Cloud File Backup Set

AhsayCBS, AhsayOBM and AhsayACB allows users to back up data stored on supported cloud storage with the Cloud File Backup Set.

System Architecture

Below is the system architecture diagram illustrating the major elements involved in the backup process among the Cloud Storage, AhsayOBM and AhsayCBS.

Requirements

Hardware Requirement

To achieve the optimal performance when AhsayOBM / AhsayACB is running on your machine, refer to: Ahsay Hardware Requirement List (HRL)

Software Requirement

Refer to this article for the list of compatible operating systems and application versions: Ahsay Software Compatibility List (SCL)

Antivirus Exclusion Requirement

To optimize performance of AhsayACB on Windows, and to avoid conflict with your antivirus software, refer to this list of processes and directory paths that should be added to all antivirus software white-list / exclusion list.

Other Requirement and Recommendation

Ensure that the following requirements are met:

AhsayOBM Installation

Make sure that AhsayOBM is installed on a computer with Internet access for connection to the cloud storage.

Access for AhsayCBS User Web Console

It is now possible to perform agentless backup and restore, which can be done via the AhsayCBS User Web Console without using the AhsayOBM client agent. In order to access the User Web Console, make sure you have Internet connection and a web browser installed on your computer or mobile device.

Backup Quota Requirement

Make sure that your AhsayOBM user account has sufficient quota assigned to accommodate the storage for the Cloud File backup.

Selectable Backup Run Type

You can choose to either run the backup set you created on Server (AhsayCBS) or Client (AhsayOBM). The run type of a cloud file backup set can only be set if you create a backup set via the AhsayCBS Admin / User Web Console. For backup set created via the backup client application (i.e. AhsayOBM), the run type is set to Run on Client by default.

Run on Server

A Run on Server cloud file backup set provides you with an agentless backup solution. Manual or scheduled backup job is performed on the backup server (i.e. AhsayCBS); you do not need to install a backup agent on your personal computer in order to backup your data on cloud storages. Below are the benefits:

Physical Machine not Required

Since the whole backup and restore process is done over the CBS server and therefore you do not need a physical machine at all.

Simplified Installation

Unlike agent-based backup, you do not need to install the client backup agent on your computer or upgrade it when a newer version becomes available.

Simplified Administration

With one software to manage (AhsayCBS, the backup server application), this allows administrator / user to manage backup and restore operations from a centralized console with lower time investment.

Compliance

Some organizations cannot install client agents due to regulatory requirements. An agentless solution allows for compliance during backup or restore.

Consistency and Recoverability

Backup client agent could interfere with the processing power of core applications of the machines that it is installed on. Run on Server cloud file backup job is performed on the backup server, which does not consume resources on client computer during a backup job. The advantages of agentless backup technology make it a good option for administrators / users who want to simplify the backup and restore management.

Run on Client

A Run on Client cloud file backup set provides you with an agent-based backup solution. Manual or scheduled backup job is performed on the client computer (i.e. AhsayOBM); you need to install a backup agent on your personal computer in order to back up your data on cloud storages. What are the benefits?

Performance

Unlike an agentless backup, where backup / restore operations of all users are performed on the backup server which may have multiple jobs to run at the same time, resulting in slower performance. Agent-based backup is performed on your computer with resources that is dedicated for your own backup and restores. The advantages of agent-based backup technology make it a good option for users who want to have more control on individual backup / restore and resources management.

Robustness

In the event of a failure to a single backup agent, it fails in isolation to other users' environment.

Industry standard requires minimal learning curve

Agent-based backup is the traditional backup approach that is well understood by most administrators and end users whom would only need minimal effort and time to understand the backup and restore process and operations.

Differences between a Run on Server and Run on Client Backup Set

The following table summarizes the differences in backup options available for a Run on Server or Client cloud file backup set, and the tool to use (client agent or web console) when performing a backup and restore:

	Run on Server Cloud File Backup Set	**Run on Client Cloud File Backup Set**
General Settings	Yes	Yes
Backup Source	Yes	Yes
Backup Schedule	Yes	Yes

	Run on Server **Cloud File Backup Set**	**Run on Client** **Cloud File Backup Set**
Continuous Backup	Yes	Yes
Destination	AhsayCBS and Predefined Destinations only	Yes
In-File Delta	Yes	Yes
Retention Policy	Yes	Yes
Command Line Tool	Not Available	Yes
Reminder	Not Available	Yes
Bandwidth Control	Yes	Yes
IP Allowed for Restore	Not Available	Yes
Other	Yes	Yes
To Run a Backup	From AhsayCBS User Web Console	From AhsayOBM
To Run a Restore	From AhsayCBS User Web Console	From AhsayOBM / AhsayOBR

Best Practices and Recommendations

The following are some best practices or recommendations we strongly recommend you to follow before you start any Cloud File backup and restore.

Temporary Directory Folder Location (For backup and restore running on AhsayOBM only)

Temporary directory folder is used by AhsayOBM for storing backup set index files and any incremental or differential backup files generated during a backup job. To ensure optimal backup/restoration performance, it is recommended that the temporary directory folder is set to a local drive.

Performance Recommendations

Consider the following best practices for optimized performance of the backup operations:

- Schedule backup jobs when system activity is low to achieve the best possible performance.
- Perform test restores periodically to ensure your backup is set up and performed properly. Performing recovery test can also help identify potential issues or gaps in your recovery plan. It's important that you do not try to make the test easier, as the objective of a successful test is not to demonstrate that everything is flawless. There might be flaws identified in the plan throughout the test and it is important to identify those flaws.

Documentation

- Cloud File Backup & Restore Guide for Windows
- Cloud File Backup & Restore Guide for Mac

FAQs

- How to perform backup to a local destination then import the data to a cloud storage destination?
- How to synchronize backup data on cloud storage to multiple computers for quicker restore (Fast Data Recovery)?
- FAQ: How do I increase the number of scheduled concurrent agentless Cloud File and Office365 Exchange backup jobs on my AhsayCBS server?

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