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Amazon S3 compatible service

Public access S3 bucket

```
{
  "Version" : "2012-10-17",
  "Statement" : [
    {
      "Effect" : "Allow",
      "Principal" : {
        "AWS" : [ "*" ]
      },
      "Action" : [ "s3:GetBucketLocation", "s3:ListBucket" ],
      "Resource" : [ "arn:aws:s3:::public" ]
    },
    {
      "Effect" : "Allow",
      "Principal" : {
        "AWS" : [ "*" ]
      },
      "Action" : [ "s3:GetObject" ],
      "Resource" : [ "arn:aws:s3:::public/*" ]
    }
  ]
}
```

Access by username/password

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "allow-username-and-password-access",
      "Effect": "Allow",
      "Principal": {
        "AWS": "*"
      },
      "Action": [
        "s3:PutObject",
        "s3:GetObject"
      ],
      "Resource": "arn:aws:s3:::BUCKETNAME/*",
      "Condition": {
        "StringEquals": {
          "aws:UserAgent": "USERNAME",
          "aws:Referer": "PASSWORD"
        }
      }
    }
  ]
}
```

```
curl --user-agent USERNAME --referer PASSWORD --upload-file "FILENAME" --request PUT
"https://s3-AWS_REGION.amazonaws.com/BUCKETNAME/FILENAME"
```

```
curl --user-agent USERNAME --referer PASSWORD
"https://s3-AWS_REGION.amazonaws.com/BUCKETNAME/FILENAME" > FILENAME
```

Generate time expiration link

```
<?php

if(!function_exists('el_crypto_hmacSHA1')){
    /**
     * Calculate the HMAC SHA1 hash of a string.
     *
     * @param string $key The key to hash against
     * @param string $data The data to hash
     * @param int $blocksize Optional blocksize
     * @return string HMAC SHA1
     */
    function el_crypto_hmacSHA1($key, $data, $blocksize = 64) {
        if (strlen($key) > $blocksize) $key = pack('H*', sha1($key));
        $key = str_pad($key, $blocksize, chr(0x00));
        $ipad = str_repeat(chr(0x36), $blocksize);
        $opad = str_repeat(chr(0x5c), $blocksize);
        $hmac = pack( 'H*', sha1(
            ($key ^ $opad) . pack( 'H*', sha1(
                ($key ^ $ipad) . $data
            )
        )
    ));
    return base64_encode($hmac);
}

if(!function_exists('el_s3_getTemporaryLink')){
    /**
     * Create temporary URLs to your protected Amazon S3 files.
     *
     * @param string $accessKey Your Amazon S3 access key
     * @param string $secretKey Your Amazon S3 secret key
     * @param string $bucket The bucket (bucket.s3.amazonaws.com)
     * @param string $path The target file path
     * @param int $expires In minutes
     * @return string Temporary Amazon S3 URL
     * @see http://awsdocs.s3.amazonaws.com/S3/20060301/s3-dg-20060301.pdf
     */
    function el_s3_getTemporaryLink($accessKey, $secretKey, $bucket, $path, $expires = 5) {
        // Calculate expiry time
        $expires = time() + intval(floatval($expires) * 60);
        // Fix the path; encode and sanitize
        $path = str_replace('%2F', '/', rawurlencode($path = ltrim($path, '/')));
        // Path for signature starts with the bucket
        $signpath = '/' . $bucket . '/' . $path;
        // S3 friendly string to sign
        $signsz = implode("\n", $pieces = array('GET', null, null, $expires, $signpath));
        // Calculate the hash
        $signature = el_crypto_hmacSHA1($secretKey, $signsz);
        // Glue the URL ...
        $url = sprintf('http://%s.s3.amazonaws.com/%s', $bucket, $path);
        // ... to the query string ...
        $qs = http_build_query($pieces = array(
            'AWSAccessKeyId' => $accessKey,
            'Expires' => $expires,
            'Signature' => $signature,
        ));
        // ... and return the URL!
        return $url.'?'.$qs;
    }
}
```

```
}
```

```
?>
```

```
<?php echo eL_s3_getTemporaryLink('your-access-key', 'your-secret-key', 'bucket-name',  
'/path/to/file.mov'); ?>
```

S3 access using CLI

```
aws configure  
aws --endpoint-url=http://ceph-RGW-IP:7480 s3api list-buckets
```

S3 LifeCycle

```
{  
  "Rules": [  
    {  
      "ID": "Removing all old versions",  
      "Filter": {  
        "Prefix": "/"  
      },  
      "Expiration": {  
        "ExpiredObjectDeleteMarker": true  
      },  
      "DelMarkerObjectExpiration": {  
        "Days": 10  
      },  
      "NoncurrentVersionExpiration": {  
        "NewerNoncurrentVersions": 1,  
        "NoncurrentDays": 1,  
        "expiredObjectDeleteMarker": "true"  
      },  
      "Status": "Enabled"  
    }  
  ]  
}
```

```
/mnt/sdc/mc mirror s3/public local/backup --overwrite --remove  
/mnt/sdc/mc rm local/backup --non-current --recursive --versions --older-than 31d0hh0mm0ss --  
force
```

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