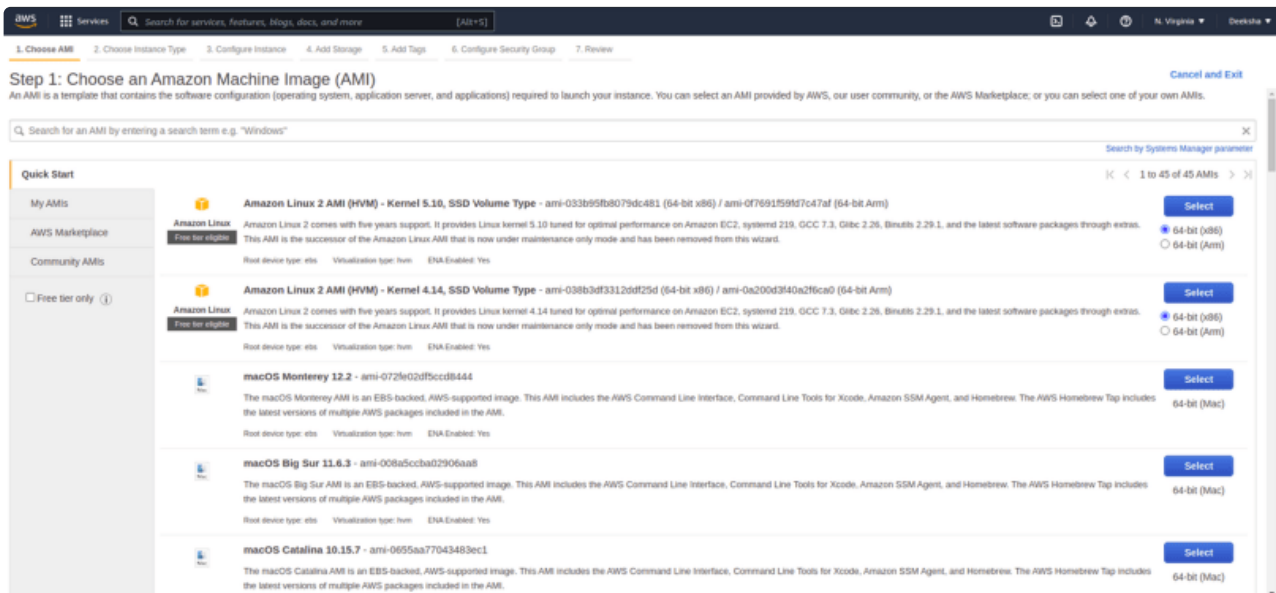


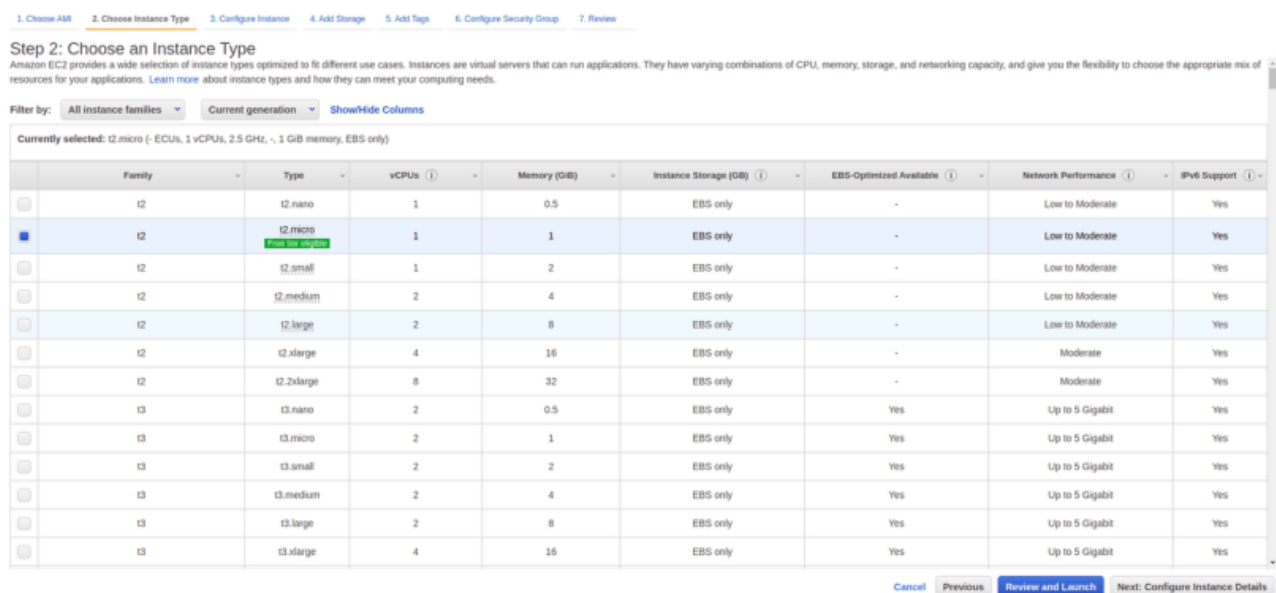
Installing Ansible

Here are some of the easiest steps to install on AWS EC2. So, let's get started.

Step-1: First you need to Login into