

Already covered:

Part One: Introduction to BackupAssist

Now:

Part Two: Technology overview

- Drive Imaging
- Exchange Mailbox
- File Replication
- ZIP64 Backup
- Rsync – Internet Backup
- SQL Server
- Hyper-V Backups

Still to come:

Part Three: Putting it all together

Part Two: Technology Overview

Drive Imaging

Exchange Mailbox

File Replication

Internet Backup

ZIP

SQL Server

Hyper-V

Drive Imaging – Server 2008 family.

- ❑ Image your entire server, or
- ❑ Image your System partition(s).

Key benefits of this technology:

1. Completely recover a server in under 30 minutes.
2. Restore to dissimilar hardware.
3. Restore individual files & apps.



Windows Server 2008
SBS 2008, EBS 2008,
or Hyper-V Server

For more information: http://www.backupassist.com/BackupAssist/tour_Imaging.html

Part Two: Technology Overview

Drive Imaging

Exchange Mailbox

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Internet Backup

ZIP

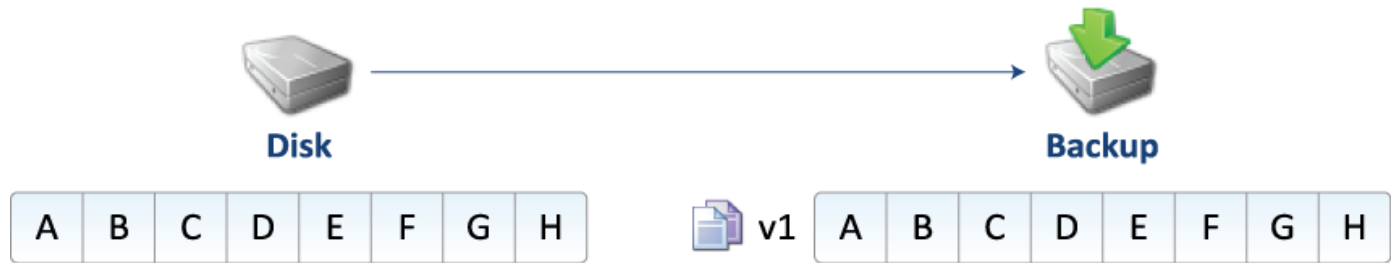
SQL Server

Hyper-V

How it works

Incremental backups save space.

First backup:



Monday's Backup

- No previous backups on this disk
- Full backup performed on Monday

Part Two: Technology Overview

Drive Imaging

Exchange Mailbox

File Replication

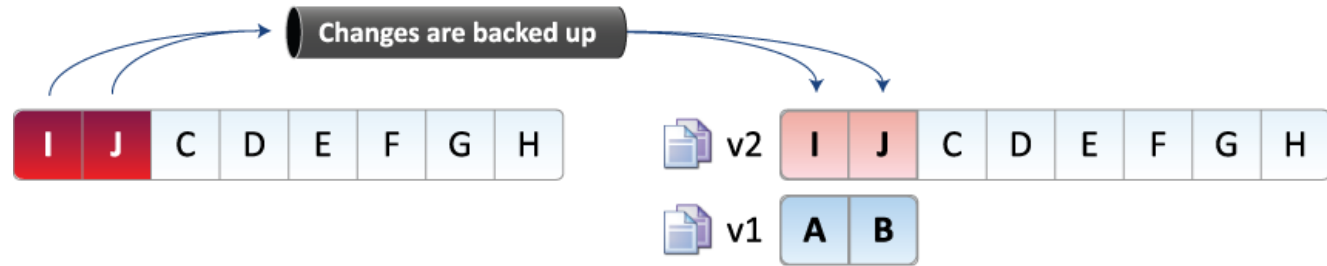
Internet Backup

ZIP

SQL Server

Hyper-V

Second backup (and so on):



Tuesday's Backup

- Blocks I and J are modified
- Blocks I and J are transferred to form the new full backup for Tuesday
- Blocks A and B are stored as Monday's version

