

Encrypted Web Page Downloader with PHP

Although the author and publisher have made every effort to ensure that the information in this writing was correct at press time, the author and publisher do not assume and hereby disclaim any liability to any party for any loss, damage, or disruption caused by errors or omissions, whether such errors or omissions result from negligence, accident, or any other cause. Some of the links in this writing are affiliate links. The writer and/or publisher will earn a commission if you make a purchase through the link.

advertisement

Fully Managed VPS Hosting

Big or small, website or application - there is a VPS configuration for you.

[Click here](#)

We hate prying eyes. Unfortunately, the process of displaying the content of a web page on our local computer involves numerous points. To avoid unwanted interference, we will build a secure web page downloader. For this purpose, we need a remote server. It is the remote server that will fetch the web page. The content of the page is then encrypted on the server before being downloaded and decrypted on your PC.

As for the remote server, I use Dreamhost. I never have any problem with the web host company. [Click here](#) (#aff link) to find out more about DreamHost.

Here are the scripts:

pwdtest.php

```
<?php
$pwd = 'kklalskd899122sak';
?>
```

pagedownloader.php

```

<?php
include('../..//pwdtest.php');

$url = 'http://www.domain.com/webpage1.html';

$lines_array=file($url); //lines array
$html=implode('',$lines_array);

$cipher_method = 'aes-128-ctr';
$enc_key = openssl_digest($pwd, 'SHA256', TRUE);
$enc_iv = openssl_random_pseudo_bytes(openssl_cipher_iv_length($cipher_method));
$encrypted_token = openssl_encrypt($html, $cipher_method, $enc_key, 0, $enc_iv) . ':::'.
bin2hex($enc_iv);
unset($html, $cipher_method, $enc_key, $enc_iv);

$file = 'page.txt';
$fp = fopen($file, 'w');
fwrite($fp, $encrypted_token);
fclose($fp);
?>

```

pagereader.php

```

<?php
$file = 'page.txt';

$fp = fopen($file, 'r');
$html = fread($fp, filesize($file));
fclose($fp);

$pwd = 'kklalskd899122sak';

list($html, $enc_iv) = explode(':::', $html);
$cipher_method = 'aes-128-ctr';
$enc_key = openssl_digest($pwd, 'SHA256', TRUE);
$token = openssl_decrypt($html, $cipher_method, $enc_key, 0, hex2bin($enc_iv));
unset($html, $cipher_method, $enc_key, $enc_iv);
print(htmlentities($token));
?>

```

Explanation

The file *pwdtest.php* and *pagedownloader.php* reside on the remote server. As you can guess, the downloading process is performed by the file *pagedownloader.php*. To keep the encryption key secure, store it in a separate file *pwdtest.php* and put the file above the root directory of your website so that it cannot be easily accessed. You will use the same key (password) in order to perform decryption. [Click here](#) for further explanation. PHP output is redirected to a text file, *page.txt*. It is the file that will be transferred (downloaded) from the server to the local machine.

Decrypting the encrypted page is performed with the help of the file *pagereader.php*. To execute the file you will need a local webserver (i.e. xampp for windows or apache for linux). Just download the software and install it on your computer. Put the file *pagereader.php* in the appropriate directory and execute it via a web browser. If everything works well than the HTML code of the page will be displayed like this:

