

```
[root@ip-172-31-47-88 ec2-user]# yum install epel-release-latest-7.noarch.rpm
Failed to set locale, defaulting to C
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

amzn2-core/2/x86_64 | 3.6 kB 00:00:00

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
```

```
[root@ip-172-31-47-88 ec2-user]# yum install git python python-pip openssl -y
Failed to set locale, defaulting to C
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
229 packages excluded due to repository priority protections
Package python-2.7.18-1.amzn2.0.8.x86_64 already installed and latest version
Package 1: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: perl(Git) 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.noarch 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(Error) 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
```

```
[root@ip-172-31-47-88 ec2-user]# yum update -y
Failed to set locale, defaulting to C
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Existing lock /var/run/yum.pid: another copy is running as pid 3388.
Another app is currently holding the yum lock; waiting for it to exit...
  The other application is: yum
    Memory : 362 M RSS (657 MB VSZ)
    Started: Fri Apr 26 08:00:48 2024 - 00:25 ago
    State   : Running, pid: 3388
Another app is currently holding the yum lock; waiting for it to exit...
  The other application is: yum
    Memory : 362 M RSS (657 MB VSZ)
    Started: Fri Apr 26 08:00:48 2024 - 00:27 ago
    State   : Running, pid: 3388
229 packages excluded due to repository priority protections
Resolving Dependencies
```

```
[root@ip-172-31-47-88 ec2-user]# yum install ansible
Failed to set locale, defaulting to C
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 0:2.1.1-0.10.el7 will be installed
--> Package python2-httplib2.noarch 0:0.18.1-3.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 for dependencies:
python-paramiko noarch 2.1.1-0.10.el7 epel 269 k
python2-httplib2 noarch 0.18.1-3.el7 epel 125 k
sshpas x86_64 1.06-1.el7 epel 21 k
Transaction Summary
=====
```

```
[root@ip-172-31-47-88 ec2-user]# ansible --version
ansible 2.9.27
  config file = /etc/ansible/ansible.cfg
  configured module search path = [u'/root/.ansible/plugins/modules', u'/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 2023, 22:08:43) [GCC 7.3.1 20180712 (Red Hat 7.3.1-17)]
```



Step: open the file /etc/ansible/hosts and create a new group and in that group insert the IP of you ansible node.

```
[[root@ip-172-31-47-88 ec2-user]# vi /etc/ansible/hosts
```

```
# If you have multiple hosts following a pattern you can specify
# them like this:

## www[001:006].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
[upes]
172.31.41.239
```

Step: Add a new user to the ansible server

```
[[root@ip-172-31-47-88 ec2-user]# vi /etc/ansible/hosts
[[root@ip-172-31-47-88 ec2-user]# adduser ansible
[[root@ip-172-31-47-88 ec2-user]# passwd ansible
Changing password for user ansible.
New password:
BAD PASSWORD: The password is shorter than 8 characters
[Retype new password:
Sorry, passwords do not match.
New password:
BAD PASSWORD: The password is shorter than 8 characters
[Retype new password:
passwd: all authentication tokens updated successfully.
[[root@ip-172-31-47-88 ec2-user]#
```

Step: Connect to ansible node and create a new user by the same name as on the ansible server

```
~\_#####_ Amazon Linux 2
-- \_#####\
-- \_###| AL2 End of Life is 2025-06-30.
-- \#/
-- v~'-'>
--- /
~.._./ /
_/_/_/ Amazon Linux 2023, GA and supported until 2028-03-15.
_/m/' / https://aws.amazon.com/linux/amazon-linux-2023/

[ec2-user@ip-172-31-41-239 ~]$ sudo su
[root@ip-172-31-41-239 ec2-user]# adduser ansible
[root@ip-172-31-41-239 ec2-user]# passwd ansible
Changing password for user ansible.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[root@ip-172-31-41-239 ec2-user]#
```

