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Course: Ansible Track: DevOps - ITI

#### Make sure you can ssh into host 1 (using password)

```
Hello DevOps ~/.bashrc
o abdo@abdo-Lenovo-Z50-70:~/ansible/day1$ ssh abdo@172.17.0.2
 The authenticity of host '172.17.0.2 (172.17.0.2)' can't be established.
 ED25519 key fingerprint is SHA256:+nuLCDJWVDcjes93HicVNRzFwTq3HlHFiAjIpGHYzW0.
 This key is not known by any other names
 Are you sure you want to continue connecting (yes/no/[fingerprint])? y
 Please type 'yes', 'no' or the fingerprint: y Please type 'yes', 'no' or the fingerprint: yes
 Warning: Permanently added '172.17.0.2' (ED25519) to the list of known hosts.
 abdo@172.17.0.2's password:
 Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 6.2.0-32-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.
 abdo@659ba17a8242:~$
```

### Generate SSH key pair on the control machine

```
• abdo@abdo-Lenovo-Z50-70:~/ansible/day1$ ssh-keygen -t rsa
 Generating public/private rsa key pair.
 Enter file in which to save the key (/home/abdo/.ssh/id_rsa): /home/abdo/.ssh/devops
 Enter passphrase (empty for no passphrase):
 Enter same passphrase again:
 Your identification has been saved in /home/abdo/.ssh/devops
 Your public key has been saved in <a href="https://home/abdo/.ssh/devops.pub">home/abdo/.ssh/devops.pub</a>
 The key fingerprint is:
 SHA256:kUcXekNYf2lbQ7R4E73Ahzp3Km+LppXslhV3lSl+Qy8 abdo@abdo-Lenovo-Z50-70
 The key's randomart image is:
 +---[RSA 3072]----+
             .0*.0++
            0.+ *0=*
           o \ o = .*B*
           o + =EBB
           S o *00
             0+.0
     --[SHA256]----+
```

#### Copy the public key to host 1

```
abdo@abdo-Lenovo-Z50-70:~/.ssh$ ls
devops devops.pub known_hosts known_hosts.old
abdo@abdo-Lenovo-Z50-70:~/.ssh$ ssh-copy-id -i devops.pub abdo@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 an y 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
abdo@172.17.0.2's password:

Number of key(s) added: 1

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

abdo@abdo-Lenovo-Z50-70:~/.ssh$
```

```
abdo@659ba17a8242:~$ ls
abdo@659ba17a8242:~$ ls
abdo@659ba17a8242:~$ ls -a
. .. .bash_history .bash_logout .bashrc .cache .profile .ssh
abdo@659ba17a8242:~$ cd .ssh/
abdo@659ba17a8242:~/.ssh$ ls
authorized keys
abdo@659ba17a8242:~/.ssh$ cat authorized keys
ssh-rsa AAAAB3NzaClyc2EAAAADAQABAAABqQDivlq0FfQTMVB9TTR+0dT5pEroumfQnWDXt0dGF6036I0jWX
np6SOuu3w3dZVuDVxqPNbDSsFQGv2GriRHetSrnUV2eIgcJxT/nP2+/S9e/gXsaI9agAl/0mboj+4i8sAKliBv
/AgPtCRF0aEfnixzjl1hRWaeDBqP0j0jsSAcDXgHA6u2nBsvZalkut/YTSfEKaGodX0/DVyov0QSMEZ/jkLylp
g/lp2D1wsGvGaL037+Ahvif5W8X3IlAaghM9I6tLLBxIgtF9sKWktRLz7Ka/hNS30i2hmT9aZ/mnsd6LwP8Hkn
WQbrd0zbK7ygRnvMLkzFu+CvR0oj6whB8TM/L+u6onQRh/6feqqDRjd4wkTFfqw7D+DHyrGxGAaGGG3xcmgMRC
jwApVbfgU3mthTRoG4pvyTJjvAAK8jP/pgSWE8N9KcpI374mKnBZ1ZlYLxH8QD/bT4i3jclAboVzh26maZBHSF
8ljL4/BqTbdx00zolCZwaGmp+nJWYz0A5GE= abdo@abdo-Lenovo-Z50-70
abdo@659ba17a8242:~/.ssh$
```

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

```
o abdo@abdo-Lenovo-Z50-70:~/.ssh$ ssh -i devops abdo@172.17.0.2
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 6.2.0-32-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: Thu Sep 14 11:54:45 2023 from 172.17.0.1
abdo@659ba17a8242:~$ pwd
/home/abdo
abdo@659ba17a8242:~$
```

# Put the IP of host 1 in the inventory file and use the inventory file path in your ad-hoc command instead of using the IP hard-coded

## Create the configuration file Insert some values in the configuration file Run the minimized ad-hoc command

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insert the correct values in the configuration file Example: ansible all -m command -a "whoami"