



Department of Information Technology

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Subject: DevOps Lab

Submission:03/10/25 Name of Instructor: Prof. Sujata Oak

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Date of

Experiment No. 10

Aim: Installation of Ansible on top of AWS instance. Configure SSH access to Ansible master/slave and setup ansible host and test the connection.

```
apsit@apsit-lab:~$ cd ansible_pritesh/
apsit@ansible_pritesh $ ssh -i "pritesh_ansible.pem" ubuntu@ec2-35-154-183-54.ap-south-1.compute.amazonaws.com
Warning: Identity file pritesh_ansible.pem not accessible: No such file or directory.
The authenticity of host 'ec2-35-154-183-54.ap-south-1.compute.amazonaws.com (35.154.183.54)' can't be established.
ECDSA key fingerprint is SHA256:stdihTfay+9Wn7AKYSUtlh1Uv8/dukg0k9qH+0AwgCV.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'ec2-35-154-183-54.ap-south-1.compute.amazonaws.com,35.154.183.54' (ECDSA) to the list of known hosts.
ubuntu@ec2-35-154-183-54.ap-south-1.compute.amazonaws.com: Permission denied (publickey).
apsit@ansible_pritesh $ sudo ssh -i "pritesh_ansible.pem" ubuntu@ec2-35-154-183-54.ap-south-1.compute.amazonaws.com
[sudo] password for apsiti:
Warning: Identity file pritesh_ansible.pem not accessible: No such file or directory.
The authenticity of host 'ec2-35-154-183-54.ap-south-1.compute.amazonaws.com (35.154.183.54)' can't be established.
ECDSA key fingerprint is SHA256:stdihTfay+9Wn7AKYSUtlh1Uv8/dukg0k9qH+0AwgCV.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'ec2-35-154-183-54.ap-south-1.compute.amazonaws.com,35.154.183.54' (ECDSA) to the list of known hosts.
ubuntu@ec2-35-154-183-54.ap-south-1.compute.amazonaws.com: Permission denied (publickey).
apsit@ansible_pritesh $ ls
apsit@ansible_pritesh $ clear
apsit@ansible_pritesh $ /home/apsiti/Downloads/pritesh_ansible.pem
bash: /home/apsiti/Downloads/pritesh_ansible.pem: Permission denied
apsit@ansible_pritesh $ ssh -i "pritesh_ansible.pem" ubuntu@ec2-35-154-183-54.ap-south-1.compute.amazonaws.com
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
WARNING: UNPROTECTED PRIVATE KEY FILE!
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
Permissions 0600 for 'pritesh_ansible.pem' are too open.
It is required that your private key files are NOT accessible by others.
This private key will be ignored.
Load key 'pritesh_ansible.pem': bad permissions
ubuntu@ec2-35-154-183-54.ap-south-1.compute.amazonaws.com: Permission denied (publickey).
apsit@ansible_pritesh $ sudo ssh -i "pritesh_ansible.pem" ubuntu@ec2-35-154-183-54.ap-south-1.compute.amazonaws.com
Welcome to Ubuntu 24.04.3 LTS (GNU/Linux 6.12.0-1011-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:        https://ubuntu.com/pro

System information as of Fri Oct 3 03:02:19 UTC 2025
```

```

root@ip-172-31-2-28:/home/ubuntu# apt update -y
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0 MB]
Get:5 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:6 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe Translation-en [5982 kB]
Get:7 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Components [3871 kB]
Get:8 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 c-n-f Metadata [301 kB]
Get:9 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [269 kB]
Get:10 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse Translation-en [118 kB]
Get:11 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Components [35.0 kB]
Get:12 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 c-n-f Metadata [8328 B]
Get:13 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [1484 kB]
Get:14 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main Translation-en [286 kB]
Get:15 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [175 kB]
Get:16 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 c-n-f Metadata [15.3 kB]
Get:17 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1486 kB]
Get:18 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe Translation-en [300 kB]
Get:19 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [378 kB]
Get:20 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [31.1 kB]
Get:21 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [2053 kB]
Get:22 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted Translation-en [463 kB]
Get:23 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 B]
Get:24 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 c-n-f Metadata [544 B]
Get:25 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [32.0 kB]
Get:26 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse Translation-en [6116 B]
Get:27 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [940 B]
Get:28 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata [488 B]
Get:29 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 Packages [40.4 kB]
Get:30 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/main Translation-en [9208 B]

