

Lab Exercise 11

Configure Ansible Setup in Linux

To configure Ansible Setup for Linux Environment.

- Amazon Linux 2:
 - Update package lists: `sudo yum update`

```
[ec2-user@ip-172-31-36-190 ~]$ sudo su
[root@ip-172-31-36-190 ec2-user]# wget https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm
--2024-04-17 04:33:53-- https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm
Resolving dl.fedoraproject.org (dl.fedoraproject.org)... 38.145.60.23, 38.145.60.24, 38.145.60.22
Connecting to dl.fedoraproject.org (dl.fedoraproject.org)|38.145.60.23|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 15608 (15K) [application/x-rpm]
Saving to: 'epel-release-latest-7.noarch.rpm'

100%[----->] 15,608      61.7KB/s   in 0.2s

2024-04-17 04:33:54 (61.7 KB/s) - 'epel-release-latest-7.noarch.rpm' saved [15608/15608]

[root@ip-172-31-36-190 ec2-user]# yum install epel-release-latest-7.noarch.rpm
Loaded plugins: extras suggestions, langpacks, priorities, update-motd
Examining epel-release-latest-7.noarch.rpm: epel-release-7-14.noarch
Marking epel-release-latest-7.noarch.rpm to be installed
Resolving Dependencies
--> Running transaction check
--> Package epel-release.noarch 0:7-14 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

Package Arch Version Repository Size
Installing:
epel-release noarch 7-14 /epel-release-latest-7.noarch 25 k
Transaction Summary
-----
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

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/run/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 Apr 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...
```

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

[illegible]

- Generate an SSH key pair on your local machine.

```

Last login: Wed Apr 17 04:33:06 2024 from ec2-13-233-177-5.ap-south-1.compute.amazonaws.com
_#_
~\####_ Amazon Linux 2
~~~\#####\
~~~\_####| AL2 End of Life is 2025-06-30.
~~~\_#/
~~~_V~'-'>
~~~~
~~~~_._/
~~~~/_/_/
~~~~/_m/'-/_/

A newer version of Amazon Linux is available!

Amazon Linux 2023, GA and supported until 2028-03-15.
https://aws.amazon.com/linux/amazon-linux-2023/

[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]# visudo
[root@ip-172-31-36-190 ec2-user]# █

```

- Copy the public key to the authorized keys file on the AWS instance for the Ansible user.
- Inventory File:

- ```

root@ip-172-31-36-190 home1# su - ansible
Last login: Wed Apr 17 05:57:29 UTC 2024 on pts/0
[ansible@ip-172-31-36-190 ~]$ ssh-copy-id ansible@172.31.45.217
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/ansible/.ssh/id_rsa.pub"
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
Permission denied (publickey,gssapi-keyex,keyboard-interactive).
[ansible@ip-172-31-36-190 ~]$ ssh-copy-id ansible@172.31.45.217
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/ansible/.ssh/id_rsa.pub"
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
ansible@172.31.45.217's password:

```

```
Now try logging into the machine, with: "ssh 'ansible@172.31.45.217'"
and check to make sure that only the key(s) you wanted were added.
```

[illegible]

- ```
[ansible@ip-172-31-45-217 ~]$
```

Press ENTER or type command to continue

[No write since last change]

/bin/bash: wq: command not found

shell returned 127

Press ENTER or type command to continue

[ansible@ip-172-31-45-217 home]\$ service ssh restart

Redirecting to /bin/systemctl restart ssh.service

Failed to restart ssh.service: The name org.freedesktop.PolicyKit1 was not provided by any .service files
See system logs and 'systemctl status ssh.service' for details.

[ansible@ip-172-31-45-217 home]\$ vi /etc/ssh/sshd_config

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

[root@ip-172-31-45-217 home]# ^C

[root@ip-172-31-45-217 home]# vi /etc/ssh/sshd_config

[root@ip-172-31-45-217 home]# ssh service restart

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]#

Press ENTER or type command to continue

[No write since last change]

/bin/bash: wq: command not found

shell returned 127

Press ENTER or type command to continue

[ansible@ip-172-31-45-217 home]\$ service ssh restart

Redirecting to /bin/systemctl restart ssh.service

Failed to restart ssh.service: The name org.freedesktop.PolicyKit1 was not provided by any .service files
See system logs and 'systemctl status ssh.service' for details.

[ansible@ip-172-31-45-217 home]\$ vi /etc/ssh/sshd_config

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

[root@ip-172-31-45-217 home]# ^C

[root@ip-172-31-45-217 home]# vi /etc/ssh/sshd_config

[root@ip-172-31-45-217 home]# ssh service restart

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]#
