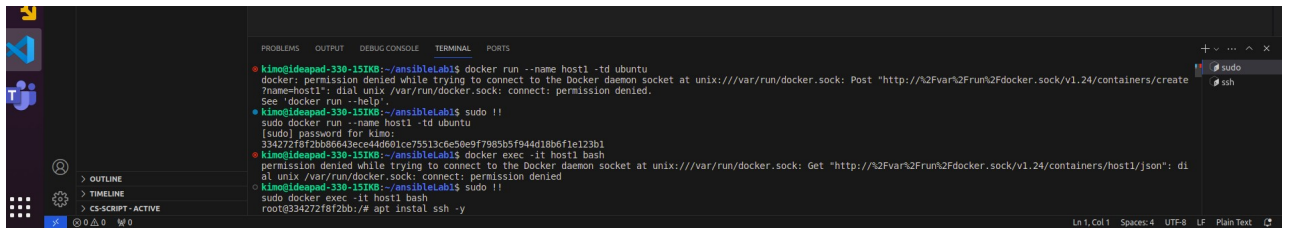
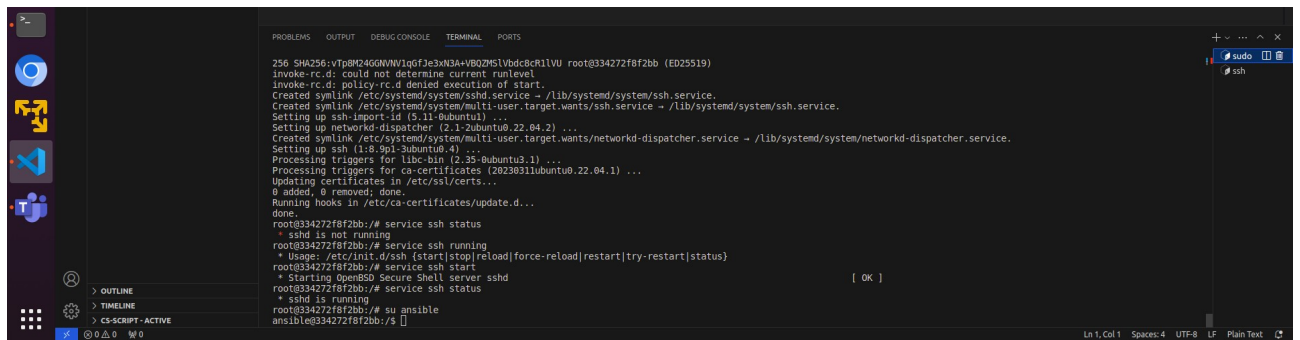


## Ansible lab 1

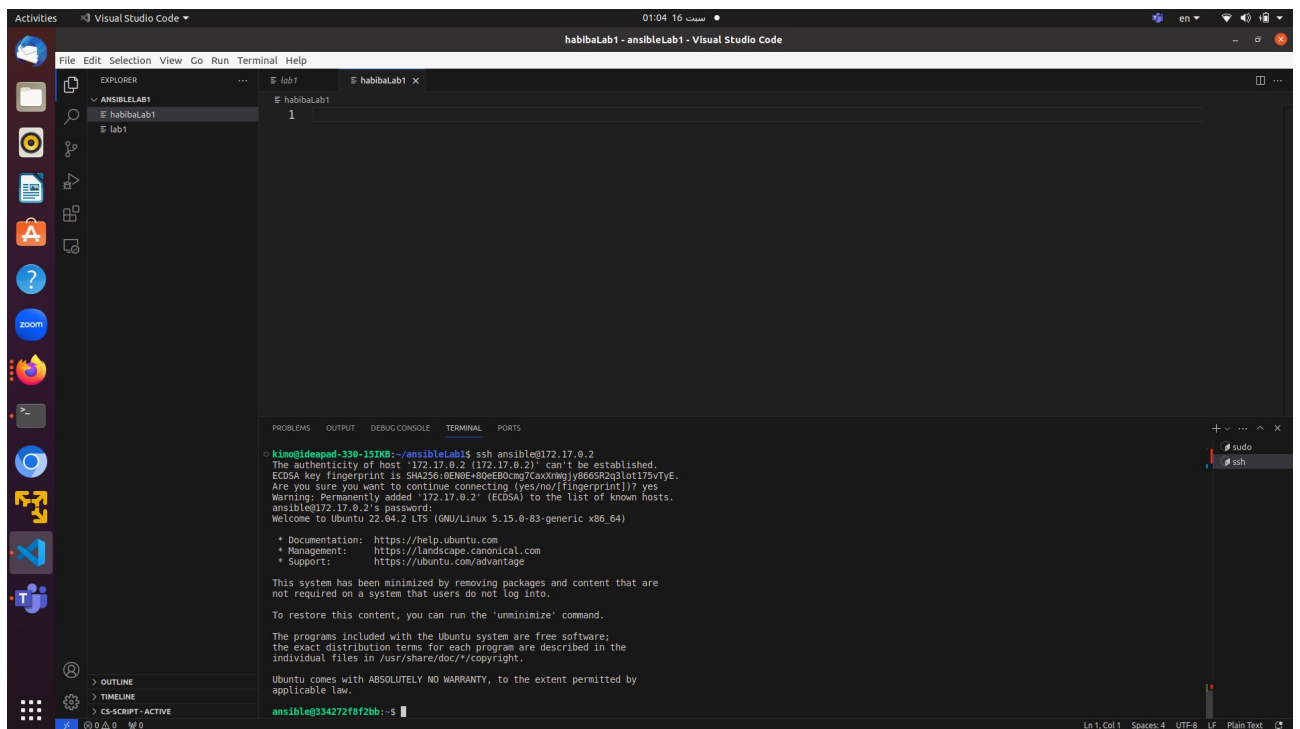
intall ansible – install ssh – create user -ssh connection :



