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# Amazon S3 compatible service

## 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 ...
$qqs = http_build_query($pieces = array(
    'AWSAccessKeyId' => $accessKey,
    'Expires' => $expires,
    'Signature' => $signature,
));
// ... and return the URL!
return $url.'?'.$qqs;
}
}
?>
```

```
<?php echo el_s3_getTemporaryLink('your-access-key', 'your-secret-key',
'bucket-name', '/path/to/file.mov'); ?>
```

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