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## Security flaw in default configuration of webui #764



New issue

⊙ Open ) martinzhou2015 opened this issue on Jan 15, 2021 · 9 comments

```
martinzhou2015 commented on Jan 15, 2021 • edited •
Details
The configuration of webui might result in the control panel being taken over by arbitrary user via default username and password.
The lines of code below indicate that, if not specified, the server will listen on 0.0.0.38000, which means the control panel could be accessed via WAN.
  https://github.com/open5gs/open5gs/blob/master/webui/server/index.js#L3
  const _hostname = process.env.HOSTNAME || '0.0.0.0';
const port = process.env.PORT || 3000;
On Line 38, the code will create a default account admin / 1423, if there isn't any account specified in MongoDB.
   const db = yield mongoose.connect(process.env.DB_URI, {
       useMongoClient: true,
/* other options */
     Account.count((err, count) => {
       if (err) {
  console.error(err);
         throw err;
       if (!count) {
         const newAccount = new Account();
newAccount.username = 'admin';
newAccount.roles = [ 'admin' ];
          Account.register(newAccount, '1423', err => {
  if (err) {
              console.error(err);
throw err;
         })
```

## **Proof of Concept**

After doing a query via Zoomeye, a search engine that lets the user find specific types of computers connected to the internet using a variety of filters, several vulnerable cases have been found:

http://140.118.155.145:3000/ http://194.135.39.106:3000/

\* Source: https://www.zoomeye.org/searchResult?q=title%3A%22Open5G5%22%20%2Bafter:%222021-01-01%22%20%2Bbefore:%222022-01-01%22&t=all

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Profile	Q		
<b>○</b> → Account	208931234561000	208931234561001	208931234561002
	208931234561003	208931234561004	208931234561005
	208931234561006	208931234561007	208931234561008
	208931234561009	208931234561010	208931234561011
	208931234561012	208931234561013	208931234561014
	208931234561015	208931234561016	208931234561017
	208931234561018	208931234561019	208931234561020
	208931234561021	208931234561022	208931234561023
	208931234561024	208931234561025	208931234561026
	208931234561027	208931234561028	208931234561029

## Suggestion

The default account should never be assigned automatically.

acetcom commented on Jan 18, 2021

@martinzhou2015 Is there a good way to get started with open5gs without adding a default user?

nickvsnetworking commented on Jan 21, 2021

Contributor

Member

@acetcom A few options:

Could we add a config file for the WebUI to allow access only to predefined subnets? We could add the local subnet to the config file during the install, and if a user wanted to open it up to more subnets they could change the config file themselves?

- Force a password change on first login (Easy)
- Randomly generate a password during the install (Annoying for the user to get the output)
- Restrict access to only local subnets by default and add a config file to change this behaviour (some work to implement)

I could potentially add the forced password change on first login functionality if you think that's the best path?

kbarlee commented on Jan 21, 2021

Sponsor Contributor

The bind on 0.0.0.0 is a consequence of #587

acetcom commented on Jan 22, 2021

Member

Hi. all

Here is my idea.

Running with npm run dev uses the same method as it is now. In development mode, I think it's okay to do it like now.

However, installing in production mode will not use the current code. The admin user will be added automatically during the installation phase.

# The admin user is automatically added in the following script.

\$ curl -sL https://open5gs.org/open5gs/assets/webui/uninstall | sudo -E bash -

Let me know if you have different idea.

Thanks a lot!

Sukchan

cecrevier commented on Jan 23, 2021

i think personally its already fine like it was.

EPC should never be installed directly on Internet but behind firewall on natted network.

Management network should be different as UE network also.

its like anythings, when you install something on the public network you need to think and secure it properly.

martinzhou2015 commented on Jan 26, 2021

Author

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Thanks a lot!

Sukchan

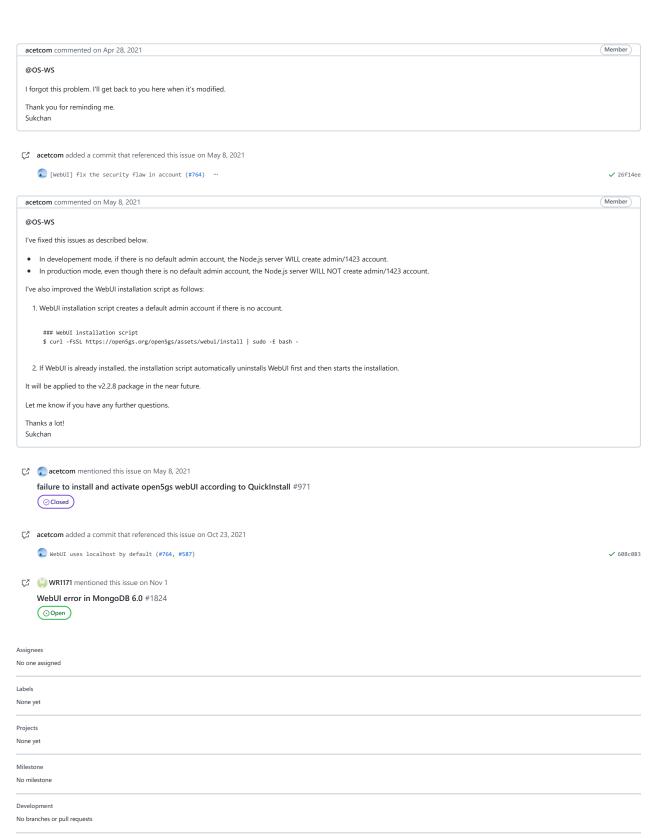
Force a password change on first login  $\mathsf{OR}$  Let the user to specify a password on their own when setting up

To secure a system, under no circumstance, a default weak password should be assigned automatically.

OS-WS commented on Apr 26, 2021

Hi, this issue was assigned with CVE-2021-25863.

is there a fix for it?



6 participants

