Handling of S3 Buckets

With the S3 adapter, you can create, delete and list buckets of an S3 endpoint, and retrieve contents and status information of a bucket.

- Creating a Bucket
- Listing all Available Buckets
- Deleting a Bucket
- Reading the Contents of a Bucket
- Retrieving Bucket Information

Creating a Bucket

Using the **createBucket** operation of the S3 adapter, you can create a new bucket to the S3 endpoint.

Name	Type	Direction	Description	Allowed Values / Examples
bucketName	String	in	Name of the bucket to create. ⓘ The name of the bucket should be prefixed with the PAS client.	If a bucket with the same name is already existing or if the bucket name does not match the S3 bucket naming rules, an exception is thrown. **pas-doc-examples**

> ⓘ We recommend to prefix bucket name with the PAS client code (e.g. **pas-test**) because multiple PAS clients may use the same S3 installation.

Listing all Available Buckets

Using the **listBuckets** operation of the S3 adapter, you can get a list of all buckets that are available from the S3 endpoint.

Name	Type	Direction	Description	Allowed Values / Examples
bucketNames	Array of String	out	List of buckets that are available from the specified S3 endpoint.	

Deleting a Bucket

Using the **deleteBucket** operation of the S3 adapter on a bucket, you can delete a bucket from your S3 endpoint. In case the bucket is not empty, you need to set **deleteRecursively** to true to remove the bucket and all of its contents - otherwise you will get an exception.

Name	Type	Direction	Description	Allowed Values / Examples	
bucketName	String	in	Name of the bucket to delete.	There will be no exception if the bucket you want to delete is not existing.	
deleteRecursively	Boolean	in	With S3, as a rule, only empty buckets can be deleted. Specify here whether to delete the bucket and all of its contents in one go.	true	Delete the bucket and all its contents.
				false	Bucket must be empty to be deleted (default).

Reading the Contents of a Bucket

Using the **listObjects** operation of the S3 adapter, you can get a list of all objects that are contained in the given bucket.

- `listObjects ( bucketName: String, objectNames: String[] )`

Name	Type	Direction	Description	Allowed Values / Examples
bucketName	String	in	Name of the bucket to list the contents of.	If the bucket is not existing, an exception is thrown.

objectNam es	Array of String	out	List of objects that reside within the given bucket.	

Retrieving Bucket Information

Using the **bucketStatus** operation of the S3 adapter, you can get some general information on the bucket including a list of its contained objects.

Name	Type	Direction	Description	Allowed Values / Examples
bucketNa me	String	in	Name of the bucket to get the status of.	
bucketStat us	BucketStat us	out	Object containing the status information as described furt her below.	

The returned status information has the following structure:

Attribute	Type	Description
name	String	Name of the bucket.
size	Integer	Size of the bucket in bytes.
containedObjects	Array of String	List of objects that reside within the bucket.
creationDate	DateTime	Creation timestamp of the bucket.