

Configure Seagate Lyve Cloud with IBM Spectrum Protect

Get the most out of our efficient and centralized enterprise backup solution.

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Challenge Summary: Data Security Risks Abound

With the rapid growth of data, organizations from every sector are vulnerable to data storage challenges. Security concerns are a main priority to protect confidential information, all while working in alignment with new regulatory requirements. Hardware failures, natural disasters, and cyberattacks are only a few of the potential risks when it comes to maintaining physical storage devices. With the increase in data growth and regulations comes a demand for longer retention periods and, therefore, a need for secure protection and simple data retrieval.

Solution Summary: A Scalable and Automated Backup and Archive Solution

IBM Spectrum Protect and Seagate® Lyve™ Cloud work together to provide enterprises a modernized solution to protect data while delivering a scalable, cost-efficient, and secure approach to protecting their business. This joint effort offers an automated and effective data recovery option to safeguard against potential security threats and data losses. It delivers an exceptional performance with predictable pricing models, secure backup and archive, and easy retrievals.

Lyve Cloud's focus on predictable cost, security, and efficient accessibility, combined with IBM Spectrum Protect's extremely scalable data protection solution, removes extra costs and fees, reduces network requirements, and maintains cyber resiliency against threats, data loss, and disasters.

Getting Started: Deploying Lyve Cloud with IBM Spectrum

Deployment Prerequisites

- A configured Lyve Cloud Storage Account (including Access and Secret Keys for the storage account, as well as the ability to read/write/list and create buckets and objects, as well as the ability to delete objects)
- A configured IBM Spectrum Protect Account (Follow IBM Spectrum Protect Best Practices for your workload and environment)

Configuration Overview

The configuration for Lyve Cloud with IBM Spectrum Protect is divided into two simple task

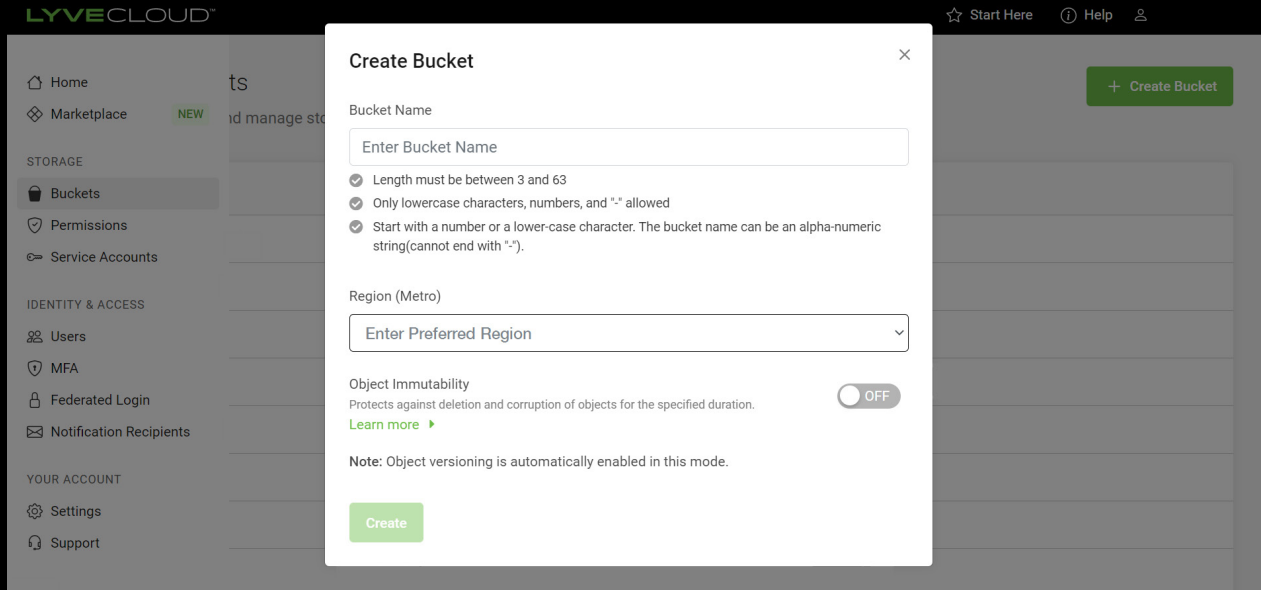
- Task 1: Create a Lyve Cloud Service Account (consult the [Lyve Cloud Quick Start Guide](#))
- Task 2: Add a Cloud Tier on IBM Spectrum Protect Server (consult the [Configuring a Cloud Container Storage Pool](#) reference guide)



