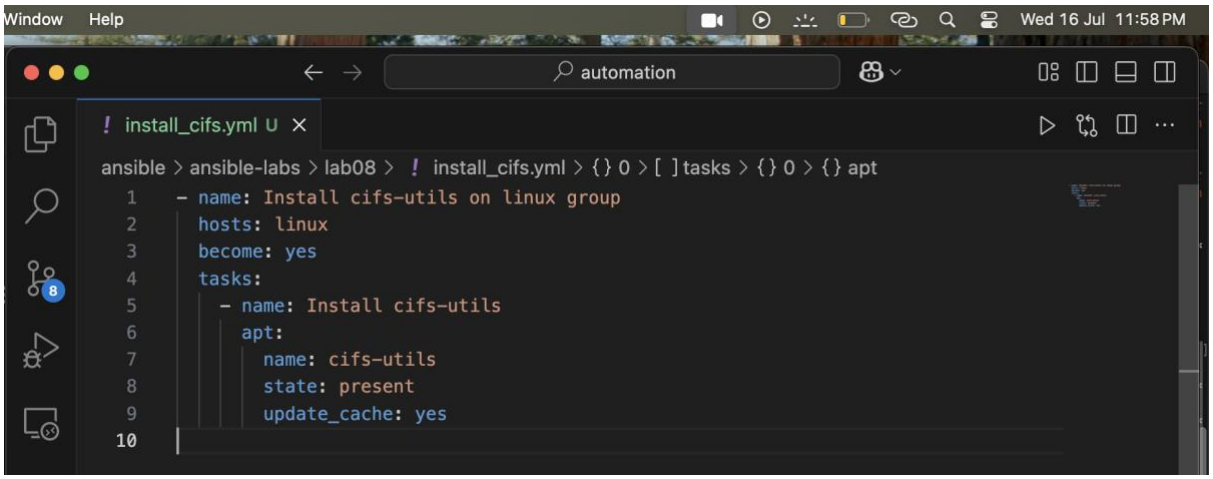
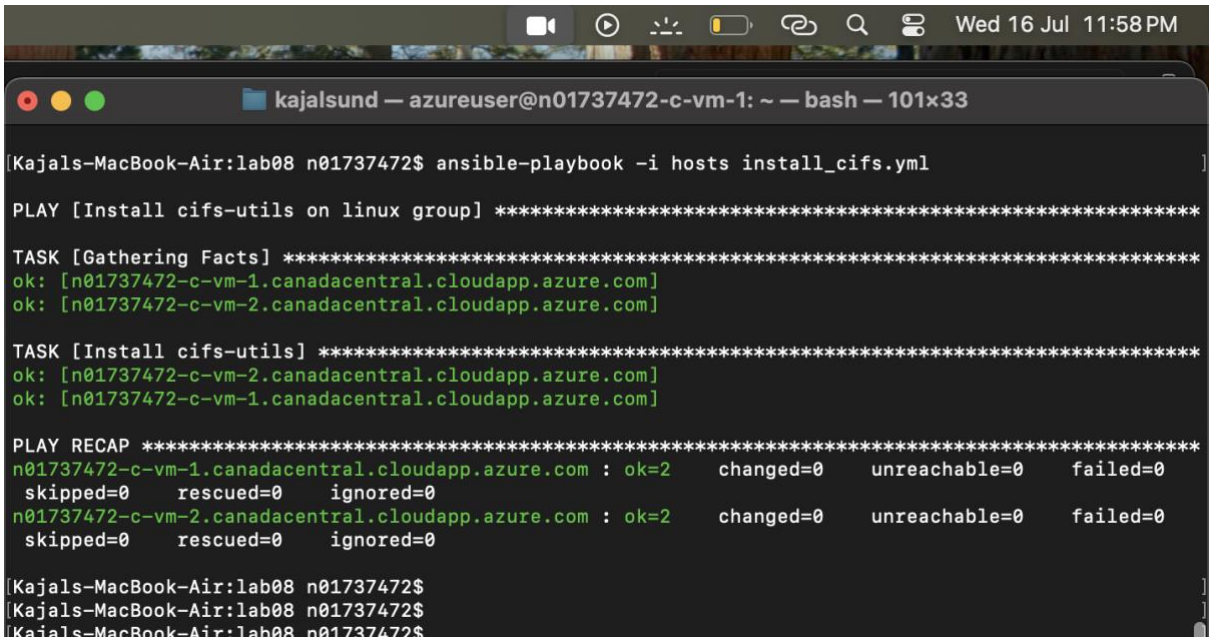
Lab 8

Part 1: Create a playbook with one play and one task:

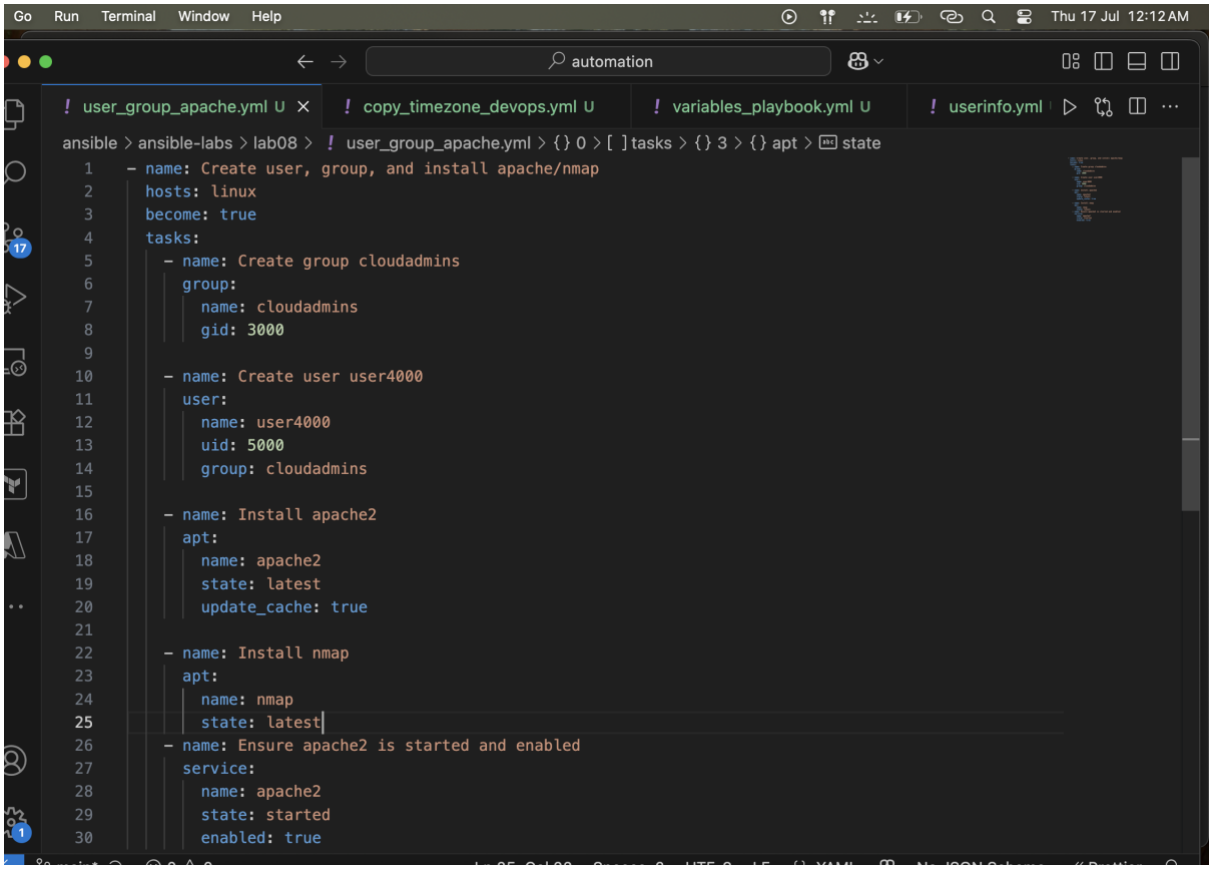
1. Convert the ad-hoc command “Use the dnf module to install the package called cifs-utils on localhost” portion into a single-task playbook and run it against the linux inventory group machines. Hint: use the dnf module.

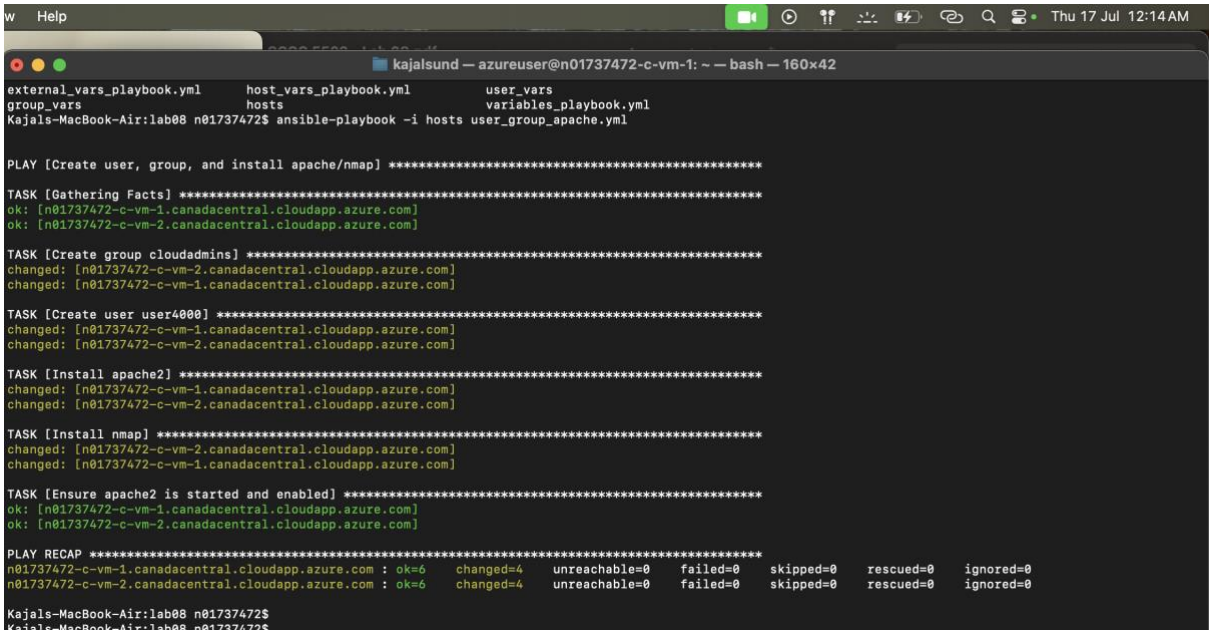




Part 2: Create a playbook with one play and multiple tasks:

2. 3. Play 1, Tasks 1 and 2: Create a user account called user4000 with UID 5000 and a group account called cloudadmins with GID 3000. Hint: use the user and group modules.
Play 1, Tasks 3 and 4: Install the latest versions of apache and nmap software. Start the Apache service and set it to auto-start on system reboots. Hint: use the dnf and systemd modules. SCREENSHOT of the playbook
4. Run the above playbook against linux inventory group





Part 3: Create a playbook with two plays, one task per play:

SCREENSHOT of the output

5. Play 1, Task 1: copy the local /etc/issue file to ansible-c-vm1 and change owning user and owning group to **user4000**:**cloudadmins** and permissions to 444. Hint: use the copy module.

Play 2, Task 1: Change the timezone on linux hosts to America/Edmonton. Hint: use the timezone module.

