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## Instances (1/2) Info

[ C ]    [ Connect ]    [ Instance state ▼ ]    [ Actions ▼ ]    [ **Launch instances** ]    [ ▼ ]

< 1 >    ⚙

🔍 Filter instances

| ☐ | Name ▽ | Instance ID | Instance state ▽ | Instance type ▽ | Status check | Alarm status | Availability Zone ▽ | Public IPv4 DNS |
|---|---|---|---|---|---|---|---|---|
| ☑ | Ansible-master | i-0445f9635fe0e4b90 | ⊘ Running ⊕⊖ | t2.micro | – | No alarms ➕ | ap-south-1b | ec2-65-1-106-54 |
| ☐ | Ansible-slave | i-0d8c5b2a984d3a9e8 | ⊘ Running ⊕⊖ | t2.micro | – | No alarms ➕ | ap-south-1b | ec2-13-233-145- |

=

### Instance: i-0445f9635fe0e4b90 (Ansible-master)    ✕

| Details | Security | Networking | Storage | Status checks | Monitoring | Tags |

▼ **Instance summary** Info

Instance ID
⧉ i-0445f9635fe0e4b90 (Ansible-master)

Public IPv4 address
⧉ 65.1.106.54 | open address ↗

Private IPv4 addresses
⧉ 172.31.14.63

IPv6 address
–

Instance state
⊘ Running

Public IPv4 DNS
⧉ ec2-65-1-106-54.ap-south-1.compute.amazonaws.com
| open address ↗

```
                                                        ubuntu@ip-172-31-14-63: ~                        —    □    ✕

     login as: ubuntu
     Authenticating with public key "ssh"
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.11.0-1017-aws x86_64)

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

  System information as of Sat Sep 25 07:01:12 UTC 2021

  System load:  0.01              Processes:               104
  Usage of /:   27.4% of 7.69GB   Users logged in:         0
  Memory usage: 20%               IPv4 address for eth0: 172.31.14.63
  Swap usage:   0%


72 updates can be applied immediately.
1 of these updates is a standard security update.
To see these additional updates run: apt list --upgradable


Last login: Fri Sep 24 07:08:32 2021 from 115.99.107.65
ubuntu@ip-172-31-14-63:~$ █
```

```
login as: ubuntu
Authenticating with public key "ssh"
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.11.0-1017-aws x86_64)

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

  System information as of Sat Sep 25 07:39:46 UTC 2021

  System load:  0.0               Processes:             103
  Usage of /:   25.6% of 7.69GB   Users logged in:       0
  Memory usage: 19%               IPv4 address for eth0: 172.31.12.130
  Swap usage:   0%


73 updates can be applied immediately.
1 of these updates is a standard security update.
To see these additional updates run: apt list --upgradable


Last login: Sat Sep 25 07:08:05 2021 from 65.1.106.54
ubuntu@ip-172-31-12-130:~$
```

```
ubuntu@ip-172-31-14-63: ~                                    —    □    ✕

ubuntu@ip-172-31-14-63:~$ ansible --version
ansible 2.9.6
  config file = /etc/ansible/ansible.cfg
  configured module search path = ['/home/ubuntu/.ansible/plugins/modules', '/us
r/share/ansible/plugins/modules']
  ansible python module location = /usr/lib/python3/dist-packages/ansible
