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SAFESPRING STORAGE:

Secure and move data to Safespring Storage using Commvault

Add extra security with an offsite backup

Introduction

This whitepaper describes how to configure Safespring Storage as a "Disk Library" in Commvault. The only prerequisite is that you have a storage account at Safespring and a running Commvault solution. With that you will be able to be up and running with a disaster backup solution in minutes.

What Safespring is all about

Our infrastructure services is based on the market leading cloud platform OpenStack. The service is delivered from secure data centers with high availability.

We provides an object-storage service where we expose an S3 interface to your application. The service is optimized at large and inexpensive storage space and is well suited for applications such as reading or writing large amounts of data. Customer data never leaves Sweden or Norway where data centers are physically located within the country. Safespring delivers a locally based Cloud, built for the apps of tomorrow. We enables our customers to innovate quickly, reducing time to market and removing technical constraints while increasing efficiency levels and retaining data sovereignty. With our platform, we help our customers improve competitiveness to delivery excellence.

Try Safespring Storage for free

Create your account by following this link. Safespring provides secure and easily managed infrastructure services. Get your recources here:

www.safespring.com/testa-safespring-storage

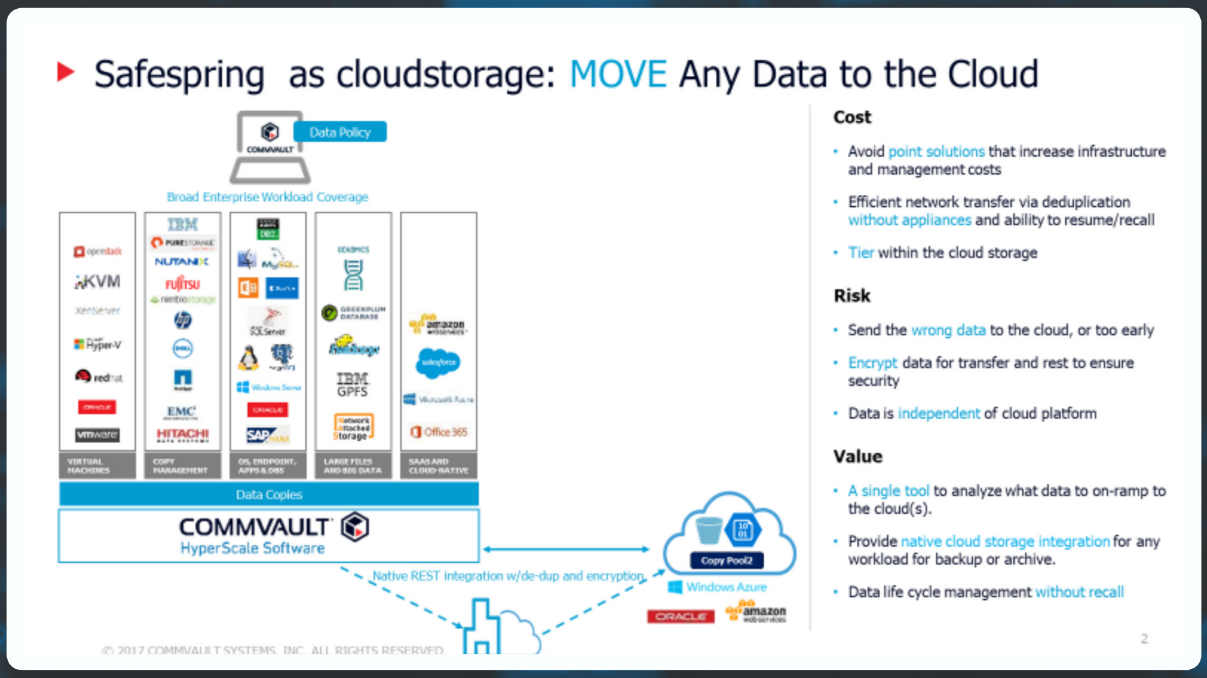
Customer benefit

Offsite backups are primarily is used in data backup and disaster-recovery measures. The core objective behind storing and maintaining data at a backup facility is to:

1) Secure data from malicious attacks
2) Keep a backup copy of data in case the primary site is damaged or destroyed

Cloud backup, online backup or managed backup are examples of offsite backup solutions that enable an individual or organization to store data at facilities that are geographically and logically external from the organization.

