

Lab 11 and 12

Ansible

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Batch B2 Devops NH

Subject SPCM

Step 1 Install Ansible in Amazon linux machine

```
Complete!
[ec2-user@ip-172-31-13-43 ~]$ sudo yum install ansible
Last metadata expiration check: 0:44:09 ago on Fri Apr 12 09:00:02 2024.
Dependencies resolved.

```

Package	Architecture	Version	Repository	Size
Installing: ansible	noarch	8.3.0-1.amzn2023.0.1	amazonlinux	32 M
Installing dependencies: ansible-core	x86_64	2.15.3-1.amzn2023.0.3	amazonlinux	2.5 M
sshpass	x86_64	1.09-6.amzn2023.0.1	amazonlinux	28 k

```
Transaction Summary
-----
Install 3 Packages

Total download size: 35 M
Installed size: 529 M
Is this ok [y/n]: y
Downloading Packages:
(1/3): sshpass-1.09-6.amzn2023.0.1.x86_64.rpm                279 kB/s | 28 kB  00:00
(2/3): ansible-core-2.15.3-1.amzn2023.0.3.x86_64.rpm        10 MB/s | 2.5 MB 00:00
(3/3): ansible-8.3.0-1.amzn2023.0.1.noarch.rpm              46 MB/s | 32 MB  00:00
-----
Total                                                         44 MB/s | 35 MB  00:00

Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing                :
  Installing               : sshpass-1.09-6.amzn2023.0.1.x86_64
  Installing               : ansible-core-2.15.3-1.amzn2023.0.3.x86_64
  Installing               : ansible-8.3.0-1.amzn2023.0.1.noarch

```

```
[ec2-user@ip-172-31-13-43 ~]$ ansible --version
ansible [core 2.15.3]
  config file = None
  configured module search path = ['/home/ec2-user/.ansible/plugins/modules', '/usr/share/ansible/plugins/modules']
  ansible python module location = /usr/lib/python3.9/site-packages/ansible
  ansible collection location = /home/ec2-user/.ansible/collections:/usr/share/ansible/collections
  executable location = /usr/bin/ansible
  python version = 3.9.16 (main, Sep  8 2023, 00:00:00) [GCC 11.4.1 20230605 (Red Hat 11.4.1-2)] (/usr/bin/python3.9)
  jinja version = 3.1.2
  libyaml = True
[ec2-user@ip-172-31-13-43 ~]$
```

Step 2 Connect both the machine

```
[ansible@ip-172-31-13-43 ec2-user]$ ssh 172.31.1.122
_#_
_###_      Amazon Linux 2023
nnn \#####\
nnn  \###|
nnn   \#/
nnn    Vn* -> https://aws.amazon.com/linux/amazon-linux-2023
nnnn
nnn_ _ _
nnn_ _ _
_/_m/_

Last login: Sat Apr 13 13:27:25 2024
[ansible@ip-172-31-1-122 ~]$
```

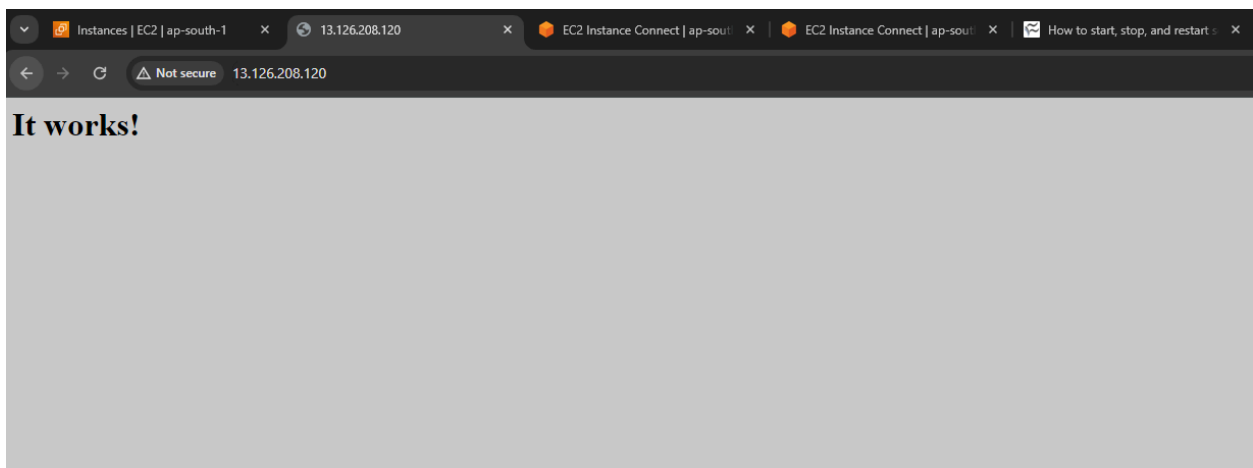
Create and run ansible playbook

```
[ansible@ip-172-31-13-43 ec2-user]$ ansible upes --list-hosts
hosts (1):
  172.31.1.122
[ansible@ip-172-31-13-43 ec2-user]$
```

```
Installed:
apr-1.7.2-2.amzn2023.0.2.x86_64
apr-util-1.6.3-1.amzn2023.0.1.x86_64
apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64
generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
httpd-2.4.58-1.amzn2023.x86_64
httpd-core-2.4.58-1.amzn2023.x86_64
httpd-filesystem-2.4.58-1.amzn2023.noarch
httpd-tools-2.4.58-1.amzn2023.x86_64
libbrotli-1.0.9-4.amzn2023.0.2.x86_64
mailcap-2.1.49-3.amzn2023.0.3.noarch
mod_http2-2.0.11-2.amzn2023.x86_64
mod_lua-2.4.58-1.amzn2023.x86_64
```

Complete!

```
[ansible@ip-172-31-13-43 ec2-user]$
```



Doing the same via ansible playbook

```
[ansible@ip-172-31-13-43 ~]$ cat ply.yml
---
- hosts: upes
  user: ansible
  become: yes
  connection: ssh
  vars:
    pkgname: httpd
    currstatus: present
  tasks:
    - name: Install HTTPD
      yum:
        name: '{{ pkgname }}'
        state: '{{ currstatus }}'
[ansible@ip-172-31-13-43 ~]$
```

```
[ansible@ip-172-31-13-43 ~]$ ls
ply.yml
[ansible@ip-172-31-13-43 ~]$ ansible-playbook ply.yml

PLAY [upees] *****

TASK [Gathering Facts] *****

[WARNING]: Platform linux on host 172.31.1.122 is using the discovered Python interpreter at /usr/bin/python3.9, but future installation of another Python interpreter could change the meaning of that path. See https://docs.ansible.com/ansible-core/2.15/reference_appendices/interpreter_discovery.html for more information.
ok: [172.31.1.122]

TASK [Install HTTPD] *****

changed: [172.31.1.122]

PLAY RECAP *****
ok: [172.31.1.122]                unreachable=0    failed=0          skipped=0        rescued=0          ignored=0
```

