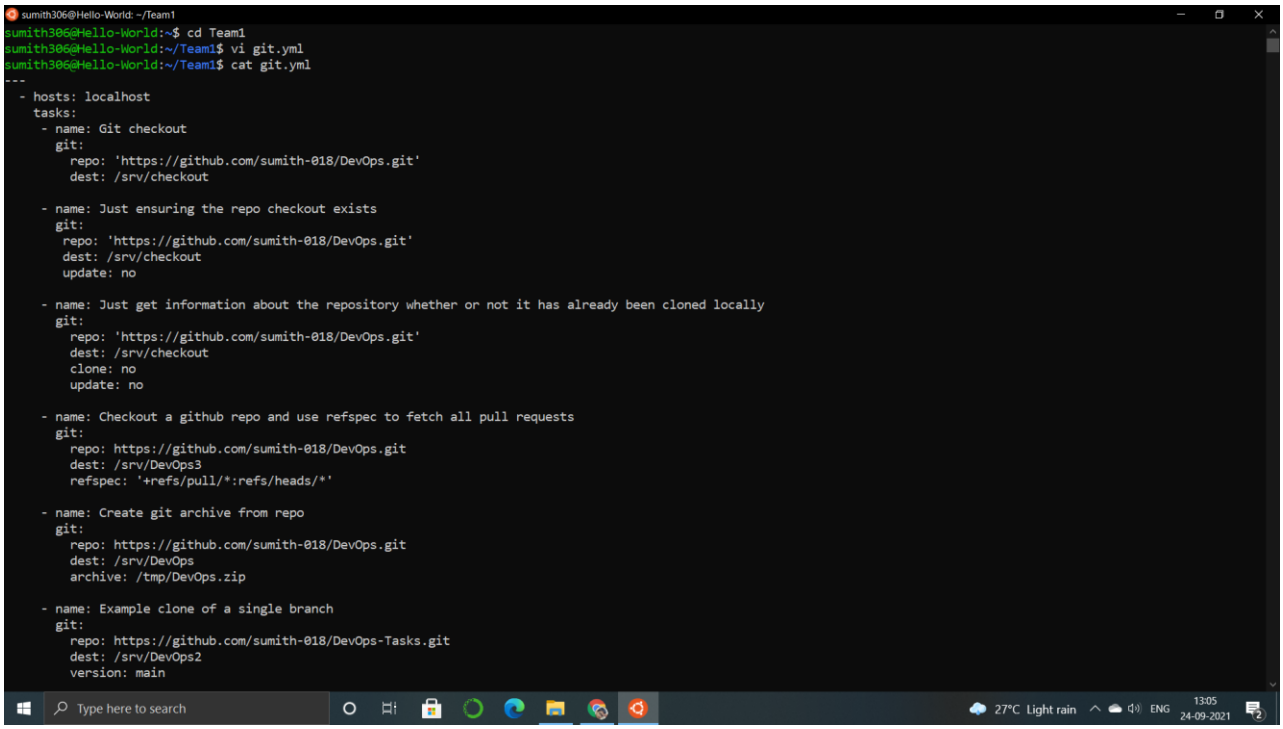
Some Additional exploration on git with ansible

- Git Checkout
- Ensuring the repo checkout exists
- Getting information about the repository whether or not it has already been cloned locally
- Checkout a github repo and use refspec to fetch all pull requests
- Create git archive from repo
- Cloning a single branch

Configuring the playbook :

