

Steps for cracking password of the system(kail root user) :-

1. Create a new file named 'crackpassword' to save all the details using the command **sudo unshadow /etc/passwd /etc/passwd > crackpassword** . This will save the fetch and store the root user's username and password in hash(SAH256) format.
2. Then using the john ripper using the following command crack the user's username and password with the help of a password\_file.txt using the command **john crackpassword --wordlist=/home/advait/Downloads/password\_file.txt**
3. On hitting the above command the linux shell will display a message '**Session Completed**'.



advait@10: ~

File Actions Edit View Help

\$ john

John the Ripper 1.9.0-jumbo-1+bleeding-aec1328d6c 2021-11-02 10:45:52 +0100 OMP [linux-gnu 64-bit x86\_64 AVX2 AC]

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Homepage: <https://www.openwall.com/john/>

Usage: john [OPTIONS] [PASSWORD-FILES] nologin

Use --help to list all available options.

```
(advait@10)~$ sudo ./unshadow /etc/passwd /etc/shadow > home/advait/Desktop/crackpassword
zsh: no such file or directory: home/advait/Desktop/crackpassword
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(advait@10)~$ sudo ./unshadow /etc/passwd /etc/shadow > crackpassword
[sudo] password for advait:
sudo: ./unshadow: command not found
```

```
(advait@10)~$ sudo unshadow /etc/passwd /etc/shadow > crackpassword
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```
(advait@10)~$ john crackpassword --show
0 password hashes cracked, 1 left
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```
(advait@10)~$ john crackpassword --wordlist=/home/Downloads/password_file.txt
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14 backup:!:34:34:backup:/var/backups:/usr/sbin/nologin
15 list:!:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
16 irc:!:39:39:ircd:/run/ircd:/usr/sbin/nologin
17 _apt:!:42:65534::/nonexistent:/usr/sbin/nologin
18 nobody:!:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
19 systemd-network:!:998:998:systemd Network Management:/usr/sbin/nologin
20 mysql:!:100:107:MySQL Server,,,:/nonexistent:/bin/false
21 tss:!:101:108:TPM software stack,,,:/var/lib/tpm:/bin/false
22 strongswan:!:102:65534::/var/lib/strongswan:/usr/sbin/nologin
23 systemd-timesync:!:997:997:systemd Time Synchronization:/usr/sbin/nologin
24 redsocks:!:103:109::/var/run/redsocks:/usr/sbin/nologin
25 rwhod:!:104:65534::/var/spool/rwhod:/usr/sbin/nologin
26 iodine:!:105:65534::/run/iodine:/usr/sbin/nologin
27 messagebus:!:106:111::/nonexistent:/usr/sbin/nologin
28 miredo:!:107:65534::/var/run/miredo:/usr/sbin/nologin
29 redis:!:108:114::/var/lib/redis:/usr/sbin/nologin
30 usbmux:!:109:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
31 mosquitto:!:110:116::/var/lib/mosquitto:/usr/sbin/nologin
32 tcpdump:!:111:118::/nonexistent:/usr/sbin/nologin
33 sshd:!:112:65534::/run/sshd:/usr/sbin/nologin
34 _rpc:!:113:65534::/run/rpcbind:/usr/sbin/nologin
35 dnsmasq:!:114:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
36 statd:!:115:65534::/var/lib/nfs:/usr/sbin/nologin
37 avahi:!:116:122:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
38 stunnel4:!:996:996:stunnel service system account:/var/run/stunnel4:/usr/sbin/nologin
39 Debian-snmpp:!:117:123::/var/lib/snmpp:/bin/false
40 _gvm:!:118:124::/var/lib/openvas:/usr/sbin/nologin
41 speech-dispatcher:!:119:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
42 sslh:!:120:125::/nonexistent:/usr/sbin/nologin
43 postgres:!:121:126:PostgreSQL administrator,,,:/var/lib/postgresql:/bin/bash
44 pulse:!:122:128:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
45 saned:!:123:131::/var/lib/saned:/usr/sbin/nologin
46 inetsim:!:124:132::/var/lib/inetsim:/usr/sbin/nologin
47 lightdm:!:125:133:Light Display Manager:/var/lib/lightdm:/bin/false
