

Category: crypto Points: 30 Solves: 72 Description:

In a world, where everybody and their mom rolls out their own crypto implemented PHP, Joe plays it safe with Standard Crypto. http://188.40.18.87:5144/

## Write-up

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The encryption used was done character by character, and we could decrypt any token of our choice with the info.php page. With this in mind, we could bruteforce each character individually until we get the character of our choice once decrypted. This would then let us craft a token with the value of our choice. Here's an example of a decrypted token that worked:

```
{"User":"admin","Admin":1}
```

Code:

```
import httplib
target = '{"User":"admin","Admin":1}'
conn = httplib.HTTPConnection('188.40.18.87:5144')
def getvalue(token):
       conn.request('GET', 'http://188.40.18.87:5144/info.php?token=%s' % (token), '')
        return conn.getresponse().read()
# We get this part of the token by simply using a token generated for any user
token = '69222e97316b9dd8f7'
for j in range(len(token) / 2, len(target)):
        for i in range(256):
                h = hex(i)[2:]
                if len(h) == 1:
                        h = '0' + h
                r = getvalue(token + h)
                if r == target[:len(r)]:
                        token += h
                        break
       print(token)
```

Then we had to visit http://188.40.18.87:5144/admin.php?token=INSERT\_TOKEN\_HERE.

## Other write-ups and resources

• http://www.crimsonagents.com/2015/01/31c3ctf-crypto-sso.html

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