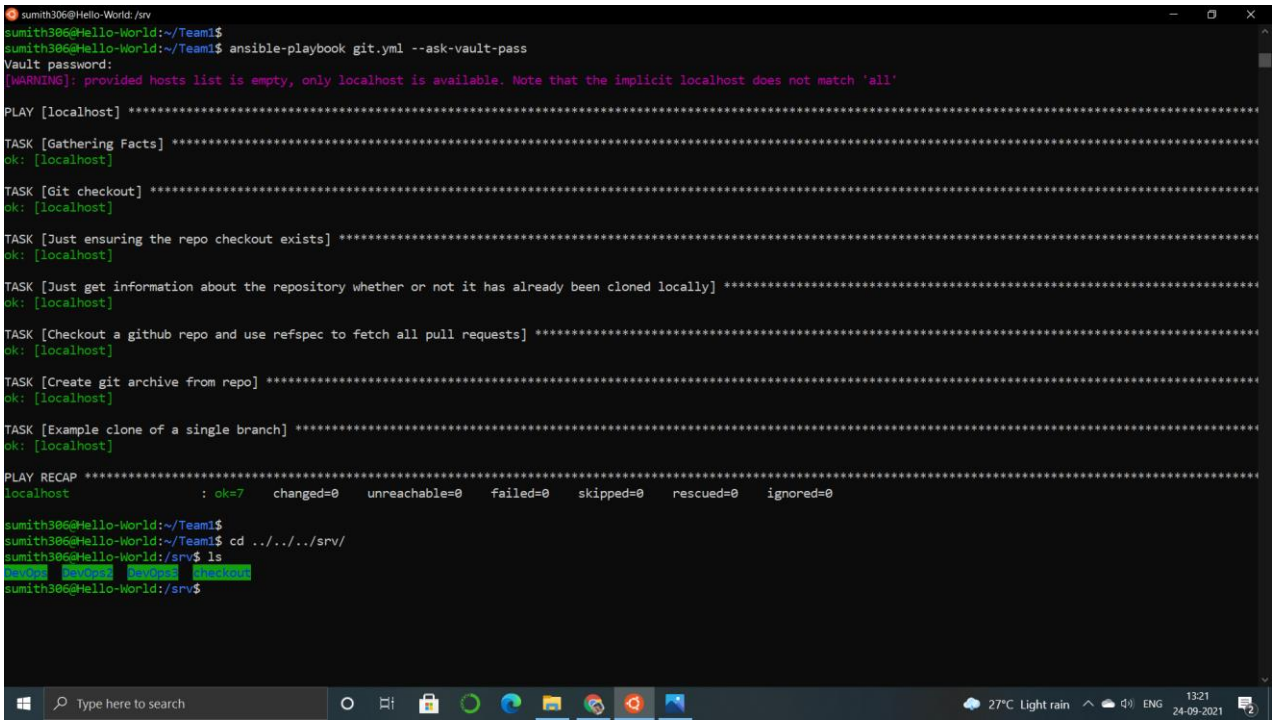


```
sumith306@Hello-World:~$ cd Team1
sumith306@Hello-World:~/Team1$ vi git.yml
sumith306@Hello-World:~/Team1$ cat git.yml
---
 - hosts: localhost
   tasks:
    - name: Git checkout
      git:
        repo: 'https://github.com/sumith-018/DevOps.git'
        dest: /srv/checkout

    - name: Just ensuring the repo checkout exists
      git:
       repo: 'https://github.com/sumith-018/DevOps.git'
       dest: /srv/checkout
       update: no

    - name: Just get information about the repository whether or not it has already been cloned locally
      git:
        repo: 'https://github.com/sumith-018/DevOps.git'
        dest: /srv/checkout
        clone: no
        update: no

    - name: Checkout a github repo and use refspec to fetch all pull requests
      git:
        repo: https://github.com/sumith-018/DevOps.git
        dest: /srv/DevOps3
        refspec: '+refs/pull/*:refs/heads/*'

    - name: Create git archive from repo
      git:
        repo: https://github.com/sumith-018/DevOps.git
        dest: /srv/DevOps
        archive: /tmp/DevOps.zip

    - name: Example clone of a single branch
      git:
        repo: https://github.com/sumith-018/DevOps-Tasks.git
        dest: /srv/DevOps2
        version: main
```