S3 is becoming the de facto standard interface for object storage with increasing support in different kinds of backup software. By combining the the backup solution you already have with S3-storage at Safespring you will get an off site backup of you data, integrated with you current backup solution to a low price.



Commvault in Safespring's platform.

About offsite backup

There are a number of backup solutions in the market that will handle local backups of your data very well. The most common solution is to have a backup server with a dedicated storage cluster to make sure that the backups are available if the main environments breaks for some reason.

The 3-2-1 rule

When talking about backups it is very common that one refers to the 3-2-1 rule which means that you should have three copies on two different media with one offsite.

The local backup solution does only cater for two of the three requirements: you might have three backups and with the separate storage solution for the backup server you will also have two backups stored on different media. But what about the last one - that you should have one copy offsite? This has before been the hardest requirement to fulfill but the the advent of standardized storage protocols and cloud service providers delivering their services of those protocols - the task to make the offsite copy has been greatly simplified.

What is S3 storage?

S3 (Simple Storage Service) is from the beginning a protocol developed by Amazon. The protocol makes it easy to upload and download files securely over standardized and encrypted HTTPS protocol. Even if the protocol itself was developed by Amazon it has become an open standard on how to send and store files over the Internet. Safespring's storage solution is S3-compatible which makes it compatible to all other S3-compatible solutions on the market, for instance the Commvault backup software. By using standardized protocols, the work of integrating the two solutions has become a child's play.

A local cloud service provider could be more suitable

If using an Amazon protocol, why not use Amazon as the storage backend, you might wonder. There are a number of reasons why a local cloud provider which is compatible could be a more suitable solution:

1) **Compliance** By placing your data in a local provider it will be much easier to comply to local laws and regulations. Surprises of where your data really is, are eliminated
2) **Local support** In the setup phase I can be good to be able to speak with the personnel on the other side in your own language.
3) **Performance** Fewer bottlenecks with your data closer to you. Depending on how you are connected.

Commvault can use a number of storage solutions as a "Disk Library" to use for primary or secondary offsite backups. The latter is especially interesting if you are running a Commvault solutions since no investments in further infrastructure is needed to get a fully functional offsite backup of your data. Safespring has an object storage solution with local data centers in Sweden and Norway which makes it possible to add a compliant disaster recovery solution to your existing Commvault solution. You will only pay for the used storage in Safesprings solution but will be able to sleep better at night knowing that a secondary backup is safe in Safesprings storage platform.

How to move data to offsite storage

What Data, What Tools -> Would it be nice if every application provided native a secure, efficient manner to upload to your cloud choice.

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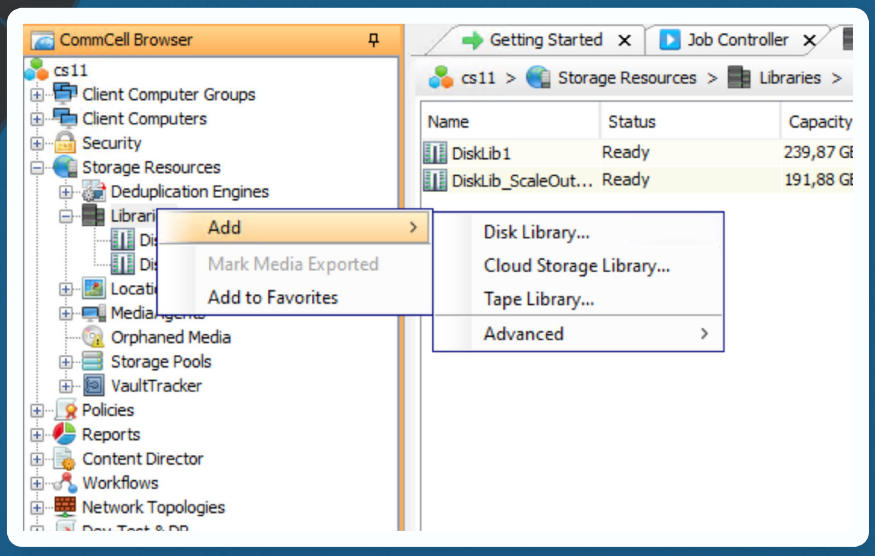
Start of guide

To configuring your Commvault solution to use your storage account as a target follow these instructions.

