

```
sunbeam@server:~/c2-80511-prasad
login as: sunbeam
sunbeam@192.168.59.147's password:
Web console: https://server:9090/ or https://192.168.59.147:9090/
```

```
Last login: Sun Nov  5 19:59:45 2023 from 192.168.59.1
[sunbeam@server ~]$
[sunbeam@server ~]$ ls
[sunbeam@server ~]$ sudo mkdir c2-80511-prasad
[sudo] password for sunbeam:
[sunbeam@server ~]$
[sunbeam@server ~]$ sudo touch c2-80511-prasad/file{1..5}
[sunbeam@server ~]$ ls
c2-80511-prasad
[sunbeam@server ~]$ cd c2-80511-prasad/
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$ sudo mv file1 file1.txt
[sunbeam@server c2-80511-prasad]$ sudo mv file2 file2.txt
[sunbeam@server c2-80511-prasad]$ sudo mv file3 file3.txt
[sunbeam@server c2-80511-prasad]$ sudo mv file4 file4.txt
[sunbeam@server c2-80511-prasad]$ sudo mv file5 file5.txt
[sunbeam@server c2-80511-prasad]$ ls
file1.txt file2.txt file3.txt file4.txt file5.txt
[sunbeam@server c2-80511-prasad]$ sudo ln file1.txt h1_file1.txt
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$ sudo ls -li
total 0
16919170 -rw-r--r--. 2 root root 0 Nov  5 21:42 file1.txt
16919171 -rw-r--r--. 1 root root 0 Nov  5 21:42 file2.txt
16919172 -rw-r--r--. 1 root root 0 Nov  5 21:42 file3.txt
16919173 -rw-r--r--. 1 root root 0 Nov  5 21:42 file4.txt
16919174 -rw-r--r--. 1 root root 0 Nov  5 21:42 file5.txt
16919170 -rw-r--r--. 2 root root 0 Nov  5 21:42 h1_file1.txt
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$ sudo cat > h1_file1.txt
-bash: h1_file1.txt: Permission denied
[sunbeam@server c2-80511-prasad]$ sudo vim h1_file1.txt
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$ cat >file1.txt
-bash: file1.txt: Permission denied
[sunbeam@server c2-80511-prasad]$ cat file1.txt
This is hard link file!
```

sunbeam@server:~/c2-80511-prasad

```
This is hard link file!
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$ sudo ln file2.txt hl_file2.txt
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$ ls il
ls: cannot access 'il': No such file or directory
[sunbeam@server c2-80511-prasad]$ ls -li
total 8
16919170 -rw-r--r--. 2 root root 24 Nov  5 21:46 file1.txt
16919171 -rw-r--r--. 2 root root  0 Nov  5 21:42 file2.txt
16919172 -rw-r--r--. 1 root root  0 Nov  5 21:42 file3.txt
16919173 -rw-r--r--. 1 root root  0 Nov  5 21:42 file4.txt
16919174 -rw-r--r--. 1 root root  0 Nov  5 21:42 file5.txt
16919170 -rw-r--r--. 2 root root 24 Nov  5 21:46 hl_file1.txt
16919171 -rw-r--r--. 2 root root  0 Nov  5 21:42 hl_file2.txt
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$ sudo vim hl_file2.txt
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$ cat file2.txt
This is second file hard link
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$ sudo rm file1.txt
[sunbeam@server c2-80511-prasad]$ sudo rm file2.txt
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$ ls -li
total 8
16919172 -rw-r--r--. 1 root root  0 Nov  5 21:42 file3.txt
16919173 -rw-r--r--. 1 root root  0 Nov  5 21:42 file4.txt
16919174 -rw-r--r--. 1 root root  0 Nov  5 21:42 file5.txt
16919170 -rw-r--r--. 1 root root 24 Nov  5 21:46 hl_file1.txt
16919171 -rw-r--r--. 1 root root 30 Nov  5 21:48 hl_file2.txt
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$ cat hl_file1.txt
This is hard link file!
