

## Lab Exercise 11– Configure Ansible Setup In Linux

### Objective:

To configure Ansible Setup for Linux Environment.

The first screenshot shows the installation of the `epel-release-latest-7.noarch.rpm` package. The user runs `wget` to download the package from the EPEL repository, then `rpm -ivh` to install it. The output shows the package being installed successfully.

```

[root@ip-172-31-39-113 ~]# wget https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm
--2024-04-20 10:22:50-- https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm
Resolving dl.fedoraproject.org (dl.fedoraproject.org)... 30.145.60.32, 30.145.60.24, 30.145.60.22
Connecting to dl.fedoraproject.org (dl.fedoraproject.org|30.145.60.22):443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 15608 (15K) application/x-rpm
Saving for 'epel-release-latest-7.noarch.rpm'

100%[>] 15,408 45.1KB/s in 0.3s

2024-04-20 10:22:51 (60.1 KB/s) - 'epel-release-latest-7.noarch.rpm' saved [15608/15608]

[root@ip-172-31-39-113 ec2-user]# rpm -ivh epel-release-latest-7.noarch.rpm
loaded plugins: extras, suggestions, langpacks, priorities, update-mold
Examining epel-release-latest-7.noarch.rpm: epel-release-latest-7.noarch
Preparing 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

```

The second screenshot shows the update of the `epel-release` package. The user runs `yum update -y` to update the package. The output shows the package being updated successfully, along with the removal of obsolete packages.

```

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


Complete!
[root@ip-172-31-39-113 ec2-user]# yum update -y
loaded plugins: extras, suggestions, langpacks, priorities, update-mold
2/2 packages excluded due to repository priority protections
Resolving Dependencies
--> Running transaction check
--> Package python-lockfile.noarch 1:0.9.1-4.amzn2 will be obsoleted
--> Package python-simplejson.x86_64 0:3.2.0-1.amzn2.0.2 will be obsoleted
--> Package python2-lockfile.noarch 1:0.11.0-17.el7 will be obsoleting
--> Package python2-simplejson.x86_64 0:3.11.1-1.el7 will be obsoleting
--> Finished Dependency Resolution

Dependencies Resolved

Package Arch Version Repository Size
Installing:
python2-lockfile
noarch 1:0.11.0-17.el7 epel 29 k
replacing python-lockfile.noarch 1:0.9.1-4.amzn2
python2-simplejson
x86_64 3.11.1-1.el7 epel 180 k
replacing python-simplejson.x86_64 0:3.2.0-1.amzn2.0.2

Transaction Summary
Install 2 Packages
Total download size: 218 k
Downloading packages:

```



The screenshot shows a terminal window with the following content:

```
python-lockfile.sourc 110.9.1-6.amzn2 python-simplejson.x86_64 0.3.2.0-1.amzn1.0.2
```

```
Complete!
```

```
[root@ip-172-31-10-113 ec2-user]# yum install git python python-pip openssl -y
```

```
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
```

```
amzn2-core                                1.6 KB | 00:00:00
```

```
323 packages excluded due to repository priority protections
```

```
Package python-2.7.18-1.amzn2.0.3.x86_64 already installed and latest version
```

```
Package openssl-1.0.2k-24.amzn2.0.12.x86_64 already installed and latest version
```

```
Resolving Dependencies
```

```
→ Running transaction check
```

```
→ Package git.x86_64 0:2.40.1-1.amzn2.0.1 will be installed
```

```
→ Processing Dependency: git-core = 2.40.1-1.amzn2.0.1 for package: git-2.40.1-1.amzn2.0.1.x86_64
```

```
→ Processing Dependency: git-core-doc = 2.40.1-1.amzn2.0.1 for package: git-2.40.1-1.amzn2.0.1.x86_64
```

```
→ Processing Dependency: perl-Git = 2.40.1-1.amzn2.0.1 for package: git-2.40.1-1.amzn2.0.1.x86_64
```

```
→ Processing Dependency: perlGit for package: git-2.40.1-1.amzn2.0.1.x86_64
```

```
→ Processing Dependency: perl(Term::ReadKey) for package: git-2.40.1-1.amzn2.0.1.x86_64
```

```
→ Package python2-pip.sourc 0:20.2.2-1.amzn2.0.5 will be installed
```

```
→ Running transaction check
```

```
→ Package git-core.x86_64 0:2.40.1-1.amzn2.0.1 will be installed
```

```
→ Package git-core-doc.noarch 0:2.40.1-1.amzn2.0.1 will be installed
```

```
→ Package perl-Git.noarch 0:2.40.1-1.amzn2.0.1 will be installed
```

```
→ Processing Dependency: perl(Git) for package: perl-Git-2.40.1-1.amzn2.0.1.noarch
```

```
→ Package perl-TermReadKey.x86_64 0:2.30-20.amzn2.0.2 will be installed
```

```
→ Running transaction check
```

```
→ Package perl-Git.noarch 1:0.17020-2.amzn2 will be installed
```

```
→ Finished Dependency Resolution
```

```
Dependencies Resolved
```

