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PHP encryption symmetric program example using crypt to store password in a text file

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Q. Symmetric encryption is a type of encryption where the same key is used to encrypt and decrypt the message. Can you explain how do I use symmetric encryption under PHP to store password in a text file and authenticate the user?

A. Symmetric encryption differs from asymmetric (also known as public-key) encryption, which uses one key to encrypt a message and another to decrypt the message.

PHP `crypt()` will return an encrypted string using the standard Unix DES-based encryption algorithm or alternative algorithms that may be available on the system. Arguments are a string to be encrypted and an optional salt string to base the encryption on. See the Unix man page for your `crypt` function for more information.

Syntax:

string crypt (string \$str [, string \$salt])

Consider following example.

`$en_password` : Stores encrypted password. You need to store this in database or flat text file.

`$userPasswordInput` : Holds user provided / supplied password via HTML page

If command is use to check encrypted password (hash) with user supplied password.

```
<?php
//Standard DES-based encryption with a two character salt called 'ge'
$en_password = crypt('secrete','ge');

if (crypt($userPasswordInput, $en_password) == $en_password) {
    echo "Password verified, you can login!";
}
?>
```

PHP Function to write / store password to a file called `/home/secure/.password`

```
function updateAdminLoginPassword($new) {
    $encryptedPassword;
    //This is Blowfish encryption with a sixteen character salt starting with or $2a$
    $encryptedPassword = crypt($new, '$2a$didIL...fpSd78..$');
    // Open the file and erase the contents if any
    $fp = fopen("/home/secure/.password", "w");
    // Write the data to the file
    fwrite($fp, $Password);
    // Close the file
    fclose($fp);
    echo '<h3>Password has been updated!<h3>';
    echo '<SCRIPT>alert(\'Password changed! You must login again to use new password\');</SCRIPT>';
    /* resetSession(); */
}
```

Function to verify a password (note we are using hash in both functions `$2a$didIL...fpSd78..$`):

```
function verifyPassword($password)
{
    $username= "admin";
    $encryptedpasswd="";
    // read encrypted password
    $fp = fopen("/home/secure/.password", "r");
    while ( $line = fgets($fp, 1000) ) { $encryptedpasswd=$line; }
```

```
if ( $_POST["username"] == $username && (crypt($password,'$2a$didIL...fpSd78..$') == $enc
{ // allow login
    session_start(); //Initialize session data
    //store user login name and password
    $_SESSION['user'] = $username;
    $_SESSION['pwd'] = $encryptedpasswd;
    // display main menu
    header( "Location: /welcome.php" );
}
else
{
    // password is not correct or session expired due to password change
    header( "Location: /login.php?sessionnotfound=1" );
}
}
```

Above examples just provides you idea about php password encryptions and hash. You must consider other factors such as SSL http session, MD5 password / hash and mysql database to store password has etc.

Further readings:

- [PHP crypt\(\)](#) ^[2]
- [PHP's Encryption Functionality](#) ^[3]

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[1] Image: <http://www.cyberciti.biz/faq/faq/category/php/>

[2] PHP crypt(): <http://php.net/crypt>

[3] PHP's Encryption Functionality: <http://www.onlamp.com/pub/a/php/2001/07/26/encrypt.html>