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
• kmo@ideapad-330-151KB:~/ansibleLab1$ docker run --name host1 -td ubuntu
docker: permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Post "http://q2Fvar2Frun2Fdocker.sock/v1.24/containers/create?name=host1": dial unix /var/run/docker.sock: connect: permission denied.
See "docker run --help".
• kmo@ideapad-330-151KB:~/ansibleLab1$ sudo !!
sudo docker run --name host1 -td ubuntu
(sudo) password for kmo:
334272f8f2bb86643ece44d601ce75513ce50e9f7985b5f944d18b6f1e123b1
• kmo@ideapad-330-151KB:~/ansibleLab1$ docker exec -it host1 bash
permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get "http://q2Fvar2Frun2Fdocker.sock/v1.24/containers/host1/json": dial unix /var/run/docker.sock: connect: permission denied
• kmo@ideapad-330-151KB:~/ansibleLab1$ sudo !!
sudo docker exec -it host1 bash
root@334272f8f2bb:/# apt instal ssh -y
```



```
256 SHA256:VpBHQ4G0NwV1q0fJ3e3xNA+VBQ2MS1Vd0c8R1VU root@334272f8f2bb (ED25519)
Invoke-rc.d: could not determine current runlevel
Invoke-rc.d: policy-rc.d denied execution of start.
Created symlink /etc/systemd/system/ssh.service → /lib/systemd/system/ssh.service.
Created symlink /etc/systemd/system/multi-user.target.wants/ssh.service → /lib/systemd/system/ssh.service.
Setting up ssh-import-id (5.11-0ubuntu1) ...
Setting up networkd-dispatcher (2.1-2ubuntu0.22.04.2) ...
Created symlink /etc/systemd/system/multi-user.target.wants/networkd-dispatcher.service → /lib/systemd/system/networkd-dispatcher.service.
Setting up ssh (1:9.9p1-3ubuntu0.4) ...
Processing triggers for libc-bin (2.35-0ubuntu3.1) ...
Processing triggers for ca-certificates (20230311ubuntu0.22.04.1) ...
Updating certificates in /etc/ssl/certs...
0 added, 0 removed, done.
Running hooks in /etc/ca-certificates/update.d...
done.
root@334272f8f2bb:/# service ssh status
* sshd is not running
root@334272f8f2bb:/# service ssh running
* Usage: /etc/init.d/ssh {start|stop|reload|force-reload|restart|try-restart|status}
root@334272f8f2bb:/# service ssh start
* Starting OpenSSH Secure Shell server: sshd
root@334272f8f2bb:/# service ssh status
* sshd is running
root@334272f8f2bb:/# su ansible
ansible@334272f8f2bb:/#
```



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
• kmo@ideapad-330-151KB:~/ansibleLab1$ ssh ansible@172.17.0.2
The authenticity of host '172.17.0.2 (172.17.0.2)' can't be established.
ECDSA key fingerprint is SHA256:8ENW6+80eB0cmg7CaxXmwjy866SR2q3lot175vTyE.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '172.17.0.2' (ECDSA) to the list of known hosts.
ansible@172.17.0.2's password:
Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.15.0-83-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:         https://ubuntu.com/advantage

This system has been minimized by removing packages and content that are
not required on a system that users do not log into.

To restore this content, you can run the 'unminimize' command.

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

ansible@334272f8f2bb:~$
```

keypair generation :

