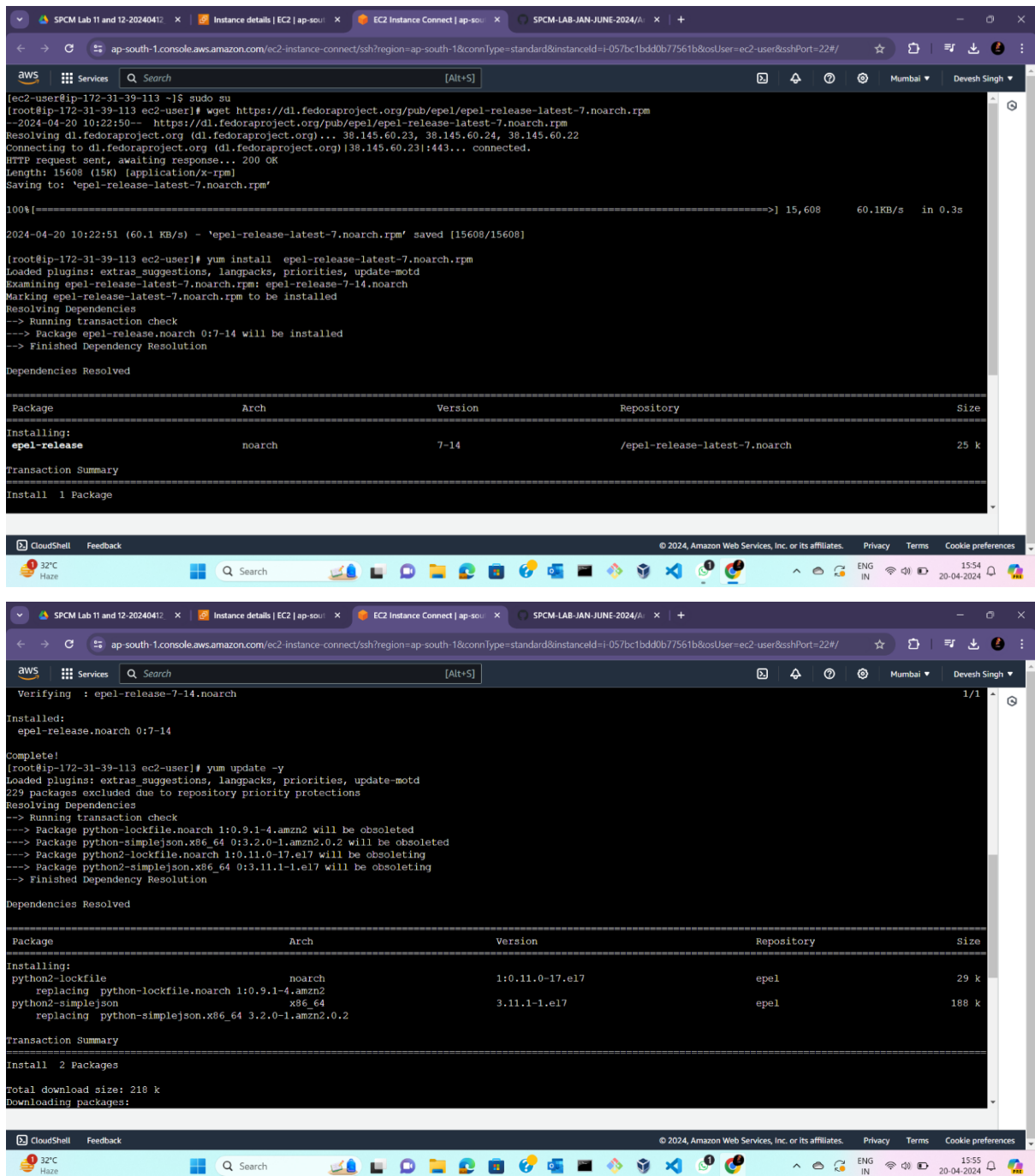


# Lab Exercise 11– Configure Ansible Setup In Linux

## Objective:

To configure Ansible Setup for Linux Environment.



