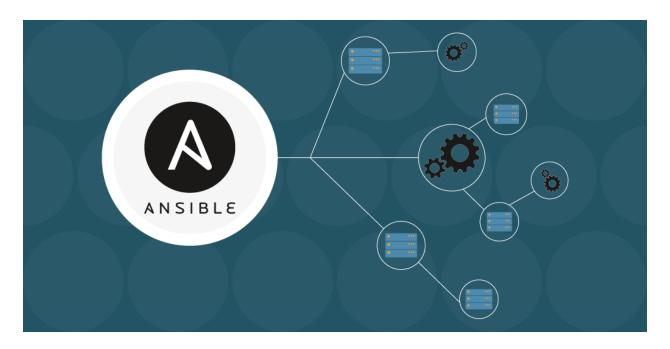


### **Ansible Automation: Installation, Configuration, and Deployment Tasks**



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### **Summary of Tasks**

- Manual Installation of Ansible on Any OS Install Ansible manually using a Bash script.
- 2. **Ansible Configuration File (ansible.cfg)** Set up configuration parameters for inventory, logging, privilege escalation, SSH settings, and performance tuning.
- 3. **Creating a Secure User with Password** Generate a secure password using OpenSSL and create a user with Ansible.
- 4. **Playbook 1: Install Apache and Copy HTML** Install and start Apache, then copy an HTML file to the web server.
- 5. Adding an HTML Page to the Web Server Deploy a pre-defined HTML page using Ansible.
- 6. **Running the Playbook** Execute the playbook to install Apache and deploy the web page, then verify the setup.
- 7. **Playbook 2: Install Multiple Packages** Install utilities like PHP, wget, git, vim, and nano using Ansible.
- 8. **Managing Multiple Inventories** Use multiple inventory files for different environments like development and production.
- 9. **Automatic Installation and Testing with Ping** Automate Ansible installation and test connectivity across multiple servers.

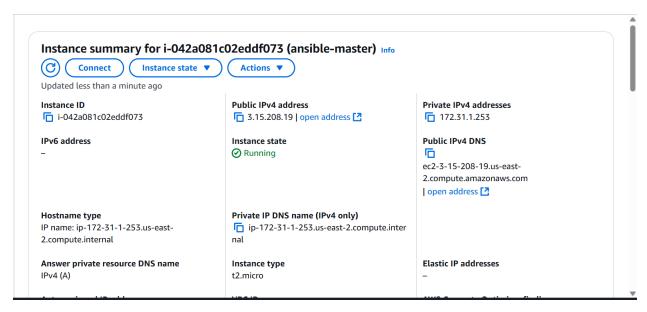
#### TASK 1:

# Manual Installation of Ansible on Any OS

Ansible requires **Python** and **pip** to be installed. The following **Bash script** installs Ansible on a machine:

### **Bash Script: Install Ansible**

Bash script
#! /bin/bash
sudo yum install python-pip -y
sudo pip install ansible



```
[ec2-user@ip-172-31-1-253 ~]$ pip --version
pip 21.3.1 from /usr/lib/python3.9/site-packages/pip (python 3.9)
[ec2-user@ip-172-31-1-253 ~]$
```



# Ansible Configuration File (ansible.cfg)

Ansible reads configurations from the file ansible.cfg config file for ansible -- http://ansible.com/ nearly all parameters can be overridden in ansible-playbook or with command line flags. ansible will read ANSIBLE\_CONFIG, ansible.cfg in the current working directory, .ansible.cfg in the home directory or /etc/ansible/ansible.cfg, whichever it finds first [defaults] some basic default values... inventory = \$HOME/.ansible/hosts remote\_tmp = \$HOME/.ansible/tmp forks = 150 sudo\_user = root transport = smart plays will gather facts by default, which contain information about the remote system. smart - gather by default, but don't regather if already gathered implicit - gather by default, turn off with gather\_facts: False explicit - do not gather by default, must say gather\_facts: True gathering = smart additional paths to search for roles in, colon separated roles\_path = \$HOME/.ansible/roles uncomment this to disable SSH key host checking