Part Two: Technology Overview

Drive Imaging

Exchange Mailbox

File Replication

Internet Backup

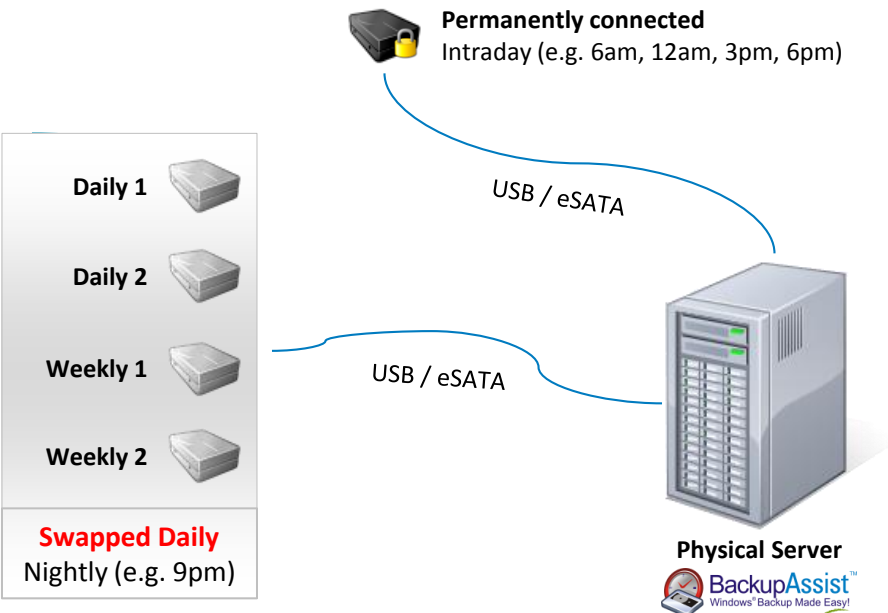
ZIP

SQL Server

Hyper-V

Example of Imaging setup.

Drive Imaging features included with BackupAssist license – USD \$249.



Price Indicator (USD)

Software:

- BackupAssist \$249

Hardware:

- 4x removable HDD \$120
- 1x external HDD \$120

Total: \$849

Part Two: Technology Overview

Drive Imaging

Exchange Mailbox

File Replication

Internet Backup

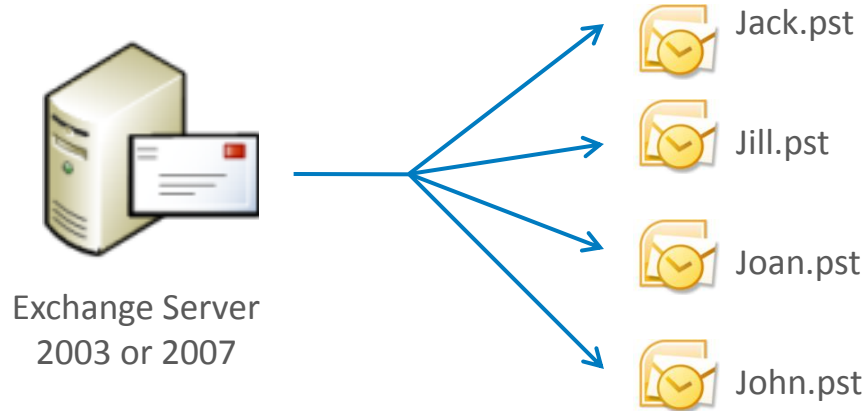
ZIP

SQL Server

Hyper-V

Exchange Mailbox Backups.

Taking user mailboxes to PST file:



Key benefits of this technology:

1. Recover specific mail, contact, calendar and note items easily.
2. Combine with Journaling to keep permanent email records.