Package	Arch	Version	Repository	Size
installing:				

```
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```

git.nfc\_64 0:2.40.1-1.amzn2.0.1 python3-pip.noarch 0:20.2.2-1.amzn2.0.5

Dependency Installed:

git-norm.x86\_64 0:2.40.1-1.amzn2.0.1 git-norm-doc.noarch 0:2.40.1-1.amzn2.0.1 perl-Error.noarch 1:0.17020-3.amzn2 perl-Git.noarch 0:2.40.1-1.amzn2.0.1  
perl-TermReadKey.x86\_64 0:2.10-26.amzn2.0.2

Complete!

(root@ip-172-31-19-113 ec2-user) # yum install ansible

loaded plugins: extras, suggestions, langpacks, priorities, update-motd

229 packages excluded due to repository priority protections

Resolving Dependencies

-> Running transaction check

-> Package ansible.noarch 0:2.9.27-1.el7 will be installed

-> Processing Dependency: python-httplib2 for package: ansible-2.9.27-1.el7.noarch

-> Processing Dependency: python-paramiko for package: ansible-2.9.27-1.el7.noarch

-> Processing Dependency: sshpass for package: ansible-2.9.27-1.el7.noarch

-> Running transaction check

-> Package python-paramiko.noarch 0:2.11-0.10.el7 will be installed

-> Package python2-httplib2.noarch 0:0.10.1-3.el7 will be installed

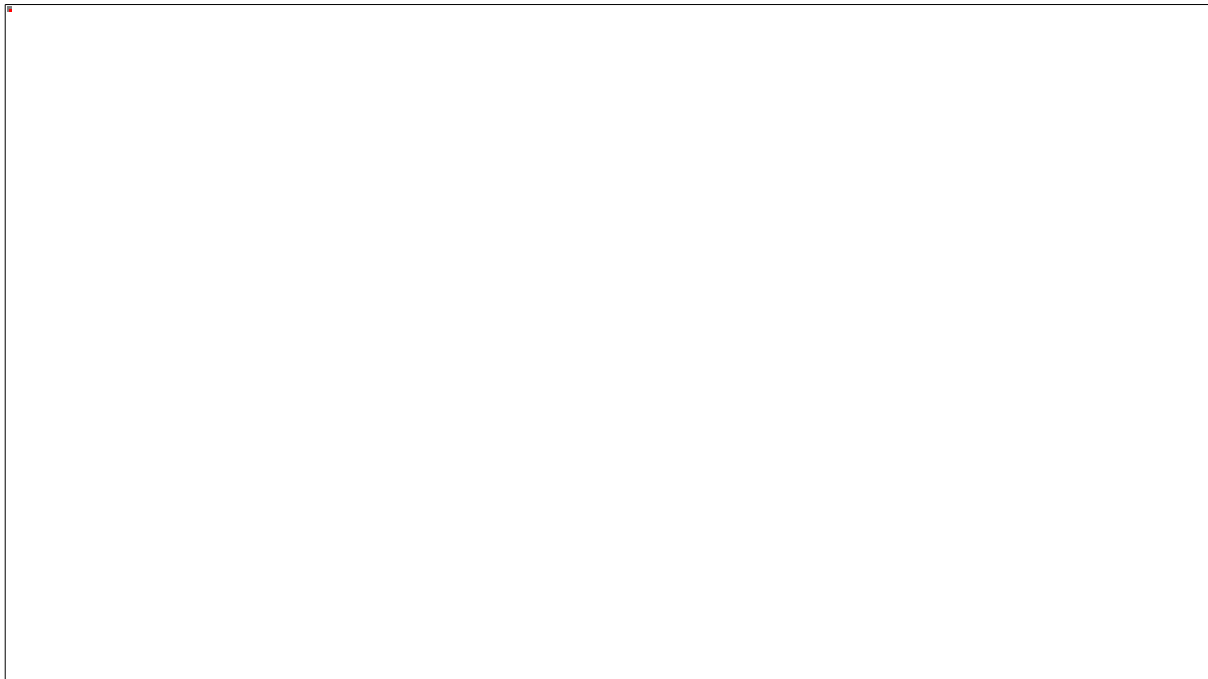
-> Package sshpass.x86\_64 0:1.06-1.el7 will be installed

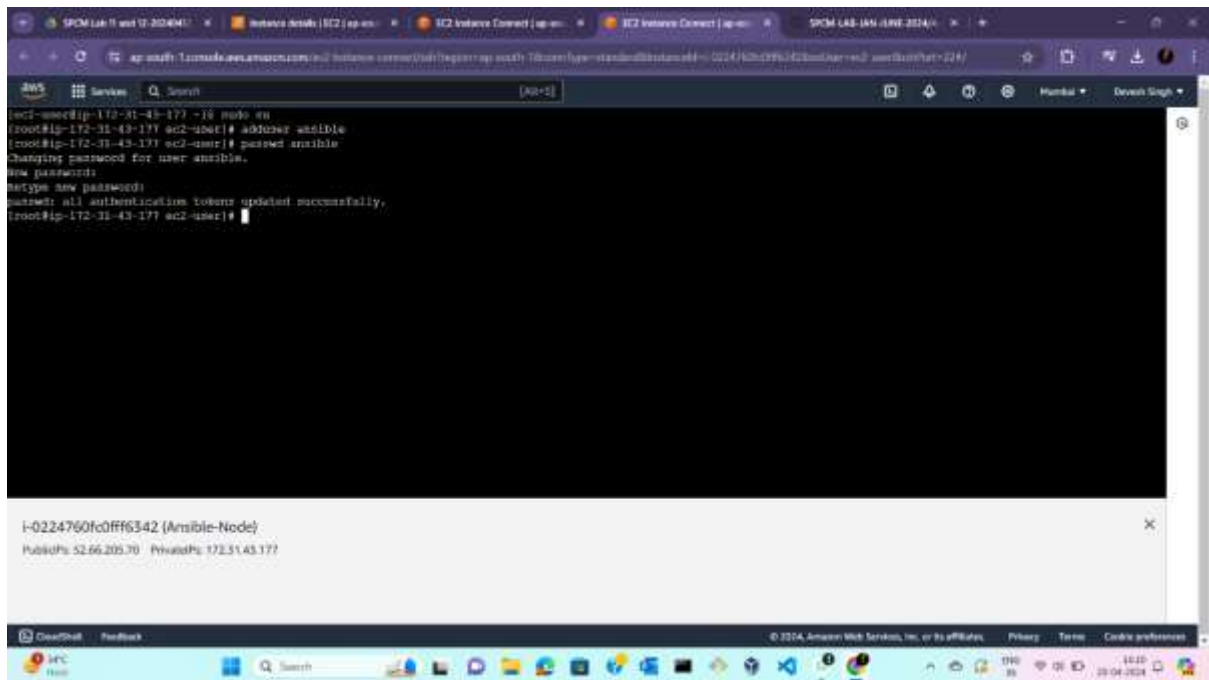
-> Finished Dependency Resolution

Dependencies Resolved

Package	Arch	Version	Repository	Size
Installing:				
ansible	noarch	2.9.27-1.el7	epel	17 M
installing dependencies:				
python-paramiko	noarch	2.11-0.10.el7	epel	269 K
python2-httplib2	noarch	0.10.1-3.el7	epel	125 K
sshpass	x86_64	1.06-1.el7	epel	21 K

