

\*\*\*\*\*AnsiblePractical\*\*\*\*\*

**\*----Comments**

\*open vm ware  
\*open terminal  
    sudo apt install ansible  
    ansible --version  
\*Creating directory in ansible:  
    mkdir soft  
\*change the directory  
    cd soft

**1.\*\*\*\*\***

\*creating ansible file (using .yaml extension)  
    nano first.yaml  
    (it is playbook)

```
- name: first ansible demo
  hosts: localhost
  tasks:
    - name: print hello
      debug:
        msg: "Hello Ansible"
```

\*ctrl+O, enter, ctrl+X

cat first.yaml

\*To run Playbook  
    ansible-playbook first.yaml

**2\*\*\*\*\***

nano second.yaml

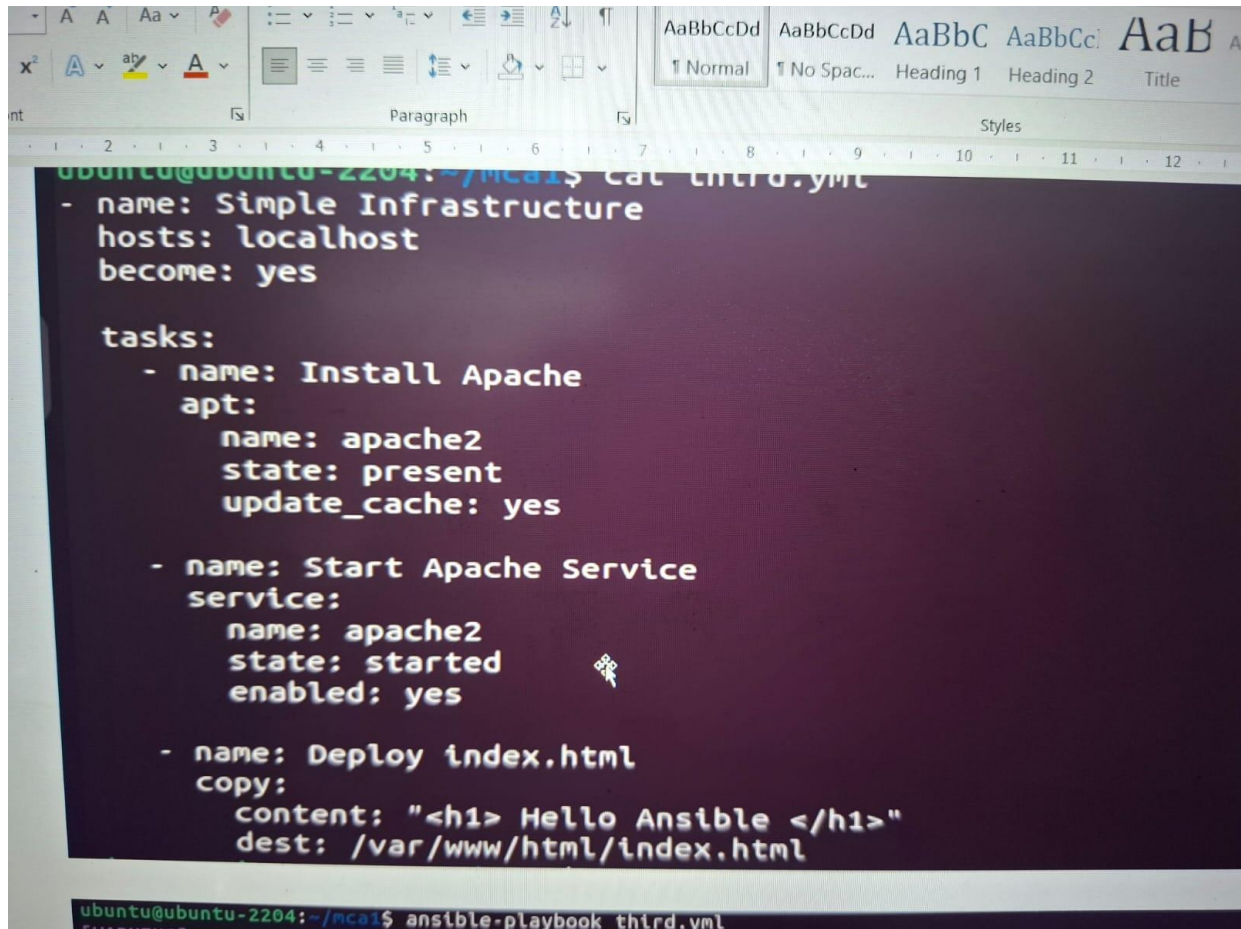
```
- name: install and run Apache
  hosts: localhost
  become: yes
  tasks:
    - name: Install Apache
      apt:
        name: apache2
        state: present
    - name: Start Apache service
      service:
        name: apache2
        state: started
        enables: yes
```

\*ctrl+o, Enter, Ctrl+X

ansible-playbook second.yaml

### 3.\*\*\*\*\*

nano third.yml



The screenshot shows a terminal window with a dark background. At the top, a command prompt shows 'ubuntu@ubuntu-2204:~/mca1\$ cat third.yml'. Below this, the contents of the file 'third.yml' are displayed in a light-colored font. The file defines a playbook with a name 'Simple Infrastructure', hosts 'localhost', and a task to install and start Apache, and deploy an index.html file. At the bottom of the terminal, the command 'ansible-playbook third.yml' is entered.

```
ubuntu@ubuntu-2204:~/mca1$ cat third.yml
- name: Simple Infrastructure
  hosts: localhost
  become: yes

  tasks:
    - name: Install Apache
      apt:
        name: apache2
        state: present
        update_cache: yes

    - name: Start Apache Service
      service:
        name: apache2
        state: started
        enabled: yes

    - name: Deploy index.html
      copy:
        content: "<h1> Hello Ansible </h1>"
        dest: /var/www/html/index.html

ubuntu@ubuntu-2204:~/mca1$ ansible-playbook third.yml
```