  executable location = /usr/bin/ansible
  python version = 3.8.10 (default, Jun  2 2021, 10:49:15) [GCC 9.4.0]
ubuntu@ip-172-31-14-63:~$
```

```
ubuntu@ip-172-31-14-63:~$ cd .ssh
ubuntu@ip-172-31-14-63:~/.ssh$ ls
authorized_keys  id_rsa  id_rsa.pub  known_hosts
ubuntu@ip-172-31-14-63:~/.ssh$ cat id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABgQClDCCq5oNuPZOOYKI8Ad7ac8VnU84IqOnC1zE78Q7Y
DkzZijhttV+ETK2+uhceOp5UbWYbtdpYabHehkncmAoSZSdgdWhjqOzNmqrSvRsme7ad/x7nQmB8Yjpx
OnWTtE9bICDRraGNKz2u4Iz6JrC/APeO6NJJQbH0cnnfitZtglQAMZO7+CpV0rVo3HohoIfV3fwQM923
Nhe59kcl3dp+t9KyWI4AvKbhwHSrNzY8zqHB4GBYs39eLN11B5cPENQ3TpPZ8ynMyjNvtJ8fSV1xe1vo
+XyQ8sePqFkNdo9gVGIsivcNFhp/X+ss8lUZe+IR7yLjt6046c6bT9zbZoQdQAIgUTGcRATEcd2x4Al0
Koz+GTIaZaOWqpMQazdmYohcWHBSnAt16lWtTXRyXbZkhygFwSOqM8mrD6Oxt5JaBKQECAP4vknJSdY5
GRJq4mPUdLs+rPJ9gZUKzraEvuk74zo0+c4gmEVRO7K7NmHAtBfchNeGlGhKdvmBMpKA5jM= ubuntu@
ip-172-31-14-63
ubuntu@ip-172-31-14-63:~/.ssh$ cat authorized keys
cat: authorized: No such file or directory
cat: keys: No such file or directory
ubuntu@ip-172-31-14-63:~/.ssh$ cat authorized_keys
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQDBaXXwV9jxi+ybNGB2kVxw354b2nwkVBYBzuS8cqij
SwMW8dfLgk1ONbJ1v7/vAoDsDV2GQ39h1lLQZ65nNLu21r4VyiIOyp4ZPYrGR01dZ/PfAh6kdVP5MJ9Z
f1qMd5aT+KFlwhr61apqW6SSM0segchZ/+8YTxwnHd+tQo2wkqK9ludnKCXxWQWSfhI/421b/UNVduGZ
VDSeXKQ35j60gh26gjHSXIXZ0CDUpsJt1LgiUNMgbFLhkG3dVhCh9TH24ItguBABMM9F1rESfd+GzlkH
cP9GXcpIaEof9Qn/g4L0o8PGAHHPW8vqZNAcwbWEmoomPOcOJWK3dpBhGyDn ssh
ubuntu@ip-172-31-14-63:~/.ssh$ █
```

```
ubuntu@ip-172-31-14-63:~/.ssh$ ssh ubuntu@13.233.145.17
The authenticity of host '13.233.145.17 (13.233.145.17)' can't be established.
ECDSA key fingerprint is SHA256:Aox1GQAMVQ3yIbLbYU+qAZzcUb8zOVNlNkZptRgU+i8.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '13.233.145.17' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.11.0-1017-aws x86_64)

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

  System information as of Sat Sep 25 07:08:04 UTC 2021

  System load:  0.0               Processes:               101
  Usage of /:   25.6% of 7.69GB   Users logged in:         0
  Memory usage: 19%               IPv4 address for eth0:   172.31.12.130
  Swap usage:   0%


73 updates can be applied immediately.
1 of these updates is a standard security update.
To see these additional updates run: apt list --upgradable


Last login: Fri Sep 24 07:12:24 2021 from 65.0.180.105
ubuntu@ip-172-31-12-130:~$
```

```
# If you have multiple hosts following a pattern you can specify
# them like this:

#www[001:006].example.com

# Ex 3: A collection of database servers in the 'dbservers' group

#[dbservers]
#
#db01.intranet.mydomain.net
#db02.intranet.mydomain.net
#10.25.1.56
#10.25.1.57

# Here's another example of host ranges, this time there are no
# leading 0s:

#db-[99:101]-node.example.com

[users]
13.233.145.17 ansible_user=ubuntu port=22

[users:vars]
ansible_ssh_common_args="-o StrictHostkeyChecking=no"
```

