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Instances (1/2)

Info

Filter instances

Instance state: running

Clear filters

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DN
<input type="checkbox"/>	Ansible Master	i-00c4a32a76f7f1455	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1b	ec2-3-109-55-
<input checked="" type="checkbox"/>	Ansible Slave	i-0c02567107e1219dd	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1b	ec2-13-233-70-

Instance: i-0c02567107e1219dd

Details

Security

Networking

Storage

Status checks

Monitoring

Tags

Instance summary

Info

Instance ID	Public IPv4 address	Private IPv4 addresses
<div>i-0c02567107e1219dd</div>	<div>13.233.70.233</div> <div>open address</div>	<div>172.31.8.27</div>
IPv6 address	Instance state	Public IPv4 DNS
-	Running	<div>ec2-13-233-70-233.ap-south-1.compute.amazonaws.com</div> <div>open address</div>
Private IPv4 DNS	Instance type	Elastic IP addresses
<div>ip-172-31-8-27.ap-south-1.compute.internal</div>	t2.micro	-

System information as of Fri Sep 24 05:43:48 UTC 2021

System load:	0.01	Processes:	95
Usage of /:	14.7% of 7.69GB	Users logged in:	0
Memory usage:	19%	IP address for eth0:	172.31.10.229
Swap usage:	0%		

0 packages can be updated.

0 of these updates are security updates.

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-172-31-10-229:~\$

ubuntu@ip-172-31-8-27: ~

System information as of Fri Sep 24 05:45:42 UTC 2021

System load:	0.0	Processes:	94
Usage of /:	14.7% of 7.69GB	Users logged in:	0
Memory usage:	19%	IP address for eth0:	172.31.8.27
Swap usage:	0%		

0 packages can be updated.

0 of these updates are security updates.

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-172-31-8-27:~\$



ubuntu@ip-172-31-10-229: ~



```
ubuntu@ip-172-31-10-229:~$ sudo apt update
Hit:1 http://ppa.launchpad.net/ansible/ansible/ubuntu bionic InRelease
Hit:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu bionic InRelease
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu bionic-updates InRelease
Hit:4 http://security.ubuntu.com/ubuntu bionic-security InRelease
Hit:5 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu bionic-backports InRelease
Reading package lists... Done
Building dependency tree
Reading state information... Done
80 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ip-172-31-10-229:~$ clear
ubuntu@ip-172-31-10-229:~$ sudo apt install ansible
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libpython-stdlib libpython2.7-minimal libpython2.7-stdlib python
  python-asn1crypto python-cffi-backend python-crypto python-cryptography
  python-enum34 python-httplib2 python-idna python-ipaddress python-jinja2
  python-markupsafe python-minimal python-paramiko python-pkg-resources
  python-pyasn1 python-setuptools python-six python-yaml python2.7
  python2.7-minimal sshpass
Suggested packages:
  python-doc python-tk python-crypto-doc python-cryptography-doc
```



ubuntu@ip-172-31-10-229: ~/.ssh



```
ubuntu@ip-172-31-10-229:~$ ssh ubuntu@172.31.8.27
The authenticity of host '172.31.8.27 (172.31.8.27)' can't be established.
ECDSA key fingerprint is SHA256:wCcKIGYo8Ecp03ohqKd0PV/iO3q/QkdWTg/RqpnHTZA.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '172.31.8.27' (ECDSA) to the list of known hosts.
ubuntu@172.31.8.27: Permission denied (publickey).
ubuntu@ip-172-31-10-229:~$ cd .ssh/
ubuntu@ip-172-31-10-229:~/.ssh$ ls
authorized_keys  known_hosts
ubuntu@ip-172-31-10-229:~/.ssh$
```




ubuntu@ip-172-31-10-229: ~/.ssh



```
ubuntu@ip-172-31-10-229:~/.ssh$ ssh-keygen
```

```
Generating public/private rsa key pair.
```

```
Enter file in which to save the key (/home/ubuntu/.ssh/id_rsa):
```

```
Enter passphrase (empty for no passphrase):
```

```
Enter same passphrase again:
```

```
Your identification has been saved in /home/ubuntu/.ssh/id_rsa.
```

```
Your public key has been saved in /home/ubuntu/.ssh/id_rsa.pub.
```

```
The key fingerprint is:
```

```
SHA256:uf7MS8wB745pPFWjMRxk2+9vLrJc2F5YQ3f8OULoxgI ubuntu@ip-172-31-10-229
```

```
The key's randomart image is:
```

```
+---[RSA 2048]---+
```

```
|      .o      |  
|     ..o    . |  
|    .E.... .+ |  
|    += B.. = |  
|    S o* B.+o |  
|    =o.o+.oo |  
|    ...= . = . |  
|    .+B ..o.o. |  
|    .+o*.oo.+o |
```

```
+----[SHA256]-----+
```

```
ubuntu@ip-172-31-10-229:~/.ssh$ ls
```

```
authorized_keys  id_rsa  id_rsa.pub  known_hosts
```

```
ubuntu@ip-172-31-10-229:~/.ssh$
```



ubuntu@ip-172-31-8-27: ~



```
ubuntu@ip-172-31-10-229:~/.ssh$ cd ..
```

```
ubuntu@ip-172-31-10-229:~$ clear
```

```
ubuntu@ip-172-31-10-229:~$ ssh ubuntu@172.31.8.27
```

```
Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 5.4.0-1045-aws x86_64)
```

