

Install ansible

- ❑ Create a new user on control machine and new user on host 1
- ❑ Make sure you can ssh into host 1 (using password)
- ❑ Generate SSH key pair on control machine
- ❑ Copy the public key to host 1
- ❑ Make sure you can ssh into host 1 (using prv/pub)

```
root@ip-10-2-0-220:~# ansible --version
ansible 2.10.8
  config file = None
  configured module search path = ['/root/.ansible/plugins/modules', '/usr/share/ansible/plugins/modules']
  ansible python module location = /usr/lib/python3/dist-packages/ansible
  executable location = /usr/bin/ansible
  python version = 3.10.6 (main, Mar 10 2023, 10:55:28) [GCC 11.3.0]
root@ip-10-2-0-220:~#
```

```
root@ip-10-2-0-220:~# ssh -i ansible.pem ubuntu@44.195.40.226
Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.19.0-1025-aws x86_64)

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

System information as of Thu Sep 14 15:41:18 UTC 2023

System load:  0.0               Processes:           96
Usage of /:   20.5% of 7.57GB   Users logged in:    0
Memory usage: 24%              IPv4 address for eth0: 10.2.0.67
Swap usage:   0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

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.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-10-2-0-67:~$
```

Create the inventory file

❏ Put the IP of host 1 in the inventory file

❏ Use the inventory file path in your ad-hoc command instead of using
the IP hard-coded

❏ Example:

```
ansible all -i inventory --private-key ~/.ssh/devops -u ubuntu -m ping
```

```
root@ip-10-2-0-220:~/lab1# ansible all -i inventory --private-key /root/ansible.pem -u ubuntu -m ping
44.195.40.226 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": false,
  "ping": "pong"
}
root@ip-10-2-0-220:~/lab1#
```

❑ Create the configuration file

❑ Insert some values in the configuration file

❑ Run the minimized ad-hoc command

❑ Example: ansible all -m ping

```
[defaults]
inventory = /inventory
private_key_file = /root/ansible.pem
remote_user = ubuntu
~
~
~
~
~
```

```
root@ip-10-2-0-220:~/lab1# vim ansible.cfg
root@ip-10-2-0-220:~/lab1# ansible all -m ping
44.195.40.226 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": false,
  "ping": "pong"
}
root@ip-10-2-0-220:~/lab1#
```

Insert the correct values in the configuration file

❑ Example: ansible all -m command -a "whoami"

❑ What is the output of the command ?

```
[defaults]
inventory = ./inventory
private_key_file = /root/ansible.pem
remote_user = ubuntu

[privilege[escalation]
become = true
~
~
~
~
~
~
```

```
root@ip-10-2-0-220:~/lab1# vim ansible.cfg
root@ip-10-2-0-220:~/lab1# ansible all -m command -a "whoami"
44.195.40.226 | CHANGED | rc=0 >>
root
root@ip-10-2-0-220:~/lab1#
```