LAB-3

```
PS C:\Mydocs\George Brown College\Sem - 2\DEVOPS\Lab-3\BCDV-4033\ansible\lab> docker compose up -d
time="2024-06-17T18:39:47-04:00" level=warning msg="C:\\Mydocs\\George Brown College\\Sem - 2\\DEVOPS\\Lab-3\\BCDV-4033\\ansible\\lab\\docker-compose.yml: `version` is obsolete"
[+] Running 3/0
 ✓ Container ansible  Running                                                                                             0.0s
 ✓ Container node2    Running                                                                                             0.0s
 ✓ Container node1    Running                                                                                             0.0s
PS C:\Mydocs\George Brown College\Sem - 2\DEVOPS\Lab-3\BCDV-4033\ansible\lab> docker ps
CONTAINER ID   IMAGE     COMMAND             CREATED         STATUS         PORTS     NAMES
e2e1b46820f0   node2     "/usr/sbin/sshd -D"  21 minutes ago  Up 21 minutes  22/tcp    node2
20cb2ee42625   node1     "/usr/sbin/sshd -D"  21 minutes ago  Up 21 minutes  22/tcp    node1
d63bc3bddaa5   ansible   "/bin/bash"          21 minutes ago  Up 21 minutes            ansible
PS C:\Mydocs\George Brown College\Sem - 2\DEVOPS\Lab-3\BCDV-4033\ansible\lab> docker exec -it d63bc3bddaa5  bash
root@d63bc3bddaa5:/# ansible --version
ansible [core 2.16.3]
  config file = None
  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, Apr 10 2024, 05:33:47) [GCC 13.2.0] (/usr/bin/python3)
  jinja version = 3.1.2
  libyaml = True
root@d63bc3bddaa5:/# ^[[200~ssh root@node1
bash: $'\E[200~ssh': command not found
root@d63bc3bddaa5:/# ssh root@node1
Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.15.146.1-microsoft-standard-WSL2 x86_64)

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

This system has been minimized by removing packages and content that are
not required on a system that users do not log into.

To restore this content, you can run the 'unminimize' command.
Last login: Mon Jun 17 22:21:03 2024 from 172.18.0.2
root@20cb2ee42625:~# exit
logout
Connection to node1 closed.
root@d63bc3bddaa5:/# ssh root@node2
Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.15.146.1-microsoft-standard-WSL2 x86_64)

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

```
bash: $'\E[200~ssh': command not found
root@d63bc3bddaa5:/# ssh root@node1
Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.15.146.1-microsoft-standard-WSL2 x86_64)

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Last login: Mon Jun 17 22:21:03 2024 from 172.18.0.2
root@20cb2ee42625:~# exit
logout
Connection to node1 closed.
root@d63bc3bddaa5:/# ssh root@node2
Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.15.146.1-microsoft-standard-WSL2 x86_64)

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 * Support:        https://ubuntu.com/pro

This system has been minimized by removing packages and content that are
not required on a system that users do not log into.

To restore this content, you can run the 'unminimize' command.
Last login: Mon Jun 17 22:22:10 2024 from 172.18.0.2
root@e2e1b46820f0:~# exit
logout
Connection to node2 closed.
root@d63bc3bddaa5:/#
```

```
logout
Connection to node2 closed.
root@d63bc3bddaa5:/# ansible all -m ping
[WARNING]: No inventory was parsed, only implicit localhost is available
[WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit localhost does not match 'all'
root@d63bc3bddaa5:/# ssh-keygen -t rsa -b 2048
Generating public/private rsa key pair.
Enter file in which to save the key (/root/.ssh/id_rsa): /root/.ssh/id_rsa
/root/.ssh/id_rsa already exists.
Overwrite (y/n)? y
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:OC5obvfGtNl35YOLGIYQwbiQaEMALde5e2tH0DFirEQ root@d63bc3bddaa5
The key's randomart image is:
+---[RSA 2048]----+
|B+ =Eo           |
|=o+ =.+ o        |
|.+.o.+ o o       |
|  . o....        |
|    ..o.S         |
|    ..ooo.    .   |
|  o .+o*o    +    |
| o. ..B.oo..o o   |
| ... +........ .  |
+----[SHA256]-----+
root@d63bc3bddaa5:/#
```