your AWS Console, and then go to ec2 instances and launch an Ubuntu instance.

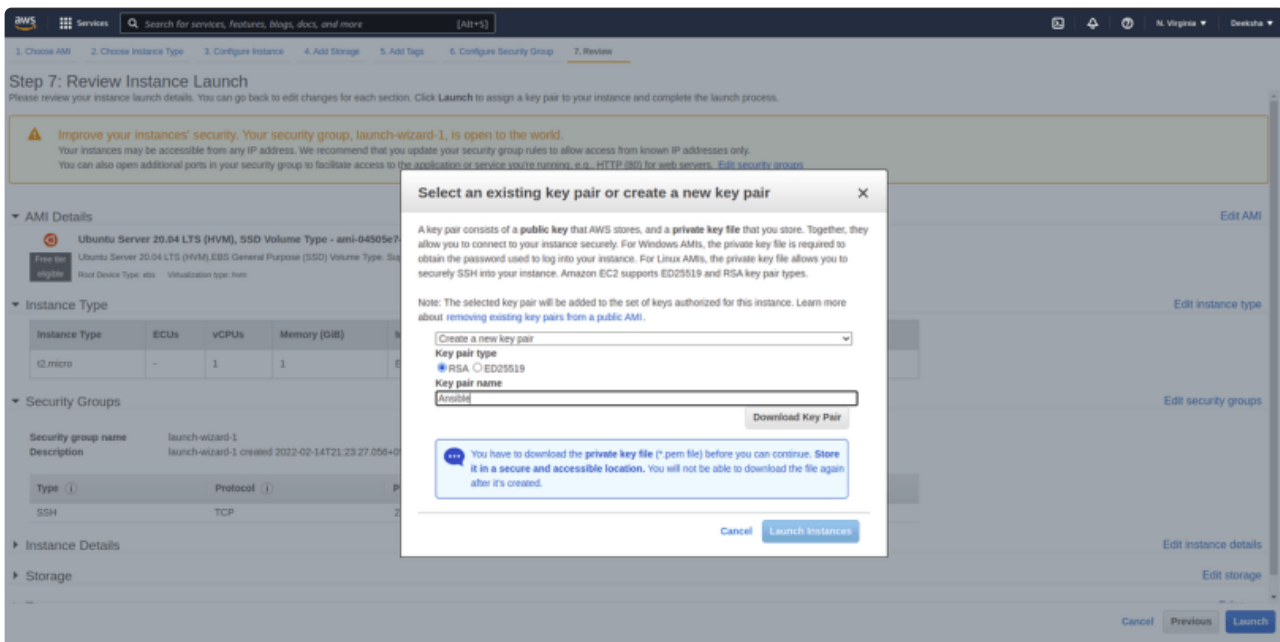


STEP 2: Choose the instance type as t2 micro, no of instance 1, and keep rest of the thing as default.