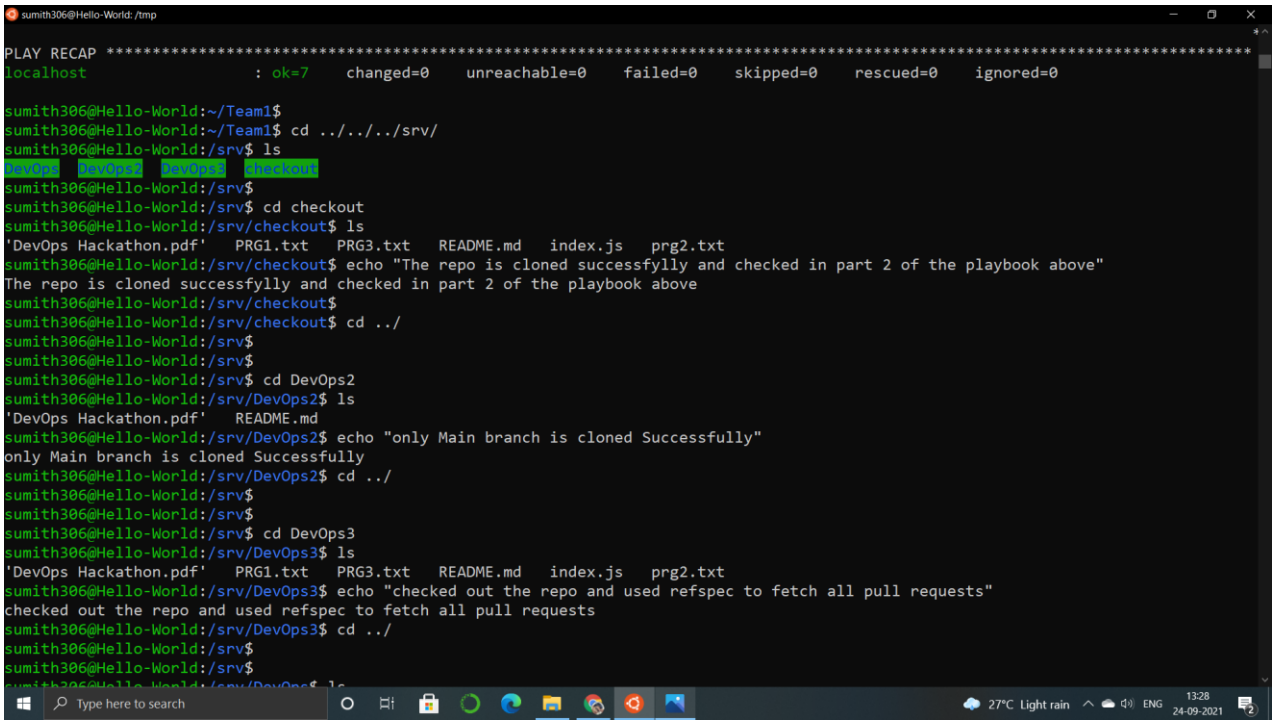
Creating Different directories to check after running the playbook :