host\_key\_checking = False

logging is off by default unless this path is defined

if so defined, consider logrotate

log\_path = /var/log/ansible.log

default module name for /usr/bin/ansible

module\_name = shell

set plugin path directories here, separate with colons

action\_plugins = /usr/share/ansible\_plugins/action\_plugins:\$HOME/.ansible/plugins/action\_plugins callback\_plugins = /usr/share/ansible\_plugins/callback\_plugins:\$HOME/.ansible/plugins/callback\_plugins connection\_plugins =

/usr/share/ansible\_plugins/connection\_plugins:\$HOME/.ansible/plugins/connection\_plugins lookup\_plugins = /usr/share/ansible\_plugins/lookup\_plugins:\$HOME/.ansible/plugins/lookup\_plugins vars\_plugins = /usr/share/ansible\_plugins/vars\_plugins:\$HOME/.ansible/plugins/vars\_plugins filter\_plugins = /usr/share/ansible\_plugins/filter\_plugins:\$HOME/.ansible/plugins/filter\_plugins

by default callbacks are not loaded for /bin/ansible, enable this if you

want, for example, a notification or logging callback to also apply to

/bin/ansible runs

#bin\_ansible\_callbacks = False

the CA certificate path used for validating SSL certs. This path

should exist on the controlling node, not the target nodes

common locations:

RHEL/CentOS: /etc/pki/tls/certs/ca-bundle.crt

Fedora:/etc/pki/ca-trust/extracted/pem/tls-ca-bundle.pem

Ubuntu:/usr/share/ca-certificates/cacert.org/cacert.org.crt

ca\_file\_path = /usr/share/ca-certificates/cacert.org/cacert.org.crt

if set to a persistent type (not 'memory', for example 'redis') fact values from previous runs in Ansible will be stored. This may be useful when wanting to use, for example, IP information from one group of servers without having to talk to them in the same playbook run to get their current IP information.

fact\_caching = jsonfile fact\_caching\_connection = \$HOME/.ansible/facts fact\_caching\_timeout = 600
retry files

 $\#retry\_files\_enabled = False retry\_files\_save\_path = \sim /.ansible/retry$ 

[privilege\_escalation] #become=True #become\_method=sudo #become\_user=root #become\_ask\_pass=False

[ssh\_connection]

ssh arguments to use

Leaving off ControlPersist will result in poor performance, so use

paramiko on older platforms rather than removing it

ssh\_args = -o ControlMaster=auto -o ControlPersist=60s

The path to use for the ControlPath sockets. This defaults to

"%(directory)s/ansible-ssh-%%h-%%p-%%r", however on some systems with very long hostnames or very long path names (caused by long user names or deeply nested home directories) this can exceed the character limit on file socket names (108 characters for most platforms). In that case, you may wish to shorten the string below.

Example:

control\_path = %(directory)s/%%h-%%r

control\_path = %(directory)s/ansible-ssh-%%h-%%p-%%r

Enabling pipelining reduces the number of SSH operations required to

execute a module on the remote server. This can result in a significant

performance improvement when enabled, however when using "sudo:" you must

first disable 'requiretty' in /etc/sudoers

By default, this option is disabled to preserve compatibility with

sudoers configurations that have requiretty (the default on many distros).

pipelining = True

if True, make ansible use scp if the connection type is ssh

(default is sftp)

scp\_if\_ssh = True

[accelerate] accelerate\_port = 5099 accelerate\_timeout = 30 accelerate\_connect\_timeout = 5.0

The daemon timeout is measured in minutes. This time is measured

from the last activity to the accelerate daemon.

```
accelerate_daemon_timeout = 30
```

If set to yes, accelerate\_multi\_key will allow multiple

private keys to be uploaded to it, though each user must

have access to the system via SSH to add a new key. The default

is "no".

