# NeverLan CTF 2018 Writeups



This is the writeups that my team and I solved for the NeverLan CTF 2018.

The writeups for the recon challenges **will not** be published as it is pure digging for information.

Have fun reading!

## **NeverLAN CTF**

Event starts at
Noon MST Feb 23<sup>rd</sup>,
and ends at
5PM MST on Feb 26<sup>th</sup>

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# ajax\_not\_soap—100 Points

First, let's view the page source.

We can see that the username is compared to webhooks/get\_username.php.
Upon navigation to that site, we find that the username is **MrClean**.

The flag can be found upon navigation to webhooks/get\_pass.php? username=MrClean.

```
flag{hj38dsjk324nkeasd9}
```

## the\_red\_or\_blue\_pill-100 Points

When we enter the challenge environment, we can see 2 links : red or blue.

Upon clicking the blue, <code>?blue</code> is appended to the back of the url. Since the challenge says we can't select both, I replaced <code>?blue</code> to <code>?blue&red</code> and the flag appeared.

```
\verb|flag{breaking_the_matrix...I_like_it!}|
```

## ajax\_not\_borax—200 Points

This challenge is very similar to the other ajax challenge. This just introduces md5 hashing.

```
<script type="text/javascript" type="text">
   // For element with id='name', when a key is pressed run this function
        $('#name').on('keypress',function(){
                // get the value that is in element with id='name'
var that = $('#name');
$.ajax('webhooks/get_username.php?username='+that.val(),{
                 }).done(function(data){ // once the request has been completed, run this function
                                data = data.replace(/(\r\n|\n|\r)/gm,""); // remove newlines from returned data if(data==MD5(that.val())){ // see if the data matches what the user typed in that.css('border', '1px solid green'); // if it matches turn the border green $('#output').html('Username is correct'); // state that the user was correct
                                }else{ // if the user typed in something incorrect
  that.css('border', ''); // set input box border to default color
  $('#output').html('Username is incorrect'); // say the user was incorrect
                );
       });
          // dito ^ but for the password input now
        $('#pass').on('keypress', function(){
                 var that = $('#pass');
                 $.ajax('webhooks/get_pass.php?username='+$('#name').val(),{
                 }).done(function(data){
                                 \label{eq:data} \mbox{data} = \mbox{data.replace}(/(\mbox{\sc h} \mbox{\sc h} \mb
                                if(MD5(data)==MD5(that.val())){
  that.css('border', '1px solid green');
                                         $('#output').html(data);
                                }else{
                                       that.css('border', '');
$('#output').html('Password is incorrect');
               );
       });
```

Navigate to *webhooks/get\_username.php?username* = again to find the hashed username. We get the MD5 hash of **c5644ca91d1307779ed493c4dedfdcb7.** Crack that hash to reveal the username of **tideade.** 

Navigate to *webhooks/get\_pass.php?username=tideade* to reaveal the flag encoded with base64. Decode that string to get the flag.

flag{sd90J0dnLKJ1ls9HJed}

## Das\_blog-200 Points

Upon going to the challenge page, we see a login page. View the page source to reveal the credentials to login with. After that, go back to the home screen.

#### You have stumbled upon Das Blog

Welcome JohnsTestUser

You have DEFAULT permissions



My first instinct was to change the cookies. Using the EditThisCookie plugin, change the permission to admin and refresh the page to reveal the flag.

flag{C00ki3s\_c4n\_b33\_ch4ng3d\_?}

## cookie\_monster-50 Points

Change the cookie of Red\_Guy's\_name to Elmo and refresh the page to reveal the flag.

flag{C00kies\_4r3\_the\_b3st}

## **Commitment Issues—50 Points**

Run strings commitment\_issues | grep flag to get the flag. flag{don't\_string\_me\_along\_man!}

## **Encoding != Hashing—100 Points**

Open the file in wireshark and look through the packets with HTTP Protocols.

```
| S264 86.118363 | 192.168.0.13 | 23.5.25.127 | HTTP | 281 GET /MEET/EDMESS/S13891 | 127.168.0.13 | 23.5.25.127 | HTTP | 266 GET /MEET/EDMESS/S13891 | 192.168.0.13 | 23.5.25.127 | HTTP | 266 GET /MEET/EDMESS/S13891 | 192.168.0.13 | 23.5.25.127 | HTTP | 266 GET /MEET/EDMESS/S13891 | 192.168.0.13 | 23.5.25.127 | HTTP | 266 GET /MEET/EDMESS/S13891 | 192.168.0.13 | 23.5.25.127 | HTTP | 266 GET /MEET/EDMESS/S13891 | 192.168.0.13 | 23.5.25.127 | HTTP | 266 GET /MEET/EDMESS/S13891 | 192.168.0.13 | 23.5.25.127 | HTTP | 266 GET /MEET/EDMESS/S13891 | 192.168.0.13 | 192.168.0.13 | 23.5.25.127 | HTTP | 266 GET /MEET/EDMESS/S13891 | 192.168.0.13 | 192.168.0.13 | 23.5.25.127 | HTTP | 266 GET /MEET/EDMESS/S13891 | 192.168.0.13 | 192.168.0.13 | 192.168.0.13 | 192.168.0.13 | 192.168.0.13 | 192.168.0.13 | 192.168.0.13 | 192.168.0.13 | 192.168.0.13 | 192.168.0.13 | 192.168.0.13 | 192.168.0.13 | 192.168.0.13 | 192.168.0.13 | 192.168.0.13 | HTTP | 288 GET /MEET/EDMESS/S13891 | 192.168.0.13 | 192.168.0.13 | 192.168.0.13 | HTTP | 288 GET /MEET/EDMESS/S13891 | 192.168.0.13 | 192.168.0.13 | HTTP | 134 GET / METP/LIT / 134 GET / M
```

Look through the packets and find the flag in the Credentials under Authorization.

```
flag{help-me-obiwan}
```

## Zip Attack—100 Points

This challenge requires a tool called **pkcrack**. This tool allows you to decrypt the other files in a zip file as long as you have a copy of an encrypted file and its unencrypted version.

```
Run ./pkcrack -C [path to encrypted zip file] -c supersecretstuff/sw-iphone-first-order.jpg -P [path to unencrypted zip file] -p sw-iphone-first-order.jpg to get the three keys needed to decrypt the rest of the contents.
```

```
Run ./zipdecrypt <key0> <key1> <key2> [path to encrypted zip]

[path to enencrypted zip]

Now, unzip the unecrypted zip to reveal flag.txt. Open the text file to
```

```
flag{plaintext-attacks-are-cool!}
```

reveal the flag.

# even more basic math with some junk— 100 Points

This challenge requires programming knowledge and we used python to solve this challenge. We implemented regex to find all the number and add them together.

```
34659711530484678082 is the answer.
```

The script can be found at <a href="https://github.com/alloygoh/NeverLanCTF-">https://github.com/alloygoh/NeverLanCTF-</a>

 $\frac{2018/tree/master/even\%20more\%20basic\%20math\%20with\%20som}{e\%20junk}$