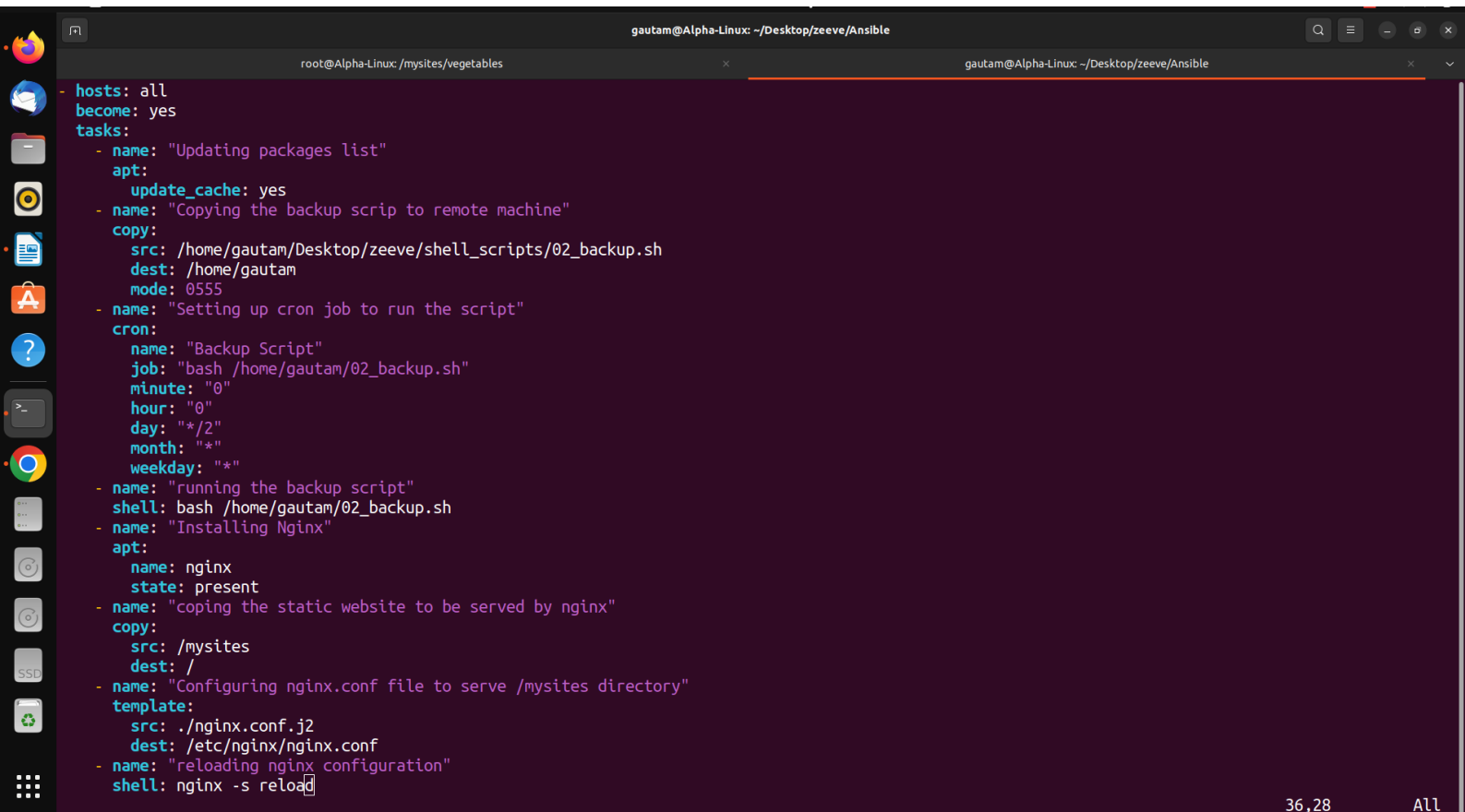# Assignment 2
Ansible

Q :- Have to do the following task on remote server using ansible playbook

- ➤ update all the package list on ubuntu server
- ➤ copy the backup script to remote server which compres the mysql data files into a tar file and then puch it to s3 bucket
- ➤ Setup cron job to run the same backup script every 2nd day
- ➤ run the backup script
- ➤ Install nginx
- ➤ Copy a static website data to the remote server to serve it from nginx
- ➤ Configure nginx.conf file to serve the copied website and serve different content on different end points
- ➤ Reload the nginx to access the webbsite from browser

Ansible playbook to do all te above task


```yaml
- hosts: all
  become: yes
  tasks:
    - name: "Updating packages list"
      apt:
        update_cache: yes
    - name: "Copying the backup scrip to remote machine"
      copy:
        src: /home/gautam/Desktop/zeeve/shell_scripts/02_backup.sh
        dest: /home/gautam
        mode: 0555
    - name: "Setting up cron job to run the script"
      cron:
        name: "Backup Script"
        job: "bash /home/gautam/02_backup.sh"
        minute: "0"
        hour: "0"
        day: "*/2"
        month: "*"
        weekday: "*"
    - name: "running the backup script"
      shell: bash /home/gautam/02_backup.sh
    - name: "Installing Nginx"
      apt:
        name: nginx
        state: present
    - name: "coping the static website to be served by nginx"
      copy:
        src: /mysites
        dest: /
    - name: "Configuring nginx.conf file to serve /mysites directory"
      template:
        src: ./nginx.conf.j2
        dest: /etc/nginx/nginx.conf
    - name: "reloading nginx configuration"
      shell: nginx -s reload
```

nginx configuration file jinja2 template

root@Alpha-Linux: /mysites/vegetables

```jinja2
http {
        include mime.types;

        server {
                listen 8080;
                root /mysites/;

                rewrite ^/number/(\w+) /count/$1;

                location ~* /count/[0-9] {
                        root /mysites/;
                        try_files /index.html =404;
                }

                location /fruits {
                        root /mysites/;
                }
                location /carbs{
                        alias /mysites/fruits;
                }
                location /vegetables {
                        root /mysites/;
                        try_files /vegetables/veggies.html /index.html =404;
                }

                location /crops {
                        return 307 /fruits;
                }

        }
}
events{}
~
~
~
"nginx.conf.j2" 33L, 490B
```