

```

/ $ echo Russell_Robinson $(date)
Russell_Robinson Sun Dec 3 22:52:36 UTC 2023
/ $ ssh cloud_user@44.202.73.98

Host '44.202.73.98' is not in the trusted hosts file.
(ssh-ed25519 fingerprint sha1!! da:4d:b1:36:d6:58:7c:74:e7:95:19:a1:02:
10:25:08:9d:12:5d:e9)
Do you want to continue connecting? (y/n) y
cloud_user@44.202.73.98's password:
[cloud_user@ip-10-0-1-188 ~]$ sudo yum install -y nano
[sudo] password for cloud_user:
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
* base: download.cf.centos.org
* extras: download.cf.centos.org
* updates: download.cf.centos.org
Package nano-2.3.1-10.el7.x86_64 already installed and latest version
Nothing to do
[cloud_user@ip-10-0-1-188 ~]$ sudo mkdir /test_scripts
mkdir: cannot create directory '/test_scripts': File exists
[cloud_user@ip-10-0-1-188 ~]$ cd /
[cloud_user@ip-10-0-1-188 /]$ ls -la
total 20
dr-xr-xr-x. 18 root root    244 Dec  3 17:36 .
dr-xr-xr-x. 18 root root    244 Dec  3 17:36 ..
lrwxrwxrwx.  1 root root      7 Dec  3  2018 bin -> usr/bin
dr-xr-xr-x.  5 root root   4096 Dec  9  2021 boot
drwxr-xr-x. 17 root root   2840 Dec  3 14:41 dev
drwxr-xr-x. 77 root root   8192 Dec  3 17:40 etc
drwxr-xr-x.  9 root root    113 Dec  3 17:40 home
lrwxrwxrwx.  1 root root      7 Dec  3  2018 lib -> usr/lib
lrwxrwxrwx.  1 root root      9 Dec  3  2018 lib64 -> usr/lib64
drwxr-xr-x.  2 root root      6 Apr 11  2018 media
drwxr-xr-x.  2 root root      6 Apr 11  2018 mnt
drwxr-xr-x.  2 root root      6 Apr 11  2018 opt
dr-xr-xr-x. 101 root root      0 Dec  3 14:41 proc
dr-xr-x---.  4 root root    175 Dec  3 14:43 root
drwxr-xr-x. 24 root root    660 Dec  3 17:54 run
lrwxrwxrwx.  1 root root      8 Dec  3  2018/sbin -> usr/sbin
drwxr-xr-x.  2 root root      6 Apr 11  2018 srv
dr-xr-xr-x. 13 root root      0 Dec  3 14:41 sys
drwxrwx---.  2 root testers  6 Dec  3 17:36 test_scripts
drwxrwxrwt.  8 root root    172 Dec  3 17:37 tmp
drwxr-xr-x. 13 root root    155 Dec  3  2018 usr

```

In this section, I used (echo name *date) to show my name and date, next continued logging in with my credentials. I proceeded to install Nano with (sudo yum install -y nano) and created a shared directory called /test_scripts using the command (sudo mkdir /test_scripts) and lastly, I used cd / ls -la to list the contents in detail.

```

drwxr-xr-x. 13 root root      155 Dec  3  2018 usr
drwxr-xr-x. 19 root root      267 Dec  3  2018 var
[cloud_user@ip-10-0-1-188 ~]$ sudo chmod 770 test_scripts/
[cloud_user@ip-10-0-1-188 ~]$ ls -la
total 20
dr-xr-xr-x. 18 root root      244 Dec  3 17:36 .
dr-xr-xr-x. 18 root root      244 Dec  3 17:36 ..
lrwxrwxrwx.  1 root root         7 Dec  3  2018 bin -> usr/bin
dr-xr-xr-x.  5 root root     4096 Dec  9  2021 boot
drwxr-xr-x. 17 root root     2840 Dec  3 14:41 dev
drwxr-xr-x. 77 root root     8192 Dec  3 17:40 etc
drwxr-xr-x.  9 root root      113 Dec  3 17:40 home
lrwxrwxrwx.  1 root root         7 Dec  3  2018 lib -> usr/lib
lrwxrwxrwx.  1 root root         9 Dec  3  2018 lib64 -> usr/lib64
drwxr-xr-x.  2 root root         6 Apr 11  2018 media
drwxr-xr-x.  2 root root         6 Apr 11  2018 mnt
drwxr-xr-x.  2 root root         6 Apr 11  2018 opt
dr-xr-xr-x. 101 root root         0 Dec  3 14:41 proc
dr-xr-x---.  4 root root      175 Dec  3 14:43 root
drwxr-xr-x. 24 root root      660 Dec  3 17:54 run
lrwxrwxrwx.  1 root root         8 Dec  3  2018/sbin -> usr/sbin
drwxr-xr-x.  2 root root         6 Apr 11  2018 srv
dr-xr-xr-x. 13 root root         0 Dec  3 14:41 sys
drwxrwx---.  2 root testers    6 Dec  3 17:36 test_scripts
drwxrwxrwt.  8 root root      172 Dec  3 17:37 tmp
drwxr-xr-x. 13 root root      155 Dec  3  2018 usr
drwxr-xr-x. 19 root root      267 Dec  3  2018 var
[cloud_user@ip-10-0-1-188 ~]$ sudo chgrp testers test_scripts/
[cloud_user@ip-10-0-1-188 ~]$ cd /home
[cloud_user@ip-10-0-1-188 home]$ sudo adduser tkirk
adduser: user 'tkirk' already exists
[cloud_user@ip-10-0-1-188 home]$ ls -la
total 0
drwxr-xr-x.  9 root      root      113 Dec  3 17:40 .
dr-xr-xr-x. 18 root      root      244 Dec  3 17:36 ..
drwx-----.  4 cloud_user cloud_user 140 Dec  3 14:43 cloud_user
drwx-----.  2 jarcher    jarcher    62 Dec  3 17:40 jarcher
drwx-----.  2 kjaneway   kjaneway   62 Dec  3 14:43 kjaneway
drwx-----.  2 lpicard    lpicard    62 Dec  3 17:40 lpicard
drwx-----.  2 nsingh     nsingh     62 Dec  3 17:39 nsingh
drwx-----.  2 ssm-user   ssm-user   62 Dec 19  2018 ssm-user
drwx-----.  2 tkirk      tkirk      62 Dec  3 17:38 tkirk
[cloud_user@ip-10-0-1-188 home]$ sudo ls -la tkirk/
total 12