#accelerate\_multi\_key = yes

[Selinux]file systems that require special treatment when dealing with security context

the default behaviour that copies the existing context or uses the user default

needs to be changed to use the file system dependent context.

#special\_context\_filesystems=nfs,vboxsf,fuse,ramfs

```
[ec2-user@ip-172-31-1-253 ~]$ cat ansible.cfg
# config file for ansible -- http://ansible.com/
# nearly all parameters can be overridden in ansible-playbook
 or with command line flags. ansible will read ANSIBLE_CONFIG,
 ansible.cfg in the current working directory, .ansible.cfg in
 the home directory or /etc/ansible/ansible.cfg, whichever it
 finds first
[defaults]
# some basic default values...
              = $HOME/.ansible/hosts
inventory
             = $HOME/.ansible/tmp
remote tmp
forks
              = 150
sudo user
              = root
transport
              = smart
 plays will gather facts by default, which contain information about
```

```
hosts (2):
    172.31.3.57
    172.31.13.108
[ec2-user@ip-172-31-1-253 ~]$ ansible all -i slaves.txt -m ping
[WARNING]: log file at /var/log/ansible.log is not writeable and we cannot creat
e it, aborting

172.31.3.57 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
    },
    "changed": false,
    "ping": "pong"
}

172.31.13.108 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
    },
    "changed": false,
    "ping": "pong"
}

[ec2-user@ip-172-31-1-253 ~]S
```

```
[ec2-user@ip-172-31-1-253 -]$ sh ec2-user@172.31.3.57
Register this system with Red Hat Insights: rhc connect

Example:
    f rhc connect --activation-key <key> --organization <org>
The rhc client and Red Hat Insights will enable analytics and additional management capabilities on your system.
View your connected systems at https://console.redhat.com/insights

You can learn more about how to register your system using rhc at https://red.ht/registration
[ec2-user@ip-172-31-3-57 -]$ 11
total 0
[ec2-user@ip-172-31-3-57 -]$ 11 -a
total 12
drwx----. 4 ec2-user ec2-user 90 Mar 19 07:51 .
drwx----. 3 root root 22 Mar 19 07:51 .
drwx----. 3 root root 22 Mar 19 07:51 .
drwx----. 1 ec2-user ec2-user 11 Mar 19 07:51 .
drwx----. 1 ec2-user ec2-user 11 Mar 19 07:51 .
drwx----. 1 ec2-user ec2-user 14 Feb 15 2024 .bash logout
-rw-r----. 1 ec2-user ec2-user 14 Feb 15 2024 .bash profile
-rw-r----. 2 ec2-user ec2-user 29 Mar 19 07:10 .ssh
[ec2-user@ip-172-31-3-57 -]$ cd /tmp/
[ec2-user@ip-172-31-3-57 +]$ cd /tmp/
[ec2-user@ip-172-31-3-57 tmp]$ 11
total 4
drwx----. 3 root root 17 Mar 19 07:10 systemd-private-38f5e0a43d024830978439b5717c5cb0-chronyd.service-wb6UqW
drwx----. 3 root root 17 Mar 19 07:10 systemd-private-38f5e0a43d024830978439b5717c5cb0-dbus-broker.service-HmMzmEB
drwx----. 3 root root 17 Mar 19 07:10 systemd-private-38f5e0a43d024830978439b5717c5cb0-systemd-hostnamed.service-OneXL4
-rw-r----. 1 root root 25 Mar 19 07:15 test.txt
[ec2-user@ip-172-31-3-57 tmp]$ cat test.txt
[hello all !!his is mano]
[ec2-user@ip-172-31-3-57 tmp]$ cat test.txt
[hello all !!his is mano]
[ec2-user@ip-172-31-3-57 tmp]$ cat test.txt
[hello all !!his is mano]
[ec2-user@ip-172-31-3-57 tmp]$ cat test.txt
[hello all !!his is mano]
[ec2-user@ip-172-31-3-57 tmp]$ cat test.txt
[hello all !!his is mano]
[ec2-user@ip-172-31-3-57 tmp]$ cat test.txt
[hello all !!his is mano]
```

```
| Ce2-user@ip-172-31-1-108- | Ce2-user@ip-172-31-1-253 -j5 ansible all -i slaves.txt -a "makdir ansi" [WARNING]; log file at /var/log/ansible.log is not writeable and we cannot create it, aborting | 172.31.3.57 | CHANGED | rc-0 >> | 172.31.31.308 | CHANGED | rc-0 | rc-
```

