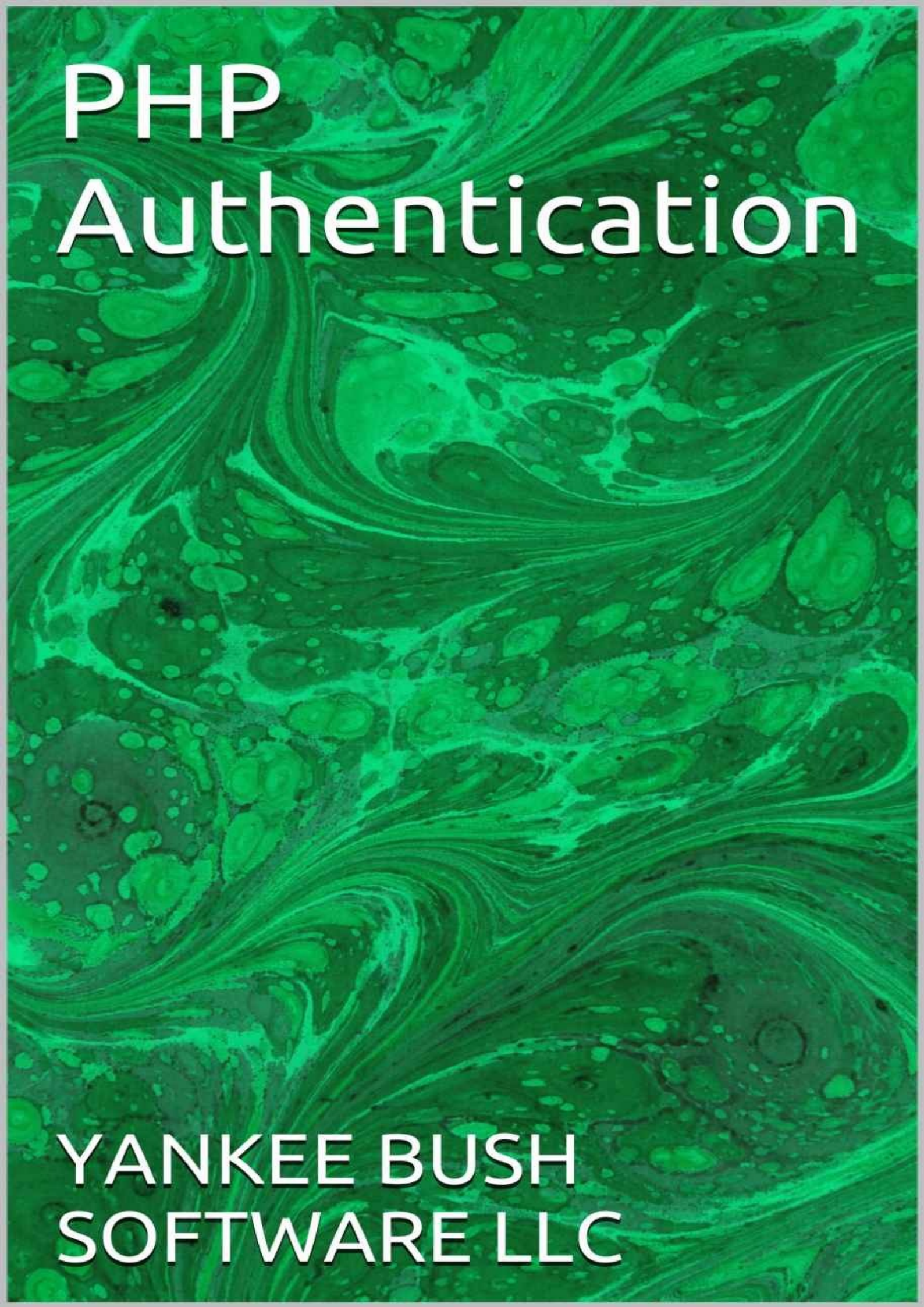


The background of the entire page is a vibrant green marbled pattern. It features intricate, swirling, and veined textures in various shades of green, from deep forest green to lighter, almost lime green, creating a complex and organic visual effect.

PHP Authentication

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Instructions

This program uses the MySQL 'encrypt()' function to encrypt and match passwords.

It uses the user's username as a salt. Once a match is confirmed, an MD5 checksum is generated and all three identifiers are set in a cookie on the user's machine. Expiration time on the cookie is configurable.

Required Software:

PHP 3.0.8 or greater, with a 3.22.x or newer version of MySQL. PHP needs to be compiled with the `--with-mysql` option for database connectivity to work. See the PHP documentation for more information. (see <http://www.mysql.com> and <http://www.php.net>)

Apache with PHP compiled in as a module.