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$ cat hl_file2.txt
This is second file hard link
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$ sudo ln -s file3.txt sl_file3.txt
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$ cat > sl_file3.txt
-bash: sl_file3.txt: Permission denied
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$ sudo vim sl_file3.txt
[sunbeam@server c2-80511-prasad]$
```

Type here to search



```
sunbeam@server:~/c2-80511-prasad
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$ sudo cat file3.txt
This is softlink file
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$ ls -li
total 12
16919172 -rw-r--r-- 1 root root 22 Nov  5 21:51 file3.txt
16919173 -rw-r--r-- 1 root root  0 Nov  5 21:42 file4.txt
16919174 -rw-r--r-- 1 root root  0 Nov  5 21:42 file5.txt
16919170 -rw-r--r-- 1 root root 24 Nov  5 21:46 hl_file1.txt
16919171 -rw-r--r-- 1 root root 30 Nov  5 21:48 hl_file2.txt
16919175 lrwxrwxrwx 1 root root  9 Nov  5 21:50 sl_file3.txt -> file3.txt
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$ sudo rm file3.txt
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$ ls -li
total 8
16919173 -rw-r--r-- 1 root root  0 Nov  5 21:42 file4.txt
16919174 -rw-r--r-- 1 root root  0 Nov  5 21:42 file5.txt
16919170 -rw-r--r-- 1 root root 24 Nov  5 21:46 hl_file1.txt
16919171 -rw-r--r-- 1 root root 30 Nov  5 21:48 hl_file2.txt
16919175 lrwxrwxrwx 1 root root  9 Nov  5 21:50 sl_file3.txt -> file3.txt
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$ cat sl_file3.txt
cat: sl_file3.txt: No such file or directory
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$ sudo ln -s file4.txt /tmp/sl_file4.txt
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$ sudo vim /tmp/sl_file4.txt
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$ cat /tmp/sl_file4.txt
This is softlink of file 4!
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$ sudo rm file4.txt
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$ cat /tmp/sl_file4.txt
This is softlink of file 4!
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$ ls -li /tmp/
total 4
46 -rw-r--r-- 1 root root 28 Nov  5 21:53 file4.txt
42 lrwxrwxrwx 1 root root  9 Nov  5 21:52 sl_file4.txt -> file4.txt
32 drwx----- 3 root root 60 Nov  5 19:59 systemd-private-00dc2989a9ce42f69cfe1a092fbcf140-blutetooth.service-PK9gAX
21 drwx----- 3 root root 60 Nov  5 19:59 systemd-private-00dc2989a9ce42f69cfe1
```

sunbeam@server:~/c2-80511-prasad

```
[sunbeam@server c2-80511-prasad]$  
[sunbeam@server c2-80511-prasad]$  
[sunbeam@server c2-80511-prasad]$ sudo vim /tmp/sl_file4.txt  
[sunbeam@server c2-80511-prasad]$  
[sunbeam@server c2-80511-prasad]$  
[sunbeam@server c2-80511-prasad]$ cat /tmp/sl_file4.txt  
This is softlink of file 4!  
[sunbeam@server c2-80511-prasad]$  
[sunbeam@server c2-80511-prasad]$  
[sunbeam@server c2-80511-prasad]$ sudo rm file4.txt  
[sunbeam@server c2-80511-prasad]$  
[sunbeam@server c2-80511-prasad]$ cat /tmp/sl_file4.txt  
This is softlink of file 4!  
[sunbeam@server c2-80511-prasad]$  
[sunbeam@server c2-80511-prasad]$ ls -li /tmp/  
total 4  
46 -rw-r--r--. 1 root root 28 Nov  5 21:53 file4.txt  
42 lrwxrwxrwx. 1 root root  9 Nov  5 21:52 sl_file4.txt -> file4.txt  
32 drwx-----. 3 root root 60 Nov  5 19:59 systemd-private-00dc2989a9ce42f89cfe1  
a092fbcf140-bluetooth.service-FX3gAX  
21 drwx-----. 3 root root 60 Nov  5 19:59 systemd-private-00dc2989a9ce42f89cfe1  
a092fbcf140-chronyd.service-9B96Bq  
17 drwx-----. 3 root root 60 Nov  5 19:59 systemd-private-00dc2989a9ce42f89cfe1  