#### PASSWD:

To create a user with a secure password, use OpenSSL:

#### **Generate a Secure Hashed Password**

Openssl passwd -6 "manoj123"

```
] [ec2-user@ip-172-31-1-253 ~]$ openssl passwd -6 "manoj123" $6$z5k3z2swrCzwlyeP$y4dcfzRqkgNNY3S9uc0vi6ZyEjVLl13O3/BCp91IBkFqDTJNPpXZPw4MG8mNaCw.mZewFsMlJ5zdRg5q072pQ/ [ec2-user@ip-172-31-1-253 ~]$
```

#### Create a User with Ansible

Ansible all -i slaves.txt -m user -a 'name=name password="hashed\_key" '-b

```
[ec2-user@ip-172-31-1-253 ~]$ ansible all -i slaves.txt -m user -a 'name=cprim password="$6$ub2fUrxEW@mg3apl$aazdNwXsYr8MC42JAPl58i.QOkA/d.Z9L3Y4.22JilApGRp7
N78BbSSRsMzBE7ZMmy836Vdrckgl/wCL/YySz/"' -b
[WARNING]: log file at /var/log/ansible.log is not writeable and we cannot create it, aborting

172.31.13.108 | CHANGED => {
    "changed": true,
    "create home": true,
    "group": 1004,
    "home": "/home/cprim",
    "name": "cprim"
    "password": "NOT_LOGGING_PASSWORD",
    "shell": "ybin/bash",
    "state": "present",
    "system": false,
    "uid": 1004

}
172.31.3.57 | CHANGED => {
    "changed": true,
    "comment": "",
    "create home": true,
    "group": 1004,
    "home": "/home/cprim",
    "rereate home": true,
    "group": 1004,
    "home": "/home/cprim",
    "areu": 1004,
    "homes": "/home/cprim",
    "nome": "/home/cprim",
    "nome "/home/cprim",
    "nome "/home/cprim",
    "nome "/home/cprim",
    "nome "/home/cprim",
    "nome "/home/cprim",
    "nome "
```

Ssh ec2-user@172.31.3.57

#### Su cprim

Testing with SSH and Switching Users

```
"uid": 1004

} 72.31.3.57 | CHANGED => {
    "changed": true,
    "comment": "",
    "create_home": true,
    "group": 1004,
    "home": "/home/cprim",
    "name": "oprim",
    "name": "oprim",
    "shell": "/bin/bash",
    "state": "present",
    "system": false,
    "uid": 1004

} [ec2-user@ip-172-31-1-253 ~]$ ssh ec2-user@172.31.3.57
Register this system with Red Hat Insights: rhc connect

Example:

# rhc connect --activation-key <key> --organization <org>
The rhc client and Red Hat Insights will enable analytics and additional management capabilities on your system.

View your connected systems at https://console.redhat.com/insights

You can learn more about how to register your system using rhc at https://red.ht/registration
Last login: Wed Mar 19 10:49:03 2025 from 172.31.1.253
[ec2-user@ip-172-31-3-57 ~]$ su cprim
Password:
[oprim@ip-172-31-3-57 ec2-user]$
```

## Playbook 1: Install Apache and Copy HTML

This playbook installs Apache (httpd), starts it, and copies an HTML file to the server.