```
| ... +........ . |
+----[SHA256]-----+
root@d63bc3bddaa5:/# ssh-copy-id root@node1
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/root/.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
root@node1's password:

Number of key(s) added: 1

Now try logging into the machine, with:   "ssh 'root@node1'"
and check to make sure that only the key(s) you wanted were added.

root@d63bc3bddaa5:/# ssh-copy-id root@node2
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/root/.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
root@node2's password:

Number of key(s) added: 1

Now try logging into the machine, with:   "ssh 'root@node2'"
and check to make sure that only the key(s) you wanted were added.

root@d63bc3bddaa5:/#
```

```
    Number of key(s) added: 1

    Now try logging into the machine, with:   "ssh 'root@node2'"
    and check to make sure that only the key(s) you wanted were added.

    root@d63bc3bddaa5:/# vim inventory.txt
    root@d63bc3bddaa5:/# ansible-inventory -i inventory.txt --list
    {
        "_meta": {
            "hostvars": {
                "host1": {
                    "ansible_host": "node1",
                    "ansible_user": "root"
                },
                "host2": {
                    "ansible_host": "node2",
                    "ansible_user": "root"
                }
            }
        },
        "all": {
            "children": [
                "ungrouped",
                "group1"
            ]
        },
        "group1": {
            "hosts": [
                "host1",
                "host2"
            ]
        }
    }
    root@d63bc3bddaa5:/#
```

```
        "unreachable": true
}
root@d63bc3bddaa5:/# ansible all -i inventory.txt -m ping
Enter passphrase for key '/root/.ssh/id_rsa': host1 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
    },
    "changed": false,
    "ping": "pong"
}

Enter passphrase for key '/root/.ssh/id_rsa':
host2 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
    },
    "changed": false,
    "ping": "pong"
}
root@d63bc3bddaa5:/#
```

```
root@d63bc3bddaa5:/# ansible -i inventory.txt host1 -m shell -a "free -m"
Enter passphrase for key '/root/.ssh/id_rsa':
Enter passphrase for key '/root/.ssh/id_rsa':
host1 | CHANGED | rc=0 >>
              total        used        free      shared  buff/cache   available
Mem:          15846        1231       12799           6        1815       14324
Swap:          4096           0        4096
root@d63bc3bddaa5:/# ansible all -i inventory.txt -m shell -a "df -h"
Enter passphrase for key '/root/.ssh/id_rsa': Enter passphrase for key '/root/.ssh/id_rsa':
host1 | CHANGED | rc=0 >>
Filesystem      Size  Used Avail Use% Mounted on
overlay        1007G  6.1G  950G   1% /
tmpfs            64M     0   64M   0% /dev
tmpfs           7.8G     0  7.8G   0% /sys/fs/cgroup
shm              64M     0   64M   0% /dev/shm
/dev/sde       1007G  6.1G  950G   1% /etc/hosts
tmpfs           7.8G     0  7.8G   0% /proc/acpi
tmpfs           7.8G     0  7.8G   0% /sys/firmware


Enter passphrase for key '/root/.ssh/id_rsa':
host2 | CHANGED | rc=0 >>
Filesystem      Size  Used Avail Use% Mounted on
overlay        1007G  6.1G  950G   1% /
tmpfs            64M     0   64M   0% /dev
tmpfs           7.8G     0  7.8G   0% /sys/fs/cgroup
shm              64M     0   64M   0% /dev/shm
/dev/sde       1007G  6.1G  950G   1% /etc/hosts
tmpfs           7.8G     0  7.8G   0% /proc/acpi
tmpfs           7.8G     0  7.8G   0% /sys/firmware
root@d63bc3bddaa5:/#
```

```
root@d63bc3bddaa5:/# ansible host2 -i inventory.txt -m apt -a "name=curl state=present" -b
Enter passphrase for key '/root/.ssh/id_rsa':
Enter passphrase for key '/root/.ssh/id_rsa':
Enter passphrase for key '/root/.ssh/id_rsa':
host2 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
    },
    "cache_update_time": 1718667286,
    "cache_updated": false,
    "changed": false
}
root@d63bc3bddaa5:/# ansible host1 -i inventory.txt -m apt -a "name=cron state=present" -b
Enter passphrase for key '/root/.ssh/id_rsa':
host1 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
    },
    "cache_update_time": 1718667544,
    "cache_updated": false,
    "changed": false
}
root@d63bc3bddaa5:/#
```

