Install ansible on ubuntu 18.04

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- Update Packages.
  - Update apt sources.

```
$ sudo apt update
```

  - Install packages

```
$ sudo apt upgrade
```

- Install ansible

```
sudo apt install ansible
```

useful commands

- search ansible package

```
$ sudo apt search ansible
```

- to know information about the package

```
$ apt show ansible
```

- to upgrade ansible

```
sudo apt upgrade ansible
```

- to get ansible version installed

```
ansible --version
```

(Optional) Install openstack client

Since my VMs are provisioned using openstack, installing openstack client on ansible server

1. Install pip

```
sudo apt-get install python-dev python-pip
```

2. openstack client using pip

```
sudo pip install python-openstackclient
```

3. create openrc file and update credentials

```
export OS_PROJECT_DOMAIN_NAME=default
export OS_USER_DOMAIN_NAME=default
export OS_PROJECT_NAME=demo
export OS_USERNAME=demo
export OS_PASSWORD=openstack123
export OS_AUTH_URL=http://192.168.56.16/identity
export OS_IDENTITY_API_VERSION=3
export OS_IMAGE_API_VERSION=2
```

4. Load source

```
source openrc
```

Run sample playbook

Setup SSH login

You can skip this step if you are using VM provisioned by openstack and have passed keypair while creating VM.

1. Generate ssh-kay

```
$ ssh-keygen -t ed25519
```

2. Copy the SSH key to the server.

```
$ ssh-copy-id -i ~/.ssh/id_ed25519.pub kp@192.168.56.20
```

3. validate ssh wroks

```
$ ssh kp@192.168.56.20
```

Inventory configuration

1. Create inventory yaml file, to list all the servers that to be managed/used by anisble.

```
all:
  children:
    test-vm:
      vars:
        ansible_ssh_private_key_file: ~/vm_ssh_keys/k8s.priv
        ansible_user: ubuntu
      hosts:
        192.168.1.228:
        #  ansible_ssh_private_key_file: ~/vm_ssh_keys/k8s.priv
```

2. Validate inventory file by executing below command

```
$ ansible -i inventory.yaml -m raw -a 'lsb_release -a' all

//or if you have not configured username in yaml

$ ansible -i inventory.yaml -u ubuntu -m raw -a 'lsb_release -a' all
```

Refer here to learn inventory file syntax