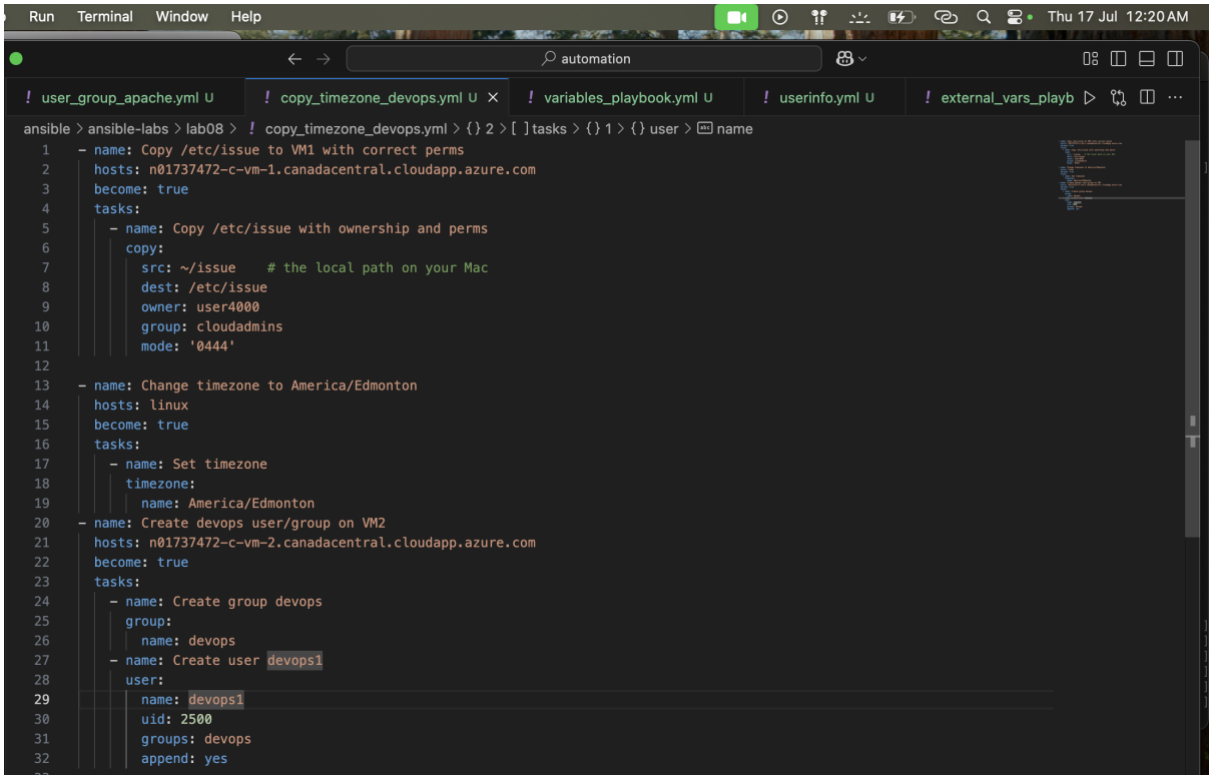
SCREENSHOT of the playbook

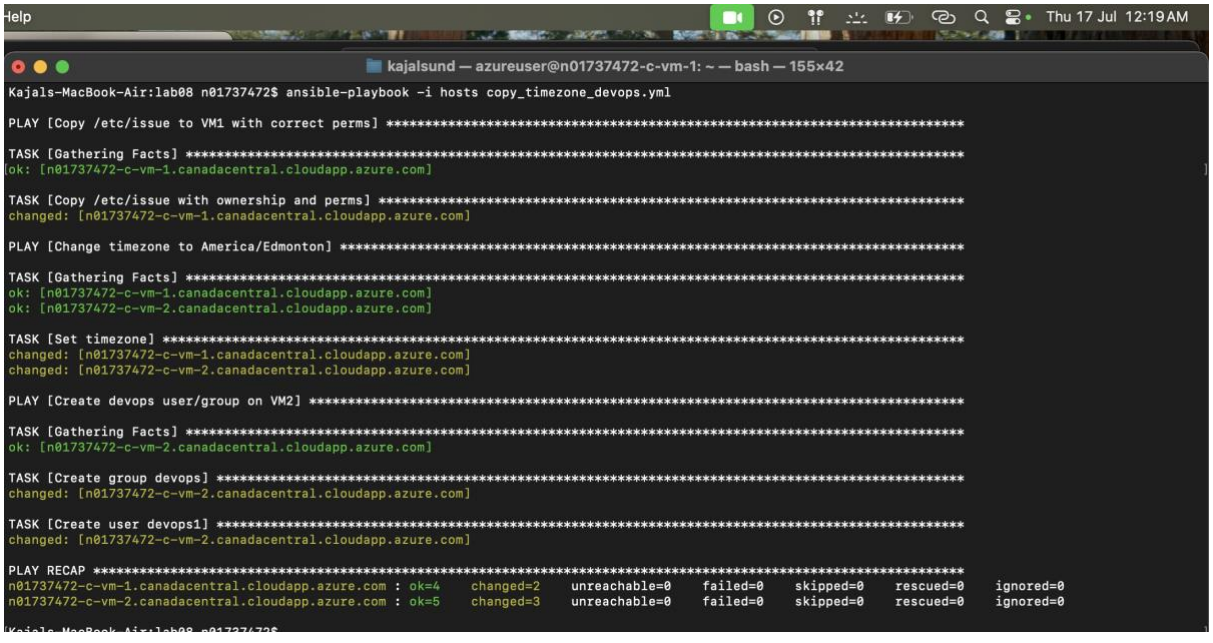
6. Run the above playbook

Part 4: Expand the previous playbook and add one more play:

SCREENSHOT of the output

7. Play 3, Task 1 and 2: Perform the following on ansible-c-vm2. Create a group called devops. Create a user called devops1 with UID 2500 and supplementary membership to devops group. Hint: use user and group modules. 8. Run the above playbook