```
tmpfs           7.8G     0  7.8G   0% /sys/firmware
root@d63bc3bddaa5:/# ansible host2 -i inventory.txt -m apt -a "name=curl state=present" -b
host2 | CHANGED => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
    },
    "cache_update_time": 1718667286,
    "cache_updated": false,
    "changed": true,
    "stderr": "debconf: delaying package configuration, since apt-utils is not installed\n",
    "stderr_lines": [
        "debconf: delaying package configuration, since apt-utils is not installed"
    ],
    "stdout": "Reading package lists...\nBuilding dependency tree...\nReading state information...\nThe fo
llowing additional packages will be installed:\n  libasn1-8-heimdal libbrotli1 libcurl4 libgssapi3-heimdal
 libhcrypto4-heimdal\n  libheimbase1-heimdal libheimntlm0-heimdal libhx509-5-heimdal\n  libkrb5-26-heimdal
 libldap-2.4-2 libldap-common libnghttp2-14\n  libroken18-heimdal librtmp1 libsasl2-2 libsasl2-modules lib
sasl2-modules-db\n  libssh-4 libwind0-heimdal\nSuggested packages:\n  libsasl2-modules-gssapi-mit | libsas
l2-modules-gssapi-heimdal\n  libsasl2-modules-ldap libsasl2-modules-otp libsasl2-modules-sql\nThe followin
g NEW packages will be installed:\n  curl libasn1-8-heimdal libbrotli1 libcurl4 libgssapi3-heimdal\n  libh
crypto4-heimdal libheimbase1-heimdal libheimntlm0-heimdal\n  libhx509-5-heimdal libkrb5-26-heimdal libldap
-2.4-2 libldap-common\n  libnghttp2-14 libroken18-heimdal librtmp1 libsasl2-2 libsasl2-modules\n  libsasl2
-modules-db libssh-4 libwind0-heimdal\n0 upgraded, 20 newly installed, 0 to remove and 0 not upgraded.\nNe
ed to get 2068 kB of archives.\nAfter this operation, 6921 kB of additional disk space will be used.\nGet:
1 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 libbrotli1 amd64 1.0.7-6ubuntu0.1 [267 kB]\nGe
t:2 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 libroken18-heimdal amd64 7.7.0+dfsg-1ubuntu1
.4 [42.5 kB]\nGet:3 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 libasn1-8-heimdal amd64 7.7.
0+dfsg-1ubuntu1.4 [181 kB]\nGet:4 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 libheimbase1-h
eimdal amd64 7.7.0+dfsg-1ubuntu1.4 [30.4 kB]\nGet:5 http://archive.ubuntu.com/ubuntu focal-updates/main am
```

```
root@d63bc3bddaa5:/# ansible host1 -i inventory.txt -m apt -a "name=cron state=present" -b
host1 | CHANGED => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
    },
    "cache_update_time": 1718667544,
    "cache_updated": false,
    "changed": true,
    "stderr": "debconf: delaying package configuration, since apt-utils is not installed\n",
    "stderr_lines": [
        "debconf: delaying package configuration, since apt-utils is not installed"
    ],
    "stdout": "Reading package lists...\nBuilding dependency tree...\nReading state information...\nSugg
ted packages:\n  anacron logrotate checksecurity default-mta | mail-transport-agent\nThe following NEW p
kages will be installed:\n  cron\n0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.\nNeed t
get 71.5 kB of archives.\nAfter this operation, 268 kB of additional disk space will be used.\nGet:1 htt
//archive.ubuntu.com/ubuntu focal/main amd64 cron amd64 3.0pl1-136ubuntu1 [71.5 kB]\nFetched 71.5 kB in
 (148 kB/s)\nSelecting previously unselected package cron.\r\n(Reading database ... \r(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 databa
... 45%\r(Reading database ... 50%\r(Reading database ... 55%\r(Reading database ... 60%\r(Reading data
se ... 65%\r(Reading database ... 70%\r(Reading database ... 75%\r(Reading database ... 80%\r(Reading da
base ... 85%\r(Reading database ... 90%\r(Reading database ... 95%\r(Reading database ... 100%\r(Reading
atabase ... 12204 files and directories currently installed.)\r\nPreparing to unpack .../cron_3.0pl1-136
untu1_amd64.deb ...\r\nUnpacking cron (3.0pl1-136ubuntu1) ...\r\nSetting up cron (3.0pl1-136ubuntu1) ...
\nAdding group `crontab' (GID 107) ...\r\nDone.\r\ninvoke-rc.d: could not determine current runlevel\r\r
voke-rc.d: policy-rc.d denied execution of start.\r\nCreated symlink /etc/systemd/system/multi-user.targ
.wants/cron.service → /lib/systemd/system/cron.service.\r\nProcessing triggers for systemd (245.4-4ubunt
.23) ...\r\n",
    "stdout_lines": [
        "Reading package lists...",
        "Building dependency tree...",
        "Reading state information...",
        "Suggested packages:",
        "  anacron logrotate checksecurity default-mta | mail-transport-agent",
        "The following NEW packages will be installed:",
        "  cron",
        "0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.",
        "Need to get 71.5 kB of archives.",
        "After this operation, 268 kB of additional disk space will be used.",
        "Get:1 http://archive.ubuntu.com/ubuntu focal/main amd64 cron amd64 3.0pl1-136ubuntu1 [71.5 kB]"
        "Fetched 71.5 kB in 0s (148 kB/s)",
        "Selecting previously unselected package cron."
root@d63bc3bddaa5:/# ansible all -i hosts.txt -m ping
```