(see <http://www.apache.org> and <http://www.php.net> for more info)

Installation Instructions:

Copy `auth.inc` and `htmldoc.inc` to a directory **outside** of your html document tree.

If you have a MySQL database already created that you wish to have the ACL (access list) table created in, start the mysql client and connect to the database. Otherwise, you must create a database. See MySQL documentation for information on doing this.

Once you have the mysql client open and connected to the database you want to use, issue the following command:

```
CREATE TABLE acl (  
    id int(16) DEFAULT '0' NOT NULL auto_increment,  
    username varchar(16) DEFAULT '' NOT NULL,
```

```
password varchar(16) DEFAULT '' NOT NULL,  
staffname varchar(32) DEFAULT '' NOT NULL,  
string varchar(100),  
  
PRIMARY KEY (id)  
  
);
```

Next, you must add a user. The command for this is:

```
INSERT INTO acl ( username, password ) VALUES ( 'the_username',  
encrypt('the_password','the_username') );
```

alternatively, if you want to use the 'staffname' field, or some other field that you add on your own:

```
INSERT INTO acl ( username, password, staffname ) VALUES ( 'the_username',  
encrypt('the_password','the_username'), 'John Doe' );
```

Here's where you need to make a decision. You have two ways of making this script “work” with your website.

“Every single page on this server or virtual host is private and must be password protected!!”

If this is your case, add a line inside your <VirtualHost> directive like this, and then restart Apache:

```
php3_auto_prepend_file /path/to/auth.inc
```

This is very useful. It will automatically prepend the auth script to every php document requested through this virtual host. Everything is protected.

“But we only need some pages to be private!” Ok.. then you have to put the following line inside of every php document you want protected.

```
<? require('/path/to/auth.inc'); ?>
```

Next, edit the auth.inc file and change the variables near the top of the script. Then do:

```
chmod 755 auth.inc htmldoc.inc
```


Source Code Files

Auth Include File

```
<?

//How this script works:

//      Username and password are checked for authenticity.

//          If success:

//              Generate a MD5 string from TIME()

//              Store that string in the database for that user

//              Set that username, password, and string as a cookie on user's machine

//          If failure:

//              Log username and IP address to a file


//During subsequent page loads:

//      Retrieve data stored in cookie

//      Match all three fields stored in cookie with database info.

//          If success:

//              Page load may continue

//          Otherwise user is presented with login form


//New user query: “insert into acl (username, password) VALUES ('theusername',
encrypt('thepassword','theusername'));
```

```
//Change password query: “update acl set password=encrypt('mypass','theusername')
where username='theusername';”
```

```
// Database settings .. these must work!!
```

```
$db_hostname    = 'localhost';                //Server where MySQL is
running.
```

```
$db_user        = 'john';                    //Username to connect with.
```

```
$db_pass        = 'yourpass';                //Password to connect with.
```

```
define( “DATABASE”, “your_database” );        //Database name
where table 'acl' is located.
```

```
//Logging defines. Comment out the following two lines for no logging.
```

```
define( “BASE_DIR”, “/usr/local/myappdir” );    //Your site's base directory
(outside of docroot)
```

```
define( “AUTH_LOG”, BASE_DIR . “/logs/auth_log” );    //Filename/subdirectory of
logfile. Make sure the file
```

```
    // exists and is writeable by the owner of your webserver
```

```
    // process. Usually 'nobody'.
```

```
//define( “IMAGE”, “images/ourimage.jpg” );        //Image for the title page.
```

```
Comment out the line for none.
```

```
define( “TITLE”, “Please Login” );                //Title for the login page.
```

```
define( “EXPIRE”, 14400 );                //Seconds until the cookie expires.
```

```
$bg_color       = '#FFFFFF';
```

```
$text_color    = '#000000';
```

```
$link_color    = '#BC80C3';
```

```
$vlink_color   = '#BC80C3';
```

```
$alink_color   = '#9d9d9d';
```

```
function DisplayLoginForm ($err_string) {
```

```
    require('htmldoc.inc');
```

```
    global $THIS_URL;
```

```
    global $bg_color;
```

```
    global $text_color;
```

```
    global $link_color;
```

```
    global $vlink_color;
```

```
    global $alink_color;
```

```
    $html = new htmldoc();
```

```
    $html->printhead( $bg_color, $text_color, $link_color, $vlink_color, $alink_color,  
TITLE );
```

```
    ?>
```

```
<CENTER>
```

```
<? if (defined("IMAGE")) { ?>
```

```
<IMG SRC="<? echo $root_url . IMAGE?>" BORDER="0">
```

```
<? } ?>
```