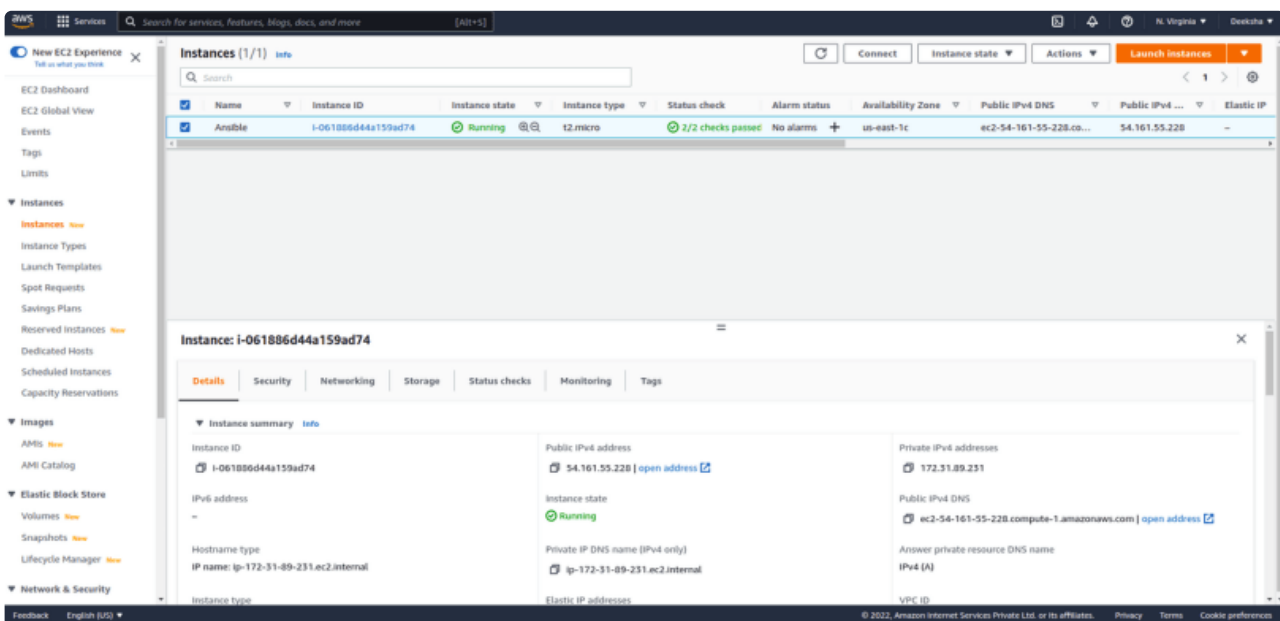


STEP 3: select an Existing OR Create a new Key Pair and give that key pair name as of your choice in order to find it easily and then click on download button.

After that the Key Pair gets download in you local machine in the Downloads Directory, and then click on launch instance. Your instance starts launching.



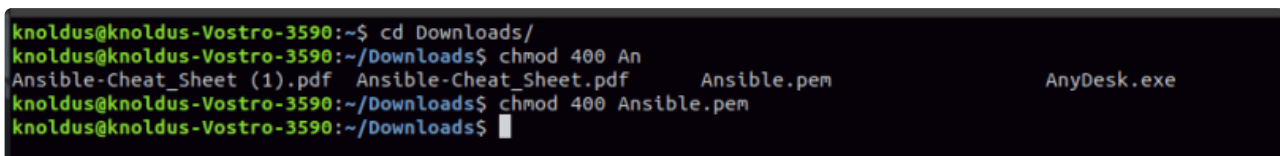
STEP 4: Once the instance is launch you will see something like this :



STEP 5: got to the directory where you download the .pem file and by default you find your pem file in the Downloads Directory.