                              [ Wrote 52 lines ]
^G Get Help      ^O Write Out     ^W Where Is      ^K Cut Text      ^J Justify       ^C Cur Pos       M-U Undo
^X Exit          ^R Read File     ^\ Replace       ^U Paste Text    ^T To Spell      ^  Go To Line    M-E Redo

```yaml
---
- name: "Playbook to Create User and  Add Key to EC2 Instance"
  hosts: users
  become: true
  tasks:

  - name : "Create Groups"
    group:
      name: "{{item}}"
      state: "present"
    with_items:
      - adminteam
      - devopsteam

  - name : "Create a user"
    user:
       name: "{{item.name}}"
       create_home: yes
       group: "{{item.group}}"
       state: present
       ssh_key_file: .ssh/id_rsa
       ssh_key_type: rsa
    with_items:
      - { name: 'nisheer', group: 'adminteam'}
      - { name: 'vishal', group: 'devopsteam'}
      - { name: 'dhanush', group: 'adminteam'}
      - { name: 'abdul', group: 'devopsteam'}

  - name: "Copy the authorized key file from"
    authorized_key:
      user: "{{item.name}}"
      state: "{{item.userstate}}"
      key: "{{ lookup('file', '{{ item.key }}')}}"
    with_items:
      - { name: 'nisheer', key: '/home/ubuntu/.ssh/keys.pub', userstate: 'present'}
      - { name: 'vishal', key: '/home/ubuntu/.ssh/keys.pub', userstate: 'present'}
      - { name: 'dhanush', key: '/home/ubuntu/.ssh/keys.pub', userstate: 'present'}
      - { name: 'abdul', key: '/home/ubuntu/.ssh/keys.pub', userstate: 'present'}
```

```
ubuntu@ip-172-31-14-63:/etc/ansible$ ansible-playbook create_users.yml -i hosts --key-file=/home/ubuntu/.ssh/id_rsa

PLAY [Playbook to Create User and  Add Key to EC2 Instance] ******************************

TASK [Gathering Facts] ******************************************************************
[DEPRECATION WARNING]: Distribution Ubuntu 20.04 on host 13.233.145.17 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.
ok: [13.233.145.17]

TASK [Create Groups] ********************************************************************
ok: [13.233.145.17] => (item=adminteam)
ok: [13.233.145.17] => (item=devopsteam)

TASK [Create a user] ********************************************************************
ok: [13.233.145.17] => (item={'name': 'nisheer', 'group': 'adminteam'})
ok: [13.233.145.17] => (item={'name': 'vishal', 'group': 'devopsteam'})
ok: [13.233.145.17] => (item={'name': 'dhanush', 'group': 'adminteam'})
ok: [13.233.145.17] => (item={'name': 'abdul', 'group': 'devopsteam'})

TASK [Copy the authorized key file from] **********************************************
ok: [13.233.145.17] => (item={'name': 'nisheer', 'key': '/home/ubuntu/.ssh/keys.pub', 'userstate': 'present'})
ok: [13.233.145.17] => (item={'name': 'vishal', 'key': '/home/ubuntu/.ssh/keys.pub', 'userstate': 'present'})
ok: [13.233.145.17] => (item={'name': 'dhanush', 'key': '/home/ubuntu/.ssh/keys.pub', 'userstate': 'present'})
ok: [13.233.145.17] => (item={'name': 'abdul', 'key': '/home/ubuntu/.ssh/keys.pub', 'userstate': 'present'})

PLAY RECAP ****************************************************************************
13.233.145.17              : ok=4    changed=0    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

ubuntu@ip-172-31-14-63:/etc/ansible$
```

```
ubuntu@ip-172-31-12-130:~/.ssh$ cd ..
ubuntu@ip-172-31-12-130:~$ ls
ubuntu@ip-172-31-12-130:~$ pwd
/home/ubuntu
ubuntu@ip-172-31-12-130:~$ cd ..
ubuntu@ip-172-31-12-130:/home$ ls
abdul   dhanush   nisheer   ubuntu   vishal
ubuntu@ip-172-31-12-130:/home$ ssh abdul@172.31.12.130
The authenticity of host '172.31.12.130 (172.31.12.130)' can't be established.
ECDSA key fingerprint is SHA256:Aox1GQAMVQ3yIbLbYU+qAZzcUb8zOVNlNkZptRgU+i8.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '172.31.12.130' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.11.0-1017-aws x86_64)

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

  System information as of Sat Sep 25 07:59:41 UTC 2021

  System load:  0.02              Processes:             109
  Usage of /:   25.7% of 7.69GB   Users logged in:       1
  Memory usage: 20%               IPv4 address for eth0: 172.31.12.130
  Swap usage:   0%


73 updates can be applied immediately.