```
root@ip-172-31-39-113 ec2-user:~# ansible --version
ansible 2.9.27
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/python2.7/site-packages/ansible
executable location = /bin/ansible
python version = 2.7.18 (default, Dec 18 2018, 22:46:43) (GCC 7.3.1 20180712 (Red Hat 7.3.1-15))
root@ip-172-31-39-113 ec2-user:~#
```





The screenshot displays the AWS Management Console interface. The top navigation bar includes the AWS logo, a search bar, and a user profile. The main content area shows the 'Instances' page with a list of EC2 instances. The selected instance, 'i-0224760fc0ff6342 (Amble-Node)', is highlighted. Below the instance list, the 'Terminal' tab is active, showing a shell session. The terminal output indicates that the user 'amblie' is available and the password has been successfully updated. The terminal prompt is '[root@ip-172-31-43-177 ~]#'. The bottom of the screenshot shows the Windows taskbar with various application icons and the system clock.

```
awscli-user@ip-172-31-43-177 ~$ sudo su
[root@ip-172-31-43-177 ~]# cat /etc/passwd | grep amblie
amblie:x:1000:1000::/home/amblie:/bin/bash
Changing password for user amblie.
new password:
retype new password:
passwd: all authentication tokens updated successfully.
[root@ip-172-31-43-177 ~]#
```

i-0224760fc0ff6342 (Amble-Node)  
PublicHk: 52.66.205.70 PrivateHk: 172.31.43.177

