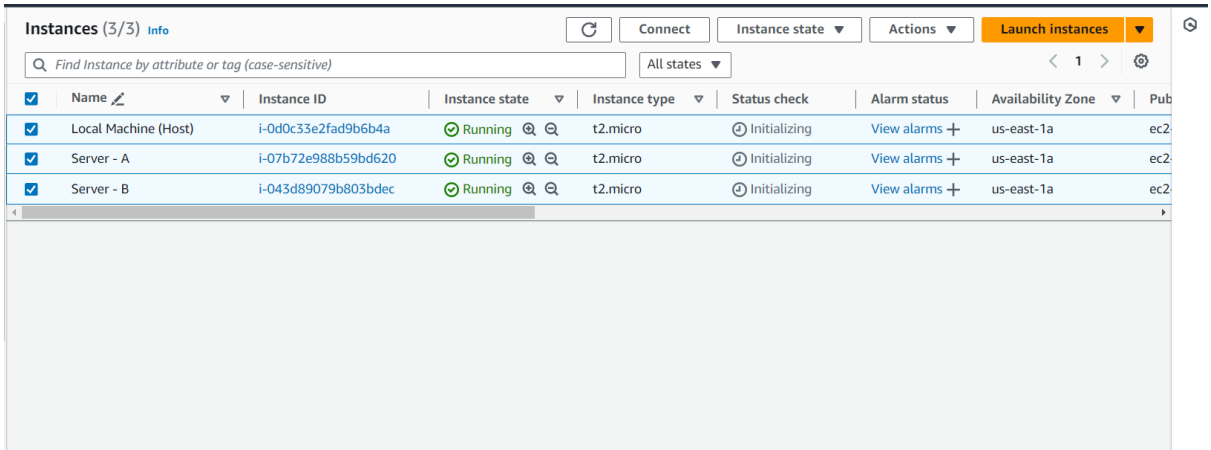
04: Creating the new user and group on remote server with the updated password.

Lab Setup:

Step 1: Launch a 3 instance, we use as 1 Local machine (Host), and 2 Remote servers.



Step 2: Define the hosts:

In the host's file

```
[root@ip-172-31-18-156 ~]# cd /etc/ansible
[root@ip-172-31-18-156 ansible]# ls
hosts  playbook  roles
[root@ip-172-31-18-156 ansible]# vi hosts
[root@ip-172-31-18-156 ansible]#
```

Step 3: Check the hosts list.

```
[root@ip-172-31-34-208 ansible]# ansible-inventory --list
{
    "_meta": {
        "hostvars": {}
    },
    "all": {
        "children": [
            "ungrouped"
        ]
    },
    "ungrouped": {
        "hosts": [
            "172.31.36.10",
            "172.31.47.127"
        ]
    }
}
[root@ip-172-31-34-208 ansible]#
```

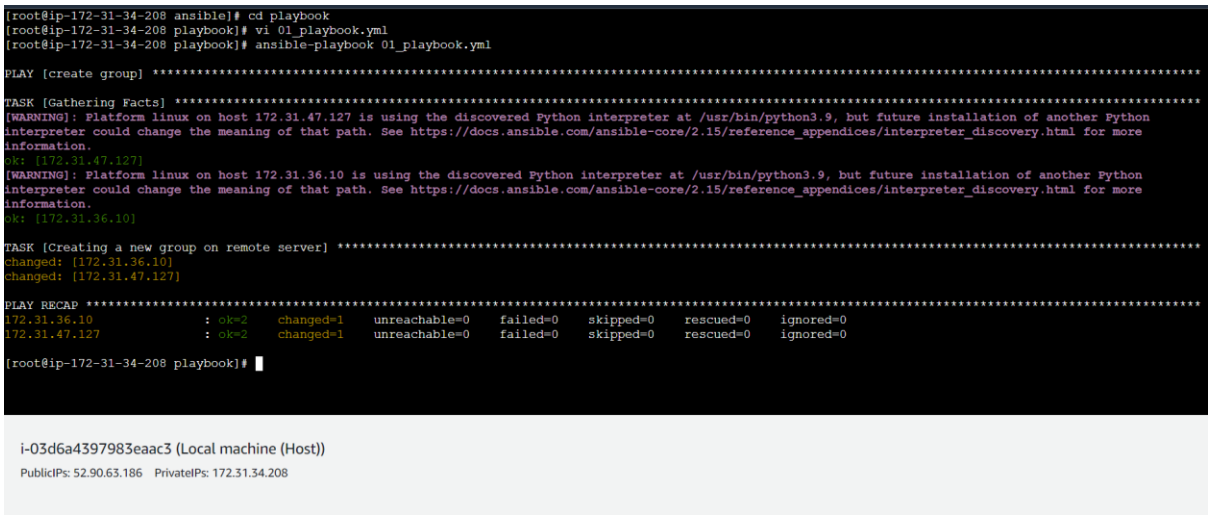
Step 4: Write .yml file for Creating group

```
---
- name: create group
  hosts: all

  tasks:
  - name: Creating a new group on remote server
    group:
      name: testing
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
"01_playbook.yml" 9L, 128B
```