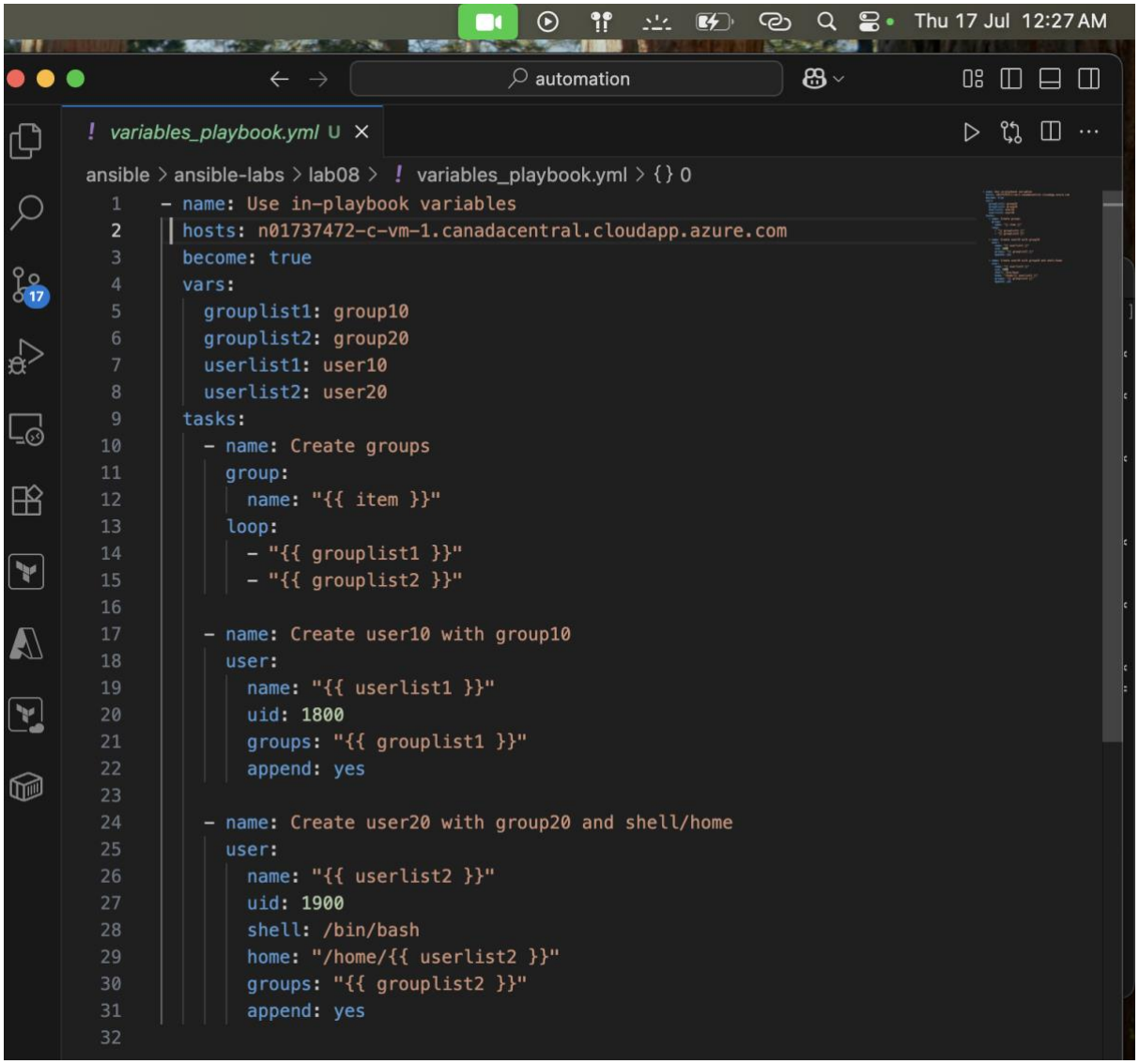


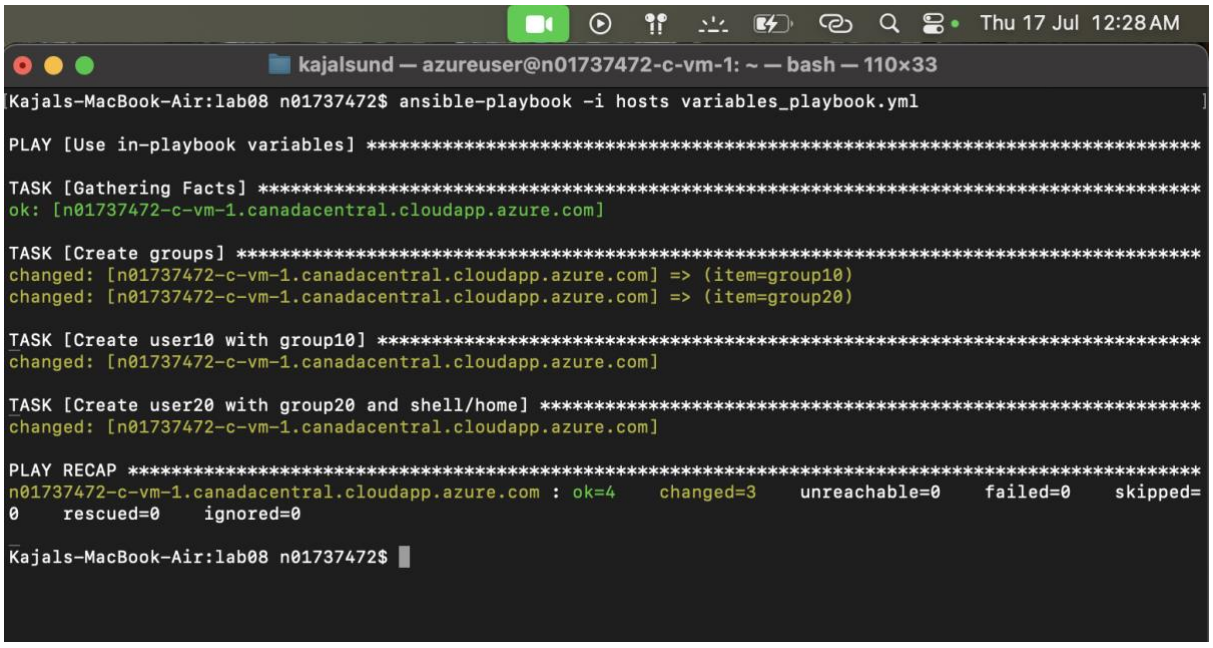
Section 2

Objectives:

- Demonstrate the use of variables defined inside a playbook and in external files

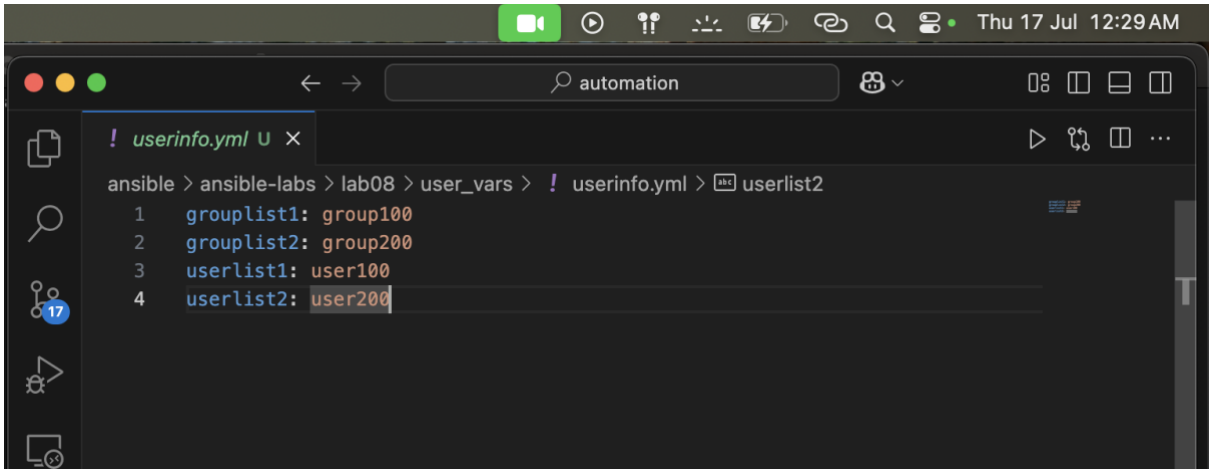
Part 1: Demonstrate in-playbook variable definitions:

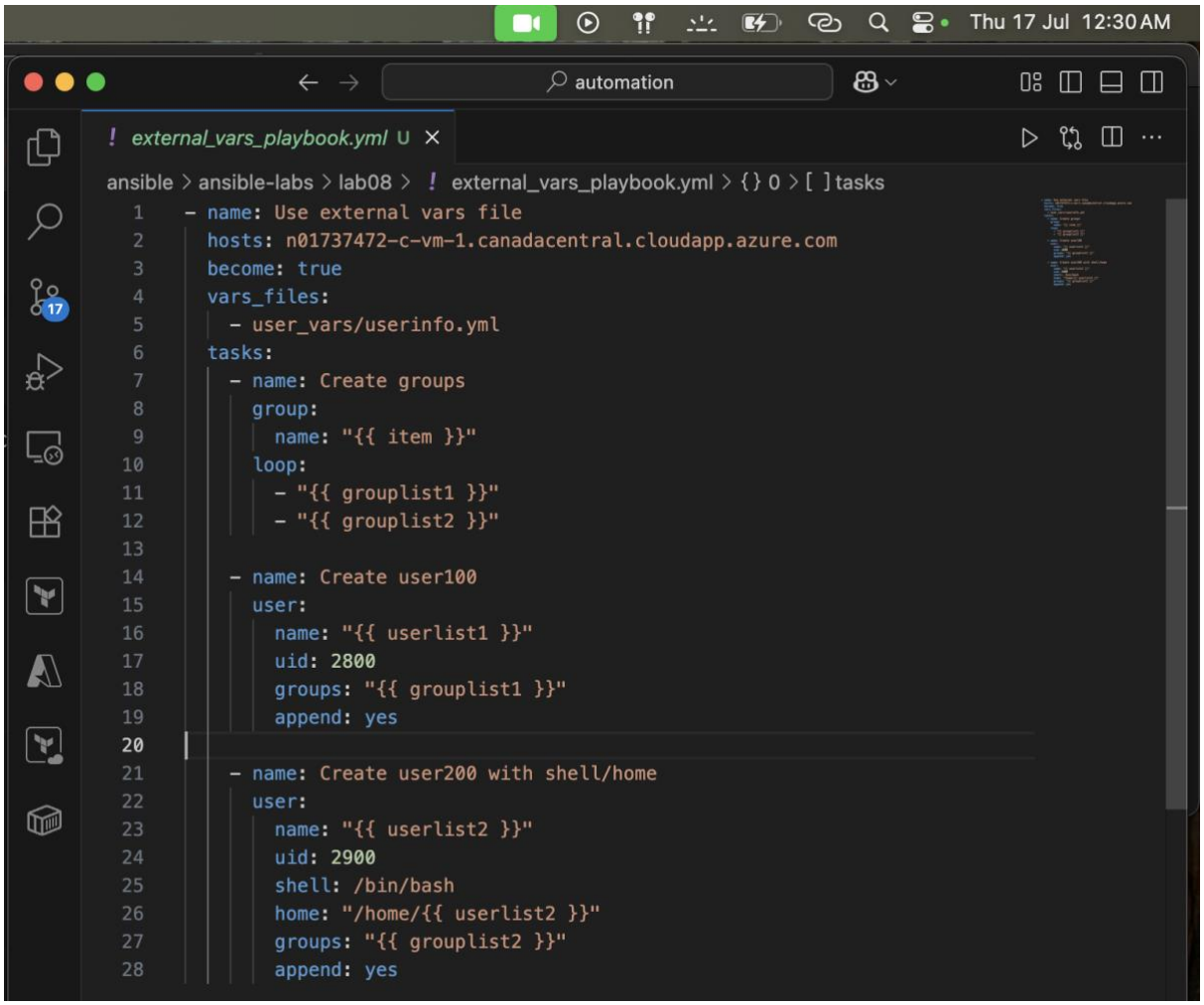


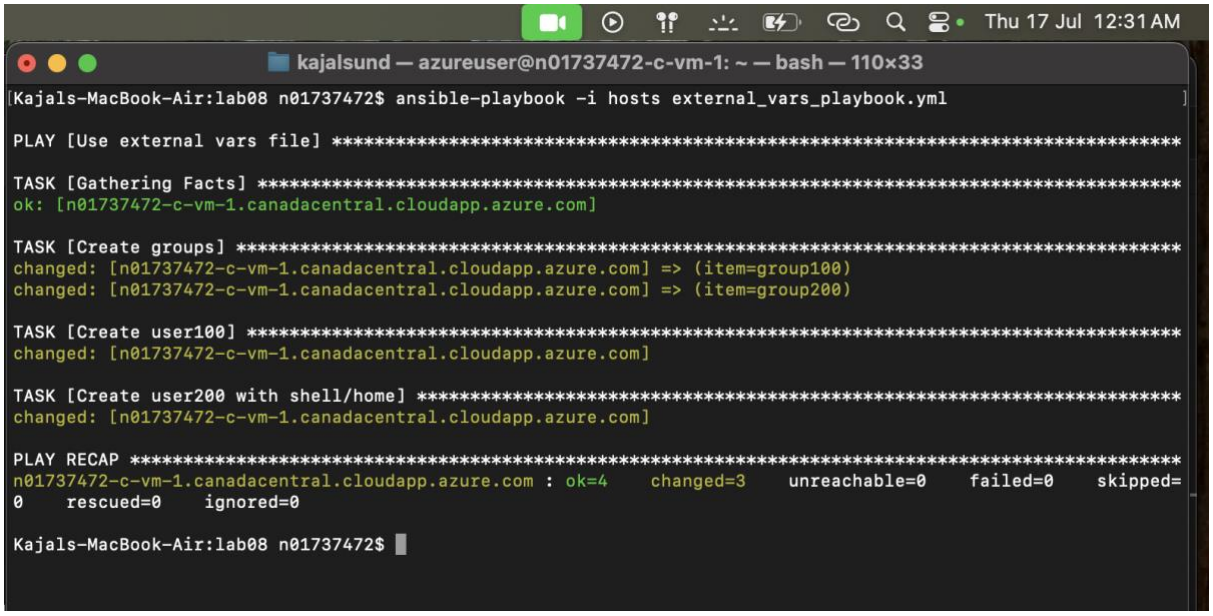


Part 2: Demonstrate the definition and use of variables from an external file:

9. Make a copy of the above playbook
10. Modify the copied playbook and move the variables out to an external file called userinfo under the vars directory. Change group10 to group100, group20 to group200, user10 to user100, user20 to user200, UID 1800 to 2800, and UID 1900 to 2900.
11. Run this playbook against ansible-c-vm1 only
SCREENSHOT of the playbook, the variables file, and the last few lines of the output







Section 3

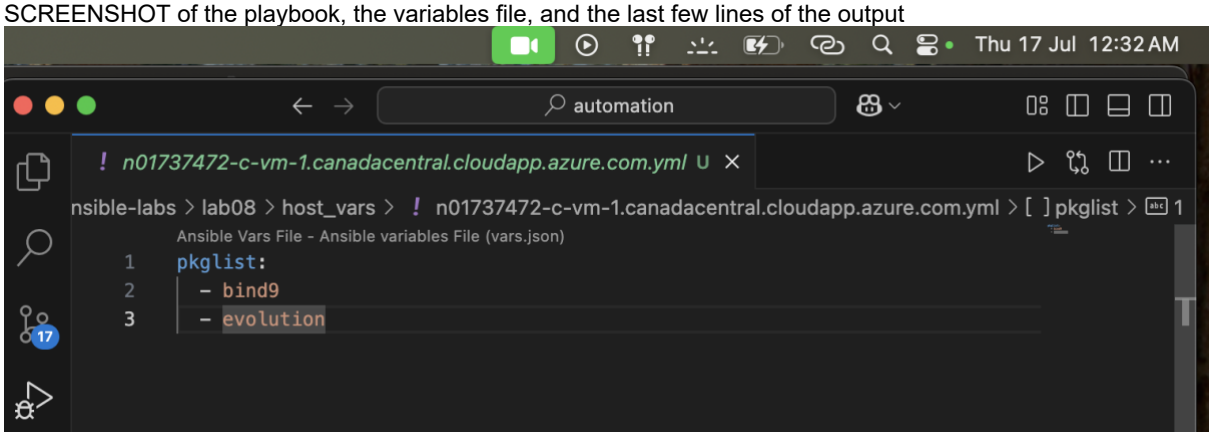
Objectives:

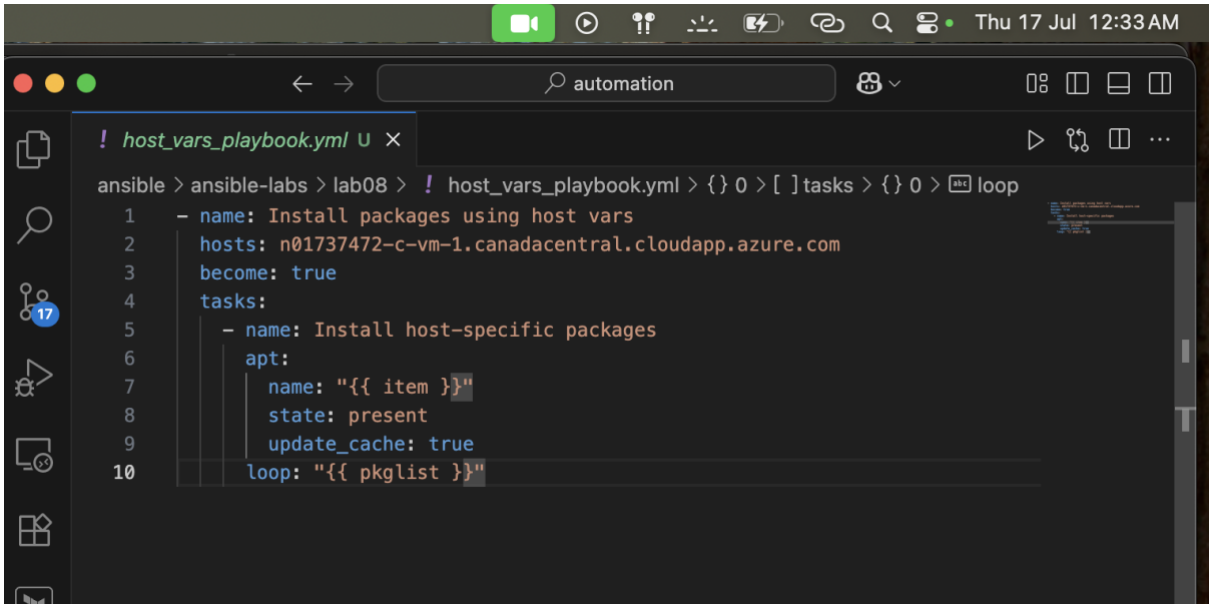
- Demonstrate the use of host variables and group variables

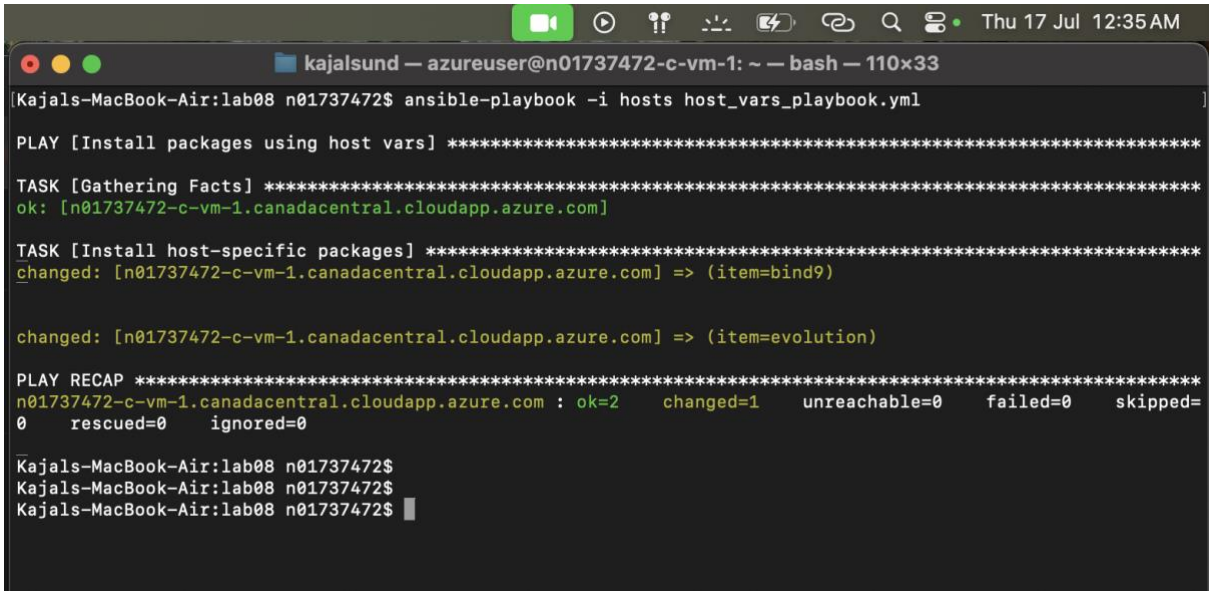
Part 1: Demonstrate the definition and use of host variables:

9. Create a playbook to install bind and evolution packages
10. Run this playbook against ansible-c-vm1 node using host variables

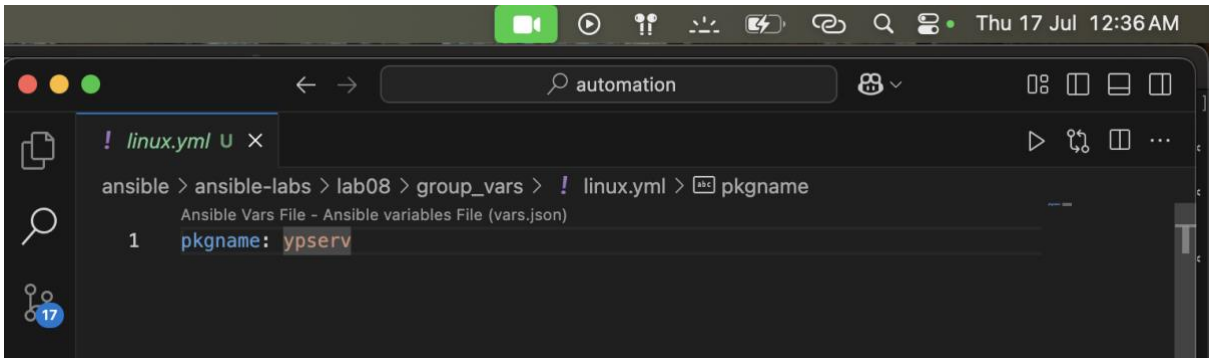
SCREENSHOT of the playbook, the variables file, and the last few lines of the output