#### Yaml file:

```
- hosts : all
  remote_user : ec2-user
  become : yes

tasks :
    - name : Install Apache2
    yum :
        name=httpd
        state=latest
    - name : Starting Apache2
    ansible.builtin.service :
        name=httpd
        state=started
```

#### Steps:

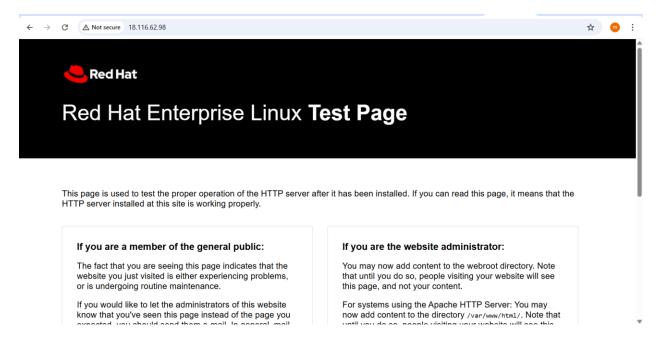
#### 1.create a yaml file

#### 2.check the syntax

```
[ec2-user@ip-172-31-1-253 ~]$ ansible-playbook -i slaves.txt first.yaml --syntax-check
[WARNING]: log file at /var/log/ansible.log is not writeable and we cannot create it, aborting
playbook: first.yaml
```

#### 3. execute the play-book

#### 4.Result



#### Adding the html page and copy paste the file from master to slave

```
- hosts : all
  remote_user : ec2-user
  become : yes

tasks :
    - name : Install Apache2
    yum :
        name=httpd
        state=latest
    - name : Starting Apache2
    ansible.builtin.service :
        name=httpd
        state=started
```

```
- name : copy index.html
  copy :
    src=index.html
  dest=/var/www/html/index.html
```

```
Adding an HTML Page to the Web Server
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>DevOps Page</title>
 <style>
   body {
     font-family: Arial, sans-serif;
     text-align: center;
     margin: 50px;
   }
   h1 {
     color: blue;
   }
 </style>
</head>
<body>
 <h1>Welcome to DevOps Automation!</h1>
 This page is managed by Ansible.
</body>
```

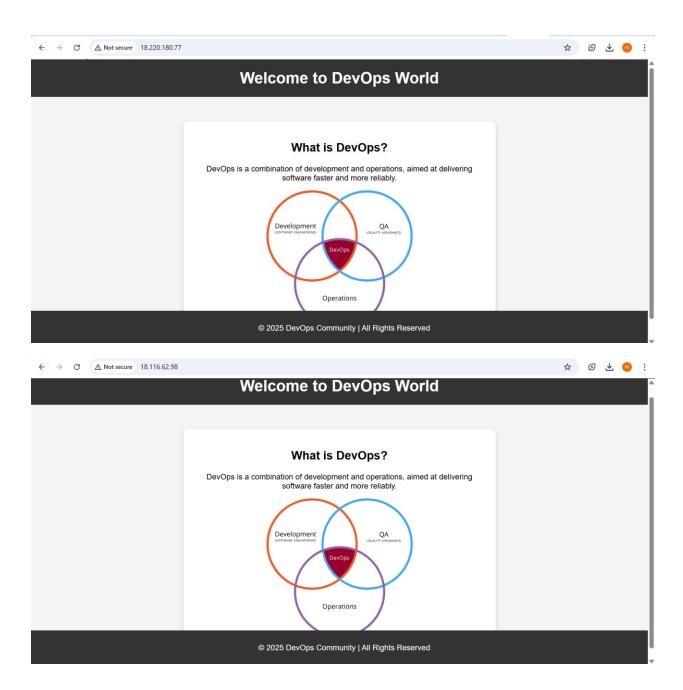
</html>

Run the Playbook to Copy the HTML File

ansible-playbook -i inventory\_prod apache\_setup.yml

```
TASK [Gathering Facts] ****************************
TASK [Install Apache2] ***********************************
TASK [Starting Apache2] ********************
changed: [172.31.13.108]
changed: [172.31.3.57]
unreachable=0
172.31.13.108
                                               failed=0
                         changed=1
kipped=0 rescued=0
                 ignored=0
172.31.3.57
                         changed=1
                                               failed=0
                                  unreachable=0
kipped=0
       rescued=0
                 ignored=0
[ec2-user@ip-172-31-1-253 ~]$
```

**Check the Web Page** 



# Playbook 2: Install Multiple Packages

This playbook installs multiple utilities like PHP, wget, git, vim, and nano.

