

PHP S3 EXAMPLES

CREATING A CONNECTION

This creates a connection so that you can interact with the server.

```
<?php
define('AWS_KEY', 'place access key here');
define('AWS_SECRET_KEY', 'place secret key here');
define('AWS_CANONICAL_ID', 'your DHO Username');
define('AWS_CANONICAL_NAME', 'Also your DHO Username!');
$HOST = 'objects.dreamhost.com';

// require the amazon sdk for php library
require_once 'AWSSDKforPHP/sdk.class.php';

// Instantiate the S3 class and point it at the desired host
$Connection = new AmazonS3(array(
    'key' => AWS_KEY,
    'secret' => AWS_SECRET_KEY,
    'canonical_id' => AWS_CANONICAL_ID,
    'canonical_name' => AWS_CANONICAL_NAME,
));
$Connection->set_hostname($HOST);
$Connection->allow_hostname_override(false);

// Set the S3 class to use objects.dreamhost.com/bucket
// instead of bucket.objects.dreamhost.com
$Connection->enable_path_style();
```

LISTING OWNED BUCKETS

This gets a list of CFSimpleXML objects representing buckets that you own. This also prints out the bucket name and creation date of each bucket.

```
<?php
$ListResponse = $Connection->list_buckets();
$Buckets = $ListResponse->body->Buckets->Bucket;
foreach ($Buckets as $Bucket) {
    echo $Bucket->Name . "\t" . $Bucket->CreationDate . "\n";
}
```

The output will look something like this:

```
mahbuckat1    2011-04-21T18:05:39.000Z
mahbuckat2    2011-04-21T18:05:48.000Z
mahbuckat3    2011-04-21T18:07:18.000Z
```

CREATING A BUCKET

This creates a new bucket called my-new-bucket and returns a CFResponse object.

Note: This command requires a region as the second argument, so we use AmazonS3::REGION_US_E1, because this constant is ''

```
<?php
$Connection->create_bucket('my-new-bucket', AmazonS3::REGION_US_E1);
```

LIST A BUCKET'S CONTENT

This gets an array of CFSimpleXML objects representing the objects in the bucket. This then prints out each object's name, the file size, and last modified date.

```
<?php
$ObjectsListResponse = $Connection->list_objects($bucketname);
$Objects = $ObjectsListResponse->body->Contents;
foreach ($Objects as $Object) {
    echo $Object->Key . "\t" . $Object->Size . "\t" . $Object->LastModified . "\n";
}
```

Note: If there are more than 1000 objects in this bucket, you need to check `$ObjectListResponse->body->isTruncated` and run again with the name of the last key listed. Keep doing this until `isTruncated` is not true.

The output will look something like this if the bucket has some files:

```
myphoto1.jpg 251262 2011-08-08T21:35:48.000Z
myphoto2.jpg 262518 2011-08-08T21:38:01.000Z
```

DELETING A BUCKET

This deletes the bucket called `my-old-bucket` and returns a `CFResponse` object

Note: The Bucket must be empty! Otherwise it won't work!

```
<?php
$Connection->delete_bucket('my-old-bucket');
```

FORCED DELETE FOR NON-EMPTY BUCKETS

This will delete the bucket even if it is not empty.

```
<?php
$Connection->delete_bucket('my-old-bucket', 1);
```

CREATING AN OBJECT

This creates an object `hello.txt` with the string "Hello World!"

```
<?php
$Connection->create_object('my-bucket-name', 'hello.txt', array(
    'body' => "Hello World!",
));
```

CHANGE AN OBJECT'S ACL

This makes the object `hello.txt` to be publicly readable and `secret_plans.txt` to be private.

```
<?php
$Connection->set_object_acl('my-bucket-name', 'hello.txt', AmazonS3::ACL_PUBLIC);
$Connection->set_object_acl('my-bucket-name', 'secret_plans.txt', AmazonS3::ACL_PRIVATE);
```

DELETE AN OBJECT

This deletes the object goodbye.txt

```
<?php
$Connection->delete_object('my-bucket-name', 'goodbye.txt');
```

DOWNLOAD AN OBJECT (TO A FILE)

This downloads the object poetry.pdf and saves it in /home/larry/documents/

```
<?php
$FileHandle = fopen('/home/larry/documents/poetry.pdf', 'w+');
$Connection->get_object('my-bucket-name', 'poetry.pdf', array(
    'fileDownload' => $FileHandle,
));
```

GENERATE OBJECT DOWNLOAD URLs (SIGNED AND UNSIGNED)

This generates an unsigned download URL for hello.txt. This works because we made hello.txt public by setting the ACL above. This then generates a signed download URL for secret_plans.txt that will work for 1 hour. Signed download URLs will work for the time period even if the object is private (when the time period is up, the URL will stop working).

```
<?php
my $plans_url = $Connection->get_object_url('my-bucket-name', 'hello.txt');
echo $plans_url . "\n";
my $secret_url = $Connection->get_object_url('my-bucket-name', 'secret_plans.txt', '1 hour');
echo $secret_url . "\n";
```

The output of this will look something like:

```
http://objects.dreamhost.com/my-bucket-name/hello.txt
http://objects.dreamhost.com/my-bucket-name/secret_plans.txt?Signature=XXXXXXXXXXXXXXXXXXXXX
```