The screenshot shows a VS Code editor with a terminal window open. The terminal displays the output of the command `ssh-keygen -t rsa`. The output indicates that a public/private RSA key pair has been generated and saved in `/home/kimo/.ssh/devOps`. The key fingerprint is shown as `SHA256:0G+GHb9MGcy/Irnkuc+0ILC3UyeVefYwdTKixg5Sk kimo@ideapad-330-151KB`. The terminal also shows the command `ssh-keygen -t rsa` being executed again, resulting in the same output. The terminal window is titled `Terminal` and has a status bar at the bottom showing `Ln 1, Col 1`, `Spaces: 4`, `UTF-8`, and `Plain Text`.

The screenshot shows the Visual Studio Code interface. On the left, the Explorer sidebar displays a file tree with 'ANSIBLELAB1' expanded, showing 'habibLab1' and 'lab1'. The main editor area is split into two panes. The top pane shows a file named 'habibLab1' with the content '1'. The bottom pane is a terminal window with tabs for 'PROBLEMS', 'OUTPUT', 'DEBUG CONSOLE', 'TERMINAL', and 'PORTS'. The 'TERMINAL' tab is active, showing a list of hosts in a terminal session:

```
kino@ideapad-330-15IKB:~/ansiblelab1$ cd -
kino@ideapad-330-15IKB:~$ cd .ssh
kino@ideapad-330-15IKB:~/ssh$ ls
devOps  devOps.pub  id_ed25519  id_ed25519.pub  known_hosts
o kino@ideapad-330-15IKB:~/ssh$
```

On the right side of the terminal, there are icons for 'sudo' and 'bash .ssh'. The status bar at the bottom indicates 'Ln 1, Col 1', 'Spaces: 4', 'UTF-8', 'LF', and 'Plain Text'.

Copy the public key to host 1 :

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
kino@ideapad-330-15IKB:~/ansiblelab1$ cd -
kino@ideapad-330-15IKB:~$ cd .ssh
kino@ideapad-330-15IKB:~/.ssh$ ls
devOps  devOps.pub  id_ed25519  id_ed25519.pub  known_hosts
kino@ideapad-330-15IKB:~/.ssh$ ssh-copy-id -d devOps.pub ansible@172.17.0.2

/usr/bin/ssh-copy-id: ERROR: invalid option (-d)

Usage: /usr/bin/ssh-copy-id [-h] [-f] [-n] [-i [identity file]] [-p port] [[-o <ssh -o options>] ...] [user@hostname]
-f: force mode -- copy keys without trying to check if they are already installed
-n: dry run -- no keys are actually copied
-h: print this help
kino@ideapad-330-15IKB:~/.ssh$ cd -
kino@ideapad-330-15IKB:~$ cd .ssh
kino@ideapad-330-15IKB:~/.ssh$ ssh-copy-id -i devOps.pub ansible@172.17.0.2
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "devOps.pub"
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
ansible@172.17.0.2's password:

Number of key(s) added: 1

Now try logging into the machine, with: "ssh 'ansible@172.17.0.2'"
and check to make sure that only the key(s) you wanted were added.

kino@ideapad-330-15IKB:~/.ssh$
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
ansible@334272f8f2bb:/# ls -la
.  ..  .dockerenv  bin  boot  dev  etc  home  lib  lib32  lib64  libx32  media  mnt  opt  proc  root  run /sbin  srv  sys  usr  var
ansible@334272f8f2bb:/# cd ~
ansible@334272f8f2bb:~$ ls -la
.  ..  .bash_history  .bash_logout  .bashrc  .cache  .profile  .ssh
ansible@334272f8f2bb:~$
```

Make sure you can ssh into host 1 (using prv/pub) :

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
kino@ideapad-330-15IKB:~/.ssh$ ssh -i devOps ansible@172.17.0.2
Warning: Identity file devOps not accessible: No such file or directory.
Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.15.0-83-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

This system has been minimized by removing packages and content that are
not required on a system that users do not log into.

To restore this content, you can run the 'unminimize' command.
Last login: Fri Sep 15 22:03:53 2023 from 172.17.0.1
ansible@334272f8f2bb:~$
```