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

```
System information as of Fri Sep 24 05:57:30 UTC 2021
```

System load:	0.0	Processes:	96
Usage of /:	17.3% of 7.69GB	Users logged in:	1
Memory usage:	20%	IP address for eth0:	172.31.8.27
Swap usage:	0%		

```
85 packages can be updated.
```

```
60 of these updates are security updates.
```

```
To see these additional updates run: apt list --upgradable
```

```
New release '20.04.3 LTS' available.
```

```
Run 'do-release-upgrade' to upgrade to it.
```

ubuntu@ip-172-31-10-229: /etc/ansible

GNU nano 2.9.3

hosts

```
# leading 0s:
```

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

```
[production]
```

```
13.233.70.233 ansible_user=ubuntu port=22
```

```
[production:vars]
```

```
ansible_ssh_common_args="-o StrictHostkeyChecking=no"
```

^G Get Help

^O Write Out

^W Where Is

^K Cut Text

^J Justify

^C Cur Pos

^X Exit

^R Read File

^_ Replace

^U Uncut Text

^T To Spell

^ Go To Line


```
---
- name: "Playbook to Create User and Add Key to EC2 Instance"
  hosts: production
  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: /home/ubuntu/.ssh/id_rsa.pub
      ssh_key_type: rsa
    with_items:
      - { name: 'pavan', group: 'adminteam'}
      - { name: 'kalyan', group: 'adminteam'}
      - { name: 'raghu', group: 'devopsteam'}
      - { name: 'darshan', 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: 'pavan', key: '/home/ubuntu/.ssh/pavan.pub' , userstate: 'present'}
      - { name: 'kalyan', key: '/home/ubuntu/.ssh/kalyan.pub' , userstate: 'present'}
      - { name: 'raghu', key: '/home/ubuntu/.ssh/raghu.pub', userstate: 'present'}
      - { name: 'darshan', key: '/home/ubuntu/.ssh/darshan.pub', userstate: 'present'}
```

[Wrote 49 lines]

ubuntu@ip-172-31-10-229: /etc/ansible

```
ubuntu@ip-172-31-10-229:/etc/ansible$ ansible-playbook /etc/ansible/keys.yml -i /etc/ansible/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 18.04 on host 13.233.70.233 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: [13.233.70.233]
```

```
TASK [Create Groups] *****
ok: [13.233.70.233] => (item=adminteam)
ok: [13.233.70.233] => (item=devopsteam)
```

```
TASK [Create a user] *****
ok: [13.233.70.233] => (item={u'group': u'adminteam', u'name': u'pavan'})
ok: [13.233.70.233] => (item={u'group': u'adminteam', u'name': u'kalyan'})
ok: [13.233.70.233] => (item={u'group': u'devopsteam', u'name': u'raghu'})
ok: [13.233.70.233] => (item={u'group': u'devopsteam', u'name': u'darshan'})
```

```
TASK [Copy the authorized key file from] *****
ok: [13.233.70.233] => (item={u'name': u'pavan', u'key': u'/home/ubuntu/.ssh/pavan.pub', u'userstate': u'present'})
ok: [13.233.70.233] => (item={u'name': u'kalyan', u'key': u'/home/ubuntu/.ssh/kalyan.pub', u'userstate': u'present'})
ok: [13.233.70.233] => (item={u'name': u'raghu', u'key': u'/home/ubuntu/.ssh/raghu.pub', u'userstate': u'present'})
ok: [13.233.70.233] => (item={u'name': u'darshan', u'key': u'/home/ubuntu/.ssh/darshan.pub', u'userstate': u'present'})
```