1 of these updates is a standard security update.
To see these additional updates run: apt list --upgradable




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.

$ who am i
abdul    pts/1        2021-09-25 07:59 (172.31.12.130)
$ exit
Connection to 172.31.12.130 closed.
ubuntu@ip-172-31-12-130:/home$
```

```
ubuntu@ip-172-31-12-130:/home$ ssh dhanush@172.31.12.130
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.11.0-1017-aws x86_64)

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

  System information as of Sat Sep 25 08:04:40 UTC 2021

  System load:  0.01              Processes:             108
  Usage of /:   25.9% of 7.69GB   Users logged in:       1
  Memory usage: 20%               IPv4 address for eth0: 172.31.12.130
  Swap usage:   0%


73 updates can be applied immediately.
1 of these updates is a standard security update.
To see these additional updates run: apt list --upgradable




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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.

$ who am i
dhanush   pts/1        2021-09-25 08:04 (172.31.12.130)
$ exit
Connection to 172.31.12.130 closed.
ubuntu@ip-172-31-12-130:/home$
```

```
ubuntu@ip-172-31-12-130:/home$ ssh nisheer@172.31.12.130
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.11.0-1017-aws x86_64)

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

  System information as of Sat Sep 25 08:02:35 UTC 2021

  System load:  0.08               Processes:             109
  Usage of /:   25.8% of 7.69GB    Users logged in:       1
  Memory usage: 20%                IPv4 address for eth0: 172.31.12.130
  Swap usage:   0%


73 updates can be applied immediately.
1 of these updates is a standard security update.
To see these additional updates run: apt list --upgradable



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.

$ who am i
nisheer  pts/1        2021-09-25 08:02 (172.31.12.130)
$ exit
Connection to 172.31.12.130 closed.
ubuntu@ip-172-31-12-130:/home$
```

```
ubuntu@ip-172-31-12-130:/home$ ssh vishal@172.31.12.130
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.11.0-1017-aws x86_64)

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

  System information as of Sat Sep 25 08:05:22 UTC 2021

  System load:  0.0                Processes:             108
  Usage of /:   26.0% of 7.69GB    Users logged in:       1
  Memory usage: 20%                IPv4 address for eth0: 172.31.12.130
  Swap usage:   0%


73 updates can be applied immediately.
1 of these updates is a standard security update.
To see these additional updates run: apt list --upgradable




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.

$ who am i
vishal   pts/1        2021-09-25 08:05 (172.31.12.130)
$ exit
Connection to 172.31.12.130 closed.
ubuntu@ip-172-31-12-130:/home$
```

ubuntu@ip-172-31-14-63: /etc/ansible

```
ubuntu@ip-172-31-14-63:/etc/ansible$ cat apache.yml
---
- hosts: all
  become: true

  tasks:
    - name: Install prerequisites
      apt: name={{ item }} update_cache=yes state=latest force_apt_get=yes
      loop: [ 'aptitude' ]

    - name: Install Apache
      apt: name=apache2 update_cache=yes state=latest

  handlers:
    - name: Reload Apache
      service:
        name: apache2
        state: reloaded

    - name: Restart Apache
      service:
        name: apache2
        state: restarted
ubuntu@ip-172-31-14-63:/etc/ansible$ ansible-playbook apache.yml -i hosts --key-file=/home/ubuntu/.ssh/id_rsa

PLAY [all] ***********************************************************

TASK [Gathering Facts] **********************************************
[DEPRECATION WARNING]: Distribution Ubuntu 20.04 on host 13.232.245.243 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.
ok: [13.232.245.243]

TASK [Install prerequisites] ****************************************
ok: [13.232.245.243] => (item=aptitude)

TASK [Install Apache] ***********************************************
ok: [13.232.245.243]

PLAY RECAP **********************************************************
13.232.245.243             : ok=3    changed=0    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```