Devops and its applications(CS457)

Assignment 2.2 : Ansible Playbook Exercise

Group :4

Reference links: https://www.middlewareinventory.com/blog/ansible-git-example/

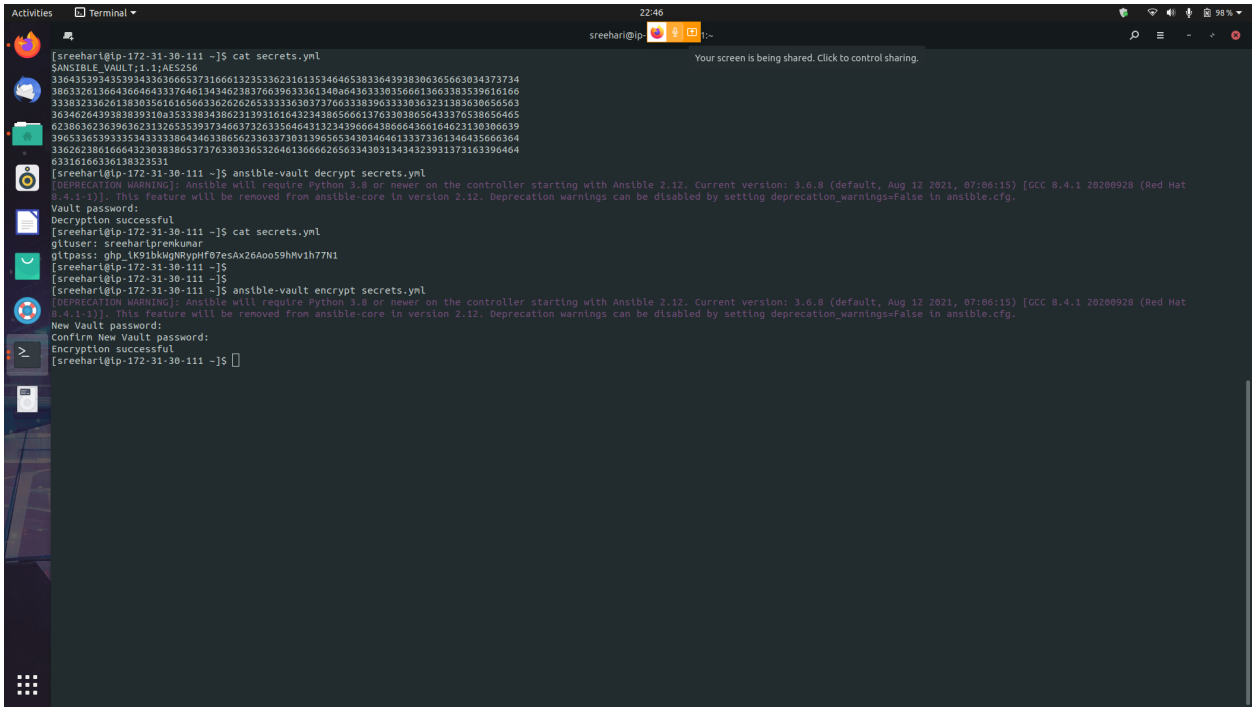
Step1: Configuring Git login

To login to GITHUB , we use the username and token in the following format.