Task 1: Create Lyve Cloud Account

Step 1: Create Bucket

Go to the “Bucket” section of the Lyve Cloud Console and select the “Create Bucket” button. Enter unique Bucket Name and select Preferred Region



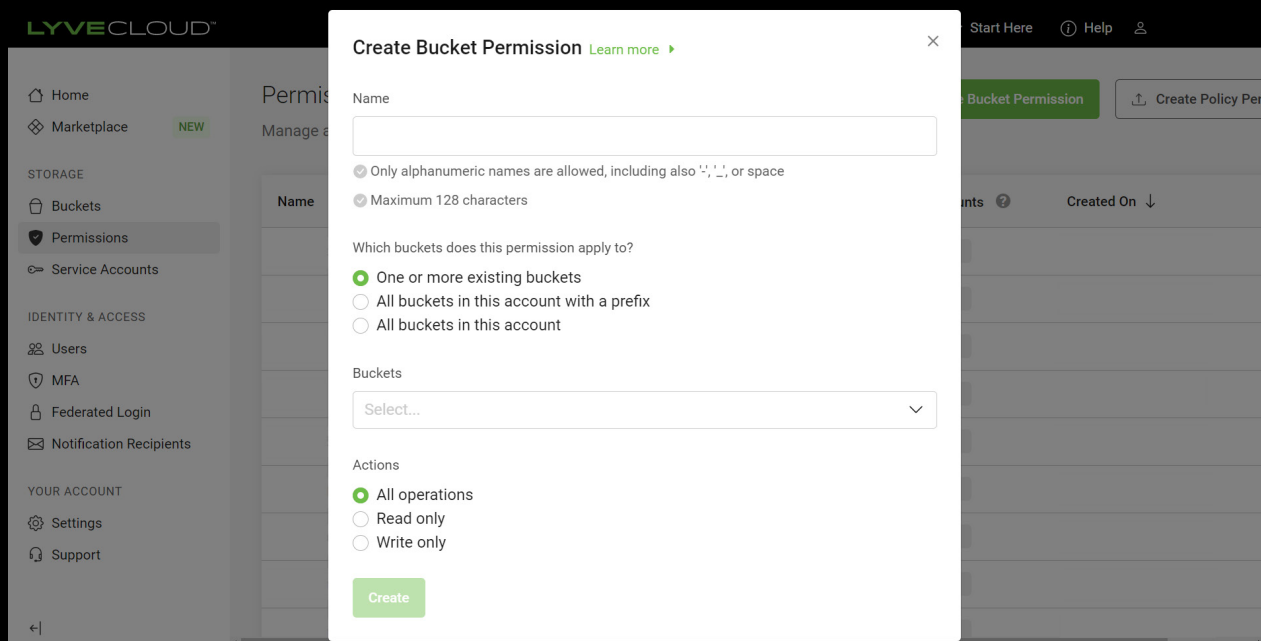
The screenshot shows the Lyve Cloud console with the 'Create Bucket' dialog box open. The dialog box has a title bar with a close button. It contains the following fields and options:

- Bucket Name:** A text input field with the placeholder 'Enter Bucket Name'.
- Validation rules:** Three checked checkboxes: 'Length must be between 3 and 63', 'Only lowercase characters, numbers, and "-" allowed', and 'Start with a number or a lower-case character. The bucket name can be an alpha-numeric string (cannot end with "-").'.
- Region (Metro):** A dropdown menu with the placeholder 'Enter Preferred Region'.
- Object Immutability:** A section with a description 'Protects against deletion and corruption of objects for the specified duration.' and a 'Learn more' link. A toggle switch is set to 'OFF'.
- Note:** 'Object versioning is automatically enabled in this mode.'
- Create:** A green button at the bottom.

Note: IBM does not support Object Immutability.

Step 2: Create Bucket Permission

Go to the “Permissions” section of the Lyve Cloud Console and select the “Create Bucket Permission” button. Enter unique Name, select Permissions, and allocate All Operations.



