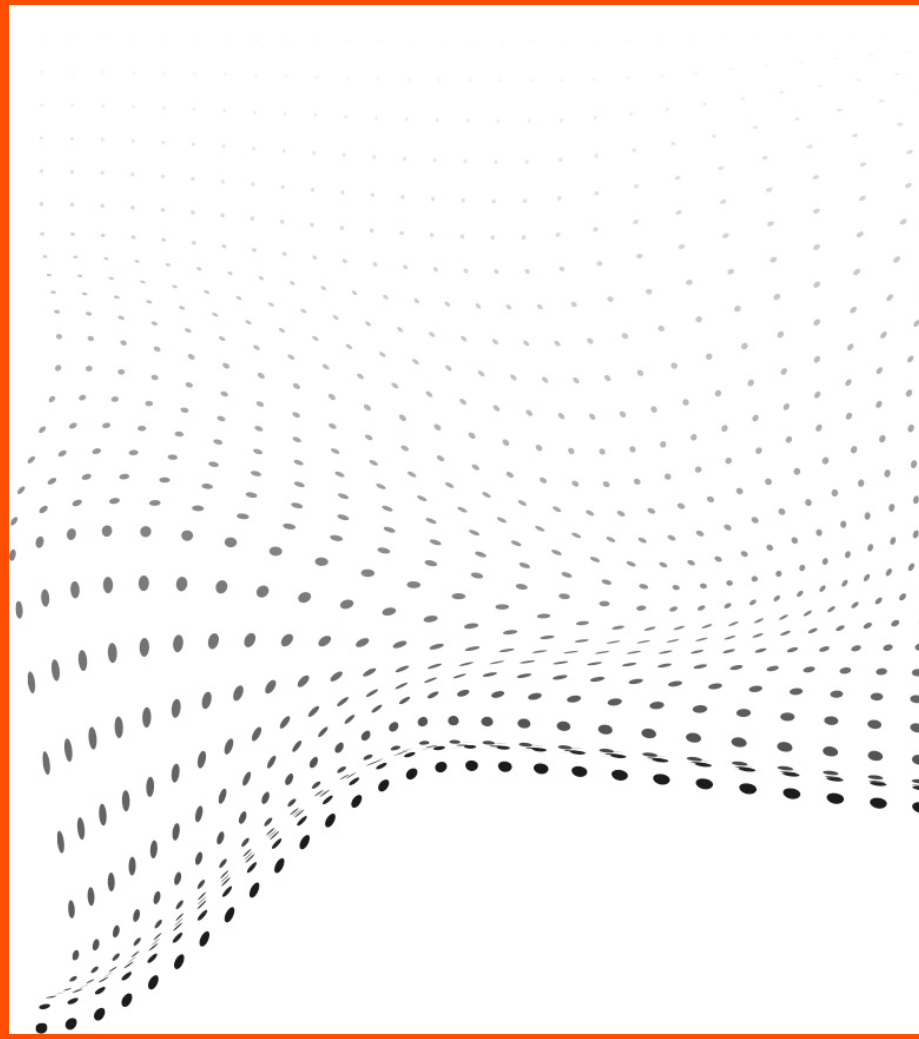
DB BITS

SOLUÇÕES
EM GERÊN
DE DADOS

Zero to Hero in 16 Hours: HADR on SQL Server

Module 3: Log Shipping

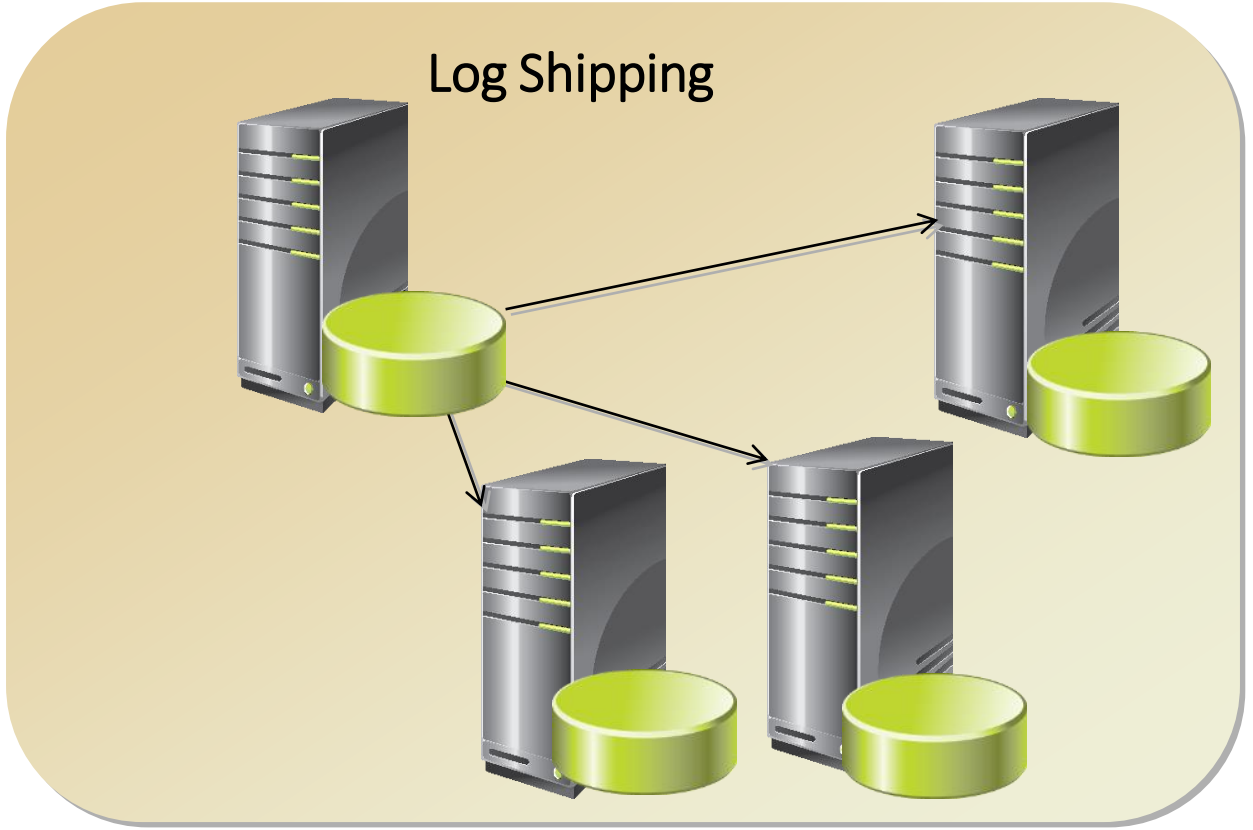
Automating Backup and Restore



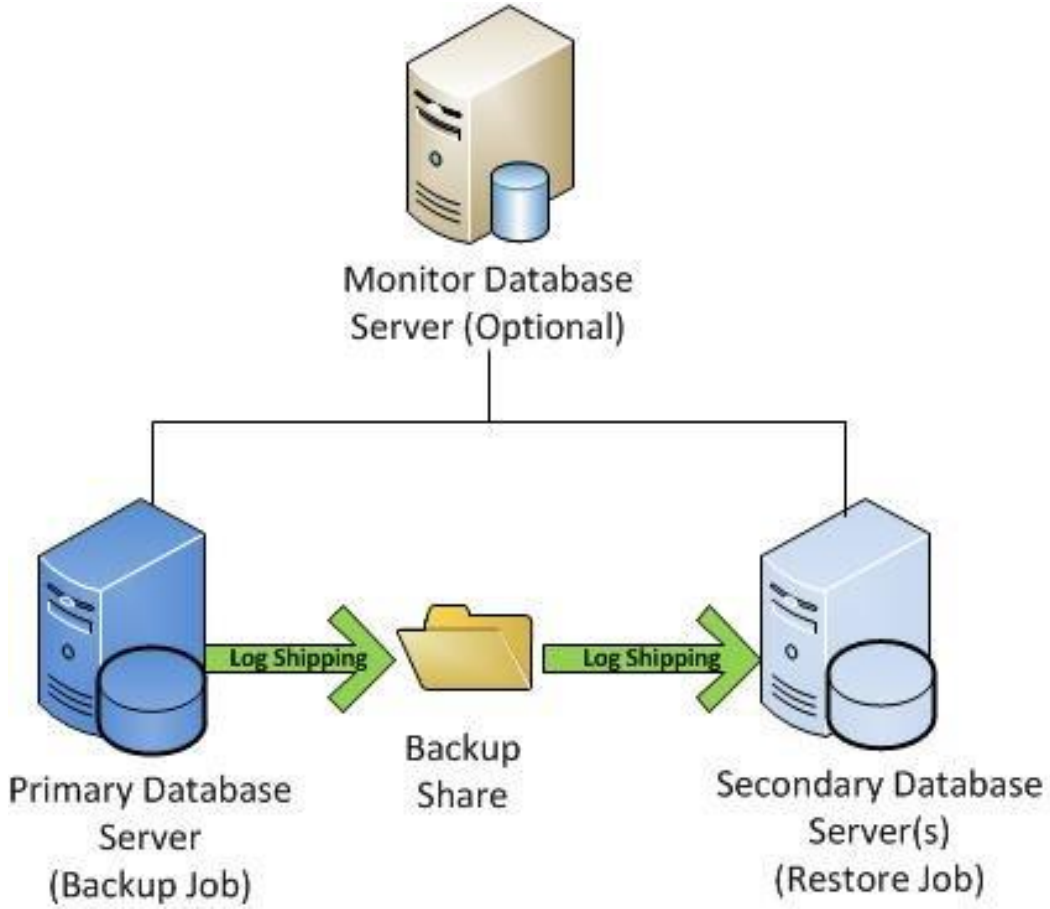
Goals

- Understand Log Shipping
- Maintain L. S.

Log Shipping



Log Shipping



Log Shipping

Benefits:

- Provides a disaster-recovery solution for a single primary database and one or more secondary databases, each on a separate instance of SQL Server.
- Supports limited read-only access to secondary databases (during the interval between restore jobs).