```
host1 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
    },
    "changed": false,
    "ping": "pong"
}
host2 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
    },
    "changed": false,
    "ping": "pong"
}
```

```
root@d63bc3bddaa5:/# ansible all -m ping
Enter passphrase for key '/root/.ssh/id_rsa':
host1 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
    },
    "changed": false,
    "ping": "pong"
}
```

```
                "container"
            ],
            "ansible_virtualization_tech_host": [],
            "ansible_virtualization_type": "docker",
            "discovered_interpreter_python": "/usr/bin/python3",
            "gather_subset": [
                "all"
            ],
            "module_setup": true
        },
        "changed": false
    }

    Enter passphrase for key '/root/.ssh/id_rsa':
    host2 | SUCCESS => {
        "ansible_facts": {
            "ansible_apparmor": {
                "status": "disabled"
            },
            "ansible_architecture": "x86_64",
            "ansible_bios_date": "NA",
            "ansible_bios_vendor": "NA",
            "ansible_bios_version": "NA",
            "ansible_board_asset_tag": "NA",
            "ansible_board_name": "NA",
            "ansible_board_serial": "NA",
            "ansible_board_vendor": "NA",
            "ansible_board_version": "NA",
            "ansible_chassis_asset_tag": "NA",
            "ansible_chassis_serial": "NA",
            "ansible_chassis_vendor": "NA",
            "ansible_chassis_version": "NA",
            "ansible_cmdline": {
                "WSL_ROOT_INIT": "1",
                "console": "hvc0",
                "debug": true,
                "hv_utils.timesync_implicit": "1",
                "initrd": "\\initrd.img",
                "nr_cpus": "20",
                "panic": "-1",
                "pty.legacy_count": "0"
            },
            "ansible_date_time": {
                "date": "2024-06-18",
                "day": "18",
                "epoch": "1718669098",
                "epoch_int": "1718669098",
```

```
root@d63bc3bddaa5:/# ansible all -a uptime
Enter passphrase for key '/root/.ssh/id_rsa': host2 | CHANGED | rc=0 >>
 00:05:57 up  2:22,  1 user,  load average: 0.16, 0.11, 0.09

Enter passphrase for key '/root/.ssh/id_rsa':
host1 | CHANGED | rc=0 >>
 00:06:09 up  2:22,  1 user,  load average: 0.13, 0.10, 0.09
root@d63bc3bddaa5:/#
```

```
 00:06:09 up  2:22,  1 user,  load average: 0.13, 0.10, 0.09
root@d63bc3bddaa5:/# ansible all -m file -a "path=~/tmp-file state=touch"
host1 | CHANGED => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
    },
    "changed": true,
    "dest": "/root/tmp-file",
    "gid": 0,
    "group": "root",
    "mode": "0644",
    "owner": "root",
    "size": 0,
    "state": "file",
    "uid": 0
}
host2 | CHANGED => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
    },
    "changed": true,
    "dest": "/root/tmp-file",
    "gid": 0,
    "group": "root",
    "mode": "0644",
    "owner": "root",
    "size": 0,
    "state": "file",
    "uid": 0
}
root@d63bc3bddaa5:/#
```