Step : inside the ansible node over write the permission and grant all permissions to the new created user.

```
[root@ip-172-31-41-239 ec2-user]# visudo
[root@ip-172-31-41-239 ec2-user]#
```

```
##
## Allow root to run any commands anywhere
root    ALL=(ALL)        ALL
ansible ALL=(ALL) NOPASSWD:ALL
## Allows members of the 'sys' group to run networking, software,
## service management apps and more.
```

Do the similar in ansible server

```
## Allow root to run any commands anywhere
root    ALL=(ALL)        ALL
ansible ALL=(ALL) NOPASSWD= ALL
```

Step: from the server switch to the ansible user and generate a public ssh key.

```
[root@ip-172-31-47-88 ec2-user]# su - ansible
[ansible@ip-172-31-47-88 ~]$ ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/home/ansible/.ssh/id_rsa):
Created directory '/home/ansible/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/ansible/.ssh/id_rsa.
Your public key has been saved in /home/ansible/.ssh/id_rsa.pub.
The key fingerprint is:
SHA256:+/dIM8Ix70a40kpx+78bg6n1Q30QR0jE1W66BMhoTuE ansible@ip-172-31-47-88.ap-south-1.compute.interna
The key's randomart image is:
+---[RSA 2048]-----+
|      . +0.      |
|      . + . .    |
|    . + + . 0    |
|   E 0.0 0 0    |
|  +. S +. +     |
|   .0 = == .    |
|   ... Xo*+     |
|   .. .B =0*.   |
|   .0+.0.B*.    |
+---[SHA256]-----+
[ansible@ip-172-31-47-88 ~]$ ls -a
.  ..  .bash_logout  .bash_profile  .bashrc  .ssh
```

Step: the next step would be to register this key on the ansible node. So go to ansible node , switch to root user and then open /etc/ssh/sshd\_config

```
[ansible@ip-172-31-41-239 ~]$ sudo su
[root@ip-172-31-41-239 ansible]# cd ..
[root@ip-172-31-41-239 home]# ls
ansible ec2-user
[root@ip-172-31-41-239 home]# vi /etc/ssh/sshd_config
[root@ip-172-31-41-239 home]#
```

```
#LoginGraceTime 2m
PermitRootLogin yes
#StrictModes yes
#MaxAuthTries 6
#MaxSessions 10
```

```
# To disable tunneled clear text passwords, change to no here!
PasswordAuthentication yes
#PermitEmptyPasswords no
#PasswordAuthentication no
```

Step: Now copy the ssh id of the server into the node.

```
[ansible@ip-172-31-47-88 .ssh]$ ssh-copy-id ansible@172.31.41.239
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/ansible/.ssh/id_rsa.pub"
The authenticity of host '172.31.41.239 (172.31.41.239)' can't be established.
ECDSA key fingerprint is SHA256:DwCK5jsrTJP8Q7BPWIEKBvgwiOnVTSBliYZo5wZXO8c.
ECDSA key fingerprint is MD5:ba:8b:f5:6a:d6:40:95:f7:93:e2:06:3a:5f:de:ff:bc.
Are you sure you want to continue connecting (yes/no)? yes
/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@172.31.41.239's password:

Number of key(s) added: 1

Now try logging into the machine, with: "ssh 'ansible@172.31.41.239'"
and check to make sure that only the key(s) you wanted were added.
```

Step: for confirmation ssh the ansible node manually

```
[ansible@ip-172-31-47-88 .ssh]$ ssh ansible@172.31.41.239
Last login: Fri Apr 26 09:50:25 2024

_#_
-#\_####_ Amazon Linux 2
--\_#####\
-- \###| AL2 End of Life is 2025-06-30.
-- \#/
-- V~'-'>
--- / A newer version of Amazon Linux is available!
--._. /
_/_/_/ Amazon Linux 2023, GA and supported until 2028-03-15.
_/m/' https://aws.amazon.com/linux/amazon-linux-2023/

[ansible@ip-172-31-41-239 ~]$
```