## establish a password less authentication from ACS server to Node

1. login with ACS machine

## ssh devops@<ACS public ip >

with devops user password

2. ssh-keygen (genarate the keygenarator pair for public and private ip) —> enter for defaults are fine for us

what happens after keygen is it will create new files(id\_rsa and id\_rsa.pub) gets created, you can check in the below path

Is ~/.ssh

3. node should know about the public key of ACS server, if we copy the public to node, then it will able to allow us to login because it know me public key

for that run the below command

ssh-copy-id devops@<node privide ip>
(enter the password of devops user of node)

4. try to connect the node from ACS ssh <private ip of node> // it will connect to the node without asking the password

you can verify authorized\_keys file in the node in the below path

cd ~/.ssh -> Is

5. execute ansible on ACS server

Add the inventory to hosts file cd /etc/ansible -> Is // hosts will exits

sudo mv hosts hosts.orig // rename the original hosts file to hosts.orig (for backup)

## sudo vi hosts // create new hosts file enter the node private ip and save the file. // adding inventory

ansible -m ping all // checking that ansible able to connect to the node

```
Projects — devops@ip-172-31-47-60: /etc/ansible — ssh devops@3.18.108.23...
 * Management:
                   https://landscape.canonical.com
 * Support:
                   https://ubuntu.com/advantage
  System information as of Mon Apr 12 11:28:10 UTC 2021
  System load: 0.0
                                  Processes:
  Usage of /: 17.2% of 7.69GB Users logged in:
                                 IP address for eth0: 172.31.41.115
  Memory usage: 20%
  Swap usage:
37 packages can be updated.
22 of these updates are security updates.
To see these additional updates run: apt list --upgradable
New release '20.04.2 LTS' available.
Run 'do-release-upgrade' to upgrade to it.
Last login: Mon Apr 12 11:26:07 2021 from 172.31.47.60
[devops@ip-172-31-41-115:~$ cd ~/.ssh
[devops@ip-172-31-41-115:~/.ssh$ ls
authorized_keys
[devops@ip-172-31-41-115:~/.ssh$ exit
logout
Connection to 172.31.41.115 closed.
[devops@ip-172-31-47-60:~$ cd /etc/ansible/
[devops@ip-172-31-47-60:/etc/ansible$ ls
ansible.cfg hosts roles
[devops@ip-172-31-47-60:/etc/ansible$ mv hosts hosts.orig
mv: cannot move 'hosts' to 'hosts.orig': Permission denied
[devops@ip-172-31-47-60:/etc/ansible$ sudo mv hosts hosts.orig
[devops@ip-172-31-47-60:/etc/ansible$ ls
ansible.cfg hosts.orig roles
devops@ip-172-31-47-60:/etc/ansible$ sudo vi hosts
devops@ip-172-31-47-60:/etc/ansible$ ansible -m ping all
[DEPRECATION WARNING]: Distribution Ubuntu 18.04 on host 172.31.41.115 should
use /usr/bin/python3, but is using /usr/bin/python for backward compatibility
with prior Ansible releases. A future Ansible release will default to using the
discovered platform python for this host. See https://docs.ansible.com/ansible
/2.9/reference_appendices/interpreter_discovery.html for more information. This
feature will be removed in version 2.12. Deprecation warnings can be disabled
by setting deprecation_warnings=False in ansible.cfg.
172.31.41.115 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python"
    "changed": false,
    "ping": "pong"
devops@ip-172-31-47-60:/etc/ansible$
```

now check for localhost // adding localhost in the inversory (hosts file) and verify

```
devopsSip-172-31-47-60:/etc/ansibleS wid via test
devopsSip-172-31-47-60:/etc/ansibleS wid via test
devopsSip-172-31-47-60:/etc/ansibleS anxible - ping all
devopsSip-172-31-47-60:/etc/ansibleSpring the Misser Superior Statistics
ECDSA key fineprint is SMA260:002318/ptyState to Misser Superior Statistics
discovered platform synthen for this host. See thissy/docs.ansible
discovered platform synthen for this host. See thissy/docs.ansible.com/ansible
discovered platform synthen for this host. See this synthen for the disabled
discovered platform synthen for this host. See this synthen for this syn
```

now ansible is able to login both the entries of hosts file (inventory)