Chane the Permission of that .pem file by using the command:

```
chmod 400 Ansible.pem
```



STEP 6: After changing the permission get ssh into the ec2 instance and click on ssh client, and type "yes" while connecting through the console as:

```
ssh -i "Ansible.pem" ubuntu@ec2-54-161-55-228.compute-1.amazonaws.com
```

```
ECDSA key fingerprint is SHA256:qjAb2hHNGOI0U3JgkDyPTXiDNp7qtiICHzyfRjwjrpw.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-54-161-55-228.compute-1.amazonaws.com,54.161.55.228' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 20.04.3 LTS (GNU/Linux 5.11.0-1022-aws x86_64)

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

System information as of Mon Feb 14 16:13:09 UTC 2022

System load:  0.0               Processes:           99
Usage of /:   18.2% of 7.69GB   Users logged in:    0
Memory usage: 20%              IPv4 address for eth0: 172.31.89.231
Swap usage:   0%

1 update can be applied immediately.
To see these additional updates run: apt list --upgradable

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

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.
```

```
sudo apt-get update
```

```
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe Translation-en [5124 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 c-n-f Metadata [265 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/multiverse amd64 Packages [144 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/multiverse Translation-en [104 kB]
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/multiverse amd64 c-n-f Metadata [9136 B]
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 Packages [1572 kB]
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main Translation-en [302 kB]
Get:13 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 c-n-f Metadata [14.7 kB]
Get:14 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/restricted amd64 Packages [801 kB]
Get:15 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/restricted Translation-en [114 kB]
Get:16 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/restricted amd64 c-n-f Metadata [500 B]
Get:17 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/universe amd64 Packages [904 kB]
Get:18 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/universe Translation-en [200 kB]
Get:19 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/universe amd64 c-n-f Metadata [20.1 kB]
Get:20 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 Packages [23.7 kB]
Get:21 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/multiverse Translation-en [7312 B]
Get:22 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 c-n-f Metadata [580 B]
Get:23 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/main amd64 Packages [42.0 kB]
Get:24 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/main Translation-en [10.0 kB]
Get:25 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/main amd64 c-n-f Metadata [864 B]
Get:26 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/restricted amd64 c-n-f Metadata [116 B]
Get:27 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/universe amd64 Packages [21.6 kB]
Get:28 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/universe Translation-en [15.0 kB]
Get:29 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/universe amd64 c-n-f Metadata [716 B]
Get:30 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:31 http://security.ubuntu.com/ubuntu focal-security/main amd64 Packages [1238 kB]
Get:32 http://security.ubuntu.com/ubuntu focal-security/main Translation-en [217 kB]
Get:33 http://security.ubuntu.com/ubuntu focal-security/main amd64 c-n-f Metadata [9560 B]
Get:34 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 Packages [748 kB]
Get:35 http://security.ubuntu.com/ubuntu focal-security/restricted Translation-en [107 kB]
Get:36 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 c-n-f Metadata [504 B]
Get:37 http://security.ubuntu.com/ubuntu focal-security/universe amd64 Packages [678 kB]
Get:38 http://security.ubuntu.com/ubuntu focal-security/universe Translation-en [116 kB]
Get:39 http://security.ubuntu.com/ubuntu focal-security/universe amd64 c-n-f Metadata [13.1 kB]
```

STEP 8: Run the following command to install it into AWS EC2 Instance

First of all we need to install python in our system to run it smoothly

```
sudo -i

apt-get install python-minimal

apt-get install python3

python3 --version
```