```

```

41 packages can be upgraded. Run 'apt list --upgradable' to see them.
root@ip-172-31-2-28:/home/ubuntu# apt-add-repository ppa:ansible/ansible
Repository: 'Types: deb
URI: https://ppa.launchpadcontent.net/ansible/ansible/ubuntu/
Suites: noble
Components: main
Description:
Ansible is a radically simple IT automation platform that makes your applications and systems easier to deploy. Avoid writing scripts or custom code to deploy and update your applications— automate in a language that approaches plain English, using SSH, with no agents to install on remote systems.
https://ansible.com/

If you face any issues while installing Ansible PPA, file an issue here:
https://github.com/ansible-community/ppa/issues
More info: https://launchpad.net/~ansible/+archive/ubuntu/ansible
Adding repository...
Press [ENTER] to continue or Ctrl-C to cancel.
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease
Get:5 https://ppa.launchpadcontent.net/ansible/ansible/ubuntu noble InRelease [17.0 kB]
Get:6 https://ppa.launchpadcontent.net/ansible/ansible/ubuntu noble/main amd64 Packages [776 B]
Get:7 https://ppa.launchpadcontent.net/ansible/ansible/ubuntu noble/main Translation-en [472 B]
Fetched 19.1 kB in 1s (13.9 kB/s)
Reading package lists... Done
root@ip-172-31-2-28:/home/ubuntu# apt update -y
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease
Get:5 https://ppa.launchpadcontent.net/ansible/ansible/ubuntu noble InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
41 packages can be upgraded. Run 'apt list --upgradable' to see them.
root@ip-172-31-2-28:/home/ubuntu# apt-get install ansible -y
Reading package lists... Done
Building dependency tree... Done

```

```

root@ip-172-31-2-28:/home/ubuntu# ansible --version
ansible [core 2.18.9]
  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/dist-packages/ansible
  ansible collection location = /root/.ansible/collections:/usr/share/ansible/collections
  executable location = /usr/bin/ansible
  python version = 3.12.3 (main, Jun 18 2025, 17:59:45) [GCC 13.3.0] (/usr/bin/python3)
  jinja2 version = 3.1.2
  libyaml = True
root@ip-172-31-2-28:/home/ubuntu# nano /etc/ansible/hosts
root@ip-172-31-2-28:/home/ubuntu# ssh-keygen -t rsa
Generating public/private rsa key pair.
Enter file in which to save the key (/root/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /root/.ssh/id_rsa
Your public key has been saved in /root/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:MasATv8G5ng0b0wLBSiAs2Tcib5h0qgrxKd1n2XUuE root@ip-172-31-2-28
The key's randomart image is:
+--[RSA 3072]-----+
|  ..+.. |
| *B0.. |
| *B000.. |
| *00+0..+E |
| *0*+...S. |
| oo= . + o |
| . . |
| o. |
+-----[SHA256]-----+