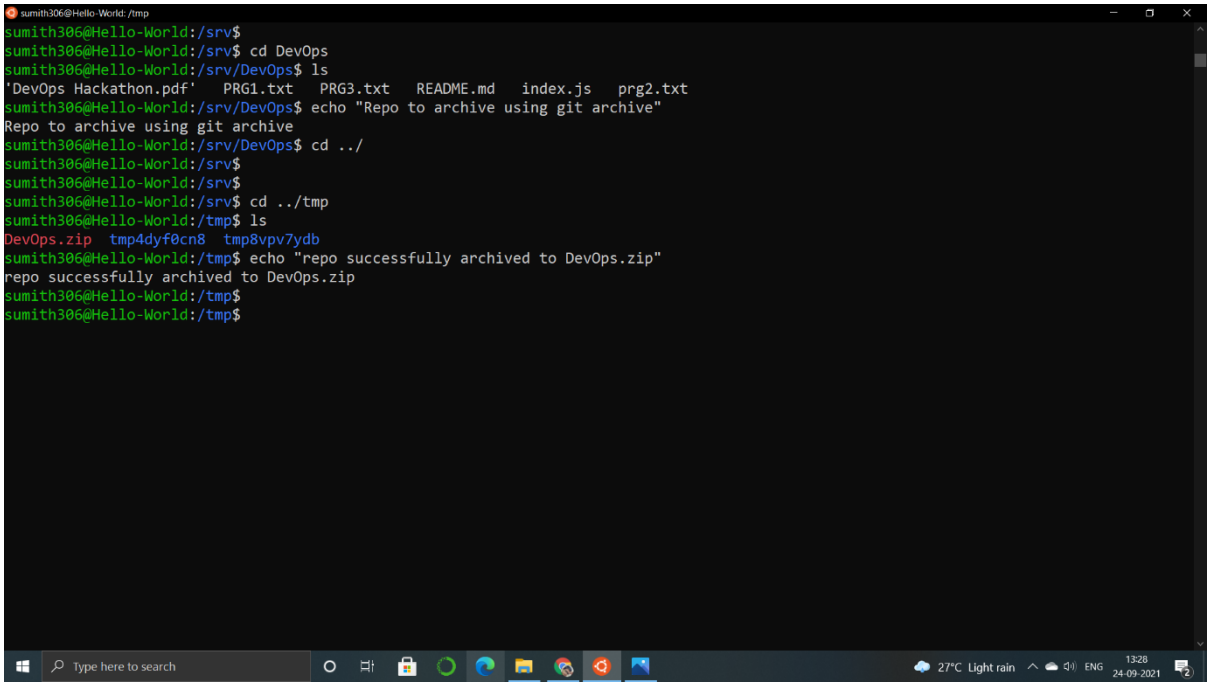
```
Select sumith306@Hello-World: ~/Team1
sumith306@Hello-World:/srv$ ls
sumith306@Hello-World:/srv$ mkdir DevOps
sumith306@Hello-World:/srv$ mkdir DevOps2
sumith306@Hello-World:/srv$ mkdir DevOps3
sumith306@Hello-World:/srv$ mkdir checkout
sumith306@Hello-World:/srv$ ls
DevOps  DevOps2  DevOps3  checkout
sumith306@Hello-World:/srv$ chmod o+rwx DevOps
sumith306@Hello-World:/srv$ chmod o+rwx DevOps2
sumith306@Hello-World:/srv$ chmod o+rwx DevOps3
sumith306@Hello-World:/srv$ chmod o+rwx checkout
sumith306@Hello-World:/srv$
sumith306@Hello-World:/srv$ cd ../home/sumith306/Team1/
sumith306@Hello-World:~/Team1$
```

Executing the playbook :



Validating by checking the repos :




sumith306@Hello-World: /tmp
sumith306@Hello-World:/srv$
sumith306@Hello-World:/srv$ cd DevOps
sumith306@Hello-World:/srv/DevOps$ ls
'DevOps Hackathon.pdf'   PRG1.txt   PRG3.txt   README.md   index.js   prg2.txt
sumith306@Hello-World:/srv/DevOps$ echo "Repo to archive using git archive"
Repo to archive using git archive
sumith306@Hello-World:/srv/DevOps$ cd ../
sumith306@Hello-World:/srv$
sumith306@Hello-World:/srv$
sumith306@Hello-World:/srv$ cd ../tmp
sumith306@Hello-World:/tmp$ ls
DevOps.zip tmp4dyf0cn8 tmp8vpv7ydb
sumith306@Hello-World:/tmp$ echo "repo successfully archived to DevOps.zip"
repo successfully archived to DevOps.zip
sumith306@Hello-World:/tmp$
sumith306@Hello-World:/tmp$
Type here to search
27°C Light rain
ENG
13:28
24-09-2021