For more information: http://www.backupassist.com/BackupAssist/tour_Exchange.html

Part Two: Technology Overview

Drive Imaging

Exchange Mailbox

File Replication

Internet Backup

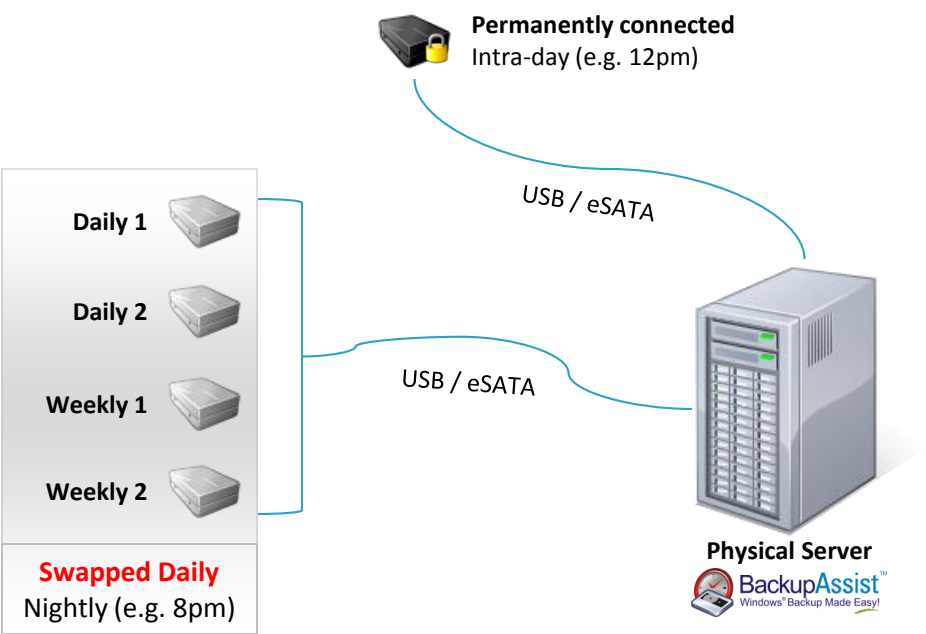
ZIP

SQL Server

Hyper-V

Example of Exchange Mailbox setup.

Exchange Mailbox features included with BackupAssist Exchange Mailbox Add-on – USD \$129.



\$ Price Indicator (USD)

Software:

- BackupAssist \$249
- Exchange Mailbox \$129

Hardware:

- 4x removable HDD \$120
- 1x external HDD \$120

Total: \$978

Part Two: Technology Overview

Drive Imaging

Exchange Mailbox

File Replication

Internet Backup

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SQL Server

Hyper-V

File Replication

- Exact file copying from “A” to “B”
- VSS support



Key benefit of this technology:

1. Protect data on your file system, with massive amounts of backup history.

For more information: http://www.backupassist.com/BackupAssist/tour_FileReplication.html

Part Two: Technology Overview

Drive Imaging

Exchange Mailbox

File Replication

Internet Backup

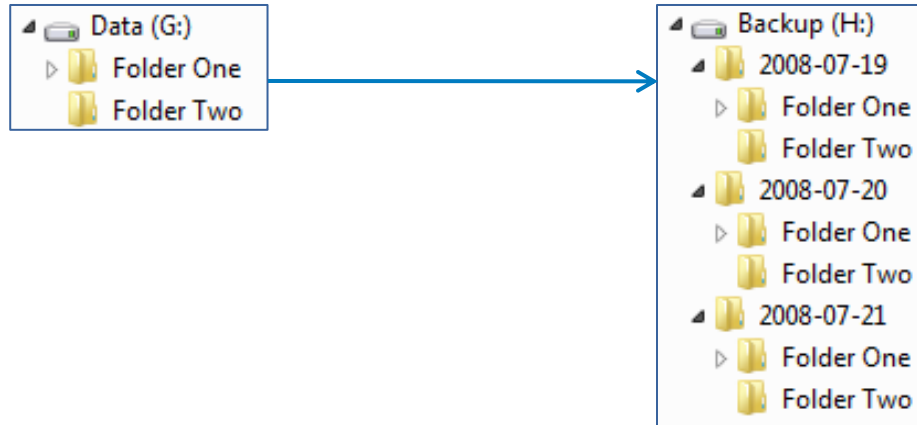
ZIP

SQL Server

Hyper-V

Mode 2 – Backup with history

The result is a series of mirrors, one each time the backup is run. Each mirror is self-contained & the single instance store works totally transparently!