Using the username and security token on the URL

- `https://user:token@github.com/path`

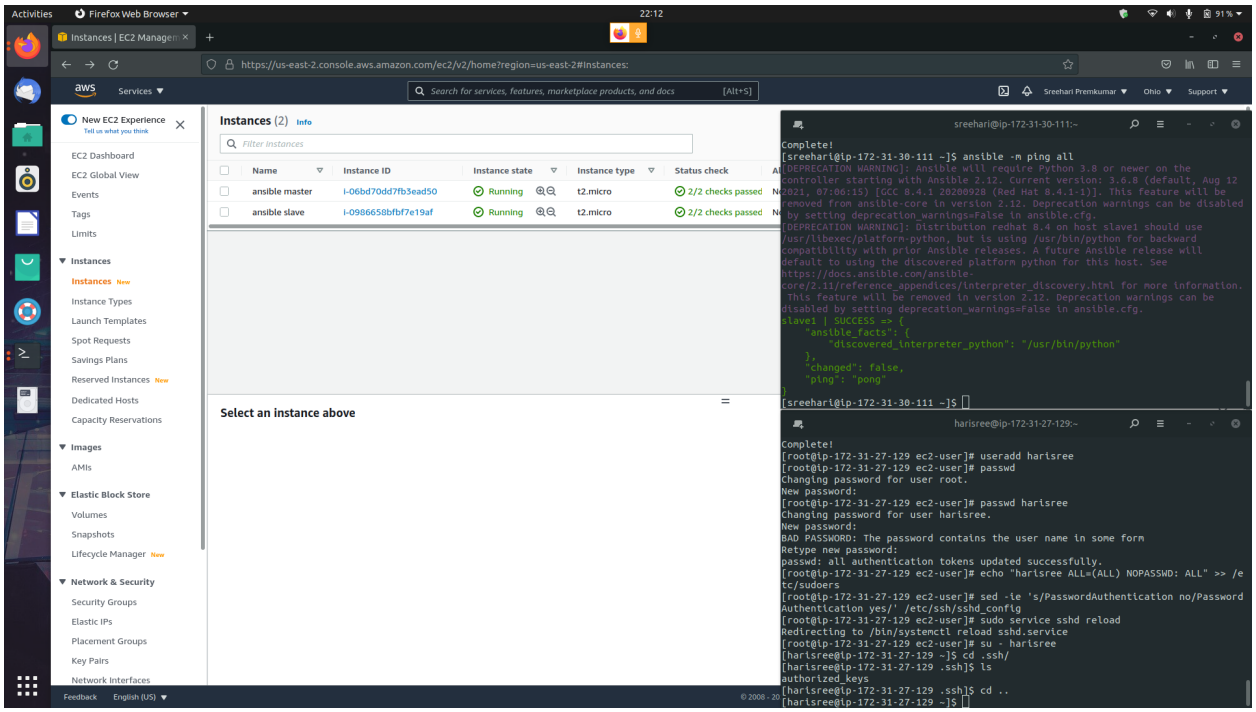
Step2: Creating Ansible vault to Store the Git username and token