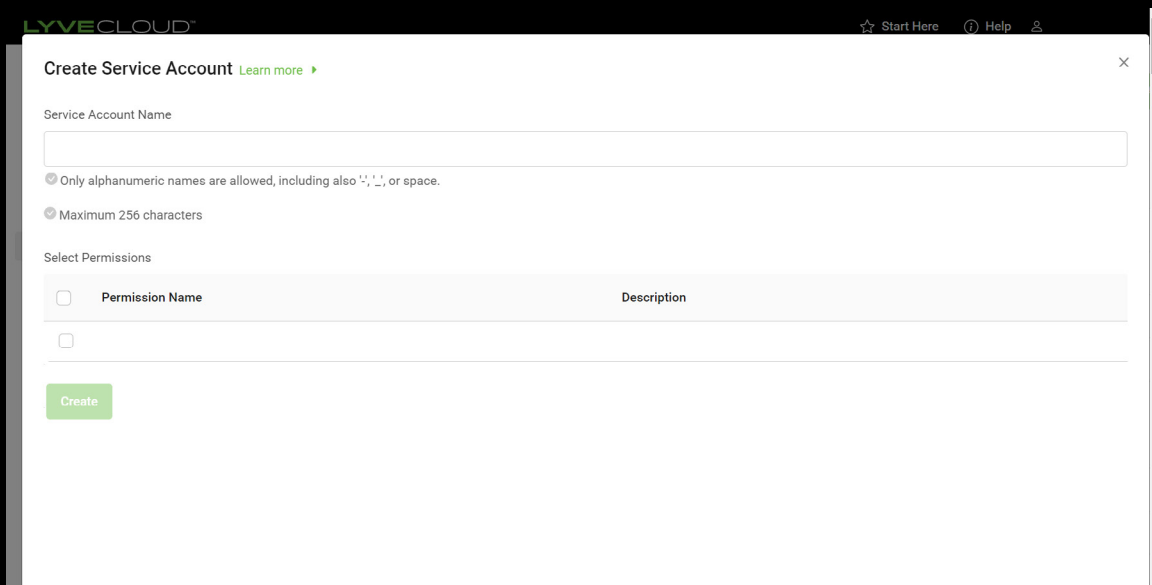
The screenshot shows the Lyve Cloud console with the 'Create Bucket Permission' dialog box open. The dialog box has a title bar with a close button and a 'Learn more' link. It contains the following fields and options:

- Name:** A text input field with the placeholder 'Name'.
- Validation rules:** Two checked checkboxes: 'Only alphanumeric names are allowed, including also ".", "_", or space' and 'Maximum 128 characters'.
- Which buckets does this permission apply to?:** Three radio button options: 'One or more existing buckets' (selected), 'All buckets in this account with a prefix', and 'All buckets in this account'.
- Buckets:** A dropdown menu with the placeholder 'Select...'.
- Actions:** Three radio button options: 'All operations' (selected), 'Read only', and 'Write only'.
- Create:** A green button at the bottom.