```

```

root@ip-172-31-2-28:/home/ubuntu# cd /root/.ssh/
root@ip-172-31-2-28:~/ssh# ls
authorized_keys id_rsa id_rsa.pub known_hosts
root@ip-172-31-2-28:~/ssh# cat id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQGDQFVhj+kElRVCw67blw++vETu+ttJ75H3gRYQSRvjyCNh08t/fPb0q+5XI/wbXx8U5B6qTkKesyPhfQia5t1reW898CZLsJxHFf0dy+oyCGEIGvZB8JGmeeW9ezzuReHcFt
CBBpJQV5YaD2bcuLHVL0QZhp0j3ckf4VDXWk1RlH+ATA5sZ28pGiporwr9ST8X5tbhdKjN22LG5Z+5QEnkTPJs4ACn7Q+Qqju/Jqcczy00/OWFKLElRVOFE4JwJV56g7LTPC4g7FBRV9hBFzDesyASVAyntCxFY2y9Cpsu
wF5ZMXTsttrsZcFHNXR4rR2xh048qLZBncYJUSr8zwHK52FsG9mfK+WJPQ6jqS0t6/kj67A0smaaZoVcZ14hSX0j1nIQCFaEp1q7/p85VxyvaLh0BWX0drlcHXrVHVnyuRo+vk8NZHBWyzUNP2H9W9+pwewFxdwSab97m6
1zHYC1GL0G0Lw83Pd0M+gRbbhuSo+eVTRMjP8V005Md9c= root@ip-172-31-2-28
root@ip-172-31-2-28:~/ssh# ansible -m ping all
The authenticity of host '172.31.2.226 (172.31.2.226)' can't be established.
ED25519 key fingerprint is SHA256:PULci7RY3xSKSY7qm+3add5OSH0zMp3G1l+hLO6Wgvs.
This host key is known by the following other names/addresses:
  ~/.ssh/known_hosts:1: [hashed name]
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
[WARNING]: Platform linux on host 172.31.2.226 is using the discovered Python interpreter at /usr/bin/python3.12, but future installation of another Python interpreter
could change the meaning of that path. See https://docs.ansible.com/ansible-core/2.18/reference_appendices/interpreter_discovery.html for more information.
172.31.2.226 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3.12"
  },
  "changed": false,
  "ping": "pong"
}

```

```

root@ip-172-31-2-28:~/ssh# ansible client_1 -m setup
[WARNING]: Platform linux on host 172.31.2.226 is using the discovered Python interpreter at /usr/bin/python3.12, but future installation of another Python interpreter
could change the meaning of that path. See https://docs.ansible.com/ansible-core/2.18/reference_appendices/interpreter_discovery.html for more information.
172.31.2.226 | SUCCESS => {
  "ansible_facts": {
    "ansible_all_ipv4_addresses": [
      "172.31.2.226"
    ],
    "ansible_all_ipv6_addresses": [
      "fe80::8d0:beff:feb8:c39"
    ],
    "ansible_apparmor": {
      "status": "enabled"
    },
    "ansible_architecture": "x86_64",
    "ansible_bios_date": "10/16/2017",
    "ansible_bios_vendor": "Amazon EC2",
    "ansible_bios_version": "1.0",
    "ansible_board_asset_tag": "L-05ff16df438a4f002",
    "ansible_board_name": "NA",
    "ansible_board_serial": "NA",
    "ansible_board_vendor": "Amazon EC2",
    "ansible_board_version": "NA",
    "ansible_chassis_asset_tag": "Amazon EC2",
    "ansible_chassis_serial": "NA",
    "ansible_chassis_vendor": "Amazon EC2",
    "ansible_chassis_version": "NA",
    "ansible_cmdline": {
      "BOOT_IMAGE": "/vmlinuz-6.14.0-1011-aws",
      "console": "tty0",
      "nvmf_core_timeout": "4294967295",
      "panic": "-1",
      "ro": true,
      "root": "PARTUUID=d8b02072-b013-48de-b7a8-331276413234"
    },
    "ansible_date_time": {
      "date": "2025-10-03",
      "day": "03",
      "epoch": "1759462227",