i-03d6a4397983eaac3 (Local machine (Host))

PublicIPs: 52.90.63.186 PrivateIPs: 172.31.34.208

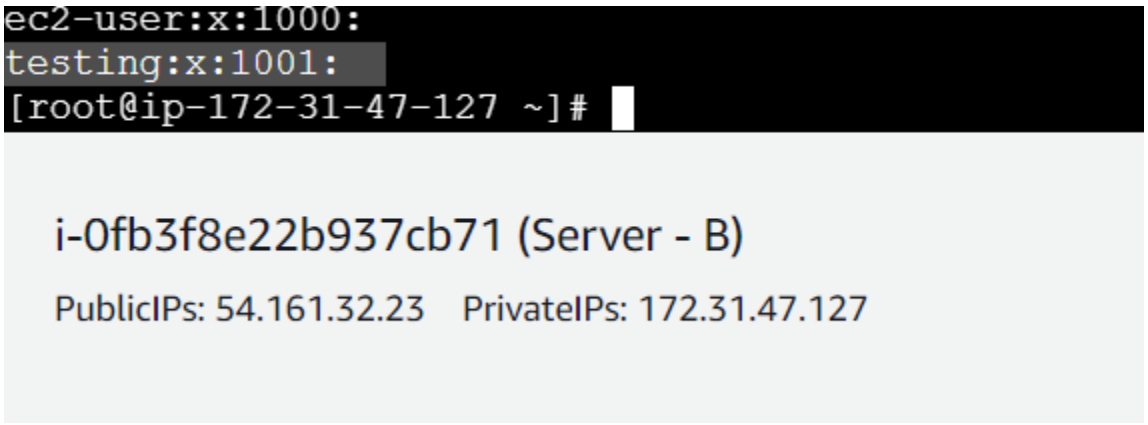
Step 5: Run the playbook file.



Step 6: Check the result

Server-A

Server-B



Create playbook for creating New user.

Step 7: Write a playbook

```
---
- name : creating the user
  hosts: all

  tasks:
  - name : creating new user on remote server
    user:
      name: swapnil
      comment: new user added
      shell: /bin/bash
      group: testing
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
-- INSERT --
```

i-03d6a4397983eaac3 (Local machine (Host))

PublicIPs: 52.90.63.186 PrivateIPs: 172.31.34.208

Step 8: Run the Playbook.