STEP 9: Now we install ansible as follows:

```
sudo -i

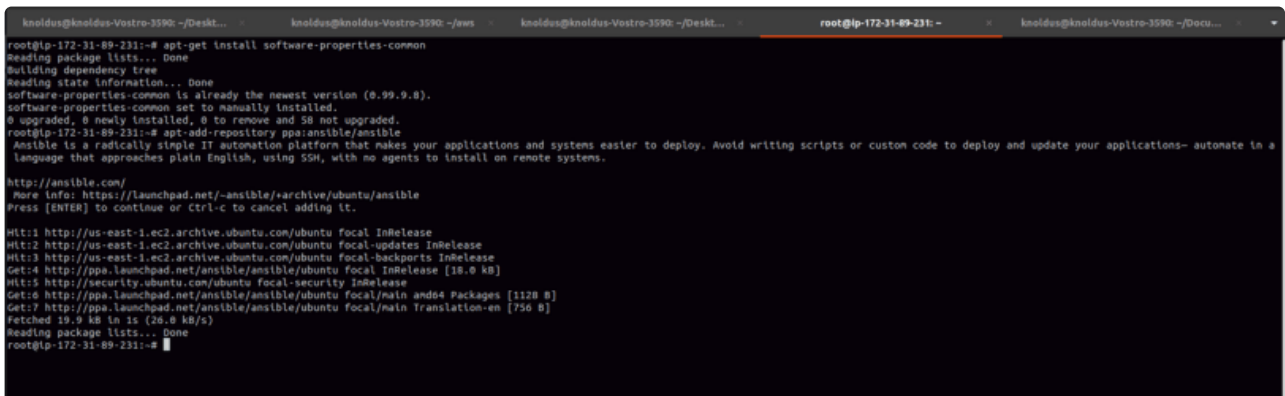
apt-get update

apt-get install software-properties-common

apt-add-repository ppa:ansible/ansible

apt-get update

apt-get install ansible
```



```
knoldus@knoldus-Vostro-3590: ~/Desk... knoldus@knoldus-Vostro-3590: ~/aws knoldus@knoldus-Vostro-3590: ~/Desk... root@ip-172-31-89-231: - knoldus@knoldus-Vostro-3590: ~/Docu...
root@ip-172-31-89-231:~# apt-get install software-properties-common
Reading package lists... Done
Building dependency tree
Reading state information... Done
software-properties-common is already the newest version (0.99.9-8).
software-properties-common set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 58 not upgraded.
root@ip-172-31-89-231:~# apt-add-repository ppa:ansible/ansible
Ansible is a radically simple IT automation platform that makes your applications and systems easier to deploy. Avoid writing scripts or custom code to deploy and update your applications- automate in a
language that approaches plain English, using SSH, with no agents to install on remote systems.
http://ansible.com/
More info: https://launchpad.net/~ansible/+archive/ubuntu/ansible
Press [ENTER] to continue or Ctrl-C to cancel adding it.
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports InRelease
Get:4 http://ppa.launchpad.net/ansible/ansible/ubuntu focal InRelease [18.0 kB]
Hit:5 http://security.ubuntu.com/ubuntu focal-security InRelease
Get:6 http://ppa.launchpad.net/ansible/ansible/ubuntu focal/main amd64 Packages [112B B]
Get:7 http://ppa.launchpad.net/ansible/ansible/ubuntu focal/main Translation-en [756 B]
Fetched 19.9 kB in 1s (26.8 kB/s)
Reading package lists... Done
root@ip-172-31-89-231:~#
```

```
root@ip-172-31-89-231: ~
knoldus@knoldus-Vostro-3590: ~/Desk... knoldus@knoldus-Vostro-3590: ~/aws knoldus@knoldus-Vostro-3590: ~/Desk... root@ip-172-31-89-231: ~ knoldus@knoldus-Vostro-3590: ~/Docu...

root@ip-172-31-89-231:~# apt-get update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports InRelease
Hit:4 http://ppa.launchpad.net/ansible/ansible/ubuntu focal InRelease
Hit:5 http://security.ubuntu.com/ubuntu focal-security InRelease
Reading package lists... Done
root@ip-172-31-89-231:~# apt-get install ansible
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  ansible-core python3-bcrypt python3-jmespath python3-kerberos python3-ntlm-auth python3-packaging python3-paramiko python3-pyparsing python3-requests-kerberos python3-requests-ntlm python3-resolvlib
  python3-winrm python3-xmldict sshpass
Suggested packages:
  python3-gssapi python3-pyparsing-doc
The following NEW packages will be installed:
  ansible ansible-core python3-bcrypt python3-jmespath python3-kerberos python3-ntlm-auth python3-packaging python3-paramiko python3-pyparsing python3-requests-kerberos python3-requests-ntlm
  python3-resolvlib python3-winrm python3-xmldict sshpass
0 upgraded, 15 newly installed, 0 to remove and 58 not upgraded.
Need to get 22.0 MB of archives.