The screenshot displays the AWS CloudShell interface with a terminal window. The terminal shows the following commands and output:

```
[ec2-user@ip-172-31-39-113 ~]$ sudo su
[root@ip-172-31-39-113 ec2-user]# 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)... 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      60.1KB/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]# 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
```

Below the terminal output, a table summarizes the installed package:

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

The terminal continues with the following commands and output:

```
[root@ip-172-31-39-113 ec2-user]# yum update -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
229 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                                     188 k
replacing python-simplejson.x86_64 3.2.0-1.amzn2.0.2
Transaction Summary
Install 2 Packages
Total download size: 218 k
Downloading packages:
```

Below the terminal output, a table summarizes the installed packages:

Package	Arch	Version	Repository	Size
python2-lockfile	noarch	1:0.11.0-17.el7	epel	29 k
python2-simplejson	x86_64	3.11.1-1.el7	epel	188 k

SPCM Lab 11 and 12-20240412 | Instance details | EC2 | ap-sou... | EC2 Instance Connect | ap-sou... | SPCM-LAB-JAN-JUNE-2024/A... | +

ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-057bc1bdd0b77561b&osUser=ec2-user&sshPort=22#/?

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```
python-lockfile.noarch 1:0.9.1-4.amzn2 python-simplejson.x86_64 0:3.2.0-1.amzn2.0.2

Complete!
[root@ip-172-31-39-113 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
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(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
--> Running transaction check
--> Package perl-Error.noarch 1:0.17020-2.amzn2 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package                                Arch                                Version                                Repository                                Size
=====
Installing:

```

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SPCM Lab 11 and 12-20240412 | Instance details | EC2 | ap-sou... | EC2 Instance Connect | ap-sou... | SPCM-LAB-JAN-JUNE-2024/A... | +

ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-057bc1bdd0b77561b&osUser=ec2-user&sshPort=22#/?

aws | Services | Search | [Alt+S] | Mumbai | Devesh Singh

```
git.x86_64 0:2.40.1-1.amzn2.0.1 python2-pip.noarch 0:20.2.2-1.amzn2.0.5

Dependency Installed:
git-core.x86_64 0:2.40.1-1.amzn2.0.1 git-core-doc.noarch 0:2.40.1-1.amzn2.0.1 perl-Error.noarch 1:0.17020-2.amzn2 perl-Git.noarch 0:2.40.1-1.amzn2.0.1
perl-TermReadKey.x86_64 0:2.30-20.amzn2.0.2

Complete!
[root@ip-172-31-39-113 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 0:2.1.1-0.10.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