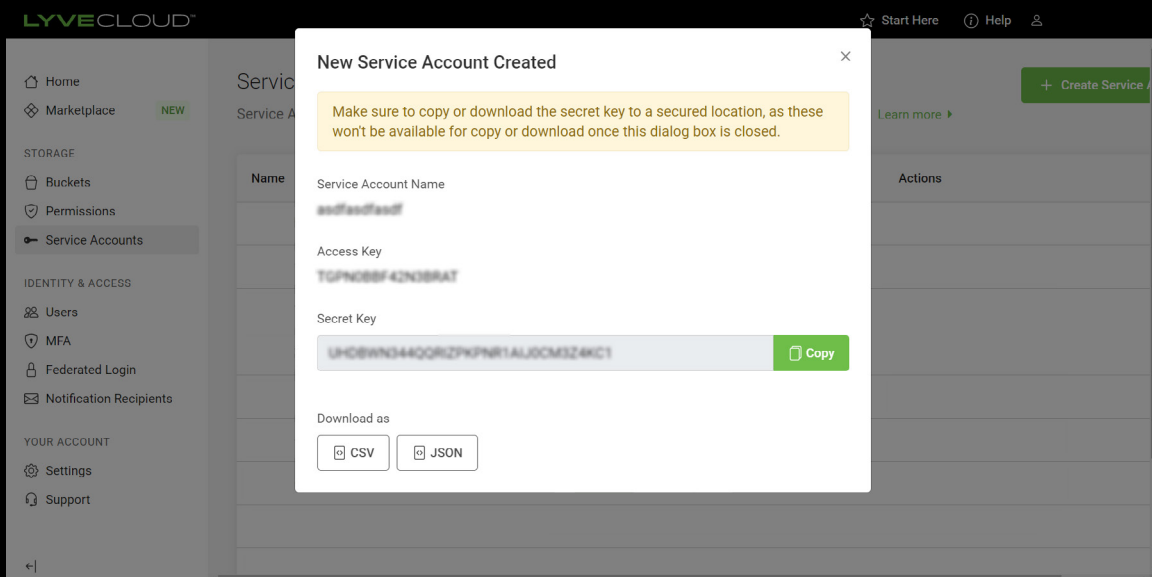
Step 3: Create Service Accounts

Go to the “Service Accounts” section of the Lyve Cloud Console and select the “Create Service Account” button.



The screenshot shows the 'Create Service Account' dialog in the Lyve Cloud console. The dialog has a title bar with 'LYVECLOUD' and navigation links. The main content area includes a 'Service Account Name' input field with a placeholder. Below it, two radio buttons are selected: 'Only alphanumeric names are allowed, including also '-', '.', or space.' and 'Maximum 256 characters'. Under the 'Select Permissions' section, there is a table with two columns: 'Permission Name' and 'Description'. The table is currently empty. At the bottom left of the dialog is a green 'Create' button.

Enter the unique Service Account name and select Permissions. The confirmation box will display the Access Key and Secret Key. **Copy or download the Access Key and Secret Key information before closing.**



The screenshot shows the 'New Service Account Created' confirmation dialog in the Lyve Cloud console. The dialog has a title bar with 'LYVECLOUD' and navigation links. The main content area includes a yellow warning box with the text: 'Make sure to copy or download the secret key to a secured location, as these won't be available for copy or download once this dialog box is closed.' Below this, the 'Service Account Name' is displayed as 'sdfasdfsdf'. The 'Access Key' is displayed as 'TGFNGBBF4ZND8RAT'. The 'Secret Key' is displayed as 'LHCEWNO344QORIZPKFNR1AUSCM3Z4KC1' with a green 'Copy' button next to it. At the bottom, there is a 'Download as' section with two buttons: 'CSV' and 'JSON'.

Note: You must have at least one bucket with at least one associated permission before you can establish the credentials needed to add Lyve Cloud as a new Cloud Tier.

For more information on how to create a bucket, consult the [Lyve Cloud Quick Start Guide](#) or view the [Tutorial Videos](#).

