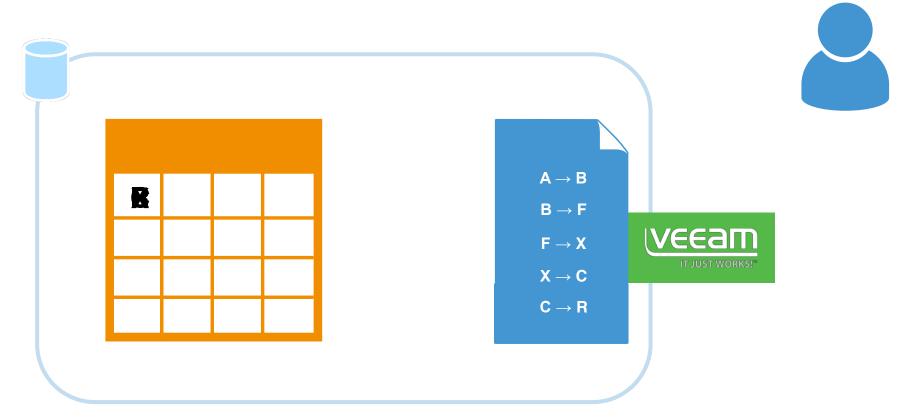
Database recovery models: Full



Database recovery models: Full



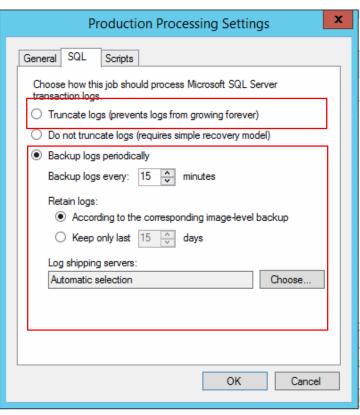
Database recovery models: Full



Database recovery models

- Use simple if you don't plan to perform transaction log backups and don't use point in time restore
- With full, you'll need to plan for transaction log backups and you can do point in time restores

SQL log options (SQL tab)



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Under the Hood

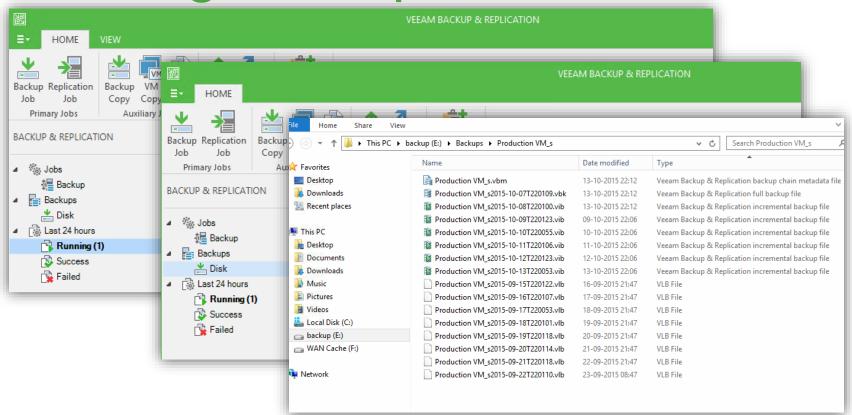
Yes, Veeam Does File Backup ... LOG Files Backup

SQL transaction log backup

- Additional job that runs continuously in the background
- Very granular intervals for better RPO up to 5 minutes
- Requires Full Recovery Model
- Allows Point In Time restore and restore to a specific transaction



SQL log backup: What it looks like



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NEW Veeam Backup & Replication v9

What's new in *v9*?

- Object level restore: Tables, stored procedures, views
- Remote staging server
- Veeam Explorer for Oracle if you're here by mistake ©





Veeam Explorer for Microsoft SQL

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SQL Always-On

Microsoft SQL Always-On Availability Groups Support

SQL Always-On Availability groups

- Main thing: Do not use copy only for SQL Always-On
- Automatic detection of secondary replicas
- You can back up logs from your secondary replicas

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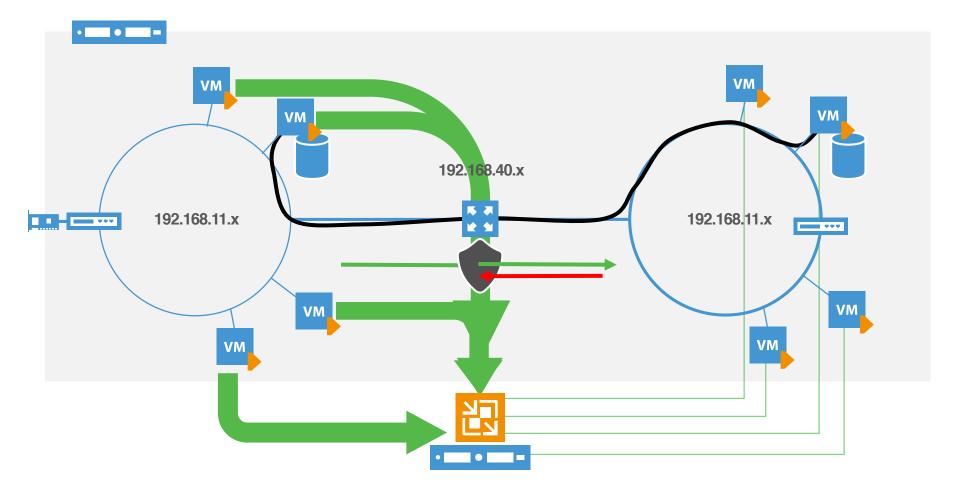
Virtual Labs and SQL

The Power of Sandbox, Time Travel and Backups Validation

Veeam Virtual Lab

- Part of SureBackup verification environment
- Allows to start VMs in an isolated network
- Access to Virtual Lab VMs from production network







Why use Virtual Lab with SQL?

- Automatic recovery verification
- Patch/Service pack update testing Including Always-On Availability groups setup
- Access to point in time SQL data from your backup files



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The SQL Free Stuff

More Online

3 hours of Veeam and SQL videos:

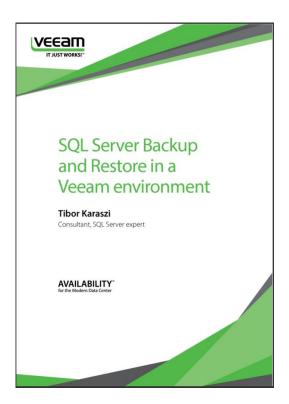
http://go.veeam.com/learn-microsoft-sql-server-free-video-tutorial-course.html





Tibor Karaszi, Microsoft SQL MVP DBA's view on Veeam Backup & Replication™

http://www.veeam.com/wp-sql-server-backup-with-veeam.html





Veeam Endpoint Backup

Veeam Endpoint Backup™ for physical SQL servers

- VSS enable
- ALL databases will default be truncated
- Not cluster support

veeam.com/endpoint



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Thank you!