```

```

root@ip-172-31-2-28:~/ssh# ansible client_1 -m apt -a "name=git state=present" --become
[WARNING]: Platform linux on host 172.31.2.226 is using the discovered Python interpreter at /usr/bin/python3.12, but future installation of another Python interpreter
could change the meaning of that path. See https://docs.ansible.com/ansible-core/2.18/reference_appendices/interpreter_discovery.html for more information.
172.31.2.226 | CHANGED => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3.12"
  },
  "cache_update_time": 1759461529,
  "cache_updated": false,
  "changed": true,
  "stderr": "",
  "stderr_lines": [],
  "stdout": "Reading package lists...
Building dependency tree...
Reading state information...
Suggested packages:
  git-daemon-run | git-daemon-sysvinit git-doc
git-email git-gui gitk gitweb\n
git-cvs git-mediawiki git-svn\n
The following NEW packages will be installed:
  git\n
0 upgraded, 1 newly installed, 0 to remove and 41
not upgraded.\n
Need to get 3680 kB of archives.\n
After this operation, 22.2 MB of additional disk space will be used.\n
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 git amd64 1:2.43.0-1ubuntu7.3 [3680 kB]\n
Fetched 3680 kB in 0s (50.1 MB/s)\n
Selecting previously unselected package git.\n
(Reading database ... 5%\r
(Reading database ... 10%\r
(Reading database ... 15%\r
(Reading database ... 20%\r
(Reading database ... 25%\r
(Reading database ... 30%\r
(Reading database ... 35%\r
(Reading database ... 40%\r
(Reading database ... 45%\r
(Reading database ... 50%\r
(Reading database ... 55%\r
(Reading database ... 60%\r
(Reading database ... 65%\r
(Reading database ... 70%\r
(Reading database ... 75%\r
(Reading database ... 80%\r
(Reading database ... 85%\r
(Reading database ... 90%\r
(Reading database ... 95%\r
(Reading database ... 100%\r
(Reading database ... 70840 files and directories currently installed.)\n
Preparing to unpack .../git_1%3a2.43.0-1ubuntu7.3_amd64.deb ...
Unpacking git (1:2.43.0-1ubuntu7.3) ...
Setting up git (1:2.43.0-1ubuntu7.3) ...
\n
Running kernel seems to be up-to-date.\n
\n
No services need to be restarted.\n
\n
No containers need to be restarted.\n
\n
No user sessions are running outdated binaries.\n
\n
No VM guests are running outdated hypervisor (qemu) binaries on this host.\n",
  "stdout_lines": [
    "Reading package lists...",
    "Building dependency tree...",
    "Reading state information...",
    "Suggested packages:",
    " git-daemon-run | git-daemon-sysvinit git-doc git-email git-gui gitk gitweb",
    " git-cvs git-mediawiki git-svn",
    "The following NEW packages will be installed:",
    " git",
    "0 upgraded, 1 newly installed, 0 to remove and 41 not upgraded.",
    "Need to get 3680 kB of archives.",

```



```

root@ip-172-31-2-28:~/.ssh# nano test.txt
root@ip-172-31-2-28:~/.ssh# ansible client_1 -m apt -a "name=nano state=absent" --become
[WARNING]: Platform linux on host 172.31.2.226 is using the discovered Python interpreter at /usr/bin/python3.12, but future installation of another Python interpreter
could change the meaning of that path. See https://docs.ansible.com/ansible-core/2.18/reference_appendices/interpreter_discovery.html for more information.
172.31.2.226 | CHANGED => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3.12"
  },
  "changed": true,
  "stderr": "",
  "stderr_lines": [],
  "stdout": "Reading package lists...\nBuilding dependency tree...\nReading state information...\nThe following packages will be REMOVED:\n nano\n0 upgraded, 0 newly
installed, 1 to remove and 41 not upgraded.\nAfter this operation, 856 kB disk space will be freed.\n(Reading database ... \r(Reading database ... 5%\r(Reading databas
e ... 10%\r(Reading database ... 15%\r(Reading database ... 20%\r(Reading database ... 25%\r(Reading database ... 30%\r(Reading database ... 35%\r(Reading database ...
40%\r(Reading database ... 45%\r(Reading database ... 50%\r(Reading database ... 55%\r(Reading database ... 60%\r(Reading database ... 65%\r(Reading database ... 70%\r(
Reading database ... 75%\r(Reading database ... 80%\r(Reading database ... 85%\r(Reading database ... 90%\r(Reading database ... 95%\r(Reading database ... 100%\r(Readi
ng database ... 71713 files and directories currently installed.)\r\nRemoving nano (7.2-2ubuntu0.1) ...\r\nupdate-alternatives: using /usr/bin/vim.basic to provide /usr
/bin/editor (editor) in auto mode\r\nProcessing triggers for install-info (7.1-3build2) ...\r\nProcessing triggers for man-db (2.12.0-4build2) ... \r\n",
  "stdout_lines": [
    "Reading package lists...",
    "Building dependency tree...",
    "Reading state information...",
    "The following packages will be REMOVED:",
    " nano",
    "0 upgraded, 0 newly installed, 1 to remove and 41 not upgraded.",
    "After this operation, 856 kB disk space will be freed.",
    "(Reading database ... ",
    "(Reading database ... 5%",
    "(Reading database ... 10%",
    "(Reading database ... 15%",
    "(Reading database ... 20%",
    "(Reading database ... 25%",
    "(Reading database ... 30%",
    "(Reading database ... 35%",
    "(Reading database ... 40%",
    "(Reading database ... 45%",
    "(Reading database ... 50%",
    "(Reading database ... 55%",
    "(Reading database ... 60%",
  ]
}