### Second.yml

```
- hosts: all
  remote_user: ec2-user
```

```
tasks:
    - name: Install packages
    yum:
        name: "{{ item }}"
        state: latest
    loop:
        - php
        - wget
        - git
        - vim
        - nano
```

```
ec2-user@ip-172-31-1-253:~
                                                                          X
                                                                    e it, aborting
changed: [172.31.13.108] => (item=php)
changed: [172.31.3.57] => (item=php)
changed: [172.31.13.108] => (item=wget)
changed: [172.31.3.57] => (item=wget)
changed: [172.31.13.108] => (item=git)
changed: [172.31.3.57] => (item=git)
changed: [172.31.13.108] => (item=git)
changed: [172.31.13.108] => (item=vim)
changed: [172.31.3.57] => (item=vim)
changed: [172.31.3.57] => (item=nano)
changed: [172.31.13.108] => (item=nano)
changed=1
                                              unreachable=0
                                                               failed=0
kipped=0
         rescued=0
                       ignored=0
                                                               failed=0
                                  changed=1
                                              unreachable=0
cipped=0
          rescued=0
                       ignored=0
[ec2-user@ip-172-31-1-253 ~]$
```

#### Multiple inventories

Multiple inventory files in Ansible help you manage different environments efficiently, improve security, and scale infrastructure management. By combining static inventories, dynamic inventories, and inventory directories, you can automate infrastructure deployment effectively

You can specify the inventory file using the -i flag in the ansible

```
[ec2-user@ip-172-31-1-253 ~]$ cat slaves.txt
172.31.3.1.3.108
[ec2-user@ip-172-31-1-253 ~]$ cat slaves2.txt
172.31.13.108
[ec2-user@ip-172-31-1-253 ~]$ ansible webserver -i slaves.txt -m ping
[wARNING]: log file at /var/log/ansible.log is not writeable and we cannot create it, aborting
172.31.13.108 | SUCCESS => {
    "changed": false,
    "ping": "pong"

[ec2-user@ip-172-31-1-253 ~]$ ansible all -i slaves2.txt -m ping
[wARNING]: log file at /var/log/ansible.log is not writeable and we cannot create it, aborting
172.31.13.108 | SUCCESS => {
    "changed": false,
    "ping": "pong"

[ec2-user@ip-172-31-1-253 ~]$ ansible all -i slaves.txt -m ping
[wARNING]: log file at /var/log/ansible.log is not writeable and we cannot create it, aborting
172.31.13.108 | SUCCESS => {
    "changed": false,
    "ping": "pong"

172.31.33.108 | SUCCESS => {
    "changed": false,
    "ping": "pong"

172.31.3.1.3 | SUCCESS => {
    "changed": false,
    "ping": "pong"

172.31.3.5.7 | SUCCESS => {
    "changed": false,
    "ping": "pong"

172.31.3.5.7 | SUCCESS => {
    "changed": false,
    "ping": "pong"

172.31.3.5.7 | SUCCESS => {
    "changed": false,
    "ping": "pong"

172.31.3.5.7 | SUCCESS => {
    "changed": false,
    "ping": "pong"

172.31.3.5.7 | SUCCESS => {
    "changed": false,
    "ping": "pong"

172.31.3.5.7 | SUCCESS => {
    "changed": false,
    "ping": "pong"

172.31.3.5.7 | SUCCESS => {
    "changed": false,
    "ping": "pong"

172.31.3.5.7 | SUCCESS => {
    "changed": false,
    "ping": "pong"

172.31.3.5.7 | SUCCESS => {
    "changed": false,
    "ping": "pong"

172.31.3.5.7 | SUCCESS => {
    "changed": false,
    "ping": "pong"

172.31.3.5.7 | SUCCESS => {
    "changed": false,
    "ping": "pong"

172.31.3.5.7 | SUCCESS => {
    "changed": false,
    "ping": "pong"

172.31.3.5.7 | SUCCESS => {
    "changed": false,
    "ping": "pong"

172.31.3.5.7 | SUCCESS => {
    "changed": false,
    "changed": false,
    "changed = false,
    "changed = false,
    "changed = false,
    "changed = false,
    "change
```