a092fbcf140-dbus-broker.service-B8EMlh  
25 drwx-----. 3 root root 60 Nov  5 19:59 systemd-private-00dc2989a9ce42f89cfe1  
a092fbcf140-ModemManager.service-er9hWh  
23 drwx-----. 3 root root 60 Nov  5 19:59 systemd-private-00dc2989a9ce42f89cfe1  
a092fbcf140-systemd-logind.service-jhCKVU  
 6 drwx-----. 3 root root 60 Nov  5 19:59 systemd-private-00dc2989a9ce42f89cfe1  
a092fbcf140-systemd-oomd.service-IyoGII  
 8 drwx-----. 3 root root 60 Nov  5 19:59 systemd-private-00dc2989a9ce42f89cfe1  
a092fbcf140-systemd-resolved.service-yM62Wj  
27 drwx-----. 2 root root 40 Nov  5 19:59 vmware-root_777-4261777711  
[sunbeam@server c2-80511-prasad]$  
[sunbeam@server c2-80511-prasad]$ ls -li  
total 8  
16919174 -rw-r--r--. 1 root root  0 Nov  5 21:42 file5.txt  
16919170 -rw-r--r--. 1 root root 24 Nov  5 21:46 hl_file1.txt  
16919171 -rw-r--r--. 1 root root 30 Nov  5 21:48 hl_file2.txt  
16919175 lrwxrwxrwx. 1 root root  9 Nov  5 21:50 sl_file3.txt -> file3.txt  
[sunbeam@server c2-80511-prasad]$  
[sunbeam@server c2-80511-prasad]$  
[sunbeam@server c2-80511-prasad]$ ls -li /tmp/  
total 4  
46 -rw-r--r--. 1 root root 28 Nov  5 21:53 file4.txt  
42 lrwxrwxrwx. 1 root root  9 Nov  5 21:52 sl_file4.txt -> file4.txt  
32 drwx-----. 3 root root 60 Nov  5 19:59 systemd-private-00dc2989a9ce42f89cfe1  
a092fbcf140-bluetooth.service-FX3gAX  
21 drwx-----. 3 root root 60 Nov  5 19:59 systemd-private-00dc2989a9ce42f89cfe1  
a092fbcf140-chronyd.service-9B96Bq
```

sunbeam@server:~/c2-80511-prasad

```
a092fbcf140-dbus-broker.service-B8BMih
25 drwx-----, 3 root root 60 Nov 5 19:59 systemd-private-00dc2989a9ce42f89cfe1
a092fbcf140-ModemManager.service-er9hWh
23 drwx-----, 3 root root 60 Nov 5 19:59 systemd-private-00dc2989a9ce42f89cfe1
a092fbcf140-systemd-logind.service-jhCXUj
6 drwx-----, 3 root root 60 Nov 5 19:59 systemd-private-00dc2989a9ce42f89cfe1
a092fbcf140-systemd-oomd.service-IyogII
8 drwx-----, 3 root root 60 Nov 5 19:59 systemd-private-00dc2989a9ce42f89cfe1
a092fbcf140-systemd-resolved.service-yN6Zwj
27 drwx-----, 2 root root 40 Nov 5 19:59 vmware-root_777-4261777711
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$ ls -li
total 8
16919174 -rw-r--r--, 1 root root 0 Nov 5 21:42 file5.txt
16919170 -rw-r--r--, 1 root root 24 Nov 5 21:46 hl_file1.txt
16919171 -rw-r--r--, 1 root root 30 Nov 5 21:48 hl_file2.txt
16919175 lrwxrwxrwx, 1 root root 9 Nov 5 21:50 sl_file3.txt -> file3.txt
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$ ls -li /tmp/
total 4
46 -rw-r--r--, 1 root root 28 Nov 5 21:53 file4.txt
42 lrwxrwxrwx, 1 root root 9 Nov 5 21:52 sl_file4.txt -> file4.txt
32 drwx-----, 3 root root 60 Nov 5 19:59 systemd-private-00dc2989a9ce42f89cfe1
a092fbcf140-bluetooth.service-FX3qIX
21 drwx-----, 3 root root 60 Nov 5 19:59 systemd-private-00dc2989a9ce42f89cfe1
a092fbcf140-chronyd.service-9b96Bq
17 drwx-----, 3 root root 60 Nov 5 19:59 systemd-private-00dc2989a9ce42f89cfe1
a092fbcf140-dbus-broker.service-B8BMih
25 drwx-----, 3 root root 60 Nov 5 19:59 systemd-private-00dc2989a9ce42f89cfe1
a092fbcf140-ModemManager.service-er9hWh
23 drwx-----, 3 root root 60 Nov 5 19:59 systemd-private-00dc2989a9ce42f89cfe1
a092fbcf140-systemd-logind.service-jhCXUj
6 drwx-----, 3 root root 60 Nov 5 19:59 systemd-private-00dc2989a9ce42f89cfe1
a092fbcf140-systemd-oomd.service-IyogII
8 drwx-----, 3 root root 60 Nov 5 19:59 systemd-private-00dc2989a9ce42f89cfe1
a092fbcf140-systemd-resolved.service-yN6Zwj
27 drwx-----, 2 root root 40 Nov 5 19:59 vmware-root_777-4261777711
