

```
Nov 30 8:53 PM
liveuser@localhost-live:~

liveuser@localhost-live:~$ ssh-keygen -o
Generating public/private ed25519 key pair.
Enter file in which to save the key (/home/liveuser/.ssh/id_ed25519):
Created directory '/home/liveuser/.ssh'.
Enter passphrase for "/home/liveuser/.ssh/id_ed25519" (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/liveuser/.ssh/id_ed25519
Your public key has been saved in /home/liveuser/.ssh/id_ed25519.pub
The key fingerprint is:
SHA256:AC7fE/XLD9zFzIaIrmrw1VULZ29yJ30PPV5y/yMTmm8 liveuser@localhost-live
The key's randomart image is:
+--[ED25519 256]--+
|      . .      |
|      . . . . .+ |
|      . . o . . = o |
|      o . o o o . = * |
|      . o S . = . . X o |
|      . . . . + + o * = |
|      o . . . = = o o |
|      o . . o E + . |
|      . . . . . o . o + |
+-----[SHA256]-----+
liveuser@localhost-live:~$ cat /home/liveuser/.ssh/id_ed25519.pub
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAINdE178Qz9o6icNREgudV3yAPVUXdRwBjknckDWX5d6 liveuser@localhost-live
liveuser@localhost-live:~$ ^C
```

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Fedora 42 [Running] - Oracle VirtualBox
File Machine View Input Devices Help
Dec 7 7:08 PM
liveuser@localhost-live:~

