Lab Exercise 11– Configure Ansible Setup in Linux

Objective:

To configure Ansible Setup for Linux Environment.

• Amazon Linux 2:

o Update package lists: sudo yum update

Install 1 Package

Total size: 25 k
Installed size: 25 k
Is this ok [y/d/N]: y
Downloading packages:
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing: epel-release-7-14.noarch
Verifying: epel-release-7-14.noarch
Verifying: epel-release-7-14.noarch

Installed:
epel-release.noarch 0:7-14

Complete!
[root@ip-172-31-36-190 ec2-user]# yum update -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Existing lock /var/rum/yum.pid: another copy is running as pid 3757.

Another app is currently holding the yum lock; waiting for it to exit...
The other application is: yum
Memory: 303 M RSS (597 MB VSZ)
Started: Wed App 17 04:34:41 2024 - 00:06 ago
State: Running, pid: 3757

Another app is currently holding the yum lock; waiting for it to exit...

o Install Python and pip (package installer): sudo yum install python python-pip

```
Installed:
   python2-lockfile.noarch 1:0.11.0-17.el7

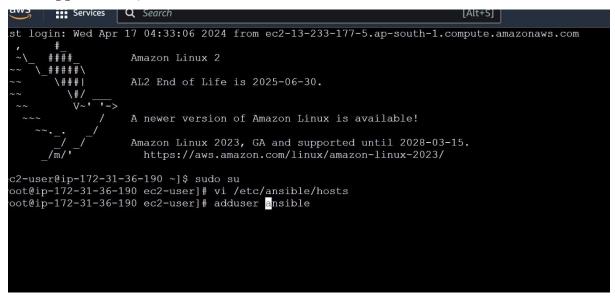
Replaced:
   python-lockfile.noarch 1:0.9.1-4.amzn2

Complete!
[root@ip-172-31-36-190 ec2-user]# yum install git python python-pip openssl -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core
229 packages excluded due to repository priority protections
Package python-2.7.18-1.amzn2.0.8.x86_64 already installed and latest version
```

Install Ansible using pip: pip install ansible

Amazon Linux 1:

- o Update package lists: sudo apt update
- Add the Ansible repository: sudo apt-add-repository -y ppa:ansible/ansible



o Update package lists again: sudo apt update

Install Ansible: sudo apt-get install ansible

3. Additional Configurations:

• User and Permissions:

- o Create a user specifically for Ansible tasks.
- Grant sudo access to this user.

SSH Keys:

```
ry 'su --help' for more information.
ec2-user@ip-172-31-36-190 ~|$ su - ansible
'aasword:
'aansible@ip-172-31-36-190 ~|$ sh keygen
ssh: Could not resolve hostname keygen: Name or service not known
'ansible@ip-172-31-36-190 ~|$ ssh-keygen
senerating public/private rsa key pair.
'nter file in which to save the key (/home/ansible/.ssh/id_rsa):
'reated directory '/home/ansible/.ssh'.
'nter passphrase (empty for no passphrase):
'nter same passphrase again:
'our identification has been saved in /home/ansible/.ssh/id_rsa.
'our public key has been saved in /home/ansible/.ssh/id_rsa.
'our public key has been saved in /home/ansible/.ssh/id_rsa.
'our public key has been saved in /home/ansible/.ssh/id_rsa.
'our bublic key has been saved in /home/ansible/.ssh/id_rsa.
```

o Generate an SSH key pair on your local machine.

 Copy the public key to the authorized_keys file on the AWS instance for the Ansible user.

• Inventory File:

 Create a file (e.g., /etc/ansible/hosts) to define your AWS instances you want to manage with Ansible.

```
[ec2-user@ip-172-31-36-190 ~]$ sudo su
[root@ip-172-31-36-190 ec2-user]# vi /etc/ansible/hosts
[root@ip-172-31-36-190 ec2-user]# adduser ansible
[root@ip-172-31-36-190 ec2-user]# passwd ansible
Changing password for user ansible.
New password:
BAD PASSWORD: The password contains the user name in some form
Retype new password:
Sorry, passwords do not match.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
[root@ip-172-31-36-190 ec2-user]#
                      AL2 End of Life is 2025-06-30.
        \###|
          \#/
           V~'
                      A newer version of Amazon Linux is available!
                      Amazon Linux 2023, GA and supported until 2028-03
                        https://aws.amazon.com/linux/amazon-linux-2023/
c2-user@ip-172-31-45-217 ~]$ sudo su
oot@ip-172-31-45-217 ec2-user]# adduser ansible
oot@ip-172-31-45-217 ec2-user]# passwd ansible
anging password for user ansible.
w password:
type new password:
sswd: all authentication tokens updated successfully.
oot@ip-172-31-45-217 ec2-user]#
```

o Specify hostnames or IP addresses of the instances in the file.

nsible@ip-172-31-45-217 ~]\$

```
Press ENTER or type command to continue
[No write since last change]

Shell returned 127

Press ENTER or type command to continue
[ansible]=172-31-45-217 home]$ service ssh restart
Redirecting to /bin/systemctl restart ssh.service
Failed to restart ssh.service: The name org.freedeektop.PolicyKitl was not provided by any .service files
See system logs and 'systemctl status ash.service' for details.

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See system logs and 'systemctl status ash.service config

[ansible@ip-172-31-45-217 home] $ sudo su

Croot@ip-172-31-45-217 home] $ sudo su

Croot@ip-172-31-45-217 home] $ sudo su

Croot@ip-172-31-45-217 home] $ service extart

ssh: Could not resolve hostname service; Name or service not known

[root@ip-172-31-45-217 home] $ service sshd restart

Redirecting to /bin/systemctl restart sshd.service

[root@ip-172-31-45-217 home] $ sudo su

[root@ip-172-31-45-190 home] $ su - ansible

Last login; Med Apr 17 0s:57;29 UTC 2024 on pts/0

[ansible@ip-172-31-36-190 -] $ sah-copy-id ansible@ir2,31.45.217

//sar/bin/ssh-copy-id: NRO: Source of key(s) to be installed: "/home/ansible/.ssh/id_rsa.pub"

//sar/bin/ssh-copy-id: NRO: Source of key(s) to be installed: "/home/ansible/.ssh/id_rsa.pub"

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```