```
Last login: Sat Dec  3 19:51:48 on console
vinitraj@VINITs-MacBook-Pro ~ % cd Downloads
vinitraj@VINITs-MacBook-Pro Downloads % chmod 400 ansible.pem
vinitraj@VINITs-MacBook-Pro Downloads % ssh -i "ansible.pem" ec2-user@ec2-13-232-145-134.ap-south-1.compute.amazonaws.com
The authenticity of host 'ec2-13-232-145-134.ap-south-1.compute.amazonaws.com (13.232.145.134)' can't be established.
ED25519 key fingerprint is SHA256:j56hHmEa82tRJ/SwU3S4hslnUoPGTWWb8Besc1fsr0g.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? y
Please type 'yes', 'no' or the fingerprint: yes
Warning: Permanently added 'ec2-13-232-145-134.ap-south-1.compute.amazonaws.com' (ED25519) to the list of known hosts.
Register this system with Red Hat Insights: insights-client --register
Create an account or view all your systems at https://red.ht/insights-dashboard
[ec2-user@ip-172-31-42-160 ~]$ sudo su - root
[root@ip-172-31-42-160 ~]# yum install ansible-core
Updating Subscription Management repositories.
Unable to read consumer identity


This system is not registered with an entitlement server. You can use subscription-manager to register.

Red Hat Enterprise Linux 9 for x86_64 - AppStream from RHUI (RPMs)                                    30 MB/s |  15 MB     00:00
Red Hat Enterprise Linux 9 for x86_64 - BaseOS from RHUI (RPMs)                                       28 MB/s | 6.9 MB     00:00
Red Hat Enterprise Linux 9 Client Configuration                                                      17 kB/s | 2.0 kB     00:00
Dependencies resolved.
==========================================================================================================================================
 Package                    Architecture         Version                      Repository                               Size
==========================================================================================================================================
Installing:
 ansible-core               x86_64               2.13.3-1.el9                 rhel-9-appstream-rhui-rpms               2.7 M
Installing dependencies:
 git-core                   x86_64               2.31.1-2.el9.2               rhel-9-appstream-rhui-rpms               3.6 M
 python3-cffi               x86_64               1.14.5-5.el9                 rhel-9-appstream-rhui-rpms               257 k
 python3-cryptography       x86_64               36.0.1-2.el9                 rhel-9-appstream-rhui-rpms               1.2 M
 python3-packaging          noarch               20.9-5.el9                   rhel-9-appstream-rhui-rpms                81 k
 python3-ply                noarch               3.11-14.el9                  rhel-9-appstream-rhui-rpms               111 k
 python3-pycparser          noarch               2.20-6.el9                   rhel-9-appstream-rhui-rpms               139 k
 python3-pyparsing          noarch               2.4.7-9.el9                  rhel-9-baseos-rhui-rpms                  154 k
 python3-resolvelib         noarch               0.5.4-5.el9                  rhel-9-appstream-rhui-rpms                38 k
 sshpass                    x86_64               1.09-4.el9                   rhel-9-appstream-rhui-rpms                30 k

Transaction Summary
==========================================================================================================================================
Install  10 Packages

Total download size: 8.3 M
Installed size: 35 M
Is this ok [y/N]: y
Downloading Packages:
(1/10): python3-resolvelib-0.5.4-5.el9.noarch.rpm                                                    568 kB/s |  38 kB     00:00
(2/10): sshpass-1.09-4.el9.x86_64.rpm                                                                 429 kB/s |  30 kB     00:00
(3/10): python3-cffi-1.14.5-5.el9.x86_64.rpm                                                          3.3 MB/s | 257 kB     00:00
(4/10): python3-pycparser-2.20-6.el9.noarch.rpm                                                       9.9 MB/s | 139 kB     00:00
(5/10): python3-packaging-20.9-5.el9.noarch.rpm                                                       6.3 MB/s |  81 kB     00:00
(6/10): python3-ply-3.11-14.el9.noarch.rpm                                                            8.1 MB/s | 111 kB     00:00
(7/10): python3-cryptography-36.0.1-2.el9.x86_64.rpm                                                   23 MB/s | 1.2 MB     00:00
(8/10): git-core-2.31.1-2.el9.2.x86_64.rpm                                                             34 MB/s | 3.6 MB     00:00