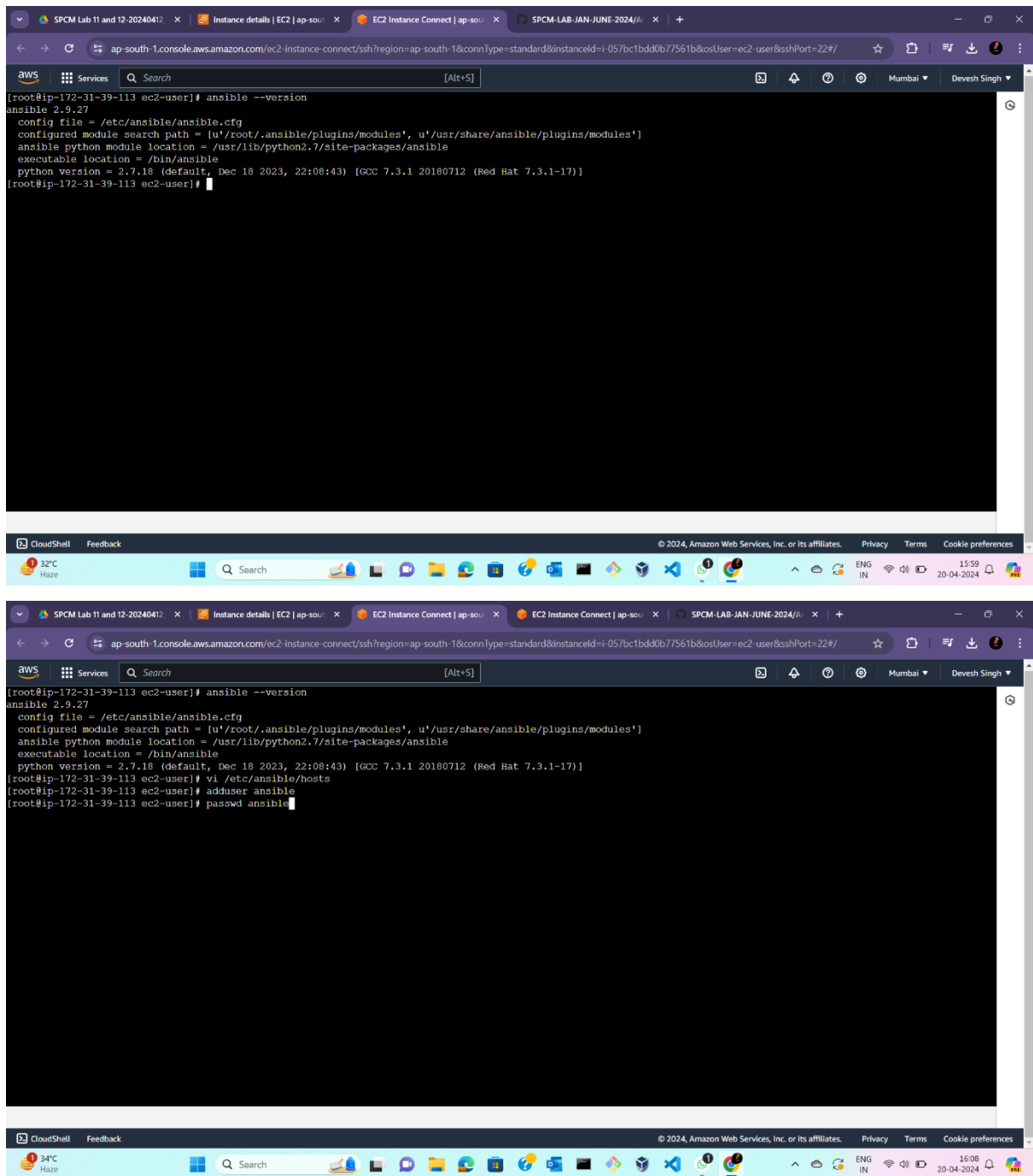
Dependencies Resolved

=====
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
sshpass                               x86_64                                1.06-1.el7                                epel                                21 k

```

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The image displays two sequential screenshots of an AWS CloudShell terminal window. The browser tabs at the top include 'SPCM Lab 11 and 12-20240412', 'Instance details | EC2 | ap-sou...', 'EC2 Instance Connect | ap-sou...', and 'SPCM-LAB-JAN-JUNE-2024/A...'. The terminal prompt is '[root@ip-172-31-39-113 ec2-user]#'. In the first screenshot, the command 'ansible --version' is executed, displaying the following output: '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', and 'python version = 2.7.18 (default, Dec 18 2023, 22:08:43) [GCC 7.3.1 20180712 (Red Hat 7.3.1-17)]'. In the second screenshot, the user continues the setup by running 'vi /etc/ansible/hosts', 'adduser ansible', and 'passwd ansible'.

```
[root@ip-172-31-39-113 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)]
[root@ip-172-31-39-113 ec2-user]#
```

```
[root@ip-172-31-39-113 ec2-user]# vi /etc/ansible/hosts
[root@ip-172-31-39-113 ec2-user]# adduser ansible
[root@ip-172-31-39-113 ec2-user]# passwd ansible
```

The screenshot displays the AWS CloudShell interface with a terminal window. The terminal shows the following commands and output:

```
(ec2-user@ip-172-31-43-177 ~)$ sudo su
[root@ip-172-31-43-177 ec2-user]# adduser ansible
[root@ip-172-31-43-177 ec2-user]# passwd ansible
Changing password for user ansible.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
[root@ip-172-31-43-177 ec2-user]#
```

Below the terminal, a card for instance `i-0224760fc0ff6342` (Ansible-Node) is shown, listing PublicIPs: 52.66.205.70 and PrivateIPs: 172.31.43.177.

The second part of the screenshot shows the same CloudShell terminal with the content of the `/etc/sudoers` file:

```
# Adding HOME to env_keep may enable a user to run unrestricted
# commands via sudo.
# Defaults    env_keep += "HOME"
Defaults     secure_path = /sbin:/bin:/usr/sbin:/usr/bin

## Next comes the main part: which users can run what software on
## which machines (the sudoers file can be shared between multiple
## systems).
## Syntax:
##
##    user    MACHINE=COMMANDS
##
## The COMMANDS section may have other options added to it.
##
## Allow root to run any commands anywhere
root    ALL=(ALL)    ALL
ansible ALL=(ALL)    NOPASSWD: !telnet
## Allows members of the 'sys' group to run networking, software,
## service management apps and more.
# %sys ALL = NETWORKING, SOFTWARE, SERVICES, STORAGE, DELEGATING, PROCESSES, LOCATE, DRIVERS

## Allows people in group wheel to run all commands
-- INSERT --
```

The terminal output shows the file size as 101,31 bytes and 85% completion.