Part Two: Technology Overview

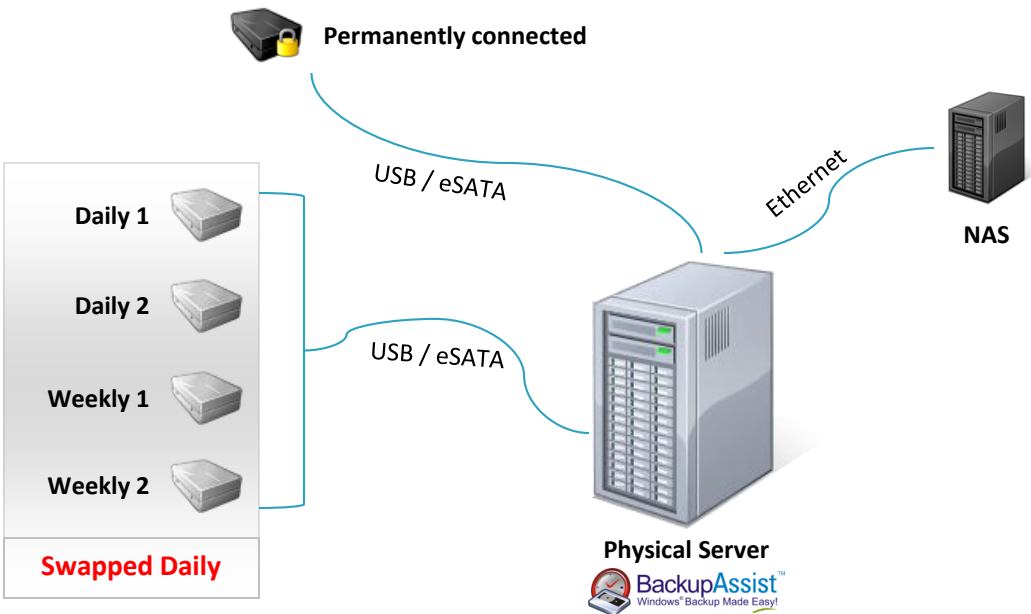
- Drive Imaging
- Exchange Mailbox

File Replication

- Internet Backup
- ZIP
- SQL Server
- Hyper-V

Example of File Replication setup.

File Replication features included with BackupAssist license – USD \$249.



Price Indicator (USD)

Software:

- BackupAssist \$249
- Exchange Mailbox \$129

Hardware:

- 4x removable HDD \$120
- 1x external HDD \$120
- 1x NAS / DAS \$300

Total (inc GST): \$ 1278

Part Two: Technology Overview

Drive Imaging

Exchange Mailbox

File Replication

Internet Backup

ZIP

SQL Server

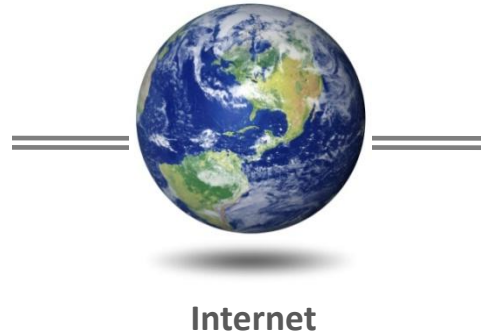
Hyper-V

Rsync engine

BackupAssist helps you send Rsync files & folders across the Internet in a bandwidth efficient way.

Key benefit of this technology:

1. Automatic offsite protection for file and data.



For more information: http://www.backupassist.com/BackupAssist/tour_Rsync.html

Part Two: Technology Overview

Drive Imaging

Exchange Mailbox

File Replication

Internet Backup

ZIP

SQL Server

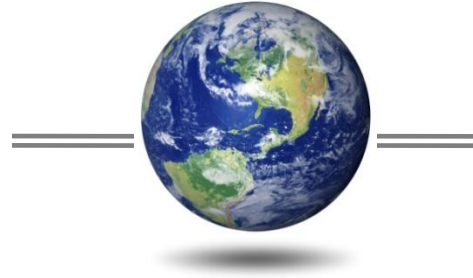
Hyper-V

Common challenges with Internet Backup:



Yet another piece
of software

*"More administrative overhead
and yet another vendor."*



Internet

Slow connection and
too much data

*"Will my data fit through the
pipe?"*



Potentially expensive hosting
fees & vendor lock-in

*"I want flexibility choosing
where to host my data."*

BackupAssist addresses all of these issues!