STEP ONE Open the configuration

Expand your Storage Resource and right click **Libraries > Add > Cloud Storage Library...**

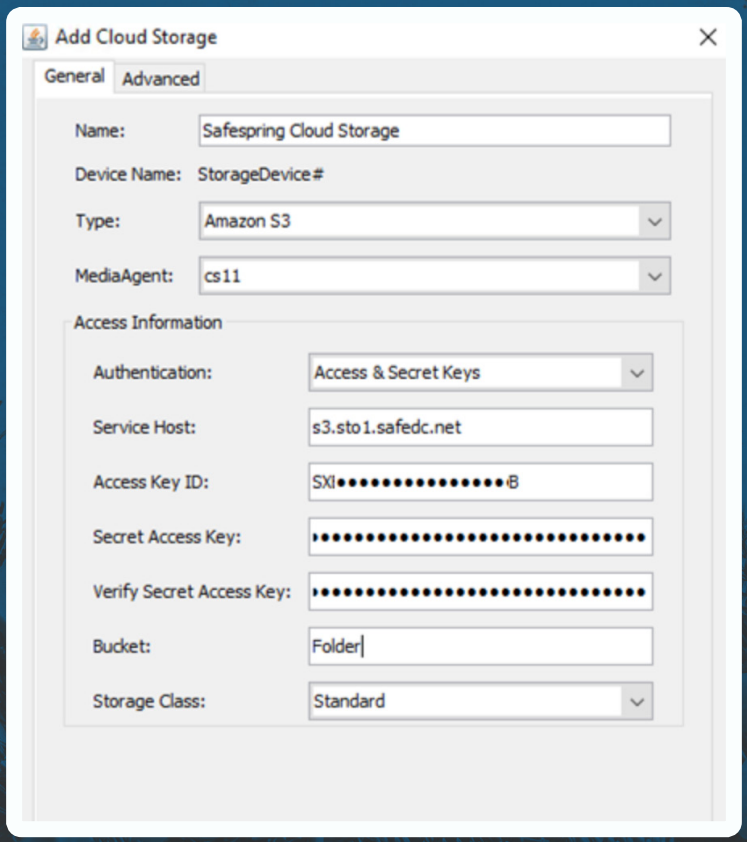
That will bring you to the configuration of your Cloud Storage from Safespring.



Step one, open the configuration window.

STEP TWO Fill in your information

1) **Name** is your preferred Name of this Storage Device. Spaces is allowed.
2) **Type** is Amazon S3 which is Safespring type of storage.
3) **Media Agent** is the server that should be writing and reading to the Storage.
4) **Authentication** is Access & Secret Keys.
5) **Service Host** is the endpoint-url you get in your onboarding email from Safespring. In this case - **s3.sto1.safedc.net** (without https://).
6) **Access Key ID** is your access_key from your onboarding email.
7) **Secret Access Key** is your secret_key which you have received through sms reply during onboarding.
8) **Verify Secret Access Key** is the same as the secret_key that you received through sms reply during onboarding.
9) **Bucket** is your preferred name of the folder you want to write to.
10) **Storage Class** is Standard.



Step two, fill in your information.

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STEP THREE
Configure a backup job using the Disk Library

When your Disk Library definition pointing to Safespring is completed - you now can set up a regular backup job in the management console storing the data to Safespring. By that you have configured a secure offsite backup to your existing solution.

Final words

By following the steps above, you will add another backup of your data to a local cloud provider. If something bad would happen at your main site you can rest assured that the data still will be reachable at Safespring.

By setting up a new Commvault server (if the original one is broken) you can read back the backups from Safespring Storage. Depending on your needs for RPO and RTO the solution could be complemented with more frequent synchronizations.
Another option is to have a cold standby Commvault solution at a mirrored site (hosted by you or Safespring) using Safespring Storage as common backend. This kind of solution will be able to recover from a crash in the main site even more rapidly since the Commvault server at the main site would not be needed to recover.

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www.safespring.com/whitepaper

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