```
SPCM Lab 11 and 12-20240412 x Instance details | EC2 | ap-sou x EC2 Instance Connect | ap-sou x EC2 Instance Connect | ap-sou x SPCM-LAB-JAN-JUNE-2024/A x +
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-0224760fc0ff6342&osUser=ec2-user&sshPort=22#/?
AWS Services Search [Alt+S] Mumbai Devesh Singh

# Adding HOME to env_keep may enable a user to run unrestricted
# commands via sudo.
# Defaults env_keep += "HOME"
Defaults secure_path = /sbin:/bin:/usr/sbin:/usr/bin

## Next comes the main part: which users can run what software on
## which machines (the sudoers file can be shared between multiple
## systems).
## Syntax:
##
## user MACHINE=COMMANDS
##
## The COMMANDS section may have other options added to it.
##
## 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.
## 'sys' = NETWORKING, SOFTWARE, SERVICES, STORAGE, DELEGATING, PROCESSES, LOCATE, DRIVERS

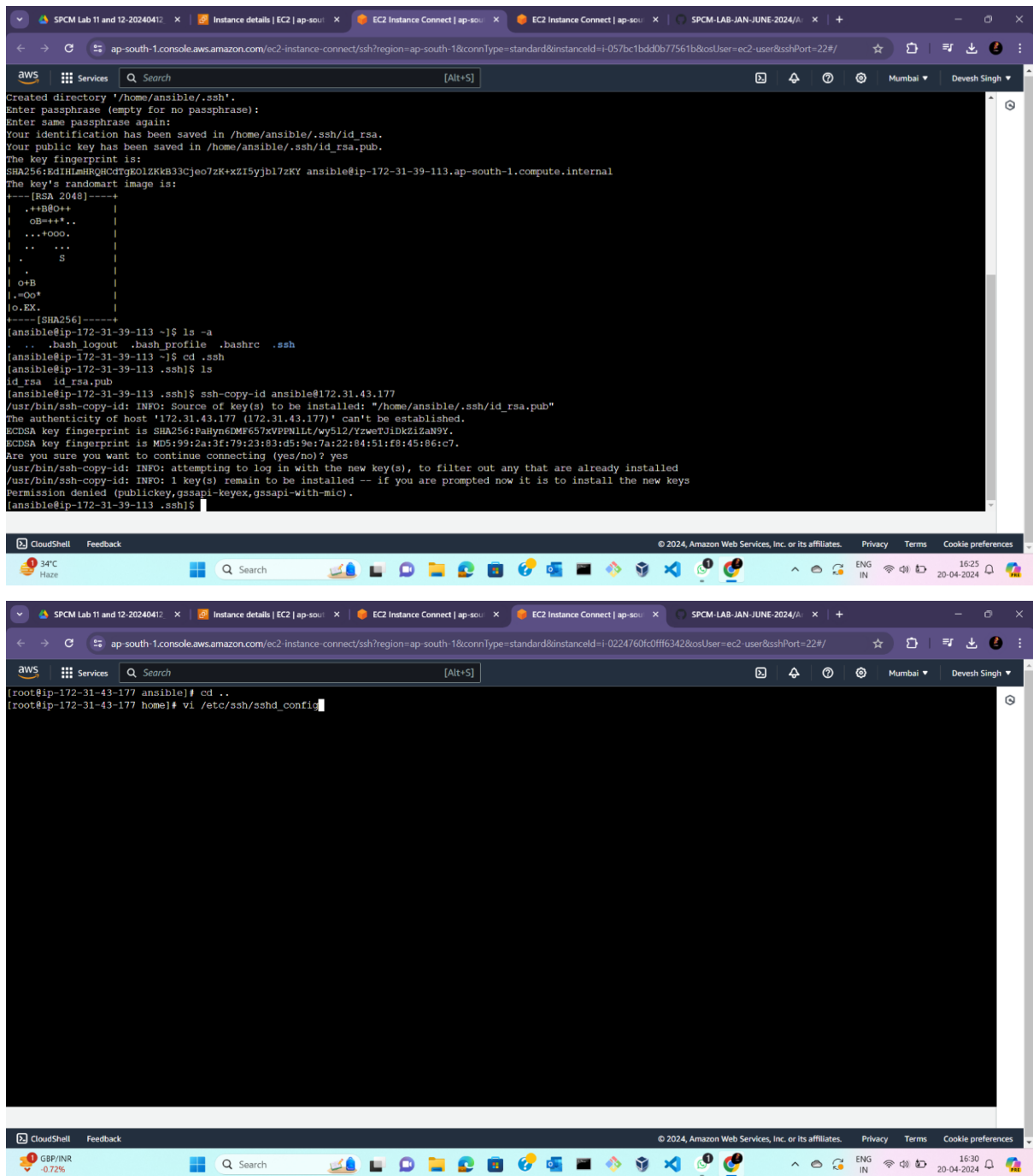
## Allows people in group wheel to run all commands
-- INSERT -- 101,31 85%