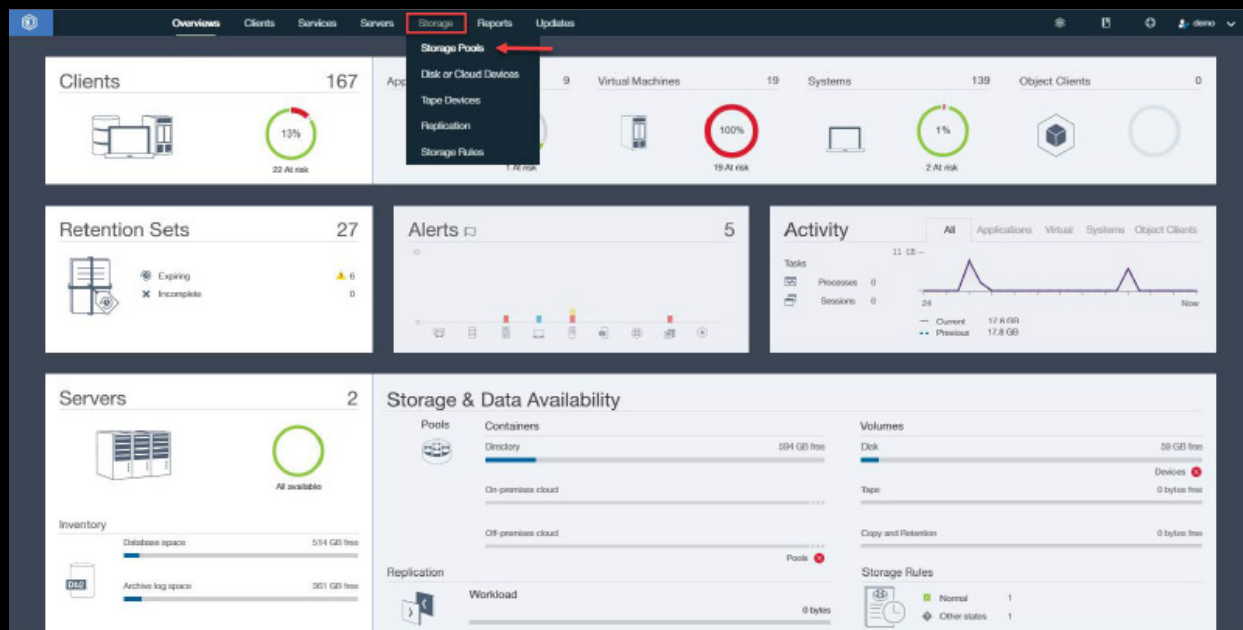


Task 2: Add a Cloud Tier on IBM Spectrum Protect Server

IBM Spectrum Protect environment readiness is assumed.

Step 1: Add a Cloud Container Storage Pool

Go to the “Storage” section of the IBM Spectrum Protect Operations Center. Select “Storage Pools.”



Step 2: Add Storage Pool

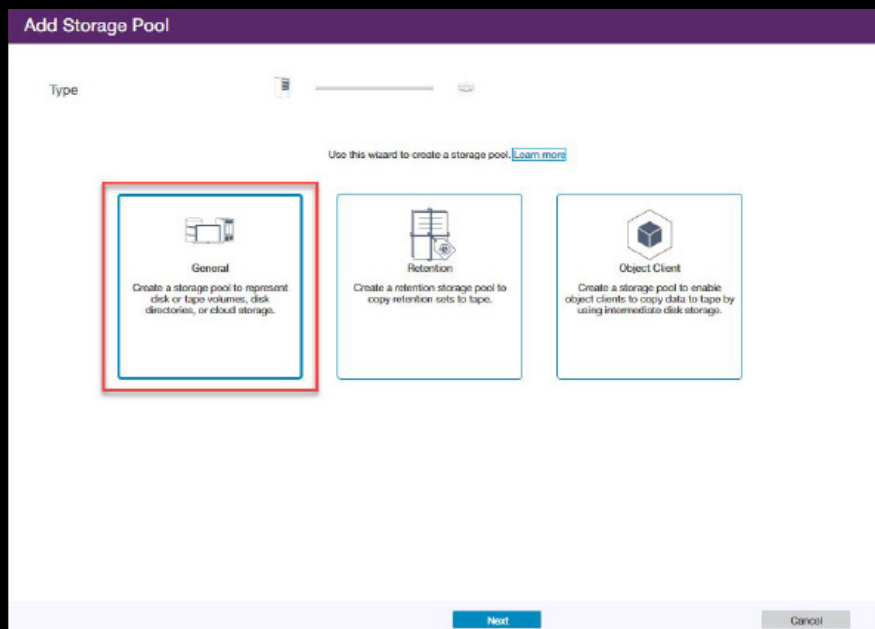
Select “+ Storage Pool” to start the storage pool wizard and complete the steps to create a storage pool.

Type	Name	Server	Status	Capacity Used	Device Class	Storage Type	% Savings
Container	CLOUDPOOL	PROTECT	Critical	0 GB	---	Off-premise cloud	75
Container-copy	CONTAINER1_CO...	PROTECT	Normal	No capacity	LTO	---	---
Container	CONTAINERPOOL	PROTECT	Normal	85.0 GB / 263.0 GB	---	Directory	87
Container	DEMO_CLOUD	PROTECT	Normal	0 GB	---	Off-premise cloud	0
Container	DEMO_SPC	PROTECT	Normal	No capacity	---	Directory	0
Primary	IBM_DEPLOY_CLI...	PROTECT	Normal	3.0 GB / 59.0 GB	IBM_DEPLOY_CLIENT_I...	---	---
Container	MYCLOUD	PROTECT	Normal	0 GB	---	On-premise cloud	0
Primary	OVERFLOW	PROTECT	Normal	No capacity	FILE	---	---
Retention	RETENTION	PROTECT	Normal	No capacity	LTO	---	---
Primary	TAPPOOL	PROTECT	Normal	No capacity	LTO	---	---
Container	CONTAINER_REPL...	PROTECTSITE2	Normal	17.0 GB / 331.0 GB	---	Directory	96
Primary	OVERFLOW_SPOKE	PROTECTSITE2	Normal	No capacity	FILESPOKE	---	---