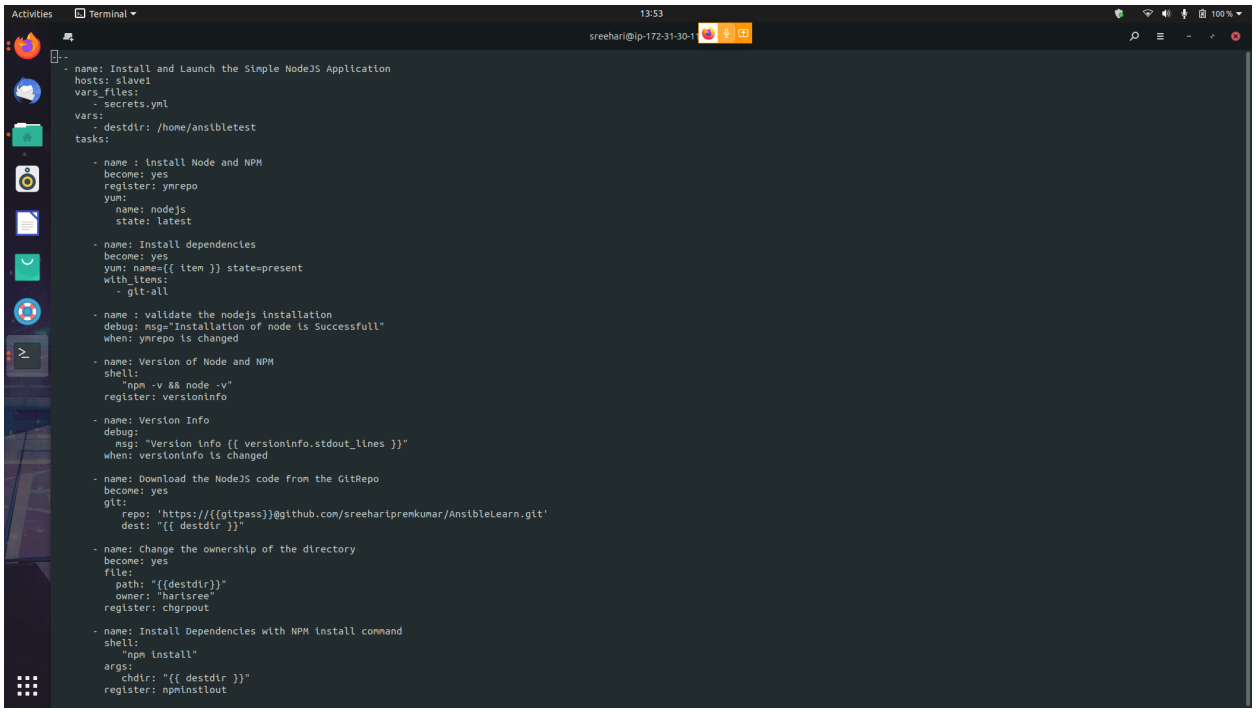
Step3: The Ansible Git Example Playbook

EC2 Instances with Red Hat AMI:

Master Node : sreehari@ip-172-31-30-111 **Slave Node**:harishree@ip-172:31:27:129

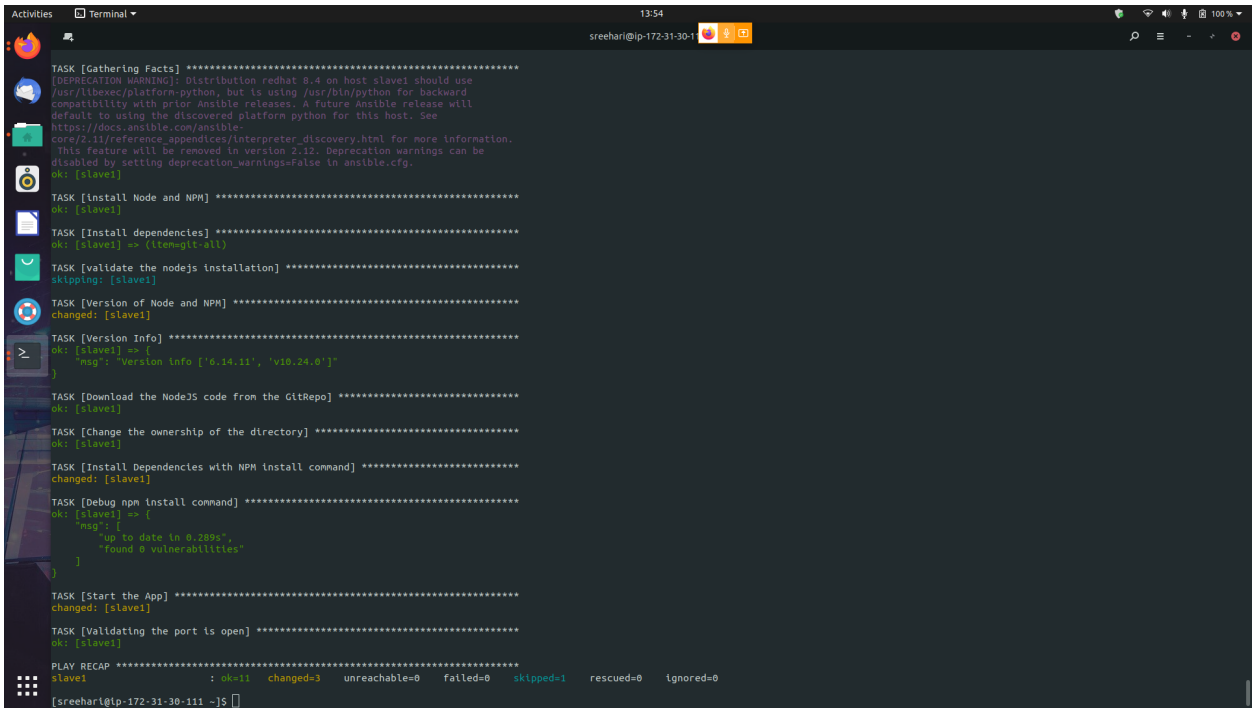


Playbook to automate the installation of node js, its dependencies and to download and launch a sample node js app from a private github repository.