```
}
root@d63bc3bddaa5:/# ansible all -m file -a "path=~/tmp-file state=absent"
host1 | CHANGED => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
    },
    "changed": true,
    "path": "/root/tmp-file",
    "state": "absent"
}
host2 | CHANGED => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
    },
    "changed": true,
    "path": "/root/tmp-file",
    "state": "absent"
}
root@d63bc3bddaa5:/#
```

```
root@d63bc3bddaa5:/# ansible all -m file -a "path=~/ansible_dir state=directory"
host1 | CHANGED => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
    },
    "changed": true,
    "gid": 0,
    "group": "root",
    "mode": "0755",
    "owner": "root",
    "path": "/root/ansible_dir",
    "size": 4096,
    "state": "directory",
    "uid": 0
}
host2 | CHANGED => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
    },
    "changed": true,
    "gid": 0,
    "group": "root",
    "mode": "0755",
    "owner": "root",
    "path": "/root/ansible_dir",
    "size": 4096,
    "state": "directory",
    "uid": 0
}
root@d63bc3bddaa5:/#
```

```
root@d63bc3bddaa5:/# cat > create-file.yml




---
- name: Create a file on both nodes
  hosts: all
  tasks:
    - name: Create a file
      file:
        path: /root/ansible_file
        state: touch
```

```
root@d63bc3bddaa5:/# ansible-playbook create-file.yml

PLAY [Create a file on both nodes] *****************************************************

TASK [Gathering Facts] ****************************************************************
Enter passphrase for key '/root/.ssh/id_rsa':
ok: [host1]


fatal: [host2]: UNREACHABLE! => {"changed": false, "msg": "Failed to connect to the host via ssh: root@nod
e2: Permission denied (publickey,password).", "unreachable": true}

TASK [Create a file] ******************************************************************
changed: [host1]

PLAY RECAP ***************************************************************************
host1                      : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    i
gnored=0
host2                      : ok=0    changed=0    unreachable=1    failed=0    skipped=0    rescued=0    i
gnored=0

root@d63bc3bddaa5:/#
```

```
root@d63bc3bddaa5:/# ansible-playbook delete-file.yml

PLAY [Delete the file on both nodes] ***************************************************

TASK [Gathering Facts] ****************************************************************
Enter passphrase for key '/root/.ssh/id_rsa':
ok: [host1]


fatal: [host2]: UNREACHABLE! => {"changed": false, "msg": "Failed to connect to the host via ssh: root@nod
e2: Permission denied (publickey,password).", "unreachable": true}

TASK [Delete the file] ****************************************************************
changed: [host1]

PLAY RECAP ***************************************************************************
host1                      : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    i
gnored=0
host2                      : ok=0    changed=0    unreachable=1    failed=0    skipped=0    rescued=0    i
gnored=0

root@d63bc3bddaa5:/#
```

```
root@d63bc3bddaa5:/# vim inventory.txt
root@d63bc3bddaa5:/# cat > create-file-dev.yml
---
- name: Create a file on dev nodes
  hosts: dev
  tasks:
    - name: Create a file
      file:
        path: /root/dev_file
        state: touch
^C
root@d63bc3bddaa5:/# ansible-playbook create-file-dev.yml

PLAY [Create a file on dev nodes] **********************************************

TASK [Gathering Facts] *********************************************************
Enter passphrase for key '/root/.ssh/id_rsa':
ok: [host1]

TASK [Create a file] ***********************************************************
changed: [host1]

PLAY RECAP *********************************************************************
host1                      : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    i
gnored=0

root@d63bc3bddaa5:/#
```

```
root@d63bc3bddaa5:/# ansible-playbook nodejs.yml

PLAY [Install Node.js] *********************************************************

TASK [Gathering Facts] *********************************************************
Enter passphrase for key '/root/.ssh/id_rsa':
Enter passphrase for key '/root/.ssh/id_rsa':
ok: [host1]

fatal: [host2]: UNREACHABLE! => {"changed": false, "msg": "Failed to connect to the host via ssh: root@nod
e2: Permission denied (publickey,password).", "unreachable": true}