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

```
ubuntu@ip-172-31-10-229:/etc/ansible$
```



ubuntu@ip-172-31-8-27: /home



```
ubuntu@ip-172-31-8-27:~/.ssh$ cd ..
ubuntu@ip-172-31-8-27:~$ ls
ubuntu@ip-172-31-8-27:~$ cd ..
ubuntu@ip-172-31-8-27:/home$ ls
ubuntu
ubuntu@ip-172-31-8-27:/home$
ubuntu@ip-172-31-8-27:/home$
ubuntu@ip-172-31-8-27:/home$ ls
darshan kalyan pavan raghu ubuntu
ubuntu@ip-172-31-8-27:/home$
```


ubuntu@ip-172-31-8-27: /home

```
ubuntu@ip-172-31-8-27:/home$ ssh -p 22 -i ~/.ssh/id_rsa pavan@172.31.8.27
The authenticity of host '172.31.8.27 (172.31.8.27)' can't be established.
ECDSA key fingerprint is SHA256:wCcKIGYo8Ecp03ohqKd0PV/iO3q/QkdWTg/RqpnHTZA.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '172.31.8.27' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 5.4.0-1045-aws x86_64)
```

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

System information as of Fri Sep 24 06:22:06 UTC 2021

```
System load:  0.02           Processes:            99
Usage of /:   17.4% of 7.69GB Users logged in:       1
Memory usage: 21%           IP address for eth0: 172.31.8.27
Swap usage:   0%
```

```
85 packages can be updated.
60 of these updates are security updates.
To see these additional updates run: apt list --upgradable
```

```
New release '20.04.3 LTS' available.
Run 'do-release-upgrade' to upgrade to it.
```

```
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.
```

```
$ whoami
pavan
$ █
```

ubuntu@ip-172-31-8-27: /home

ubuntu@ip-172-31-8-27:/home\$ ssh -p 22 kalyan@172.31.8.27
Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 5.4.0-1045-aws x86_64)

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

System information as of Fri Sep 24 06:23:21 UTC 2021

System load:	0.0	Processes:	99
Usage of /:	17.5% of 7.69GB	Users logged in:	1
Memory usage:	21%	IP address for eth0:	172.31.8.27
Swap usage:	0%		

85 packages can be updated.
60 of these updates are security updates.
To see these additional updates run: `apt list --upgradable`

New release '20.04.3 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

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.

```
$ whoami
kalyan
$ ls
$ pwd
/home/kalyan
$ cd ..
$ ls
darshan kalyan pavan raghu ubuntu
$ cd ..
$ ls
bin boot dev etc home initrd.img initrd.img.old lib lib64 lost+found media mnt opt proc root run sbin snap srv sys tmp usr var vmlinuz vmlinuz.old
$
```

ubuntu@ip-172-31-8-27: /home

ubuntu@ip-172-31-8-27:/home\$ ssh -p 22 raghu@172.31.8.27

Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 5.4.0-1045-aws x86_64)

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

System information as of Fri Sep 24 06:24:57 UTC 2021

System load:	0.0	Processes:	99
Usage of /:	17.6% of 7.69GB	Users logged in:	1
Memory usage:	21%	IP address for eth0:	172.31.8.27
Swap usage:	0%		

85 packages can be updated.

60 of these updates are security updates.

To see these additional updates run: apt list --upgradable

New release '20.04.3 LTS' available.

Run 'do-release-upgrade' to upgrade to it.

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.

\$ whoami

raghu

\$ pwd

/home/raghu

\$ ls

\$ cd .

\$ ls

\$ cd ..

\$ ls

darshan kalyan pavan raghu ubuntu

\$ cd ..

\$ ls

bin boot dev etc home initrd.img initrd.img.old lib lib64 lost+found media mnt opt proc root run/sbin snap srv sys tmp usr var vmlinuz vmlinuz.old

\$ exit

Connection to 172.31.8.27 closed.

ubuntu@ip-172-31-8-27:/home\$

ubuntu@ip-172-31-8-27: /home

ubuntu@ip-172-31-8-27:/home\$ ssh darshan@172.31.8.27

Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 5.4.0-1045-aws x86_64)

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

System information as of Fri Sep 24 06:26:28 UTC 2021

System load:	0.02	Processes:	100
Usage of /:	17.8% of 7.69GB	Users logged in:	1
Memory usage:	23%	IP address for eth0:	172.31.8.27
Swap usage:	0%		

* Canonical Livepatch is available for installation.
- Reduce system reboots and improve kernel security. Activate at:
<https://ubuntu.com/livepatch>

85 packages can be updated.
60 of these updates are security updates.
To see these additional updates run: `apt list --upgradable`

New release '20.04.3 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

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.

\$ whoami

darshan

\$ pwd

/home/darshan

\$ cd ..

\$ ls

darshan kalyan pavan raghu ubuntu

\$ cd ..

\$ ls

bin boot dev etc home initrd.img initrd.img.old lib lib64 lost+found media mnt opt proc root run sbin snap srv sys tmp usr var vmlinuz vmlinuz.old

\$ exit

Connection to 172.31.8.27 closed.

ubuntu@ip-172-31-8-27:/home\$