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$ docker-compose up --build -d
WARN[0000] /Users/om/development/ansible-lab3/docker-compose.yml: 'version' is obsolete
[+] Building 0.1s (14/14) FINISHED                                docker:desktop-linux
=> [remote_node_1 internal] load build definition from Dockerfile      0.0s
=> => transferring dockerfile: 550B                                     0.0s
=> [remote_node_2 internal] load build definition from Dockerfile      0.0s
=> => transferring dockerfile: 550B                                     0.0s
=> [ansible_control internal] load metadata for docker.io/library/ubuntu:latest 0.0s
=> [remote_node_2 internal] load .dockerignore                         0.0s
=> => transferring context: 2B                                          0.0s
=> [remote_node_1 internal] load .dockerignore                         0.0s
=> => transferring context: 2B                                          0.0s
=> [ansible_control internal] load build definition from Dockerfile    0.0s
=> => transferring dockerfile: 237B                                     0.0s
=> [ansible_control 1/2] FROM docker.io/library/ubuntu:latest         0.0s
=> CACHED [remote_node_2 2/2] RUN apt-get update && apt-get install -y openssh-server sshpass && mkdir /var/run/ 0.0s
=> [remote_node_2] exporting to image                                  0.0s
=> => exporting layers                                                  0.0s
=> => writing image sha256:3915bb97cd35eb616dbbad19aa446c2d46e8a282347916035057c1c8c7ab6f23 0.0s
=> => naming to docker.io/library/ansible-lab3-remote_node_2         0.0s
=> [remote_node_1] exporting to image                                  0.0s
=> => exporting layers                                                  0.0s
=> => writing image sha256:562fd292168bd3e84d8cc4efcee51968a822ee072cda492038cfb05ebc44139c 0.0s
=> => naming to docker.io/library/ansible-lab3-remote_node_1         0.0s
=> [ansible_control internal] load .dockerignore                      0.0s
=> => transferring context: 2B                                          0.0s
=> CACHED [ansible_control 2/3] RUN apt-get update && apt-get install -y ansible sshpass openssh-client 0.0s
=> CACHED [ansible_control 3/3] RUN echo "root:docker" | chpasswd     0.0s
=> [ansible_control] exporting to image                                0.0s
=> => exporting layers                                                  0.0s
=> => writing image sha256:ce7f2aa9d0383dd67fc04a46a94aa5ad737793d700a890cfe8467e27854a0548 0.0s
=> => naming to docker.io/library/ansible-lab3-ansible_control        0.0s
[+] Running 3/0
✓ Container remote_node_2      Running      0.0s
✓ Container remote_node_1      Running      0.0s
✓ Container ansible_control    Running      0.0s
$ docker exec -it ansible_control /bin/bash

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root@a2b629d3d4be:/# ansible-playbook -i /ansible/hosts /ansible/ansible/create_file.yml

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

TASK [Gathering Facts] *****
ok: [remote_node_1]
ok: [remote_node_2]

TASK [Create an empty file] *****
changed: [remote_node_1]
changed: [remote_node_2]

PLAY RECAP *****
remote_node_1      : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
remote_node_2      : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

root@a2b629d3d4be:/# ssh root@remote_node_1
Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.6.26-linuxkit aarch64)

 * 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 23:38:25 2024 from 172.19.0.4
root@9e4b5ae8c34f:~# ls
root@9e4b5ae8c34f:~# ls
root@9e4b5ae8c34f:~# ls /tmp/testfile
/tmp/testfile

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root@a2b629d3d4be:/# ansible-playbook -i /ansible/hosts /ansible/ansible/delete_file.yml

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

TASK [Gathering Facts] *****
ok: [remote_node_2]
ok: [remote_node_1]

TASK [Delete the file] *****
changed: [remote_node_1]
changed: [remote_node_2]

PLAY RECAP *****
remote_node_1      : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
remote_node_2      : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

root@a2b629d3d4be:/# ssh root@remote_node_1
Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.6.26-linuxkit aarch64)

 * 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 23:48:49 2024 from 172.19.0.4
root@9e4b5ae8c34f:~# ls /tmp/testfile
ls: cannot access '/tmp/testfile': No such file or directory
root@9e4b5ae8c34f:~# exit
logout
Connection to remote_node_1 closed.

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root@a2b629d3d4be:/# ssh root@remote_node_2
Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.6.26-linuxkit aarch64)

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 * 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: Tue Jun 18 00:22:14 2024 from 172.19.0.4
root@42fff7086fa5:~# ls /tmp/testfile
ls: cannot access '/tmp/testfile': No such file or directory

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root@a2b629d3d4be:/# echo "[remote_nodes]
remote_node_1
remote_node_2

[test_group]
remote_node_1" >> /ansible/hosts
root@a2b629d3d4be:/# ansible-playbook -i /ansible/hosts /ansible/ansible/update_test_node.yml

PLAY [Update only the test node] *****

TASK [Gathering Facts] *****
ok: [remote_node_1]

TASK [Create a file on the test node] *****
changed: [remote_node_1]

PLAY RECAP *****
remote_node_1      : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

root@a2b629d3d4be:/# ssh root@remote_node_1
Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.6.26-linuxkit aarch64)

 * 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 23:50:05 2024 from 172.19.0.4
root@9e4b5ae8c34f:~# ls /tmp/testnodefile
/tmp/testnodefile
root@9e4b5ae8c34f:~# exit
logout

```

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root@a2b629d3d4be:/# ssh root@remote_node_2
Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.6.26-linuxkit aarch64)

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 * 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 23:48:49 2024 from 172.19.0.4
root@42fff7086fa5:~# ls /tmp/testnodefile
ls: cannot access '/tmp/testnodefile': No such file or directory
root@42fff7086fa5:~# exit
logout
Connection to remote_node_2 closed.

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```

root@a2b629d3d4be:/# ansible-playbook -i /ansible/hosts /ansible/ansible/install_nodejs.yml

PLAY [Install Node.js on remote nodes] *****

TASK [Gathering Facts] *****
ok: [remote_node_1]
ok: [remote_node_2]

TASK [Install Node.js] *****
changed: [remote_node_2]
changed: [remote_node_1]

TASK [Install npm] *****
changed: [remote_node_1]
changed: [remote_node_2]

PLAY RECAP *****
remote_node_1      : ok=3    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
remote_node_2      : ok=3    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

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root@9e4b5ae8c34f:~# npm -v
9.2.0

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```
root@a2b629d3d4be:/# ansible-playbook -i /ansible/hosts /ansible/ansible/clone_and_build.yml

PLAY [Clone Lab 1 repo and build node modules] *****

TASK [Gathering Facts] *****
ok: [remote_node_2]
ok: [remote_node_1]

TASK [Install git] *****
ok: [remote_node_2]
ok: [remote_node_1]

TASK [Clone Lab 1 repository] *****
ok: [remote_node_1]
ok: [remote_node_2]

TASK [Install node modules] *****
changed: [remote_node_1]
changed: [remote_node_2]

PLAY RECAP *****
remote_node_1      : ok=4    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
remote_node_2      : ok=4    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```