liveuser@localhost-live:~$ ls -al ~/.ssh
total 8
drwx-----, 2 liveuser liveuser 80 Nov 30 20:42 .
drwx-----, 15 liveuser liveuser 500 Nov 30 22:11 ..
-rw-----, 1 liveuser liveuser 464 Nov 30 20:42 id_ed25519
-rw-r--r--, 1 liveuser liveuser 105 Nov 30 20:42 id_ed25519.pub
liveuser@localhost-live:~$ ssh-keygen -t rsa -b 4096 -C "bcuvelier2@student.cccs.edu"
Generating public/private rsa key pair.
Enter file in which to save the key (/home/liveuser/.ssh/id_rsa): FinalExamLinux
Enter passphrase for "FinalExamLinux" (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in FinalExamLinux
Your public key has been saved in FinalExamLinux.pub
The key fingerprint is:
SHA256:61Nqp03V4NSkqEU17g2+tT+xDfrmz/o9ft3pFhK167k bcuvelier2@student.cccs.edu
The key's randomart image is:
+---[RSA 4096]-----+
|      . o .      |
|      . o = . . |
|      + B . . o |
|      * B = . + |
|      o S = + . + |
|      o = o ooE |
|      o . . . = |
|      . . . + = * |
|      . . . + = * |
|      + OBB |
+-----[SHA256]-----+
liveuser@localhost-live:~$
```

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Fedora 42 [Running] - Oracle VirtualBox
File Machine View Input Devices Help

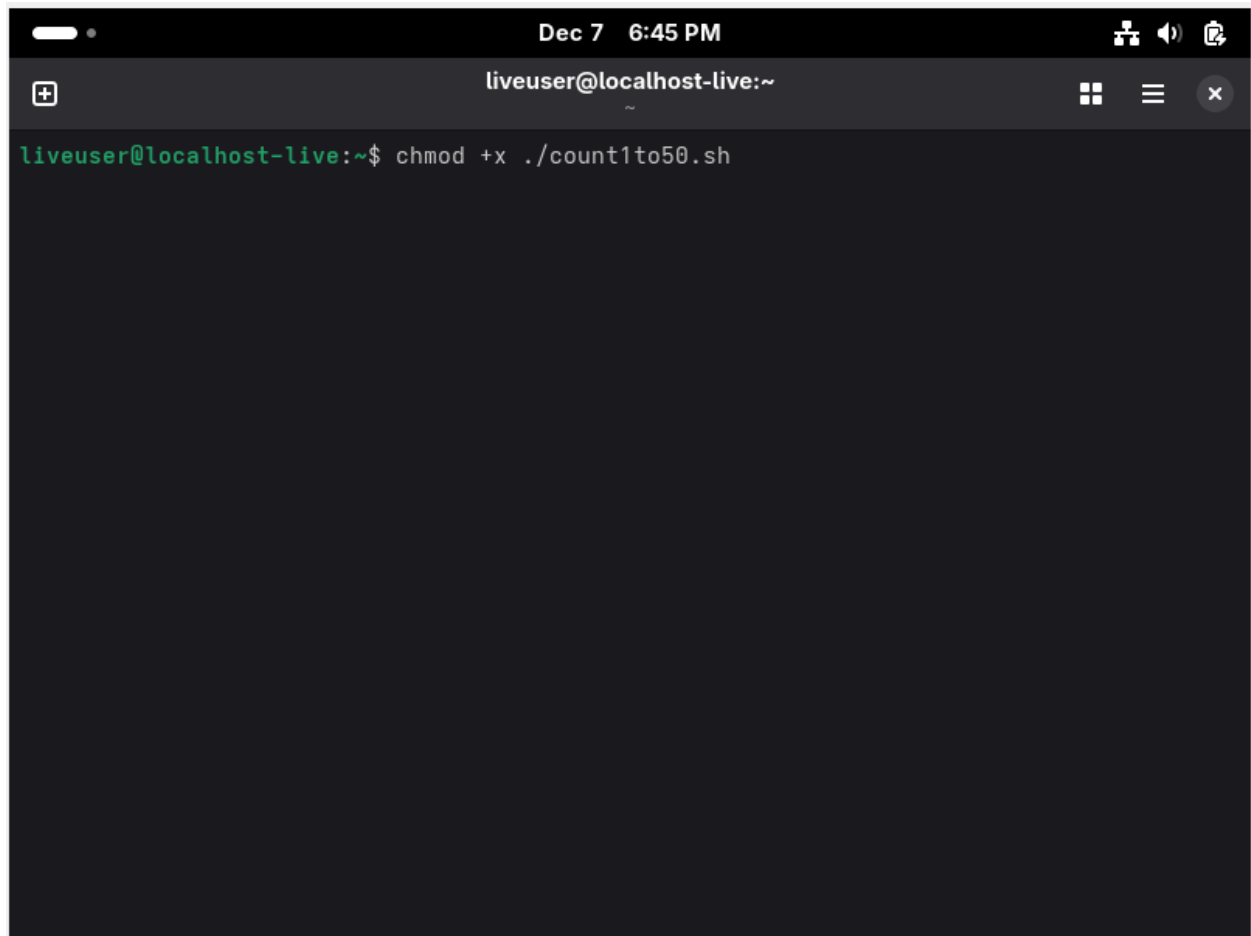
Dec 7 7:16 PM
liveuser@localhost-live:~

liveuser@localhost-live:~$ ls -al ~/.ssh
total 8
drwx-----. 2 liveuser liveuser 80 Nov 30 20:42 .
drwx-----. 15 liveuser liveuser 540 Dec 7 19:07 ..
-rw-----. 1 liveuser liveuser 464 Nov 30 20:42 id_ed25519
-rw-r--r--. 1 liveuser liveuser 105 Nov 30 20:42 id_ed25519.pub
liveuser@localhost-live:~$ ssh-add ~/.ssh/id_ed25519
Enter passphrase for /home/liveuser/.ssh/id_ed25519:
liveuser@localhost-live:~$ cat ~/.ssh/id_25519.pub
cat: /home/liveuser/.ssh/id_25519.pub: No such file or directory
liveuser@localhost-live:~$ cat ~/.ssh/id_ed25519.pub
ssh-ed25519 AAAAC3NzaC1lZD11NTE5AAAAINdE178Qz9o6icNREgudV3yAPVUXdRwBjkknckDWX5d6 liveuser@localhost-live
liveuser@localhost-live:~$ ssh -T git@github.com
The authenticity of host 'github.com (140.82.112.3)' can't be established.
ED25519 key fingerprint is SHA256:+DiY3wvvV6TuJJhbpZisF/zLDA0zPMSvHdkr4UvC0qU.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com' (ED25519) to the list of known hosts.
Enter passphrase for key '/home/liveuser/.ssh/id_ed25519':
Enter passphrase for key '/home/liveuser/.ssh/id_ed25519':
Enter passphrase for key '/home/liveuser/.ssh/id_ed25519':
git@github.com: Permission denied (publickey).
liveuser@localhost-live:~$ ssh -T git@github.com
Enter passphrase for key '/home/liveuser/.ssh/id_ed25519':
git@github.com: Permission denied (publickey).
liveuser@localhost-live:~$ ssh -T git@github.com
Enter passphrase for key '/home/liveuser/.ssh/id_ed25519':
Hi Bouvelier! You've successfully authenticated, but GitHub does not provide shell access.
liveuser@localhost-live:~$
```

```
Dec 7 6:44 PM
liveuser@localhost-live:~ — nano ./count1to50.sh

GNU nano 8.3 ./count1to50.sh
#!/bin/bash
#shell script to print numbers 1 to 50
for i in {1..50}; do
    echo $i
done

[ Read 5 lines ]
^G Help      ^O Write Out ^F Where Is  ^K Cut       ^T Execute   ^C Location
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify   ^_ Go To Line
```



A terminal window with a dark background. The title bar at the top shows the date and time as "Dec 7 6:45 PM" and includes standard window controls. The terminal's title bar displays the prompt "liveuser@localhost-live:~". The main area of the terminal shows a single command prompt and command: "liveuser@localhost-live:~\$ chmod +x ./count1to50.sh". The prompt is green, and the command is white.

```
liveuser@localhost-live:~$ chmod +x ./count1to50.sh
```