

Tutorial: Getting Started with OOS Using AWS CLI

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The aim of this tutorial is to present the main operations possible with OUTSCALE Object Storage (OOS) using AWS CLI.



These operations are not presented in their comprehensive form. For more information, see the linked complete procedures.

For more information on AWS CLI commands, see the AWS [s3api](#) and [s3](#) documentations.

Related Pages

- [About Object Storage](#)
- [About Tools to Use Object Storage](#)
- [Installing and Configuring AWS CLI](#)

Before You Begin

- Install and configure AWS CLI and set up your profile. For more information, see [Installing and Configuring AWS CLI](#).
- The requests presented in this guide require the following attributes:
 - `profile`: The named profile you want to use, created when configuring AWS CLI.
 - `endpoint`: The endpoint corresponding to the service (in this case `oos`) and Region you want to send the request to.

Creating a Bucket

Creating a Bucket

- To create a bucket, use the **create-bucket** command following this syntax:

Request sample

```
$ aws s3api create-bucket \  
  --profile YOUR_PROFILE \  
  --bucket BUCKET \  
  --endpoint https://oos.<REGION>.outscale.com
```

This command contains the following attribute that you need to specify:

- `bucket`: The name you want to give to your bucket, according to the corresponding naming rules.



As a reminder, the name of a bucket must:

- Be unique for the whole Region
- Contain between 3 and 63 characters
- Contain only lowercase characters, numbers and hyphens (-)
- Start with an alphanumeric character

The bucket is created.



For more information, see the complete [Creating a Bucket](#) procedure, or the AWS [create-bucket](#) documentation.

Uploading an Object to a Bucket

Uploading an Object to a Bucket

- To upload a local object in a bucket, use the **put-object** command following this syntax:

Request Sample

```
$ aws s3api put-object \  
  --profile YOUR_PROFILE \  
  --bucket BUCKET \  
  --key OBJECT \  
  --body usr/bin/OBJECT \  
  --endpoint https://oos.<REGION>.outscale.com
```

This command contains the following attributes that you need to specify:

- **bucket**: The bucket in which you want to upload the object.
- **key**: The name you want to give to the object in the bucket.
- **body**: The access path to the object on your machine.

The object is uploaded to the bucket.



For more information, see the complete [Uploading an Object to a Bucket](#) procedure, or the AWS [put-object](#) documentation.

Configuring a Bucket ACL

Configuring a Bucket ACL

- To configure the ACL of a bucket, use the **put-bucket-acl** command following this syntax:

Request Sample

```
$ aws s3api put-bucket-acl \  
  --profile YOUR_PROFILE \  
  --bucket BUCKET \  
  --grant-read id=S3_USER_ID \  
  --endpoint https://oos.<REGION>.outscale.com
```

This command contains the following attributes that you need to specify:

- **bucket**: The bucket in which you want to upload the object.
- (optional) **grant-read id**: The S3 ID of the user to which you grant the `read` permission.



To retrieve S3 user IDs, you need to use the [Listing Your Buckets](#) or [Listing the Objects of a Bucket](#) methods.

The ACL is configured for the bucket.



For more information, see the complete [Configuring a Bucket ACL](#) procedure, or the AWS [put-bucket-acl](#) documentation.

Configuring an Object ACL

Configuring an Object ACL

- To set the ACL for an object, use the **put-object-acl** command following this syntax:

Request Sample

```
$ aws s3api put-object-acl \  
  --profile YOUR_PROFILE \  
  --bucket BUCKET \  
  --key OBJECT \  
  --grant-read id=S3_USER_ID \  
  --endpoint https://oos.<REGION>.outscale.com
```

This command contains the following attributes that you need to specify:

- **bucket**: The bucket in which you want to upload the object.
- **key**: The name of the object in the bucket.
- **grant-read id**: The S3 ID of the user to which you grant the `read` permission.



To retrieve S3 user IDs, you need to use the [Listing Your Buckets](#) or [Listing the Objects of a Bucket](#) methods.

The ACL is configured for the object.



For more information, see the complete [Configuring an Object ACL](#) procedure, or the [AWS `put-object-acl`](#) documentation.

Configuring a Pre-signed URL

Configuring a Pre-signed URL

- To configure a pre-signed URL, use the **presign** command following this syntax:

Request Sample

```
$ aws s3 presign s3://BUCKET/OBJECT \  
  --profile YOUR_PROFILE \  
  --expires-in 3600 \  
  --endpoint ENDPOINT
```

This command contains the following attributes that you need to specify:

- **s3://BUCKET/OBJECT**: The path to the object you want to share in the bucket.
- **expires-in**: The time left before the URL expires, in seconds.



For more information, see the complete [Configuring a Pre-signed URL](#) procedure, or the [AWS `presign`](#) documentation.

Creating a Website

Creating a Website

1. Copy an **index.html** object in your bucket and configure a `public-read` ACL:

Request Sample

```
$ aws s3 cp index.html s3://BUCKET/ \  
  --profile YOUR_PROFILE \  
  --acl public-read \  
  --endpoint https://oos.<REGION>.outscale.com
```

2. Copy an **error.html** object in your bucket and configure a `public-read` ACL:

Request Sample

```
$ aws s3 cp error.html s3://BUCKET/ \  
  --profile YOUR_PROFILE \  
  --acl public-read \  
  --endpoint https://oos.<REGION>.outscale.com
```

3. Create a **website.json** file with the following content:

```
{  
  "IndexDocument": {  
    "Suffix": "index.html"  
  },  
  "ErrorDocument": {  
    "Key": "error.html"  
  }  
}
```

4. Copy the **website.json** file in your bucket and configure a `public-read` ACL:

Request Sample

```
$ aws s3 cp website.json s3://BUCKET/ \  
  --profile YOUR_PROFILE \  
  --acl public-read \  
  --endpoint https://oos.<REGION>.outscale.com
```

5. Create your website with the **website** command following this syntax:

Request Sample

```
$ aws s3 website s3://BUCKET/ \  
  --profile YOUR_PROFILE \  
  --index-document index.html \  
  --error-document error.html \  
  --endpoint https://oos.<REGION>.outscale.com
```

Your website is created and accessible with the following address format: **https://<BUCKET>.oos-website.<REGION>.outscale.com**



For more information about the corresponding s3 commands, see the [AWS cp](#) and [website](#) documentations.

s3api/OOS Compatibility

s3api Command	Operation Type	Supported by OOS
delete-bucket	Bucket	✓
get-bucket-versioning	Bucket	✓
get-bucket-location	Bucket	✓
list-objects	Bucket	✓
list-object-versions	Bucket	✓
head-bucket	Bucket	✓
create-bucket	Bucket	✓
put-bucket-versioning	Bucket	✓
get-bucket-acl	Bucket	✓
put-bucket-acl	Bucket	✓
list-multipart-uploads	Bucket	✓
put-bucket-website	Bucket	✓
get-bucket-website	Bucket	✓
delete-bucket-website	Bucket	✓
delete-bucket-policy	Bucket	✓
get-bucket-replication	Bucket	✓
get-bucket-policy	Bucket	✓
put-bucket-policy	Bucket	✓
delete-object	Objet	✓
get-object	Objet	✓
get-object-acl	Objet	✓
put-object	Objet	✓
copy-object	Objet	✓
create-multipart-upload	Multipart upload	✓
upload-part	Multipart upload	✓
upload-part-copy	Multipart upload	✓
complete-multipart-upload	Multipart upload	✓
abort-multipart-upload	Multipart upload	✓
list-parts	Multipart upload	✓

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