

Using PHP “openssl_encrypt” and “openssl_decrypt” to Encrypt and Decrypt Data

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1 <?php
2 // $key is our base64 encoded 256bit key that we created earlier. You will probably store and define this key in a config file.
3 $key='bRuD5WYw5wd0rdHR9yLIM6wt2vteuiniQBqE70nAuhU=';
4
5 function my_encrypt($data,$key){
6     // Remove the base64 encoding from our key
7     $encryption_key=base64_decode($key);
8     // Generate an initialization vector
9     $iv=openssl_random_pseudo_bytes(openssl_cipher_iv_length('aes-256-cbc'));
10    // Encrypt the data using AES 256 encryption in CBC mode using our encryption key and initialization vector.
11    $encrypted=openssl_encrypt($data,'aes-256-cbc',$encryption_key,0,$iv);
12    // The $iv is just as important as the key for decrypting, so save it with our encrypted data using a unique separator (:)
13    return base64_encode($encrypted.':'.$iv);
14 }
15
16 function my_decrypt($data,$key){
17    // Remove the base64 encoding from our key
18    $encryption_key=base64_decode($key);
19    // To decrypt, split the encrypted data from our IV - our unique separator used was ":"
20    list($encrypted_data,$iv)=explode(':',base64_decode($data),2);
21    return openssl_decrypt($encrypted_data,'aes-256-cbc',$encryption_key,0,$iv);
22 }
23
24 //our data to be encoded
25 $password_plain='abc123';
26 echo $password_plain."<br>";
27
28 //our data being encrypted. This encrypted data will probably be going into a database
29 //since it's base64 encoded, it can go straight into a varchar or text database field without corruption worry
30 $password_encrypted=my_encrypt($password_plain,$key);
31 echo $password_encrypted."<br>";
32
33 //now we turn our encrypted data back to plain text
34 $password_decrypted=my_decrypt($password_encrypted,$key);
35 echo $password_decrypted."<br>";
```

Reference:

https://bhoover.com/using-php-openssl_encrypt-openssl_decrypt-encrypt-decrypt-data/

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