(9/10): python3-pyparsing-2.4.7-9.el9.noarch.rpm                                                      4.9 MB/s | 154 kB     00:00
(10/10): ansible-core-2.13.3-1.el9.x86_64.rpm                                                          22 MB/s | 2.7 MB     00:00
------------------------------------------------------------------------------------------------------------------------------------------
Total                                                                                                  31 MB/s | 8.3 MB     00:00
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing        :                                                                                                       1/1
  Installing       : python3-pyparsing-2.4.7-9.el9.noarch                                                                1/10
  Installing       : python3-packaging-20.9-5.el9.noarch                                                                 2/10
  Installing       : python3-ply-3.11-14.el9.noarch                                                                      3/10
  Installing       : python3-pycparser-2.20-6.el9.noarch                                                                 4/10
  Installing       : python3-cffi-1.14.5-5.el9.x86_64                                                                    5/10
  Installing       : python3-cryptography-36.0.1-2.el9.x86_64                                                            6/10
  Installing       : git-core-2.31.1-2.el9.2.x86_64                                                                      7/10
  Installing       : sshpass-1.09-4.el9.x86_64                                                                           8/10
  Installing       : python3-resolvelib-0.5.4-5.el9.noarch                                                               9/10
  Installing       : ansible-core-2.13.3-1.el9.x86_64                                                                   10/10
  Running scriptlet: ansible-core-2.13.3-1.el9.x86_64                                                                   10/10
  Verifying        : python3-cffi-1.14.5-5.el9.x86_64                                                                    1/10
  Verifying        : python3-resolvelib-0.5.4-5.el9.noarch                                                               2/10
  Verifying        : sshpass-1.09-4.el9.x86_64                                                                           3/10
  Verifying        : python3-pycparser-2.20-6.el9.noarch                                                                 4/10
  Verifying        : git-core-2.31.1-2.el9.2.x86_64                                                                      5/10
  Verifying        : python3-packaging-20.9-5.el9.noarch                                                                 6/10
  Verifying        : python3-ply-3.11-14.el9.noarch                                                                      7/10
  Verifying        : ansible-core-2.13.3-1.el9.x86_64                                                                    8/10
  Verifying        : python3-cryptography-36.0.1-2.el9.x86_64                                                            9/10
  Verifying        : python3-pyparsing-2.4.7-9.el9.noarch                                                               10/10
Installed products updated.

Installed:
  ansible-core-2.13.3-1.el9.x86_64          git-core-2.31.1-2.el9.2.x86_64       python3-cffi-1.14.5-5.el9.x86_64       python3-cryptography-36.0.1-2.el9.x86_64
  python3-packaging-20.9-5.el9.noarch       python3-ply-3.11-14.el9.noarch       python3-pycparser-2.20-6.el9.noarch    python3-pyparsing-2.4.7-9.el9.noarch
  python3-resolvelib-0.5.4-5.el9.noarch     sshpass-1.09-4.el9.x86_64

Complete!
[root@ip-172-31-42-160 ~]# ansible --version
ansible [core 2.13.3]
  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/python3.9/site-packages/ansible
  ansible collection location = /root/.ansible/collections:/usr/share/ansible/collections
  executable location = /usr/bin/ansible
  python version = 3.9.14 (main, Sep 21 2022, 00:00:00) [GCC 11.3.1 20220421 (Red Hat 11.3.1-2)]
  jinja version = 3.1.2
  libyaml = True
[root@ip-172-31-42-160 ~]# rpm -q dialog
```

```
package dialog is not installed
[root@ip-172-31-42-160 ~]# dnf install dialog
Updating Subscription Management repositories.
Unable to read consumer identity

This system is not registered with an entitlement server. You can use subscription-manager to register.