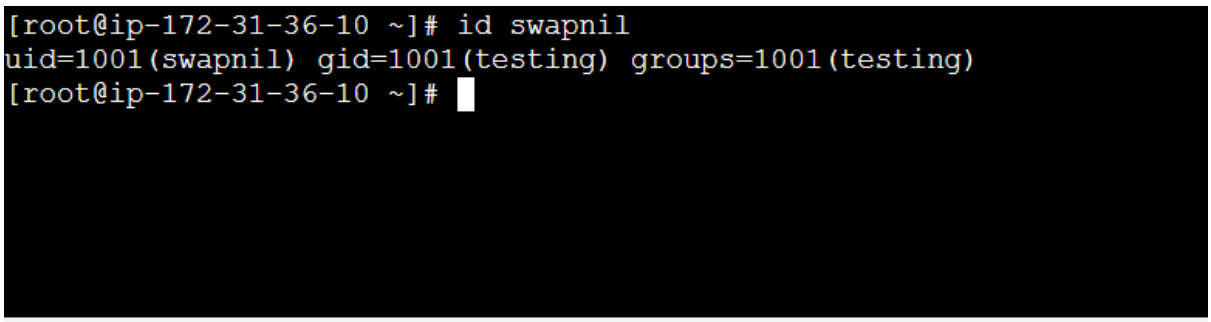
```
[root@ip-172-31-34-208 playbook]# vi 02_playbook.yml
[root@ip-172-31-34-208 playbook]# ls
01_playbook.yml  02_playbook.yml
[root@ip-172-31-34-208 playbook]# ansible-playbook 02_playbook.yml

PLAY [creating the user] ***********************************************************************************************************************************************

TASK [Gathering Facts] *************************************************************************************************************************************************
[WARNING]: Platform linux on host 172.31.47.127 is using the discovered Python interpreter at /usr/bin/python3.9, but future installation of another Python
interpreter could change the meaning of that path. See https://docs.ansible.com/ansible-core/2.15/reference_appendices/interpreter_discovery.html for more
information.
ok: [172.31.47.127]
[WARNING]: Platform linux on host 172.31.36.10 is using the discovered Python interpreter at /usr/bin/python3.9, but future installation of another Python
interpreter could change the meaning of that path. See https://docs.ansible.com/ansible-core/2.15/reference_appendices/interpreter_discovery.html for more
information.
ok: [172.31.36.10]

TASK [creating new user on remote server] ******************************************************************************************************************************
changed: [172.31.36.10]
changed: [172.31.47.127]

PLAY RECAP *************************************************************************************************************************************************************
172.31.36.10               : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
172.31.47.127              : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

[root@ip-172-31-34-208 playbook]#
```

i-03d6a4397983eaac3 (Local machine (Host))

PublicIPs: 52.90.63.186 PrivateIPs: 172.31.34.208

Step 9: check the result

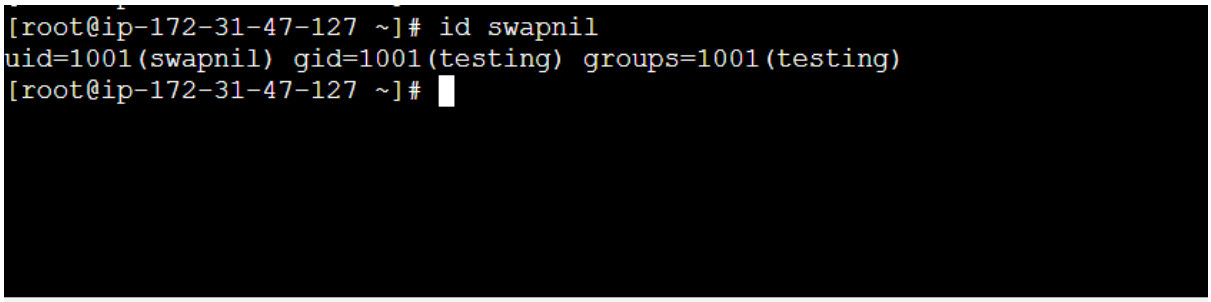
Server-A



i-022b95624a33c2f5b (Server - A)

PublicIPs: 54.211.253.112 PrivateIPs: 172.31.36.10

Server-B



i-0fb3f8e22b937cb71 (Server - B)

PublicIPs: 54.161.32.23 PrivateIPs: 172.31.47.127

Adding password to the new user:

Step 10: Create a new playbook.

```
---
- name: assing password to user
  hosts: all

  tasks:
  - name : password.
    user:
      name: swapnil
      update_password: always
      password: "{{'Testing@123' | password_hash('sha512')}}"
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
-- INSERT --
```

i-03d6a4397983eaac3 (Local machine (Host))