Part Two: Technology Overview

Drive Imaging

Exchange Mailbox

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Internet Backup

ZIP

SQL Server

Hyper-V

What is Rsync?

- The most widely deployed, most widely used, bandwidth efficient, original file-based remote synchronization tool.
- Gives you options on where to host your data.
- Can replicate application databases offsite:
 - SQL databases
 - Exchange Info Store
 - Mailbox PST files
 - Files & Folders.

Part Two: Technology Overview

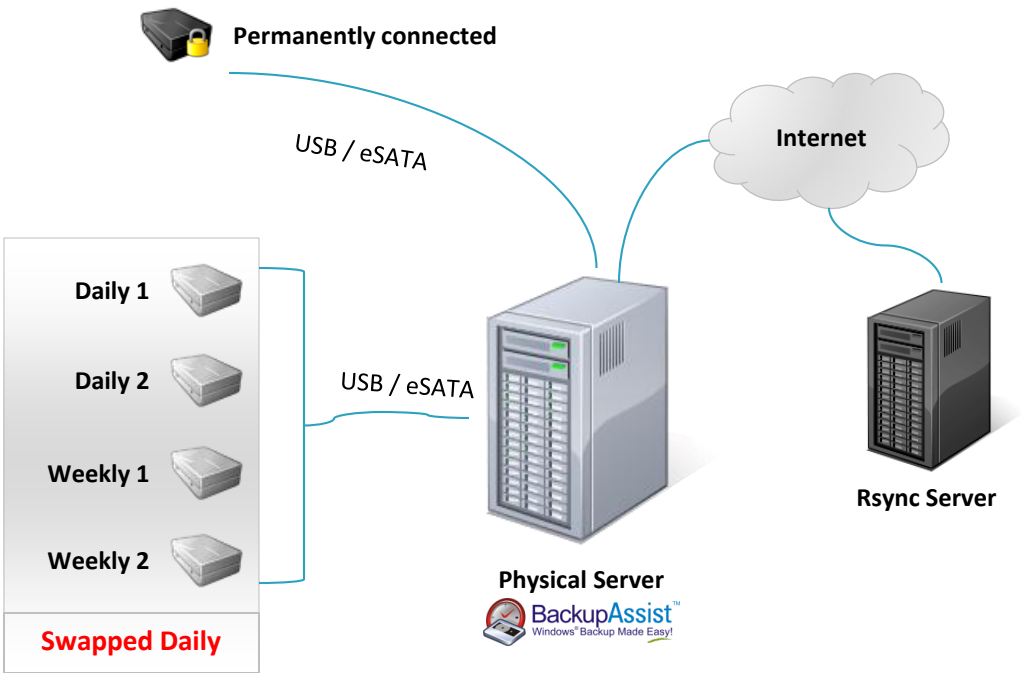
- Drive Imaging
- Exchange Mailbox
- File Replication

Internet Backup

- ZIP
- SQL Server
- Hyper-V

Example of Rsync Internet backup setup.

BackupAssist for Rsync licence – USD \$129.



Price Indicator (USD)

- Software:**
- BackupAssist \$249
 - Exchange Mailbox \$129
 - Rsync \$129

- Hardware:**
- 4x removable HDD \$120
 - 1x external HDD \$120
 - 1x Rsync Host \$560