48 geoclue:!:126:134::/var/lib/geoclue:/usr/sbin/nologin
49 king-phisher:!:127:135::/var/lib/king-phisher:/usr/sbin/nologin
50 polkitd:!:994:994:polkit:/nonexistent:/usr/sbin/nologin
51 rtkit:!:128:136:RealtimeKit,,,:/proc:/usr/sbin/nologin
52 colord:!:129:137:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
53 nm-openvpn:!:130:138:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
54 nm-openconnect:!:131:139:NetworkManager OpenConnect plugin,,,:/var/lib/NetworkManager:/usr/sbin/nologin
55 advait:$y$j9T$C.Q.Kmeuo.CqTe.uE4r3N.$3tBebUwQOzVD4PEXagbo5Eaj0L.CQYFxFBtNodQSwI2:1000:1000:advait chavan,,,:/home/advait:/usr/bin/zsh
56 _gophish:!:132:144::/var/lib/gophish:/usr/sbin/nologin
57 adv:$y$j9T$4eJ9A28D1gwZxGfVNdUSo.$fZVlg9tNcQ5Y0gs4NmDZ7ArldkMt3M7CZrX3T5VUnoC:999:993::/home/adv:/bin/sh
58
```



```
14 backup:!:34:34:backup:/var/backups:/usr/sbin/nologin
15 list:!:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
16 irc:!:39:39:ircd:/run/ircd:/usr/sbin/nologin
17 _apt:!:42:65534::/nonexistent:/usr/sbin/nologin
18 nobody:!:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
19 systemd-network:!:998:998:systemd Network Management:/usr/sbin/nologin
20 mysql:!:100:107:MySQL Server,,,:/nonexistent:/bin/false
21 tss:!:101:108:TPM software stack,,,:/var/lib/tpm:/bin/false
22 strongswan:!:102:65534::/var/lib/strongswan:/usr/sbin/nologin
23 systemd-timesync:!:997:997:systemd Time Synchronization:/usr/sbin/nologin
24 redsocks:!:103:109::/var/run/redsocks:/usr/sbin/nologin
25 rwhod:!:104:65534::/var/spool/rwho:/usr/sbin/nologin
26 iodine:!:105:65534::/run/iodine:/usr/sbin/nologin
27 messagebus:!:106:111::/nonexistent:/usr/sbin/nologin
28 miredo:!:107:65534::/var/run/miredo:/usr/sbin/nologin
29 redis:!:108:114::/var/lib/redis:/usr/sbin/nologin
30 usbmux:!:109:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
31 mosquitto:!:110:116::/var/lib/mosquitto:/usr/sbin/nologin
32 tcpdump:!:111:118::/nonexistent:/usr/sbin/nologin
33 sshd:!:112:65534::/run/sshd:/usr/sbin/nologin
34 _rpc:!:113:65534::/run/rpcbind:/usr/sbin/nologin
35 dnsmasq:!:114:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
36 statd:!:115:65534::/var/lib/nfs:/usr/sbin/nologin
37 avahi:!:116:122:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
38 stunnel4:!:996:996:stunnel service system account:/var/run/stunnel4:/usr/sbin/nologin
39 Debian-snmp:!:117:123::/var/lib/snmp:/bin/false
40 _gvm:!:118:124::/var/lib/openvas:/usr/sbin/nologin
41 speech-dispatcher:!:119:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
42 sslh:!:120:125::/nonexistent:/usr/sbin/nologin
43 postgres:!:121:126:PostgreSQL administrator,,,:/var/lib/postgresql:/bin/bash
44 pulse:!:122:128:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
45 saned:!:123:131::/var/lib/saned:/usr/sbin/nologin
46 inetsim:!:124:132::/var/lib/inetsim:/usr/sbin/nologin
47 lightdm:!:125:133:Light Display Manager:/var/lib/lightdm:/bin/false
48 geoclue:!:126:134::/var/lib/geoclue:/usr/sbin/nologin
49 king-phisher:!:127:135::/var/lib/king-phisher:/usr/sbin/nologin
50 polkitd:!:994:994:polkit:/nonexistent:/usr/sbin/nologin
51 rtkit:!:128:136:RealtimeKit,,,:/proc:/usr/sbin/nologin
52 colord:!:129:137:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
53 nm-openvpn:!:130:138:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
54 nm-openconnect:!:131:139:NetworkManager OpenConnect plugin,,,:/var/lib/NetworkManager:/usr/sbin/nologin
55 advait:$y$j9T$C.Q.Kmeuo.CqTe.uE4r3N.$3tBebUwQ0zVD4PEXagbo5Eaj0L.CQYFxFBtNodQSwI2:1000:1000:advait chavan,,,:/home/advait:/usr/bin/zsh
56 _gophish:!:132:144::/var/lib/gophish:/usr/sbin/nologin
57 adv:$y$j9T$4eJ9A28D1gwZxGfVNdUSo.$fZVlg9tNcQ5Y0gs4NmDZ7ArldMt3M7CZrX3T5VUnoC:999:993::/home/adv:/bin/sh
58
```

In My case :

My root username : advait

My root password : adv