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34°C Haze Search 16:15 20-04-2024

SPCM Lab 11 and 12-20240412 x Instance details | EC2 | ap-sou x EC2 Instance Connect | ap-sou x EC2 Instance Connect | ap-sou x SPCM-LAB-JAN-JUNE-2024/A x +
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-057bc1bdd0b77561b&osUser=ec2-user&sshPort=22#/?
AWS Services Search [Alt+S] Mumbai Devesh Singh

BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary word
Retype new password:
Sorry, passwords do not match.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
[root@ip-172-31-39-113 ec2-user]# visudo
[root@ip-172-31-39-113 ec2-user]# exit
exit
[ec2-user@ip-172-31-39-113 ~]$ su - ansible
Password:
[ansible@ip-172-31-39-113 ~]$ 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:EdIHLmRQHcdTgEO1ZKk33Cje07zK*xZi5yjb17zKY ansible@ip-172-31-39-113.ap-south-1.compute.internal
The key's randomart image is:
+---[RSA 2048]-----+
| .++B@0++          |
|  OB+++..          |
| ...+ooo.          |
| .. .+..           |
| . S                |
|                    |
| O+B               |
| .-oo*             |
| o.EX.             |
+---[SHA256]-----+
[ansible@ip-172-31-39-113 ~]$

[ansible@ip-172-31-39-113 ~]$ ls -la
.. .bash_logout .bash_profile .bashrc .ssh
[ansible@ip-172-31-39-113 ~]$
```



```
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:EdIHLmHRQHCDTgE01ZKk833Cje07zKxzI5yjb17zKY ansible@ip-172-31-39-113.ap-south-1.compute.internal
The key's randomart image is:
+---[RSA 2048]-----+
|  .+B@0++          |
|  OB+++.          |
|  ...+ooo.         |
|  ..   ...         |
|  .    S           |
|  .               |
|  O+B             |
|  ,.=Oo*          |
|  O.EX.           |
+---[SHA256]-----+
(ansible@ip-172-31-39-113 ~)$ ls -a
. . . .bash_logout .bash_profile .bashrc .ssh
(ansible@ip-172-31-39-113 ~)$ cd .ssh
(ansible@ip-172-31-39-113 .ssh)$ ls
id_rsa id_rsa.pub
(ansible@ip-172-31-39-113 .ssh)$ ssh-copy-id ansible@172.31.43.177
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/ansible/.ssh/id_rsa.pub"
The authenticity of host '172.31.43.177 (172.31.43.177)' can't be established.
ECDSA key fingerprint is SHA256:PaHyn6DMF657xVFPN1Lt/wy512/YzweTjIdK2iZaN9Y.
ECDSA key fingerprint is MD5:99:2a:3f:79:23:83:d5:9e:7a:22:84:51:f8:45:86:c7.
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
Permission denied (publickey,gssapi-keyex,gssapi-with-mic).
(ansible@ip-172-31-39-113 .ssh)$

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34°C
Haze
SPCM Lab 11 and 12-20240412 Instance details | EC2 | ap-sou Instance Connect | ap-sou EC2 Instance Connect | ap-sou SPCM-LAB-JAN-JUNE-2024/A
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-057bc1bdd0b77561b&osUser=ec2-user&sshPort=22#
aws Services Search [Alt+S] Mumbai Devesh Singh
[ansible@ip-172-31-43-177 ~]$ cd ..
[root@ip-172-31-43-177 home]$ vi /etc/ssh/sshd_config
```