```

```

root@ip-172-31-2-28:~/.ssh# ansible client_1 -m apt -a "name=nano state=present" --become
[WARNING]: Platform linux on host 172.31.2.226 is using the discovered Python interpreter at /usr/bin/python3.12, but future installation of another Python interpreter
could change the meaning of that path. See https://docs.ansible.com/ansible-core/2.18/reference_appendices/interpreter_discovery.html for more information.
172.31.2.226 | CHANGED => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3.12"
  },
  "cache_update_time": 1759461529,
  "cache_updated": false,
  "changed": true,
  "stderr": "",
  "stderr_lines": [],
  "stdout": "Reading package lists...\nBuilding dependency tree...\nReading state information...\nSuggested packages:\n hunspell\nThe following NEW packages will be
installed:\n nano\n0 upgraded, 1 newly installed, 0 to remove and 41 not upgraded.\nNeed to get 282 kB of archives.\nAfter this operation, 856 kB of additional disk sp
ace will be used.\nGet:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 nano amd64 7.2-2ubuntu0.1 [282 kB]\nFetched 282 kB in 0s (18.3 MB/s)\n
Selecting previously unselected package nano.\r\n(Reading database ... \r(Reading database ... 5%\r(Reading database ... 10%\r(Reading database ... 15%\r(Reading databa
se ... 20%\r(Reading database ... 25%\r(Reading database ... 30%\r(Reading database ... 35%\r(Reading database ... 40%\r(Reading database ... 45%\r(Reading database ...
50%\r(Reading database ... 55%\r(Reading database ... 60%\r(Reading database ... 65%\r(Reading database ... 70%\r(Reading database ... 75%\r(Reading database ... 80%\r
(Reading database ... 85%\r(Reading database ... 90%\r(Reading database ... 95%\r(Reading database ... 100%\r(Reading database ... 71643 files and directories currently
installed.)\r\nPreparing to unpack .../nano.7.2-2ubuntu0.1 amd64.deb ...\r\nUnpacking nano (7.2-2ubuntu0.1) ...\r\nSetting up nano (7.2-2ubuntu0.1) ...\r\nupdate-alter
natives: using /bin/nano to provide /usr/bin/editor (editor) in auto mode\r\nupdate-alternatives: using /bin/nano to provide /usr/bin/pico (pico) in auto mode\r\nProces
sing triggers for man-db (2.12.0-4build2) ...\r\nProcessing triggers for install-info (7.1-3build2) ...\r\n\r\nRunning kernel seems to be up-to-date.\n\nNo services need
to be restarted.\n\nNo containers need to be restarted.\n\nNo user sessions are running outdated binaries.\n\nNo VM guests are running outdated hypervisor (qemu) binari
es on this host.\n",
  "stdout_lines": [
    "Reading package lists...",
    "Building dependency tree...",
    "Reading state information...",
    "Suggested packages:",
    " hunspell",
    "The following NEW packages will be installed:",
    " nano",
    "0 upgraded, 1 newly installed, 0 to remove and 41 not upgraded.",
    "Need to get 282 kB of archives.",
    "After this operation, 856 kB of additional disk space will be used.",
    "Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 nano amd64 7.2-2ubuntu0.1 [282 kB]",
    "Fetched 282 kB in 0s (18.3 MB/s)",
    "Selecting previously unselected package nano.",
    "(Reading database ... ",
    "(Reading database ... 5%",
    "(Reading database ... 10%",
  ]
}