Total (inc GST): \$1667

Part Two: Technology Overview

Drive Imaging

Exchange Mailbox

File Replication

Internet Backup

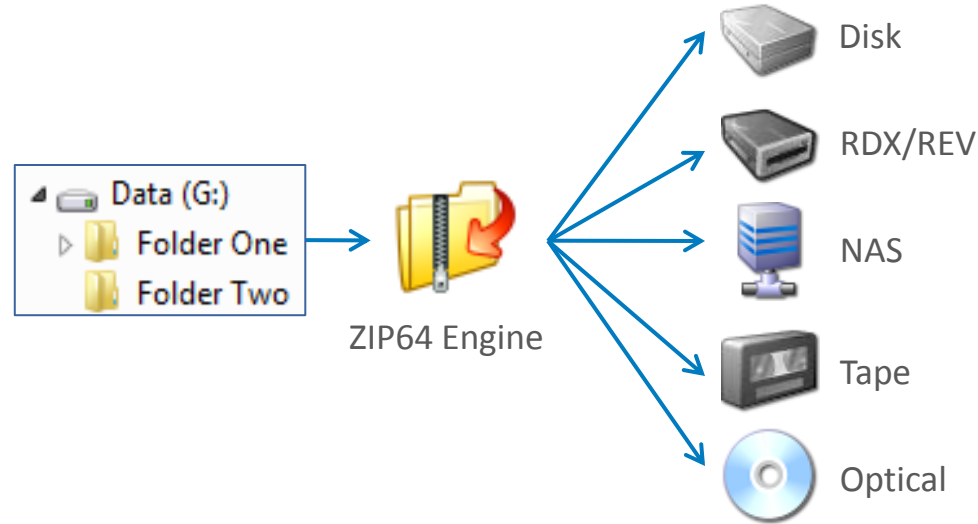
ZIP

SQL Server

Hyper-V

ZIP64 Backup Engine.

ZIP files and folders:



Key benefits of this technology:

1. Simple file protection using the proven ZIP file format.
2. Compression + AES-256 encryption.
3. Tape drive capable with add-on.

For more information: http://www.backupassist.com/BackupAssist/tour_Zip.html

Part Two: Technology Overview

Drive Imaging

Exchange Mailbox

File Replication

Internet Backup

ZIP

SQL Server

Hyper-V

Why ZIP64?

- ❑ The most widely deployed data storage format
- ❑ Compression and AES-256 encryption
- ❑ Ubiquitous restore
- ❑ ZIP & Burn your Exchange / SQL Databases
- ❑ ZIP to USB Flash Drive – daily data backup
- ❑ Burn files to disc on weekly basis.

Part Two: Technology Overview

Drive Imaging

Exchange Mailbox

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SQL Server

Hyper-V

Tape Drive Backups on Server 2008.

Zip-to-tape drive support for Server 2008:

- ☐ Maintain existing hardware investments
- ☐ Good supplementary backup to your daily drive imaging.

Part Two: Technology Overview

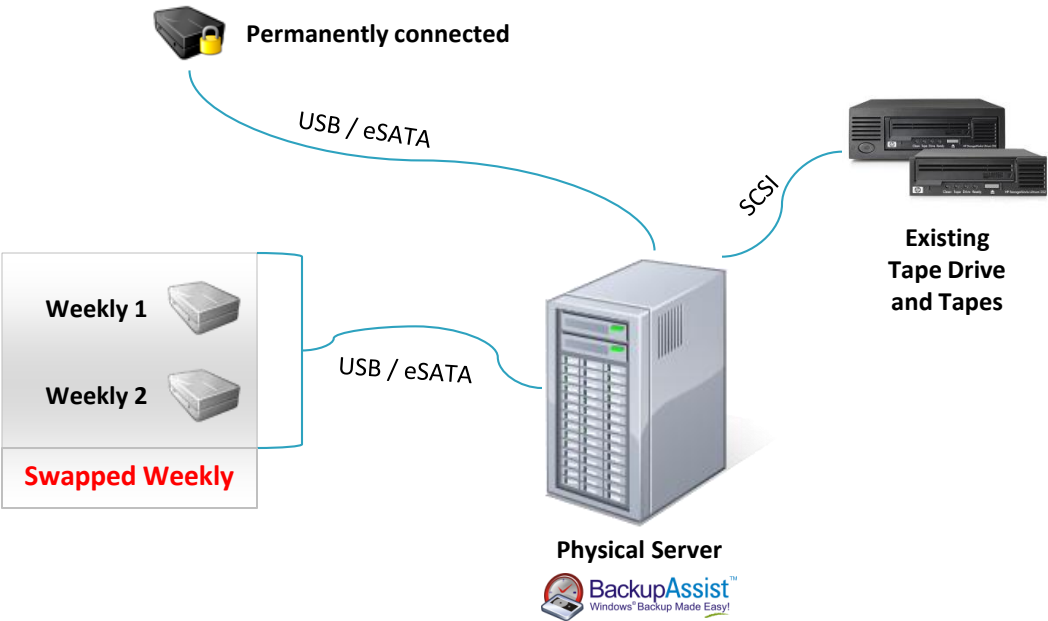
- Drive Imaging
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- Internet Backup