<? echo \$err_string ?>

<FORM NAME=login ACTION=<? echo \$THIS_URL ?> METHOD=post>

<TABLE BORDER=0>

<TR>

<TD>Username:</TD>

<TD><INPUT NAME="username" TYPE="text" SIZE="10"></TD>

</TR>

<TR>

<TD>Password:</TD>

<TD><INPUT NAME="password" TYPE="password" SIZE="10"></TD>

</TR>

</TABLE>

<INPUT TYPE="submit" VALUE="Log in">

</FORM>

<?

\$html->printfooter();

exit;

}

function GenerateSecret (\$username, \$encrypted_password) {

```

$md5str = MD5( TIME() );

$cookie_val = “$username-$encrypted_password-$md5str”;

setcookie( “php_mini_auth”, $cookie_val, time()+EXPIRE);

$args = “update acl set string='$md5str' where username='$username'”;

$row = mysql_db_query( DATABASE, $arg );

}

function AuthenticateUser ( $username, $password ) {

    global $ip;

    global $host;

    global $referer;

    $arg = “select password, 1 as auth from acl where username='$username' and
password=encrypt('$password','$username')”;

    $row = mysql_fetch_array(mysql_db_query( DATABASE, $arg ));

    if ($row[auth]) {

        if (defined( “AUTH_LOG” ))

            error_log( date(“Ymd H:i:s”) . ” — $ip — Username: '$username' authenticated\n”, 3,
AUTH_LOG);

        GenerateSecret( $username, $row[password] );

    }

    else {

```

```

if (defined( "AUTH_LOG" ))

    error_log( date("Ymd H:i:s") . " — $ip — Username: '$username' authentication
failure\n", 3, AUTH_LOG);

    DisplayLoginForm( "Please log in .." );

}

}

```

```

function AuthenticateCookie ( $cookie, $username, $password ) {

    $cookie_var = split("-", $cookie);

    $ck_username = $cookie_var[0];

    $ck_password = $cookie_var[1];

    $secret = $cookie_var[2];

    $arg = "select 1 as auth from acl where username='$ck_username' and
password='$ck_password' and string='$secret'";

    $row = mysql_fetch_array(mysql_db_query( DATABASE, $arg ));

    if (!$row[auth])

        AuthenticateUser ( $username, $password );

    else return $ck_username;

}

```

```

mysql_connect($db_hostname,$db_user,$db_pass) or

    die("Unable to connect to the SQL server...");

$THIS_URL=getenv("SCRIPT_NAME");

```

```
$ip = getenv("REMOTE_ADDR");
```

```
$host = getenv("REMOTE_HOST");
```

```
$referer = getenv("REMOTE_REFERER");
```

```
if ($php_mini_auth)
```

```
    $username = AuthenticateCookie( $php_mini_auth, $username, $password );
```

```
    else
```

```
        if ($username)
```

```
            AuthenticateUser( $username, $password );
```

```
        else
```

```
            DisplayLoginForm( "Please log in ..." );
```

```
$result = mysql_db_query( DATABASE,"SELECT * from acl WHERE  
username='$username'");
```

```
$row=mysql_fetch_row($result);
```

```
?>
```


html doc include file

```
<?

class htmldoc

{

    //Class constructor.

    function htmldoc()

    {

        return;

    }

    function printhead ( $bg_color, $text_color, $link_color, $vlink_color, $alink_color,
$title )

    {

        ?>

<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML//EN">

<HTML><HEAD><TITLE><?php echo $title; ?></TITLE>

</HEAD>

<BODY bgcolor="<?php echo $bg_color; ?>"

    text="<?php echo $text_color; ?>"

    link="<?php echo $link_color; ?>"

    vlink="<?php echo $vlink_color; ?>"
```

```
alink="<?php echo $alink_color; ?>">
```

```
<?
```

```
}
```

```
function starttimer ( $root_url )
```

```
{
```

```
?>
```

```
<META http-equiv="Refresh" content="1800;URL=<?php echo $root_url; ?
```

```
>/logout.php3;TARGET=_top">
```

```
<?
```

```
}
```

```
function printfooter ()
```

```
{
```

```
?>
```

```
</BODY></HTML>
```

```
<?
```

```
}
```

```
}
```

```
?>
```

References

<http://www.phpselect.com/>

<https://www.gnu.org/copyleft/gpl.html>