```

```

apsit@ansible_pritesh $ ls
pritesh_ansible.pem
apsit@ansible_pritesh $ sudo ssh -i "pritesh_ansible.pem" ubuntu@ec2-13-201-20-65.ap-south-1.compute.amazonaws.com
[sudo] password for apstt:
The authenticity of host 'ec2-13-201-20-65.ap-south-1.compute.amazonaws.com (13.201.20.65)' can't be established.
ECDSA key fingerprint is SHA256:WMF80A7e2egYZSR8YBAo5NuelPHIRVu0eywD13vL/1.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'ec2-13-201-20-65.ap-south-1.compute.amazonaws.com,13.201.20.65' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 24.04.3 LTS (GNU/Linux 6.14.0-1011-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/pro

System information as of Fri Oct 3 03:07:20 UTC 2025

System load:  0.0           Temperature:   -273.1 C
Usage of /:   25.6% of 6.71GB Processes:      109
Memory usage: 23%          Users logged in: 0
Swap usage:   0%           IPv4 address for ens5: 172.31.2.226

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/*copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-2-226:~$ sudo su

```

```

Get:50 http://security.ubuntu.com/ubuntu noble-security/restricted Translation-en [439 kB]
Get:51 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]
Get:52 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 c-n-f Metadata [520 B]
Get:53 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [28.0 kB]
Get:54 http://security.ubuntu.com/ubuntu noble-security/multiverse Translation-en [5844 B]
Get:55 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [212 B]
Get:56 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [384 B]
Fetched 37.0 MB in 6s (6539 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
41 packages can be upgraded. Run 'apt list --upgradable' to see them.
root@ip-172-31-2-226:/home/ubuntu# cd /root/.ssh/
root@ip-172-31-2-226:~/ssh# ls
authorized_keys
root@ip-172-31-2-226:~/ssh# nano authorized_keys
root@ip-172-31-2-226:~/ssh# nano /etc/ssh/sshd_config
root@ip-172-31-2-226:~/ssh# git --version
git version 2.43.0
root@ip-172-31-2-226:~/ssh# apt remove git
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
  git-man liberror-perl
Use 'sudo apt autoremove' to remove them.
The following packages will be REMOVED:
  git ubuntu-server
0 upgraded, 0 newly installed, 2 to remove and 41 not upgraded.
After this operation, 22.2 MB disk space will be freed.
Do you want to continue? [Y/n] y
(Reading database ... 71716 files and directories currently installed.)
Removing ubuntu-server (1:539.2) ...
Removing git (1:2.43.0-1ubuntu7.3) ...
root@ip-172-31-2-226:~/ssh# git --version
bash: /usr/bin/git: No such file or directory
root@ip-172-31-2-226:~/ssh# git --version
git version 2.43.0
root@ip-172-31-2-226:~/ssh# nano test.txt
root@ip-172-31-2-226:~/ssh# nano test.txt
bash: /usr/bin/nano: No such file or directory
root@ip-172-31-2-226:~/ssh# nano test.txt
root@ip-172-31-2-226:~/ssh# █

```

Conclusion: In the experiment, we successfully installed Ansible on top of AWS Instance. Also, configured SSH access to Ansible slave and setup ansible host and tested connection.