

# HARDCODED CREDENTIALS

**PRESENTED BY** 



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# **Vulnerability Description**

#### Presentation of CVE-{}

#### Issue

Hawktesters identifies a vulnerability in the VONETS VAP11G-300 router, on the Http\_handle object that references the settings binary. The vulnerability allows identifying hardcoded and persistent credentials in the binary.

### Mitigation

Especially in this product context the suggested solution is to use configuration files or environment variables that keep credentials encrypted for later use, avoid storing any hardcoded plaintext secrets in product binaries.

#### **Versions Affected**

The details can be seen in the following table.

Device Name	VAP11G_300
<b>Hardware Version</b>	VER6.0
Software Version	3.3.23.6.9 ( Jun 9 2023 14:52:17 )
Library Version	2022.11.23



# **Technical Description**

#### **Description**

Vonets VAP11G-300 is a professional 300Mbps wifi bridge of small size that also performs the function of WiFi repeater. The new design is unique in the world and ensures long-lasting stability. It is based on IEEE 802.11n, IEEE 802.11b and IEEE 802.11g standards.

## Issue(s)

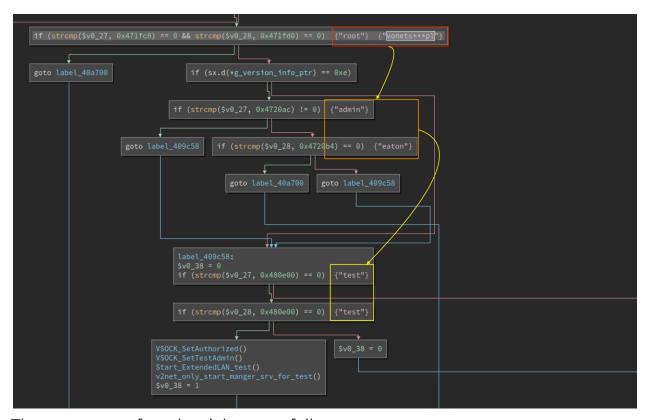
Hawktesters discovers hardcoded credentials in the main settings binary, which allows an attacker to authenticate and take administrative control of the device.

#### **Proof of Concept**

User required: no

Compiling the main settings binary identifies the object named Http\_handle which has associated authentication credentials hardcoded in the binary, these provide different access to the device, especially super-administrative.





The summary of credentials are as follows:

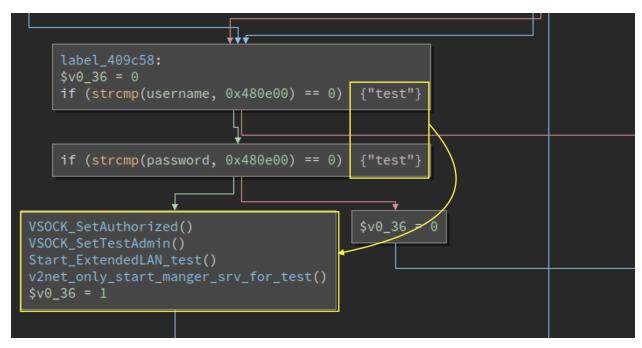
root:vonets\*\*\*pl

test:test

admin:eaton

In the following image you can see that the test:test credentials have a higher level of administrative privileges than the others.





Finally, by performing an HTTP request to the device's portal login you can check the functionality of the credentials.

```
POST /goform/login HTTP/1.1

Host: vonets.cfg

User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:109.0) Gecko/20100101 Firefox/115.0

Accept.Language: en-US,en;q=0.5

A
```

# **Conclusions**

Finally with the identified credentials, which are permanent in the binary despite factory resets, they can be used by an attacker to gain administrative privileges over the device without any restrictions.