- Allows a user-specified delay between when the primary server backs up the log of the primary database and when the secondary servers must restore (apply) the log backup. A longer delay can be useful, for example, if data is accidentally changed on the primary database. If the accidental change is noticed quickly, a delay can let you retrieve still unchanged data from a secondary database before the change is reflected there.

Log Shipping

Disadvantages:

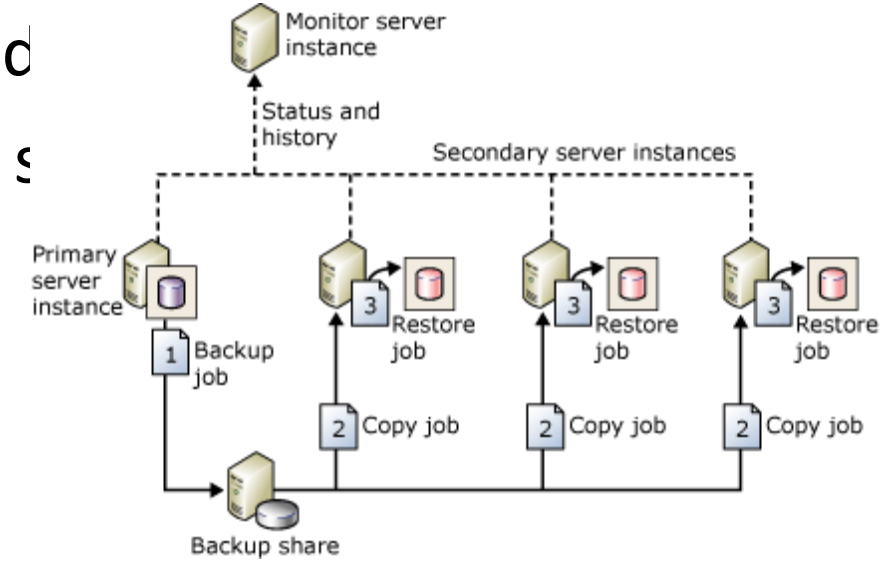
- Administrative overhead
- Easy to get lost due to human error
- Lack of control
- Many external factors can affect its functionality

Log Shipping – resourcing

- Primary Server
- Primary database
- Secondary Server
- Secondary database
- Monitor Server
- Backup job
- Copy job
- Restore job
- Alert job

Log Shipping at its prime!

1. Backup the transaction log – Primary Instance
2. Copy the transaction log file to the second
3. Restore the log backup on the secondary s



Log Shipping prerequisites

- Recovery model: FULL or Bulk-logged
- File share accessible by all Instances

Maintaining Log Shipping

Failing over

- Planned failover
- Unplanned ☹
- Backup the tail of the log on the Primary… WITH NORECOVERY

(as seen in https://blogdojamal.wordpress.com/2019/08/22/failover-com-log-shipping/)

Upgrade scenario

- We can stablish a Log Shipping between an older version and a newer one.

To know more…

https://docs.microsoft.com/en-us/sql/database-engine/log-shipping/log-shipping-tables-and-stored-procedures

Fim do módulo