TASK [Install Node.js] *********************************************************



changed: [host1]

TASK [Install npm] *************************************************************
```

```
root@d63bc3bddaa5:/# ansible-galaxy init my_role
- Role my_role was created successfully
root@d63bc3bddaa5:/#
```

```
root@d63bc3bddaa5:/# ansible-galaxy install geerlingguy.postgresql
Starting galaxy role install process
- downloading role 'postgresql', owned by geerlingguy
- downloading role from https://github.com/geerlingguy/ansible-role-postgresql/archive/3.5.2.tar.gz
- extracting geerlingguy.postgresql to /root/.ansible/roles/geerlingguy.postgresql
- geerlingguy.postgresql (3.5.2) was installed successfully
root@d63bc3bddaa5:/#
```

```
root@d63bc3bddaa5:/# ansible-playbook postgres.yml

PLAY [all] ************************************************************************

TASK [Gathering Facts] ***********************************************************
Enter passphrase for key '/root/.ssh/id_rsa':
ok: [host2]


fatal: [host1]: UNREACHABLE! => {"changed": false, "msg": "Failed to connect to the host via ssh: root@node1: Permission denied (publickey,password).", "unreachable": true}

TASK [geerlingguy.postgresql : include_tasks] ************************************
included: /root/.ansible/roles/geerlingguy.postgresql/tasks/variables.yml for host2

TASK [geerlingguy.postgresql : Include OS-specific variables (Debian).] **********
ok: [host2]

TASK [geerlingguy.postgresql : Include OS-specific variables (RedHat).] **********
skipping: [host2]

TASK [geerlingguy.postgresql : Include OS-specific variables (Amazon).] **********
skipping: [host2]

TASK [geerlingguy.postgresql : Include OS-specific variables (Fedora).] **********skipping: [host2]

TASK [geerlingguy.postgresql : Define postgresql_packages.] **********************ok: [host2]

TASK [geerlingguy.postgresql : Define postgresql_version.] ***********************ok: [host2]

TASK [geerlingguy.postgresql : Define postgresql_daemon.] ************************ok: [host2]

TASK [geerlingguy.postgresql : Define postgresql_data_dir.] **********************ok: [host2]

TASK [geerlingguy.postgresql : Define postgresql_bin_path.] **********************ok: [host2]

TASK [geerlingguy.postgresql : Define postgresql_config_path.] *******************ok: [host2]

TASK [geerlingguy.postgresql : Define postgresql_unix_socket_directories_mode.] **ok: [host2]

TASK [geerlingguy.postgresql : Define postgresql_log_dir.] ***********************ok: [host2]

TASK [geerlingguy.postgresql : Define postgresql_effective_log_dir, if postgresql_log_dir is absolute] ***skipping: [host2]

TASK [geerlingguy.postgresql : Define postgresql_effective_log_dir, if postgresql_log_dir is relative] ***ok: [host2]

TASK [geerlingguy.postgresql : include_tasks] ***********************************skipping: [host2]
```

```
root@d63bc3bddaa5:/# ansible-playbook conditions.yml

PLAY [Conditional example] ******************************************************

TASK [Gathering Facts] **********************************************************
Enter passphrase for key '/root/.ssh/id_rsa': ok: [host2]

fatal: [host1]: UNREACHABLE! => {"changed": false, "msg": "Failed to connect to the host via ssh: root@node1: Permission denied (publickey,password).", "unreachable": true}

TASK [Install htop on CentOS] ***************************************************
skipping: [host2]


PLAY RECAP **********************************************************************
host1                      : ok=0    changed=0    unreachable=1    failed=0    skipped=0    rescued=0    ignored=0
host2                      : ok=1    changed=0    unreachable=0    failed=0    skipped=1    rescued=0    ignored=0

root@d63bc3bddaa5:/#
```

```
root@d63bc3bddaa5:/# ansible-vault create vault.yaml
New Vault password:
Confirm New Vault password:
root@d63bc3bddaa5:/# ansible-vault rekey vault.yaml
Vault password:
New Vault password:
Confirm New Vault password:
Rekey successful
root@d63bc3bddaa5:/#
```