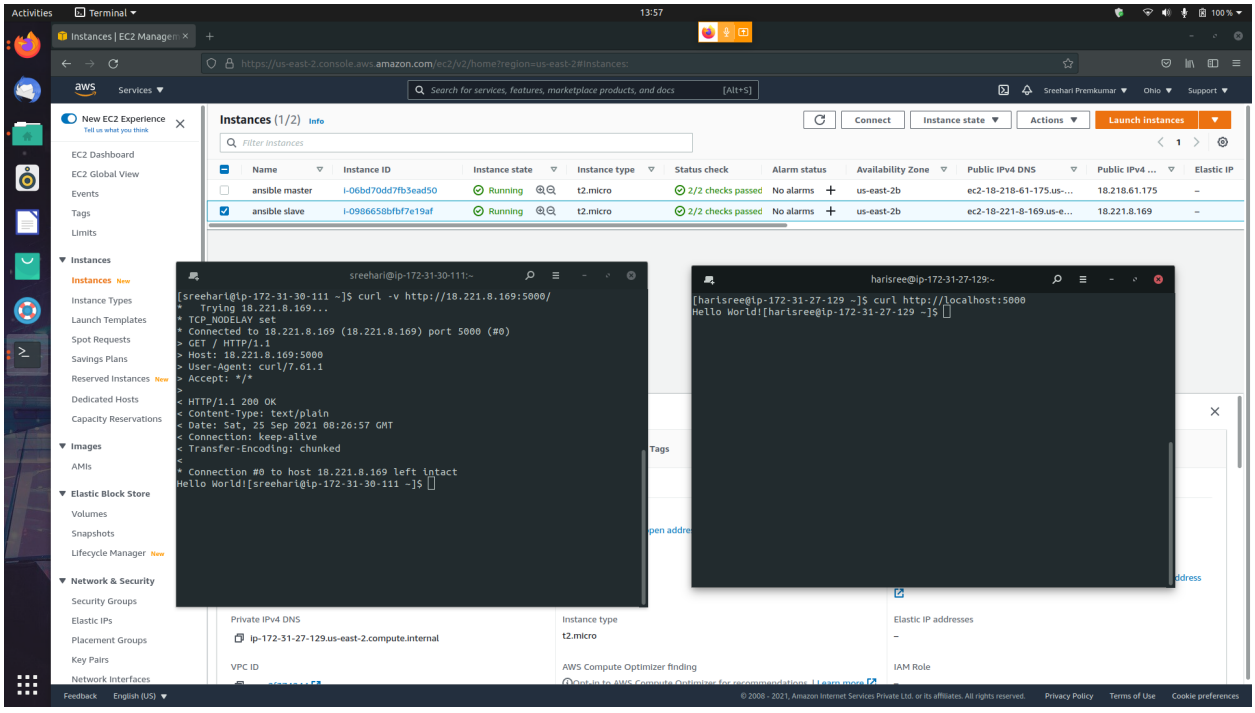


```
---
- name: Install and Launch the Simple NodeJS Application
  hosts: slave1
  vars_files:
    - secrets.yml
  vars:
    - destdir: /home/ansibletest
  tasks:

     - name : Install Node and NPM
       become: yes
       register: ymrepo
       yum:
         name: nodejs
         state: latest

     - name: Install dependencies
       become: yes
       yum: name={{ item }} state=present
       with_items:
         - git-all

     - name : validate the nodejs installation
       debug: msg="Installation of node is Successfull"
       when: ymrepo is changed

     - name: Version of Node and NPM
       shell:
          "npm -v && node -v"
       register: versioninfo

     - name: Version Info
       debug:
         msg: "Version info {{ versioninfo.stdout_lines }}"
       when: versioninfo is changed

     - name: Download the NodeJS code from the GitRepo
       become: yes
       git:
          repo: 'https://{{gitpass}}@github.com/sreeharipremkumar/AnsibleLearn.git'
          dest: "{{ destdir }}"

     - name: Change the ownership of the directory
       become: yes
       file:
         path: "{{destdir}}"
         owner: "harisree"
       register: chgrpout

     - name: Install Dependencies with NPM install command
       shell:
          "npm install"
       args:
          chdir: "{{ destdir }}"
       register: npminstlout
```

Step4: Launch the Playbook with Ansible Git



Step5: Validate the Deployment



Github Repo(with the sample node js script) :

Github Repo link: https://github.com/sreeharipremkumar/AnsibleLearn