ZIP

- SQL Server
- Hyper-V

Example of Tape Drive backup setup on Server 2008

BackupAssist Zip-To-Tape Add-on – USD \$129.



\$ Price Indicator (USD)

Software:

- | | |
|--------------------|-------|
| • BackupAssist | \$249 |
| • Exchange Mailbox | \$129 |
| • Zip-to-Tape | \$129 |

Hardware:

- | | |
|-----------------------|-------|
| • 2x removable HDD | \$120 |
| • 1x external HDD | \$120 |
| • Existing tape drive | \$0 |

Total (inc GST): \$867

Part Two: Technology Overview

Drive Imaging

Exchange Mailbox

File Replication

Internet Backup

ZIP

SQL Server

Hyper-V

SQL Backup Engine

- ❑ Backup unlimited numbers of local or remote SQL servers
- ❑ Daily or near continuous protection
- ❑ Full daily backups
- ❑ 15 minute transaction log backups.

Key benefit of this technology:

1. Easy backup and recovery of SQL databases.

For more information: http://www.backupassist.com/BackupAssist/tour_SQL.html

Part Two: Technology Overview

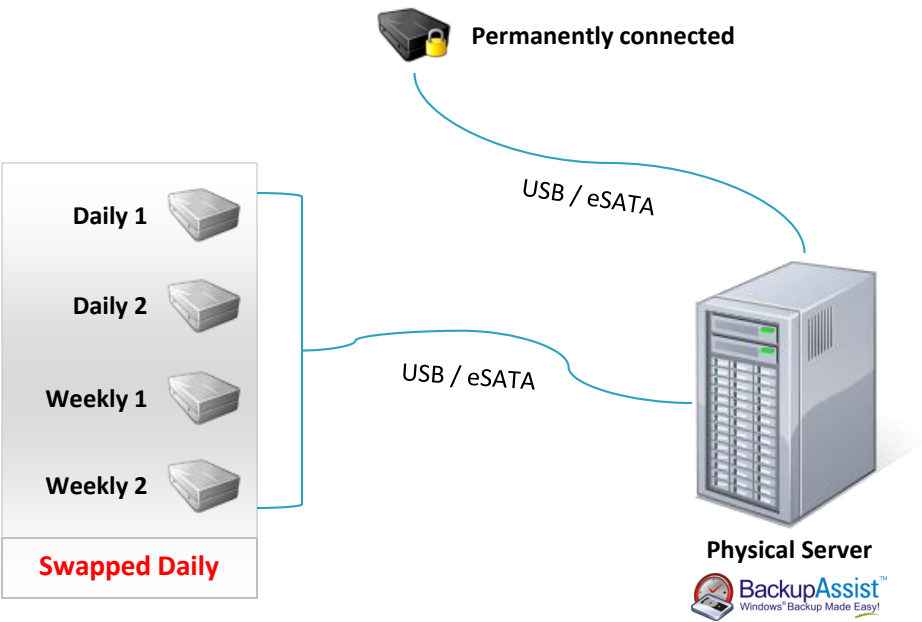
- Drive Imaging
- Exchange Mailbox
- File Replication
- Internet Backup
- ZIP

SQL Server

Hyper-V

Example of SQL Server backup setup.

BackupAssist SQL Add-on – USD \$195.