After this operation, 301 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 python3-pyparsing all 2.4.6-1 [61.3 kB]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 python3-packaging all 20.3-1 [26.8 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 python3-jmespath all 0.9.4-2ubuntu1 [21.5 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 python3-kerberos amd64 1.1.14-3.1build1 [22.6 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 python3-ntlm-auth all 1.1.0-1 [19.6 kB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 python3-bcrypt amd64 3.1.7-2ubuntu1 [30.4 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 python3-paramiko all 2.6.0-2 [122 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 python3-requests-kerberos all 0.12.0-2 [11.9 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 python3-requests-ntlm all 1.1.0-1 [6004 B]
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 python3-xmldict all 0.12.0-1 [12.6 kB]
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 python3-winrm all 0.3.0-2 [21.7 kB]
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 sshpass amd64 1.06-1 [10.5 kB]
Get:13 http://ppa.launchpad.net/ansible/ansible/ubuntu focal/main amd64 python3-resolvlib all 0.5.4-2ppa-focal [12.6 kB]
Get:14 http://ppa.launchpad.net/ansible/ansible/ubuntu focal/main amd64 ansible-core all 2.12.2-1ppa-focal [941 kB]
Get:15 http://ppa.launchpad.net/ansible/ansible/ubuntu focal/main amd64 ansible all 5.3.0-1ppa-focal [21.7 MB]
Fetched 22.0 MB in 3s (7943 kB/s)
Selecting previously unselected package python3-pyparsing.
(Reading database ... 70008 files and directories currently installed.)
Preparing to unpack .../00-python3-pyparsing_2.4.6-1_all.deb ...
Unpacking python3-pyparsing (2.4.6-1) ...
Selecting previously unselected package python3-packaging.
Preparing to unpack .../01-python3-packaging_20.3-1_all.deb ...
Unpacking python3-packaging (20.3-1) ...
Selecting previously unselected package python3-resolvlib.
Preparing to unpack .../02-python3-resolvlib_0.5.4-2ppa-focal_all.deb ...
Unpacking python3-resolvlib (0.5.4-2ppa-focal) ...
Selecting previously unselected package ansible-core.
Preparing to unpack .../03-ansible-core_2.12.2-1ppa-focal_all.deb ...
Unpacking ansible-core (2.12.2-1ppa-focal) ...
```

```
ansible --version
```

```
knoldus@knoldus-Vostro-3590: ~/Desk... knoldus@knoldus-Vostro-3590: ~/aws knoldus@knoldus-Vostro-3590: ~/Desk... root@ip-172-31-89-231: ~

root@ip-172-31-89-231:~# ansible --version
ansible [core 2.12.2]
  config file = /etc/ansible/ansible.cfg
  configured module search path = ['/root/.ansible/plugins/modules', '/usr/share/ansible/plugins/modules']
  ansible python module location = /usr/lib/python3/dist-packages/ansible
  ansible collection location = /root/.ansible/collections:/usr/share/ansible/collections
  executable location = /usr/bin/ansible
  python version = 3.8.10 (default, Nov 26 2021, 20:14:08) [GCC 9.3.0]
  jinja version = 2.10.1
  libyaml = True
root@ip-172-31-89-231:~#
```

Conclusion

In this blog, we've seen how to launch the ec2 instance and its configuration for Ansible and how we can install Ansible on it, after that, we are able to access the Ansible