Lab 10

Section 1

Part 1: Demonstrate the management of files and folders:

- 1) Write a single-play playbook with the following tasks:
 - Create an empty file called locfile on the automation machine
 - Copy locfile to the managed nodes under the /tmp directory, set ownership and owning group to <yourusername>:root with permissions 0444
 - Display the status of the /tmp/locfile file
 - Create an empty file called emptyfile on the managed nodes in your home directory with the default permissions and ownership
- 2) Run this playbook against ansible-c-vm1

```
## Selection View & Go Run Terminal Window Help

## Parable Association

## If Me_folder.ymm U ×

## Parable Association

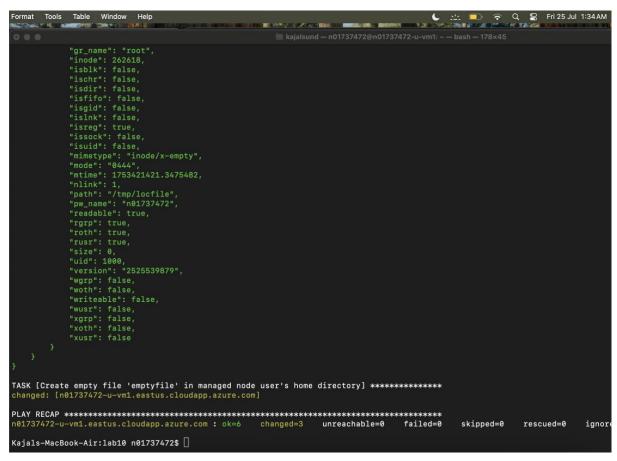
## If Me_folder.ymm U ×

## Parable Association

## Institution

##
```

```
Q 岩 Fri 25 Jul 1:34 AM
                                             🚞 kajalsund — n01737472@n01737472-u-vm1: ~ — bash — 178×45
Kajals-MacBook-Air:lab10 n01737472$ ansible-playbook -i hosts file_folder.yml
TASK [Create an empty file 'locfile' on control machine] ***********************
TASK [Copy 'locfile' to managed nodes /tmp with proper ownership and permissions] ********
changed: [n01737472-u-vm1.eastus.cloudapp.azure.com]
ok: [n01737472-u-vm1.eastus.cloudapp.azure.com]
[n01737472-u-vm1.eastus.cloudapp.azure.com] => {
"locfile_stat": {
      "changed": false,
"failed": false,
         ],
"block_size": 4096,
         "blocks": 0,
"charset": "binary",
"checksum": "da39a3ee5e6b4b0d3255bfef95601890afd80709",
"ctime": 1753421597.8114083,
"dev": 2049,
          "device_type": 0,
"executable": false,
          "exists": true, "gid": 0,
         "inode": 262618,
"isblk": false,
"ischr": false,
"isdir": false,
```



Section 3

Objectives:

- Create package and patch management roles
- Part 1: Create multiple roles for software management:
 - Create a role called package_remove to remove these packages: rsync, Idap-utils, and nis. Define the packages in the vars directory. Employ a condition to only delete the

packages if the guest operating system matches CentOS or RedHat.

View Go Run Terminal Window Help

C Ansible | S A Section | Package | Periode | Package | Package | Periode | Package |

2. Create a role called package_install to install these packages: cifs-utils, nfs-utils, audit, and chrony. Define the packages in the vars directory. Employ a condition to only install the packages if the guest operating system matches CentOS or RedHat.

3. Create a role called patching to deploy the updated versions of all installed packages. Employ a condition to restrict patching to CentOS or RedHat guest operating system. Define a handlers task to reboot the managed nodes after patching has finished.

4. Create a playbook called playbook.yml and define all three roles in it. Make sure that they run in the order in which they are listed above.

5. Run this playbook against linux inventory hosts

```
Fri 25 Jul 1:55 AM
Kajals-MacBook-Air:lab10 n01737472$ ansible-playbook -i hosts playbook.yml
TASK [package_remove : Remove unwanted packages] *******************************
skipping: [n01737472-u-vm1.eastus.cloudapp.azure.com]
TASK [package_install : Install packages] ********************************
failed=0
n01737472-u-vm1.eastus.cloudapp.azure.com : ok=1 changed=0
                                               unreachable=0
                                                                     skipped=3
                                                                              rescued=0
                                                                                        ignored=0
Kajals-MacBook-Air:lab10 n01737472$ ansible linux -m setup -a 'filter=ansible_os_family'
   37472-u-vm1.eastus.cloudapp.azure.com | SUCCESS => {
"ansible_facts": {
Kajals-MacBook-Air:lab10 n01737472$
```

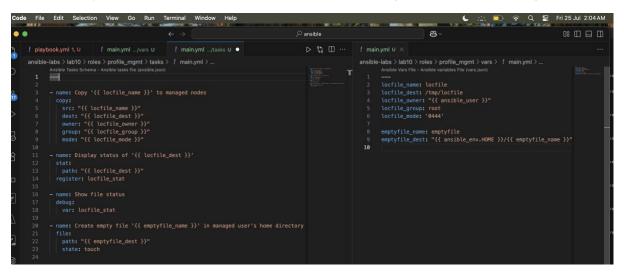
Section 4

Objectives:

- Create a profile management role

Part 1: Convert lab10 section 1 into a role:

Convert the playbook from section 1 of lab10 into a role called profile_mgmt. Parametrize the configuration as much as possible.