\$ Price Indicator (USD)

Software:	
• BackupAssist	\$249
• SQL	\$129

Hardware:	
• 4x removable HDD	\$120
• 1x external HDD	\$120

Total (inc GST): \$978

Part Two: Technology Overview

- Drive Imaging
- Exchange Mailbox
- File Replication
- Internet Backup
- ZIP
- SQL Server

Hyper-V

Hyper-V Backups.

- Straightforward and cost-effective option
- Image your host – a one-pass backup solution

Key benefits of this technology:

1. Protect your host and unlimited guests.
2. Restore at all levels: host, guest, file within guest, thanks to the BackupAssist Hyper-V Granular Restore Console.

BackupAssist		Competitor's Product	
BackupAssist	\$249	Competitor's product – for Windows Servers License + Essential 12 Months Support	\$1162.66
BackupAssist VM Granular Restore Add-on	\$249	Competitor's product – System Recovery Server Edition License + Essential 12 Months Support	\$1279.51
BackupAssist Exchange Mailbox Add-on	\$129	Competitor's product – Agent for Microsoft Virtual Server License + Essential 12 Months Support	\$2915.41
Total for BackupAssist Solution	\$627	Total for Competitor's Solution	\$5357.58

Part Two: Technology Overview

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SQL Server

Hyper-V

BackupAssist handles all recovery scenarios:

- ✓ Recover the entire server from bare metal
- ✓ Recover specific files and folders
- ✓ Restore all Hyper-V VMs to a different host
- ✓ Restore a single VM
- ✓ Restore a single VM to a different host
- ✓ Restore specific files & applications on a guest
- ✓ Recover a complete Exchange Server
- ✓ Recover individual Exchange mailboxes and Outlook items
- ✓ Recover SQL Server databases
- ✓ Onsite & offsite data protection

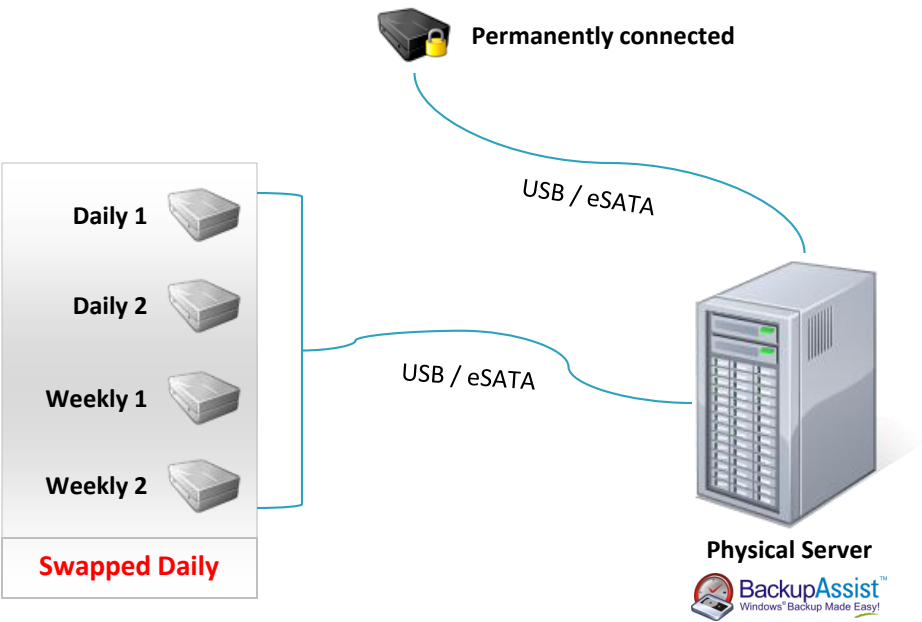


Part Two: Technology Overview

- Drive Imaging
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- File Replication
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- Hyper-V

Example of Hyper-V backup setup.

BackupAssist Hyper-V Granular Restore Add-on – USD \$249.



\$ Price Indicator (USD)

Software:

- BackupAssist \$249
- Exchange Mailbox \$129
- Hyper-V Granular \$249

Hardware:

- 4x removable HDD \$120
- 1x external HDD \$120

Total (inc GST): \$1227