\*ctrl+o, Enter, Ctrl+X

ansible-playbook third.yml

\*open firefox browser

URL --> localhost/index.html

### 4.\*\*\*\*\*

nano forth.yml

```
- name: Deploy PHP Web Application
  hosts: localhost
  become: yes
  tasks:
    - name: Install Apache and PHP
      apt:
        name:
          - apache2
          - php
        state: present

    - name: Deploy php application
      copy:
        content:
          <?php
          echo "<h1> Hello Ansible and php</h1>"
```

```

        echo "<body> Demo page </body>"
        ?>
        dest: /var/www/html/index.php
    - name: Restarted Apache
      service:
        name: apache2
        state: restarted
*ctrl+O, enter ctrl+X
  ansible-playbook forth.yml
*open firefox browser
  URL --> localhost/index.php

```

## 5.\*\*\*\*\* For JAVA program\*\*\*\*\*

```

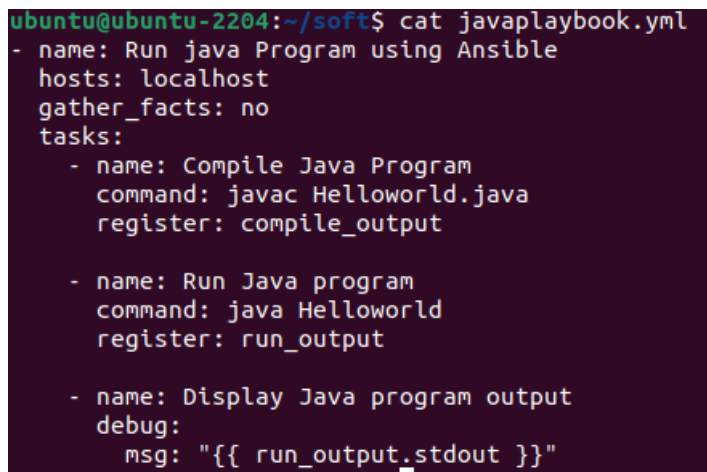
sudo apt install openjdk-21-jdk-headless
sudo apt install openjdk-21-jre-headless

```

```

nano javaplaybook.yml

```



```

ubuntu@ubuntu-2204:~/soft$ cat javaplaybook.yml
- name: Run java Program using Ansible
  hosts: localhost
  gather_facts: no
  tasks:
    - name: Compile Java Program
      command: javac Helloworld.java
      register: compile_output

    - name: Run Java program
      command: java Helloworld
      register: run_output

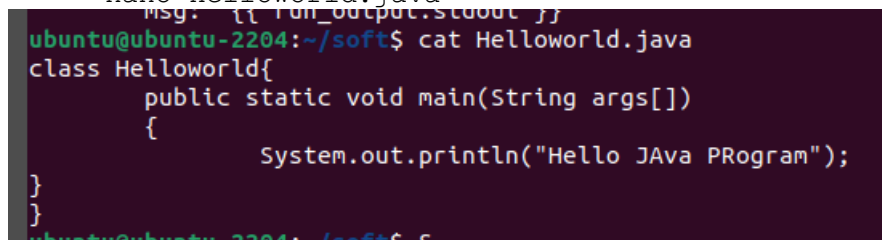
    - name: Display Java program output
      debug:
        msg: "{{ run_output.stdout }}"

```

```

nano Helloworld.java

```



```

ubuntu@ubuntu-2204:~/soft$ cat Helloworld.java
class Helloworld{
    public static void main(String args[])
    {
        System.out.println("Hello JAVa PRogram");
    }
}
ubuntu@ubuntu-2204:~/soft$ s

```

```

ansible-playbook javaplaybook.yml

```

## 6.\*\*\*\*\*

```

Open GitHub
Create ansible repository
Create 2 file - dempull.yml & inventory.ini

```

 main  1 Branch  0 Tags

 **Sahillavangare02** Update dempull.yml

 dempull.yml Upd

 inventory.ini Crea

dempull.yml

 main [ansible / dempull.yml](#) 

 **Sahillavangare02** Update dempull.yml

**Code** **Blame** 12 lines (12 loc) · 274 Bytes

```
1 - name: First Demo Pull
2   hosts: localhost
3   tasks:
4     - name: print hello world
5       debug:
6         msg: "Hello world"
7     - name: print hosts name
8       debug:
9         var: ansible_hostname
10    - name: print Ubuntu version
11      debug:
12        var: ansible_distribution
```

Inventory.ini

 main [ansible / inventory.ini](#) 

**Sahillavangare02** Create inventory.ini

**Code** **Blame** 2 lines (2 loc) · 52 Bytes

```
1 [localhost]
2 172.29.96.1 ansible_connection=localhost
```

\*On VMWare terminal

```
sudo apt-get install git  
git init
```

```
git clone https://github.com/Sahillavangare02/ansible.git//  
ls
```

```
ansible-pull -U  
https://github.com/Sahillavangare02/ansible.git -i inventory.ini  
dempull.yml
```