2. Add this role to the playbook.yml playbook. Do not remove or alter the existing roles from the playbook.

```
Code
        File
               Edit
                      Selection
                                   View
                                           Go
                                                 Run
                                                         Terminal
                                                                    Window
                                                                               Help
      ! playbook.yml 1, U ×
                                 ! main.yml .../vars U
                                                             ! main.yml .../tasks U ●
1
      ansible-labs > lab10 > ! playbook.yml > {} 0 > [ ] roles > \dots 3
              Ansible Playbook - Ansible playbook files (ansible.json)
              - hosts: linux
                become: yes
17
                roles:
                  package_remove
                  - package_install
                   patching
        8
                  profile_mgmt
```

Run this playbook against linux inventory hosts

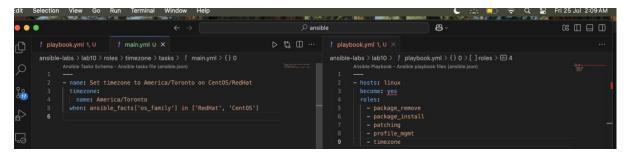
```
0 0 0
                          kajalsund — bash — 139×42
Kajals-MacBook-Air:lab10 n01737472$ ansible-playbook -i hosts playbook.vml
ok: [n01737472-u-vm1.eastus.cloudapp.azure.com]
skipping: [n01737472-u-vm1.eastus.cloudapp.azure.com]
skipping: [n01737472-u-vm1.eastus.cloudapp.azure.com]
ok: [n01737472-u-vm1.eastus.cloudapp.azure.com]
ok: [n01737472-u-vm1.eastus.cloudapp.azure.com] => {
   "changed": false,
"failed": false,
       "extents
     ],
"block_size": 4096,
     "blocks": 0,
"charset": "binary",
"checksum": "da39a3ee5e6b4b0d3255bfef95601890afd80709",
     "ctime": 1753421597.8114083,
     "executable": false,
"exists": true,
```

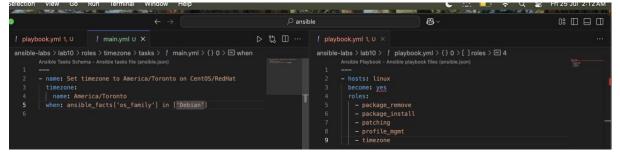
```
🔳 kajalsund — bash — 139×42
0 0 0
             "gr_name": "root",
             "inode": 262618,
"isblk": false,
"ischr": false,
             "isdir": false,
"isfifo": false,
             "isgid": false,
"islnk": false,
"isreg": true,
"issock": false,
"isuid": false,
             "mimetype": "inode/x-empty",
"mode": "0444",
"mtime": 1753421421.3475482,
             "mtime": 1/53421421.34/
"nlink": 1,
"path": "/tmp/locfile",
"pw_name": "n01737472",
"readable": true,
             "rgrp": true,
"roth": true,
             "size": 0,
"uid": 1000,
"version": "2525539879",
"wgrp": false,
"woth": false,
             "xgrp": false,
             "xoth": false,
changed: [n01737472-u-vm1.eastus.cloudapp.azure.com]
n01737472-u-vm1.eastus.cloudapp.azure.com : ok=5 changed=1 unreachable=0
                                                                                          failed=0
                                                                                                        skipped=3
                                                                                                                       rescue
Kaials-MacBook-Air:lab10 n01737472$
```

Section 5

Objectives:

- Create a role for setting time zone
- Part 1: Create a role for setting time zone:
 - Create a role called timezone to set up the time zone to America/Toronto if the installed guest operating system matches CentOS or RedHat.
 - Add this role to the playbook.yml playbook. Do not remove or alter the existing roles from the playbook.
 - Run this playbook against linux inventory hosts





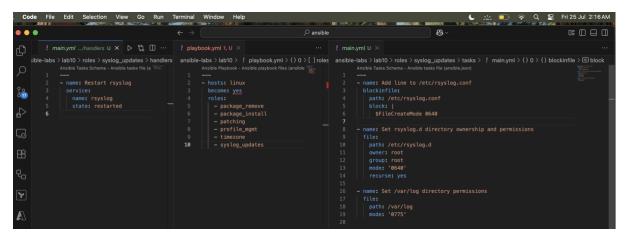
Section 6

Objectives:

- Create a role for syslog service management
- Part 1: Create a role for syslog updates:
- 1. Create a role called syslog_updates to perform the following tasks:
 - a. Insert a block of text "\$FileCreateMode 0640" at the end of the /etc/rsyslog.conf file.
 - b. Set ownership and owning group to root:root and permissions to 0640 recursively on the /etc/rsyslog.d directory.
 - c. d. Set permissions on the /var/log directory to 0775. Do not run it recursively.
 - d. Restart the rsyslog service via a handler
- 2. Add this role to the playbook.yml playbook. Do not remove or alter the existing roles

from the playbook.

3. Run this playbook against linux inventory hosts



```
Window Help

| Majatsund - bash - 162×42 |
| Majatsund - bash - 1
```