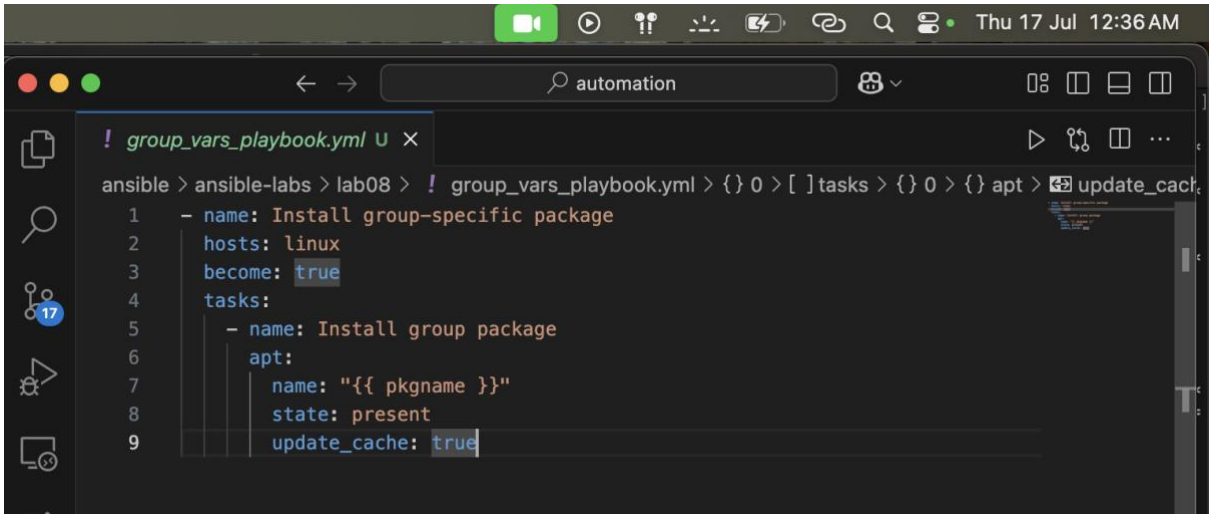


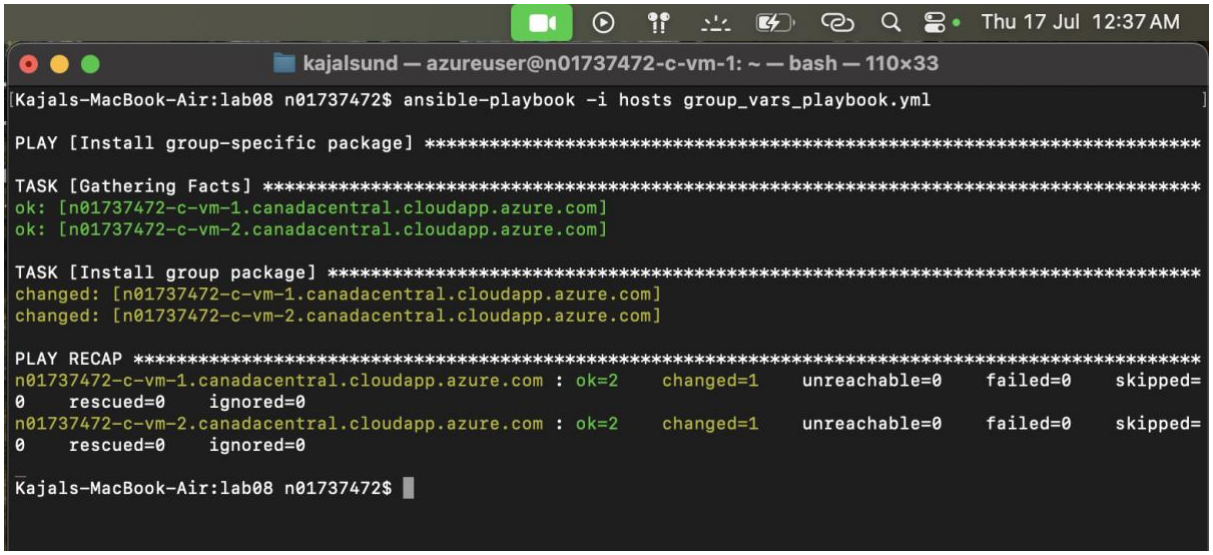




Part 2: Demonstrate the definition and use of group variables:
11. Create a playbook to install the ypserv package
12. Run this playbook against linux inventory group using group variables
SCREENSHOT of the playbook and the variables file, and the last few lines of the output




Thu 17 Jul 12:36 AM
automation
group_vars_playbook.yml U
ansible > ansible-labs > lab08 > group_vars_playbook.yml > { } 0 > [ ] tasks > { } 0 > { } apt > update_cach
1 - name: Install group-specific package
2 hosts: linux
3 become: true
4 tasks:
5 - name: Install group package
6 apt:
7 name: "{{ pkgname }}"
8 state: present
9 update_cache: true


Thu 17 Jul 12:37 AM
kajalsund — azureuser@n01737472-c-vm-1: ~ — bash — 110×33
Kajals-MacBook-Air:lab08 n01737472$ ansible-playbook -i hosts group_vars_playbook.yml
PLAY [Install group-specific package] **
TASK [Gathering Facts] ***
ok: [n01737472-c-vm-1.canadacentral.cloudapp.azure.com]
ok: [n01737472-c-vm-2.canadacentral.cloudapp.azure.com]
TASK [Install group package] ***
changed: [n01737472-c-vm-1.canadacentral.cloudapp.azure.com]
changed: [n01737472-c-vm-2.canadacentral.cloudapp.azure.com]
PLAY RECAP ***
n01737472-c-vm-1.canadacentral.cloudapp.azure.com : ok=2 changed=1 unreachable=0 failed=0 skipped=
0 rescued=0 ignored=0
n01737472-c-vm-2.canadacentral.cloudapp.azure.com : ok=2 changed=1 unreachable=0 failed=0 skipped=
0 rescued=0 ignored=0
Kajals-MacBook-Air:lab08 n01737472$