PublicIPs: 52.90.63.186 PrivateIPs: 172.31.34.208

Step 11: Run the playbook

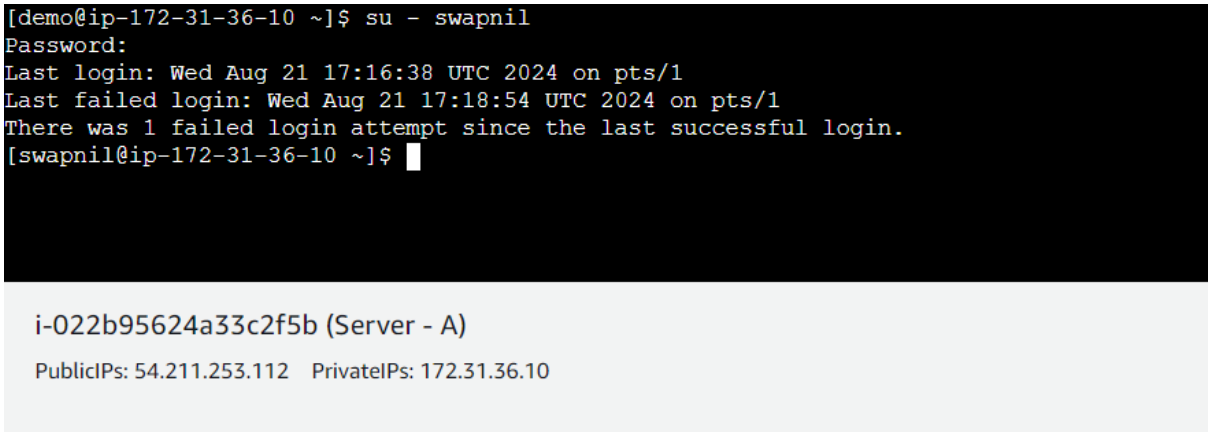
```
[root@ip-172-31-34-208 playbook]# vi 03_playbook.yml
[root@ip-172-31-34-208 playbook]# ls
01_playbook.yml  02_playbook.yml  03_playbook.yml
[root@ip-172-31-34-208 playbook]# ansible-playbook 03_playbook.yml

PLAY [assing password to user] ************************************************************************************************************************************************

TASK [Gathering Facts] ********************************************************************************************************************************************************
[WARNING]: Platform linux on host 172.31.36.10 is using the discovered Python interpreter at /usr/bin/python3.9, but future installation of another Python
interpreter could change the meaning of that path. See https://docs.ansible.com/ansible-core/2.15/reference_appendices/interpreter_discovery.html for more
information.
ok: [172.31.36.10]
[WARNING]: Platform linux on host 172.31.47.127 is using the discovered Python interpreter at /usr/bin/python3.9, but future installation of another Python
interpreter could change the meaning of that path. See https://docs.ansible.com/ansible-core/2.15/reference_appendices/interpreter_discovery.html for more
information.
ok: [172.31.47.127]

TASK [password.] **************************************************************************************************************************************************************
[DEPRECATION WARNING]: Encryption using the Python crypt module is deprecated. The Python crypt module is deprecated and will be removed from Python 3.13.
Install the passlib library for continued encryption functionality. This feature will be removed in version 2.17. Deprecation warnings can be disabled by setting
 deprecation_warnings=False in ansible.cfg.
[DEPRECATION WARNING]: Encryption using the Python crypt module is deprecated. The Python crypt module is deprecated and will be removed from Python 3.13.
Install the passlib library for continued encryption functionality. This feature will be removed in version 2.17. Deprecation warnings can be disabled by setting
 deprecation_warnings=False in ansible.cfg.
changed: [172.31.47.127]
changed: [172.31.36.10]

PLAY RECAP ********************************************************************************************************************************************************************
172.31.36.10               : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
172.31.47.127              : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

[root@ip-172-31-34-208 playbook]#
```

i-03d6a4397983eaac3 (Local machine (Host))

PublicIPs: 52.90.63.186 PrivateIPs: 172.31.34.208

Step 12: Check the result, password is required when we login.

Server-A



Server-B