```

I set group ownership and permissions using (sudo chmod 770 test_scripts/), listed the directory again, and changed test_scripts to tester using (sudo chgrp testers test_scripts/). I continued to add new users to the system I went to the home directory (cd /home), next added user tkirk, and verified that the directory was created (ls -la) then I checked the directory using the command (sudo ls -la tkirk/) to see if tkirk was created.

```

drwx-----. 2 kjaneway kjaneway 62 Dec 3 14:43 kjaneway
drwx-----. 2 lpicard lpicard 62 Dec 3 17:40 lpicard
drwx-----. 2 nsingh nsingh 62 Dec 3 17:39 nsingh
drwx-----. 2 ssm-user ssm-user 62 Dec 19 2018 ssm-user
drwx-----. 2 tkirk tkirk 62 Dec 3 17:38 tkirk
[cloud_user@ip-10-0-1-188 home]$ sudo nano /etc/group
[cloud_user@ip-10-0-1-188 home]$ sudo su nsingh
[nsingh@ip-10-0-1-188 home]$ cd /test_scripts
[nsingh@ip-10-0-1-188 test_scripts]$ ls -la
total 0
drwxrwx---. 2 root testers 6 Dec 3 17:36 .
dr-xr-xr-x. 18 root root 244 Dec 3 17:36 ..
[nsingh@ip-10-0-1-188 test_scripts]$ touch test.txt
[nsingh@ip-10-0-1-188 test_scripts]$ exit
exit
[cloud_user@ip-10-0-1-188 home]$ sudo su kjaneway
[kjaneway@ip-10-0-1-188 home]$ cd /
[kjaneway@ip-10-0-1-188 /]$ ls -la
total 20
dr-xr-xr-x. 18 root root 244 Dec 3 17:36 .
dr-xr-xr-x. 18 root root 244 Dec 3 17:36 ..
lrwxrwxrwx. 1 root root 7 Dec 3 2018 bin -> usr/bin
dr-xr-xr-x. 5 root root 4096 Dec 9 2021 boot
drwxr-xr-x. 17 root root 2840 Dec 3 14:41 dev
drwxr-xr-x. 77 root root 8192 Dec 3 17:40 etc
drwxr-xr-x. 9 root root 113 Dec 3 17:40 home
lrwxrwxrwx. 1 root root 7 Dec 3 2018 lib -> usr/lib
lrwxrwxrwx. 1 root root 9 Dec 3 2018 lib64 -> usr/lib64
drwxr-xr-x. 2 root root 6 Apr 11 2018 media
drwxr-xr-x. 2 root root 6 Apr 11 2018 mnt
drwxr-xr-x. 2 root root 6 Apr 11 2018 opt
dr-xr-xr-x. 103 root root 0 Dec 3 14:41 proc
dr-xr-xr-x. 4 root root 175 Dec 3 14:43 root
drwxr-xr-x. 24 root root 660 Dec 3 17:54 run
lrwxrwxrwx. 1 root root 8 Dec 3 2018 sbin -> usr/sbin
drwxr-xr-x. 2 root root 6 Apr 11 2018 srv
dr-xr-xr-x. 13 root root 0 Dec 3 14:41 sys
drwxrwx---. 2 root testers 22 Dec 3 18:01 test_scripts
drwxrwxrwt. 8 root root 172 Dec 3 17:37 tmp
drwxr-xr-x. 13 root root 155 Dec 3 2018 usr
drwxr-xr-x. 19 root root 267 Dec 3 2018 var
[kjaneway@ip-10-0-1-188 /]$ cd test_scripts/
bash: cd: test_scripts/: Permission denied
[kjaneway@ip-10-0-1-188 /]$

```

Continued: I add new user (sudo adduser nsingh, sudo adduser lpicard, sudo adduser jarcher) and verified if it was successful with (ls -la). I now proceed to the new users to a group with command (sudo nano /etc/group). Switching to user (sudo su nsingh), I created a (cd test_scripts) directory and test.txt file. However, accessing test_scripts as user (kjaneway) was denied.

```

GNU nano 2.3.1 File: /etc/group
ssh_keys:x:996:
dip:x:40:
ts:x:59:
sshd:x:74:
postdrop:x:90:
postfix:x:89:
chrony:x:995:
cloud_user:x:1000:cloud_user
cgrid:x:994:
ssm-user:x:1002:
kjaneway:x:1003:
testers:x:1004:tkirk,nsingh,lpicard,jarcher
tkirk:x:1005:
nsingh:x:1006:
lpicard:x:1007:
jarcher:x:1008:

```

After entering sudo nano /etc/group this is the section I add users (tkirk,nsingh,lpicard,jarcher) in a group under testers:x: 1004.

