

Best Practices and Strategies for Backing Up and Restoring Exchange 2010 Environment



Exchange 2010 Can Only Be Backed Up Using VSS Writers

Microsoft:

Windows Server Backup System Center Data Protection Manager

Third parties who integrate Exchange VSS Writers

Symantec Backup Exec Asigra CommVault Simpana



Recovering Exchange 2010 Server

Setup /m:RecoverServer

- Used to rebuild and re-create a lost server by using the settings and configuration information stored in Active Directory.
- Not used to recover Edge Transport server

Prerequisites

- Reset computer account in AD
- Install same OS using same computer name, IP address
- Use same drive letters
- Join computer to domain



Recovering Exchange 2010 Server

- Recovery Databases replace "Recovery Storage Group"
- Use Microsoft or third party software to perform restore
- Then use Exchange Management Shell to recover items
 - Restore-Mailbox
 - Export-Mailbox



High Availability

Database Availability Groups (DAGs)

Combine and improve the replication options from Exchange
 2007 into one easily administered solution

 Maintain multiple, continuously updated copies of mailbox database without the requirement of shared storage

Can contain up to 16 mailbox servers across physical locations



How to Create a Database Availability Group

- 1) Create the Database Availability Group
 - 1) In EMC, under Organization select Mailbox
 - 2) Select DAG tab, right click and select "New DAG"
 - 3) Name it, select Witness Server and Witness Directory
- 2) Add Mailbox Servers to DAG
 - 1) Right click new DAG and select "Manage DAG Membership"
 - 2) Select servers to add to the DAG
- 3) Create Mailbox Database Copies
 - 1) Right click a database and select "Add Mailbox Database Copy"
 - 2) Select DAG Member(s) to host database copy
 - 3) Set activation preference number



Single Item Recovery

"Dumpster 2.0"

Set-Mailbox -Identity MBX01 -SingleItemRecoveryEnabled \$True



Source: http://msexchangeteam.com/archive/2009/09/25/452632.aspx



Recovering a message that has been purged...

- 1) Use Exchange Control Panel to run a new search
- 2) Under **Search Name and Storage Location**, type the name of your search, and browse to select the Discovery Search Mailbox
- 3) Results will now be in the "Discovery Search Mailbox"
- 4) Open mailbox in Outlook/OWA or run cmdlet
- 5) Export-Mailbox –Identity "Discovery Search Mailbox" –IncludeFolders \Recovered –TargetMailbox user –TargetFolder targetedfolder



Going "backup-less" with Exchange 2010

Three copies of a database across physical locations

Use a lagged database copy to prevent corruption in a database from being written to the copies

Maximum lag time is 14 days

Enable Single Item Recovery at database level
Can increase mailbox sizes by 350MB or more



Continuous Replication Circular Logging (CRCL)

 Performed and managed by Microsoft Exchange Replication Service

 Unlike Circular Logging in older versions, current log files are not overwritten

 Closed log files are generated for the log shipping and replay process



What's new in Exchange 2010 SP1?

- 1. Continuous Replication Block Mode
 - New method of shipping logs
- 2. Active Mailbox Database Redistribution
 - SP1 Includes a new script called RedistributeActiveDatabases.ps1
 - Balance the distribution of active database copies across a database availability group (DAG)
- 3. Improved Failover Performance



Best Practices for Backing up and Restoring Exchange

- Back up both Database and Mailbox level
- Store versions locally and offsite
- Monitor backups daily
- Review backup schema on an ongoing basis
- Test your backups!



Questions? Comments?

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