SQL 2014 Admin, Part 5 of 5: Disaster Recovery and Backups

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Meet the expert: Chris Bell, MCITP, is an 18-year SQL Server veteran for both business intelligence and application development providing solutions for businesses, organizations, and individuals. He is the founder and CEO of WaterOx Consulting, Inc., a provider of remote SQL Server consulting and services. Chris is also the founder and current President of the Washington DC chapter of PASS and a member of the Board of Directors for CPCUG. Chris also frequently attends and presents at PASS events around the country, sharing his passion for all things SQL Server. In 2012, Chris was one of 5 finalists in the world for Red Gate's Exceptional DBA Award.

Prerequisites: This course assumes that students have working experience with SQL Server; basic relational database concepts (e.g., tables, queries, and indexing); general knowledge of XML, Transact-SQL, and a fundamental understanding of networking and security concepts.

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Course description: SQL Server offers a variety of High Availability and Disaster recovery options. The biggest change from previous versions before SQL Server 2012 is the introduction of AlwaysOn. In this course you will look at how AlwaysOn integrates high-availability and disaster recovery into a total solution. You will see how AlwaysOn is based on Windows Failover Clusters to protect the entire Instance, while Availability groups provide options to improve database availability and resource use. Then you'll see the cover log shipping as well as mirroring and replication, which are still useful in some scenarios for disaster recovery. You will see each of these, and even configure separate log shipping, mirroring and transactional replication.Next you will see the various recovery models SQL supports and you will see the various backup scopes and types available. You will look into how these all work together to allow you to create a complete disaster recovery strategy. You will also see how having proper backups allow us to perform actions such as restoring a database to a point in time. You will even see a corrupted page fixed by referencing a proper backup all while keeping the database online to users.

Course outline:

Mirroring

- Introduction
- Mirroring
- Demo: Mirroring
- Demo: Mirroring Prep
- Summary

Log Shipping

- Introduction
- Log Shipping
- Log Shipping
 Demon Log Chipp
- Demo: Log ShippingDemo: Restore Transaction Log
- Demo: Update Transaction Log
- Summary

Failover Clustering

- Introduction
- Failover Clustering
- Demo: Failover Clustering
- AlwaysOn Failover Cluster
- AlwaysOn Availability Groups
- Demo: AlwaysOn Availability
- Demo: Creating Availability Groups
- Demo: Using Availability
- Groups
- Demo: Starting Failover
 Summary
- Summary

Replication

Introduction

- Replication Overview
- Replication Types
- Replication Snapshot
- Replication Transactional
- Replication Peer-to-Peer
- Replication Merge
- Demo: Replication
- Demo: Replicated Database
- Demo: Add a Subscriber
- Demo: Replication and
- Transactions
- Demo: Replication Monitor
- Summary

Recovery Models

- Introduction
- Recovery Models Simple
- Recovery Models Full
- · Recovery Models Bulk Logged
- Demo: Recovery Models
- Demo: Bulk Logged
- Summary

Backups

- Introduction
- · Backup Scopes Database
- · Backup Scopes Partial
- Backup Scopes File

- Backup Types Full
- Backup Types Differential
- Backup Types Log
- · Backup Types Tail Log
- Backup Compression
- Restoring Databases
- Demo: Backups
- Demo: Corrupted Pages
- Summary

