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https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#Instances:

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| <input type="checkbox"/> | Name ▾ | Instance ID | Instance state ▾ | Instance type ▾ | Status check | Alarm status | Availability Zone ▾ | Public IPv4 DNS |
|-------------------------------------|----------------|---------------------|------------------|-----------------|--------------|--------------|---------------------|-----------------|
| <input checked="" type="checkbox"/> | Ansible-master | i-0445f9635fe0e4b90 | 🟢 Running 🔍 | t2.micro | – | No alarms + | ap-south-1b | ec2-65-1-106-54 |
| <input type="checkbox"/> | 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 | Public IPv4 address | Private IPv4 addresses |
| 📄 i-0445f9635fe0e4b90 (Ansible-master) | 📄 65.1.106.54 open address | 📄 172.31.14.63 |
| IPv6 address | Instance state | Public IPv4 DNS |
| – | 🟢 Running | 📄 ec2-65-1-106-54.ap-south-1.compute.amazonaws.com open address |

Feedback

English (US) ▾

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```
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:~$
```

```
ubuntu@ip-172-31-12-130: ~  
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', '/usr/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: ~/.ssh
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 AAAAB3NzaC1yc2EAAAADAQABAAQgQC1DCCq5oNuPZOYKI8Ad7ac8VnU84IqOnC1zE78Q7Y
DkzZijhttV+ETK2+uhceOp5UbWYbtdpYabHehkncmAoSZSdgdWhjqOzNmqrSvRsme7ad/x7nQmB8Yjpx
OnWTTtE9bICDRraGNKz2u4Iz6JrC/APeO6NJJQbH0cnnfitZtg1QAMZO7+CpV0rVo3HohoIfV3fwQM923
Nhe59kcl3dp+t9KyWI4AvKbhwHSrNzY8zqHB4GBYs39eLN11B5cPENQ3TpPZ8ynMyjNvtJ8fSV1xe1vo
+XyQ8sePqFkNdo9gVGIsivcNFhp/X+ss8lUZe+IR7yLjt6046c6bT9zbZoQdQAIgUTGcRATEcd2x4A10
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 AAAAB3NzaC1yc2EAAAADAQABAAQgQDBaXXwV9jxi+ybNGB2kVxw354b2nwkvBYBzuS8cqij
SwMW8dfLgklONbJ1v7/vAoDsDV2GQ39h11LQZ65nNLu21r4VyiIOyp4ZPYrGR01dZ/PfAh6kdVP5MJ9Z
flqMd5aT+KFlwhr6lapqW6SSM0segchZ/+8YTxwnHd+tQo2wkqK9ludnKCXxWQWSfhI/421b/UNVduGZ
VDSeXKQ35j60gh26gjHSXIXZ0CDUpsJt1LgiUNMgbFLhkG3dVhCh9TH24ItguBABMM9F1rESfd+Gz1kH
cP9GXcpIaEof9Qn/g4L0o8PGAHPW8vqZNAcwbWEoomPOCOJWK3dpBhGyDn ssh
ubuntu@ip-172-31-14-63:~/.ssh$
```

```
ubuntu@ip-172-31-12-130: ~  
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: ~$
```

```
ubuntu@ip-172-31-14-63: /etc/ansible
GNU nano 4.8 hosts
# 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
```

```
---
- 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

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: /home

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

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

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

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\$