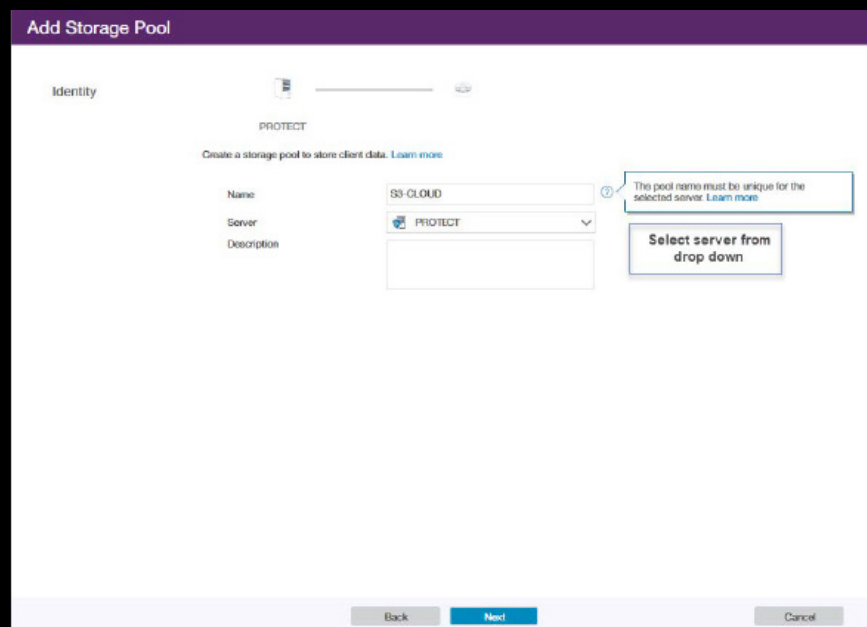
Step 3: Create Storage Pool Type

At the **Type** step of the wizard, select “General” to configure a cloud container storage pool.



Step 4: Create Cloud Container Identity

At the **Identity** step of the wizard, specify a name for the storage pool and the server.



Step 5: Specify Storage Pool Type

At the **Type** step of the wizard, select “Off-Premises Cloud” to configure a cloud-container storage pool in Lyve Cloud.

The screenshot shows the 'Add Storage Pool' wizard at the 'Type' step. The progress bar indicates the 'Type' step is active. The 'PROTECT' and 'S3-CLOUD' tabs are visible. The 'S3-CLOUD' tab is selected. The instructions state: 'Choose the type of pool that best supports your business goals. [Learn more](#)'. A tip box says: 'To copy data from an existing directory-container pool, cancel the wizard, select the pool, and click More > Add Container-copy Pool.' The 'Container-based storage' section has three options: 'Directory' (File-based storage on disk with optional copy pools), 'On-premise cloud' (Object-based storage that is managed by internal IT staff in your data center. For example, IBM Cloud Object Storage and other certified S3 providers), and 'Off-premises cloud' (Storage in vendor-managed repositories, using IBM Cloud, OpenStack Swift, Amazon S3, or Microsoft Azure). The 'Off-premises cloud' option is selected and highlighted with a red box. The 'Traditional volume-based storage' section has three options: 'Disk (primary)' (Storage on disk or in a mountable deduplicating appliance), 'Tape (primary)' (Storage on tape or in a deduplicating VTL), and 'Tape (copy)' (Copies of primary storage on tape or in a VTL). The 'Back', 'Next', and 'Cancel' buttons are at the bottom.

Step 6: Add Credentials

At the **Credentials** step of the wizard, enter connection information.