```
SPCM Lab 11 and 12-20240412 | x | Instance details | EC2 | ap-sou- | x | EC2 Instance Connect | ap-sou- | x | EC2 Instance Connect | ap-sou- | x | SPCM-LAB-JAN-JUNE-2024/A | x | + | - | x | x |
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-0224760cf0ff63428&osUser=ec2-user&sshPort=22#/
aws Services Search [Alt+S] Mumbai Devesh Singh
#PubkeyAuthentication yes
# The default is to check both .ssh/authorized_keys and .ssh/authorized_keys2
# but this is overridden so installations will only check .ssh/authorized_keys
AuthorizedKeysFile .ssh/authorized_keys
#AuthorizedPrincipalsFile none
# For this to work you will also need host keys in /etc/ssh/ssh_known_hosts
#HostbasedAuthentication no
# Change to yes if you don't trust ~/.ssh/known_hosts for
# HostbasedAuthentication
#IgnoreUserKnownHosts no
# Don't read the user's ~/.rhosts and ~/.shosts files
#IgnoreRhosts yes
# To disable tunneled clear text passwords, change to no here!
PasswordAuthentication yes
#PermitEmptyPasswords no
#PasswordAuthentication no
# Change to no to disable s/key passwords
#ChallengeResponseAuthentication yes
ChallengeResponseAuthentication no
-- INSERT -- 63,2 364
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33°C Haze Search
SPCM Lab 11 and 12-20240412 | x | Instance details | EC2 | ap-sou- | x | EC2 Instance Connect | ap-sou- | x | EC2 Instance Connect | ap-sou- | x | SPCM-LAB-JAN-JUNE-2024/A | x | + | - | x | x |
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-05761bcd0b77561b&osUser=ec2-user&sshPort=22#/
aws Services Search [Alt+S] Mumbai Devesh Singh
| ...+000. |
| ... .. |
| ... S |
| . |
| o+B |
| |..oO* |
| |o.BX. |
| +-----[SHA256]-----+
[ansible@ip-172-31-39-113 ~]$ ls -la
.. .bash_logout .bash_profile .bashrc .ssh
[ansible@ip-172-31-39-113 ~]$ cd .ssh
[ansible@ip-172-31-39-113 .ssh]$ ls
id_rsa id_rsa.pub
[ansible@ip-172-31-39-113 .ssh]$ ssh-copy-id ansible@172.31.43.177
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/ansible/.ssh/id_rsa.pub"
The authenticity of host '172.31.43.177 (172.31.43.177)' can't be established.
ECDSA key fingerprint is SHA256:PaHyndCMp697oVvPmLlWqyS12VzwetUDkZiZaM9r.
ECDSA key fingerprint is MD5:99:2a:3f:79:23:83:d5:9e:7a:22:04:51:f0:45:86:c7.
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
Permission denied (publickey,gssapi-keyex,gssapi-with-mic).
[ansible@ip-172-31-39-113 .ssh]$ ssh-copy-id ansible@172.31.43.177
/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@172.31.43.177's password:
Number of key(s) added: 1
Now try logging into the machine, with: "ssh 'ansible@172.31.43.177'"
and check to make sure that only the key(s) you wanted were added.
[ansible@ip-172-31-39-113 .ssh]$
```



```
SPCM Lab 11 and 12-2024: X Instance details | ap-south-1 | EC2 Instance Connect | ap-south-1 | SPCM-LAB-JAN-JUNE-2024 | X
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-057bc1bdd0b77561b&osUser=ec2-user&sshPort=22#

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[ansible@ip-172-31-39-113 ~]$ ssh-copy-id ansible@172.31.43.177
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/ansible/.ssh/id_rsa.pub"
The authenticity of host '172.31.43.177 (172.31.43.177)' can't be established.
ECDSA key fingerprint is SHA256:PaHyn6DMF657xVFFN1lt/vy512/YzweTjDkZi2aM9Y.
ECDSA key fingerprint is MD5:99:2a:3f:79:23:83:d5:9e:7a:22:84:51:f8:45:06:c7.
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
Permission denied (publickey,gssapi-keyex,gssapi-with-mic).
[ansible@ip-172-31-39-113 ~]$ ssh-copy-id ansible@172.31.43.177
/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@172.31.43.177's password:

Number of key(s) added: 1

Now try logging into the machine, with: "ssh 'ansible@172.31.43.177'"
and check to make sure that only the key(s) you wanted were added.

[ansible@ip-172-31-39-113 ~]$ ssh ansible@172.31.43.177
Last login: Sat Apr 20 11:05:31 2024

  ____      _
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Amazon Linux 2

AL2 End of Life is 2025-06-30.

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/

[ansible@ip-172-31-43-177 ~]$
```