Last metadata expiration check: 0:01:00 ago on Sat 03 Dec 2022 03:48:11 PM UTC.
Dependencies resolved.
================================================================================================================
 Package              Architecture        Version               Repository                         Size
================================================================================================================
Installing:
 dialog               x86_64              1.3-32.20210117.el9    rhel-9-appstream-rhui-rpms         300 k

Transaction Summary
================================================================================================================
Install  1 Package

Total download size: 300 k
Installed size: 581 k
Is this ok [y/N]: y
Downloading Packages:
dialog-1.3-32.20210117.el9.x86_64.rpm                                       6.9 MB/s | 300 kB     00:00
----------------------------------------------------------------------------------------------------------------
Total                                                                       4.1 MB/s | 300 kB     00:00
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing        :                                                                                1/1
  Installing       : dialog-1.3-32.20210117.el9.x86_64                                              1/1
  Running scriptlet: dialog-1.3-32.20210117.el9.x86_64                                              1/1
  Verifying        : dialog-1.3-32.20210117.el9.x86_64                                              1/1
Installed products updated.

Installed:
  dialog-1.3-32.20210117.el9.x86_64

Complete!
[root@ip-172-31-42-160 ~]# rpm -q dialog
dialog-1.3-32.20210117.el9.x86_64
[root@ip-172-31-42-160 ~]# dnf remove dialog
Updating Subscription Management repositories.
Unable to read consumer identity

This system is not registered with an entitlement server. You can use subscription-manager to register.

Dependencies resolved.
================================================================================================================
 Package              Architecture        Version               Repository                         Size
================================================================================================================
Removing:
 dialog               x86_64              1.3-32.20210117.el9    @rhel-9-appstream-rhui-rpms        581 k

Transaction Summary
================================================================================================================
Remove  1 Package

Freed space: 581 k
Is this ok [y/N]: y
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing        :                                                                                1/1
  Erasing          : dialog-1.3-32.20210117.el9.x86_64                                              1/1
  Running scriptlet: dialog-1.3-32.20210117.el9.x86_64                                              1/1
  Verifying        : dialog-1.3-32.20210117.el9.x86_64                                              1/1
Installed products updated.

Removed:
  dialog-1.3-32.20210117.el9.x86_64

Complete!
[root@ip-172-31-42-160 ~]# rpm -q dialog
package dialog is not installed
[root@ip-172-31-42-160 ~]# ansible localhost -m package -a "name=dialog state=present"
localhost | CHANGED => {
    "changed": true,
    "msg": "",
    "rc": 0,
    "results": [
        "Installed: dialog-1.3-32.20210117.el9.x86_64"
    ]
}
[root@ip-172-31-42-160 ~]# ansible localhost -m package -a "name=dialog state=present"
localhost | SUCCESS => {
    "changed": false,
    "msg": "Nothing to do",
    "rc": 0,
    "results": []
}
[root@ip-172-31-42-160 ~]# rpm -q dialog
dialog-1.3-32.20210117.el9.x86_64
[root@ip-172-31-42-160 ~]# ansible localhost -m package -a "name=dialog state=absent"
localhost | CHANGED => {
    "changed": true,
    "msg": "",
    "rc": 0,
    "results": [
        "Removed: dialog-1.3-32.20210117.el9.x86_64"
    ]
}
```

```
}
[root@ip-172-31-42-160 ~]# rpm -q dialog
package dialog is not installed
[root@ip-172-31-42-160 ~]# echo "The output which comes in orange or non green color means the state has been changed, however the output which comes in green col
or means the state didnt change and is called IDEMPOTENT.
> THIS IS IDEMPOTENT.
> ^C
[root@ip-172-31-42-160 ~]#  echo "The output which comes in orange or non green color means the state has been changed, however the output which comes in green co
lor means the state didnt change and is called IDEMPOTENT."
The output which comes in orange or non green color means the state has been changed, however the output which comes in green color means the state didnt change a
nd is called IDEMPOTENT.
[root@ip-172-31-42-160 ~]#
```