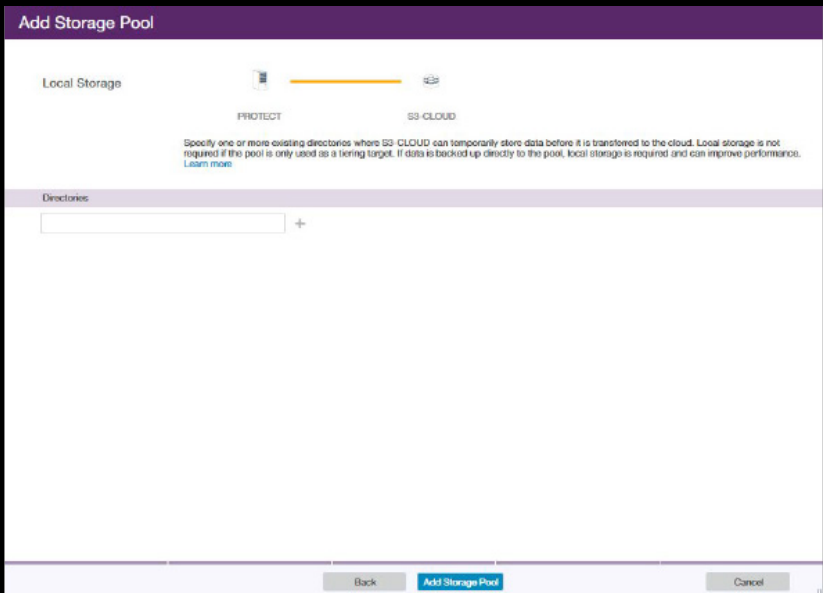
The screenshot shows the 'Add Storage Pool' wizard at the 'Credentials' step. The progress bar indicates the 'Credentials' step is active. The 'PROTECT' and 'S3-CLOUD' tabs are visible. The 'S3-CLOUD' tab is selected. The instructions state: 'Select the cloud type and enter connection information for accessing the cloud. [Learn more](#)'. The 'Pool type' is 'Off-premises cloud'. The 'Encryption' checkbox is checked and labeled 'Enable'. The 'Cloud type' dropdown is set to 'Amazon - S3 API'. The 'Access key ID' and 'Secret access key' fields are empty and marked with red asterisks. A red box highlights these fields with the text 'Add Lyve Cloud Access Key and Secret Key'. The 'Bucket name' field is empty. The 'Region' dropdown is empty. The 'URL' field is empty. The 'Cloud storage class' dropdown is set to 'S3 Standard'. A red box highlights this dropdown with the text 'Select cloud storage class based on your use case.' The 'Back', 'Next', and 'Cancel' buttons are at the bottom.

- Enter the Access Key ID and Secret Access Key stored from Task 1, Step 3 when Creating a Service Account.
- Select the preferred cloud storage class based on the use case.



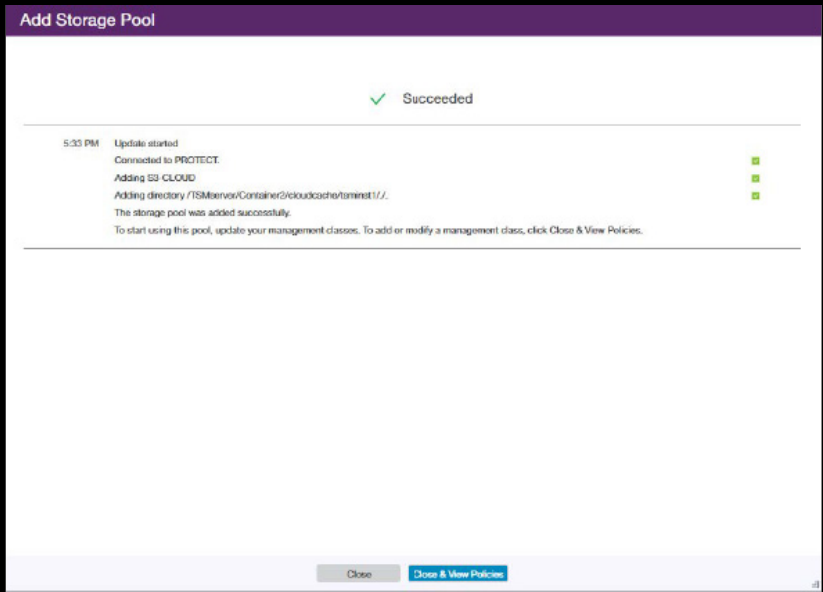
Step 7: Add Local Storage

At the **Local Storage** step of the wizard, specify existing file system directories for disk storage.



Step 8: Finish Working with Wizard

At the **Summary** step of the wizard, review configuration.



Close the wizard and view “Policies” to start using the new data pool.

Conclusion: Safeguard Backups for Restores and Compliance

With IBM Spectrum Protect and Seagate Lyve Cloud, enterprises will receive the best backup solution for their business storage needs. The joint solution provides a simple, scalable, and secure approach across multiple workloads designed for each organization—all while utilizing a cost-effective and agile method to harness data to its full potential towards a business transformation.

Ready to Learn More? Visit us at seagate.com/lyvecloud

For more information on IBM Spectrum Protect visit:

<https://www.ibm.com/products/data-protection-and-recovery>

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