#### Running a Ping Test on Different Inventories

```
[ec2-user@ip-172-31-1-253 ~]$ ansible all -i slaves.txt -i slaves2.txt -m ping
[WARNING]: log file at /var/log/ansible.log is not writeable and we cannot create it, aborting

172.31.13.108 | SUCCESS => {
    "changed": false,
    "ping": "pong"
}
172.31.3.57 | SUCCESS => {
    "changed": false,
    "ping": "pong"
}
[ec2-user@ip-172-31-1-253 ~]$
```

#### TASK 4:

#### Automatic install on any os and test the ping

sudo apt update

```
Ansible is a radically simple IT automation platform that makes your application
s and systems easier to deploy. Avoid writing scripts or custom code to deploy a
nd update your applications— automate in a lanquage that approaches plain Englis
h, using SSH, with no agents to install on remote systems.
http://ansible.com/
If you face any issues while installing Ansible PPA, file an issue here:
https://github.com/ansible-community/ppa/issues
More info: https://launchpad.net/~ansible/+archive/ubuntu/ansible
Adding repository.
Hit:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease
Get:5 https://ppa.launchpadcontent.net/ansible/ansible/ubuntu noble InRelease [1
7.8 kB]
Get:6 https://ppa.launchpadcontent.net/ansible/ansible/ubuntu noble/main amd64 F
ackages [776 B]
Get: 7 https://ppa.launchpadcontent.net/ansible/ansible/ubuntu noble/main Transla
tion-en [472 B]
Fetched 19.1 kB in 1s (19.8 kB/s)
Reading package lists... Done
ubuntu@ip-172-31-14-55:~$
```

sudo apt install software-properties-common

sudo add-apt-repository --yes --update ppa:ansible/ansible

```
ubuntu@ip-172-31-14-55:~$ sudo apt update
Hit:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [12 6 kB]
Get:3 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease [
126 kB]
Get:4 http://security.ubuntu.com/ubuntu noble-security InRelease [
126 kB]
Get:5 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Packag
es [
15.0 MB]
Get:6 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble/universe Translation-
en [
5982 kB]
Get:7 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [
671 kB]
Get:8 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Compon
ents [
3871 kB]
Get:9 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 c-n-f
Metadata [
301 kB]
Get:10 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Pac
kages [
269 kB]
Get:11 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble/multiverse Translati
on-en [
118 kB]
Get:12 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Com
ponents [
35.0 kB]
Get:13 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Com
ponents [
35.0 kB]
Get:13 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Com
```

```
ubuntu@ip-172-31-14-55:~$ ansible --version
ansible [core 2.17.9]
  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
  ansible collection location = /home/ubuntu/.ansible/collections:/usr/share/ansible/collections
  executable location = /usr/bin/ansible
  python version = 3.12.3 (main, Nov 6 2024, 18:32:19) [GCC 13.2.0] (/usr/bin/p
ython3)
  jinja version = 3.1.2
  libyaml = True
ubuntu@ip-172-31-14-55:~$
```

#### Sudo nano /etc/ansible/hosts

```
## alpha.example.org
## beta.example.org
## 192.168.1.100
## 192.168.1.110
172.31.13.108
172.31.3.57
## If you have multiple hosts following a pattern, you can specify
## them like this:
## www[001:006].example.com
## You can also use ranges for multiple hosts:
## db-[99:101]-node.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
```

#### Ansible all -i /etc/ansible/hosts -m ping -u ec2-user