[sunbeam@server c2-80511-prasad]$ sudo rm /tmp/file4.txt
[sunbeam@server c2-80511-prasad]$
[sunbeam@server c2-80511-prasad]$ ls -li /tmp/
total 0
42 lrwxrwxrwx, 1 root root 9 Nov 5 21:52 sl_file4.txt -> file4.txt
32 drwx-----, 3 root root 60 Nov 5 19:59 systemd-private-00dc2989a9ce42f89cfe1
a092fbcf140-bluetooth.service-FX3qIX
21 drwx-----, 3 root root 60 Nov 5 19:59 systemd-private-00dc2989a9ce42f89cfe1
a092fbcf140-chronyd.service-9b96Bq
17 drwx-----, 3 root root 60 Nov 5 19:59 systemd-private-00dc2989a9ce42f89cfe1
a092fbcf140-dbus-broker.service-B8BMih
25 drwx-----, 3 root root 60 Nov 5 19:59 systemd-private-00dc2989a9ce42f89cfe1
```

sunbeam@server:~/c2-80511-prasad

```
[sunbeam@server c2-80511-prasad]$  
[sunbeam@server c2-80511-prasad]$ ls -li  
total 8  
16919174 -rw-r--r--. 1 root root 0 Nov 5 21:42 file5.txt  
16919170 -rw-r--r--. 1 root root 24 Nov 5 21:46 hl_file1.txt  
16919171 -rw-r--r--. 1 root root 30 Nov 5 21:48 hl_file2.txt  
16919175 lrwxrwxrwx. 1 root root 9 Nov 5 21:50 sl_file3.txt -> file3.txt  
[sunbeam@server c2-80511-prasad]$  
[sunbeam@server c2-80511-prasad]$  
[sunbeam@server c2-80511-prasad]$ ls -li /tmp/  
total 4  
46 -rw-r--r--. 1 root root 28 Nov 5 21:53 file4.txt  
42 lrwxrwxrwx. 1 root root 9 Nov 5 21:52 sl_file4.txt -> file4.txt  
32 drwx-----. 3 root root 60 Nov 5 19:59 systemd-private-00dc2989a9ce42f89cfe1  
a092fbcf140-bluetooth.service-FX3gqX  
21 drwx-----. 3 root root 60 Nov 5 19:59 systemd-private-00dc2989a9ce42f89cfe1  
a092fbcf140-chronyd.service-9a96Bq  
17 drwx-----. 3 root root 60 Nov 5 19:59 systemd-private-00dc2989a9ce42f89cfe1  
a092fbcf140-dbus-broker.service-B88Mlh  
25 drwx-----. 3 root root 60 Nov 5 19:59 systemd-private-00dc2989a9ce42f89cfe1  
a092fbcf140-ModemManager.service-er9hWh  
23 drwx-----. 3 root root 60 Nov 5 19:59 systemd-private-00dc2989a9ce42f89cfe1  
a092fbcf140-systemd-logind.service-jhCKYJ  
6 drwx-----. 3 root root 60 Nov 5 19:59 systemd-private-00dc2989a9ce42f89cfe1  
a092fbcf140-systemd-oomd.service-IyogTI  
8 drwx-----. 3 root root 60 Nov 5 19:59 systemd-private-00dc2989a9ce42f89cfe1  
a092fbcf140-systemd-resolved.service-yN6ZwJ  
27 drwx-----. 2 root root 40 Nov 5 19:59 vmware-root_777-4261777711  
[sunbeam@server c2-80511-prasad]$ sudo rm /tmp/file4.txt  
[sunbeam@server c2-80511-prasad]$  
[sunbeam@server c2-80511-prasad]$ ls -li /tmp/  
total 0  
42 lrwxrwxrwx. 1 root root 9 Nov 5 21:52 sl_file4.txt -> file4.txt  
32 drwx-----. 3 root root 60 Nov 5 19:59 systemd-private-00dc2989a9ce42f89cfe1  
a092fbcf140-bluetooth.service-FX3gqX  
21 drwx-----. 3 root root 60 Nov 5 19:59 systemd-private-00dc2989a9ce42f89cfe1  
a092fbcf140-chronyd.service-9a96Bq  
17 drwx-----. 3 root root 60 Nov 5 19:59 systemd-private-00dc2989a9ce42f89cfe1  
a092fbcf140-dbus-broker.service-B88Mlh  
25 drwx-----. 3 root root 60 Nov 5 19:59 systemd-private-00dc2989a9ce42f89cfe1  
a092fbcf140-ModemManager.service-er9hWh  
23 drwx-----. 3 root root 60 Nov 5 19:59 systemd-private-00dc2989a9ce42f89cfe1  
a092fbcf140-systemd-logind.service-jhCKYJ  
6 drwx-----. 3 root root 60 Nov 5 19:59 systemd-private-00dc2989a9ce42f89cfe1  
a092fbcf140-systemd-oomd.service-IyogTI  
8 drwx-----. 3 root root 60 Nov 5 19:59 systemd-private-00dc2989a9ce42f89cfe1  
a092fbcf140-systemd-resolved.service-yN6ZwJ  
27 drwx-----. 2 root root 40 Nov 5 19:59 vmware-root_777-4261777711  
[sunbeam@server c2-80511-prasad]$  
[sunbeam@server c2-80511-prasad]$
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Type here to search



ENG 09:56 PM 05-11-2023