

# Ansible Playbook Exercise

```
ubuntu@ip-172-31-12-226:~$
login as: ubuntu
* Authenticating with public key "Imported-openssh-key"
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.4.0-1045-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Sat Sep 25 13:43:42 UTC 2021

System load:  0.0          Processes:      119
Usage of /:   22.3% of 9.6GB    Users logged in: 1
Memory usage: 38%          IPv4 address for docker0: 172.17.0.1
Swap usage:   0%             IPv4 address for eth0: 172.31.12.226

123 updates can be applied immediately.
57 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

Last login: Sat Sep 25 12:14:40 2021 from 157.48.171.127
ubuntu@ip-172-31-12-226:~$ sudo apt install ansible
Reading package lists... Done
Building dependency tree
Reading state information... Done
ansible is already the newest version (2.9.6+dfsg-1).
0 upgraded, 0 newly installed, 0 to remove and 110 not upgraded.
ubuntu@ip-172-31-12-226:~$ ansible-vault create secrets.yml
New Vault password:
Confirm New Vault password:
ERROR! secrets.yml exists, please use 'edit' instead
ubuntu@ip-172-31-12-226:~$ edit secrets.yml
ubuntu@ip-172-31-12-226:~$ cat secrets.yml
ANSIBLE_VAULT;1.1;AES256
30366638f16431663765343564663261343232306534643561626465373665323362653464343533
3830646536363163336632306465356233383130643536660a306432373331616336623939396530
35363939316130313435343161383265336635616261393739313136633031336339343234633665
3638613835666131620a376536323061633030623134656566663632313564343639623132623464
3666542222363266224406653435616332362646634643563366561333061643032626139
36373038373337313261363563613965326561626237363135323563346333313461666632663236
6634643963632613461623464333066383765393538306438613537356333616431376333346161
3432323232323331303134
ubuntu@ip-172-31-12-226:~$ ansible-vault decrypt secrets.yml
Vault password:
Decryption successful
ubuntu@ip-172-31-12-226:~$ ls
nodejs  secrets.yml
ubuntu@ip-172-31-12-226:~$ edit gitexample.yml
Error: no "edit" mailcap rules found for type "cannot open 'gitexample.yml' (No such file or directory)"
ubuntu@ip-172-31-12-226:~$ notepad gitexample.git
notepad: command not found
```

```
ubuntu@ip-172-31-12-226:~$
ubuntu@ip-172-31-12-226:~$ vim gitexample.yml
ubuntu@ip-172-31-12-226:~$ ansible-playbook gitexample.yml --ask-vault-pass
Vault password:
[WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit localhost does not match 'all'
[WARNING]: Could not match supplied host pattern, ignoring: nodeserver

PLAY [Install and Launch the Simple NodeJS Application] *****
skipping: no hosts matched

PLAY RECAP *****
ubuntu@ip-172-31-12-226:~$ ansible nodeserver -m ping -i ansible_hosts
[WARNING]: Unable to parse /home/ubuntu/ansible_hosts as an inventory source
[WARNING]: No inventory was parsed, only implicit localhost is available
[WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit localhost does not match 'all'
[WARNING]: Could not match supplied host pattern, ignoring: nodeserver
ubuntu@ip-172-31-12-226:~$ ansible-playbook gitexample.yml --ask-vault-pass
Vault password:
[WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit localhost does not match 'all'
[WARNING]: Could not match supplied host pattern, ignoring: nodeserver

PLAY [Install and Launch the Simple NodeJS Application] *****
skipping: no hosts matched

PLAY RECAP *****
ubuntu@ip-172-31-12-226:~$ vim gitexample.yml
ubuntu@ip-172-31-12-226:~$ cat gitexample.yml
---
- name: Install and Launch the Simple NodeJS Application
  hosts: nodeserver
  vars_files:
    - secrets.yml
  vars:
    - destdir: /apps/SampleNodeApp
  tasks:

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

    - 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
```

```
ubuntu@ip-172-31-12-226: ~
- name: Validating the port is open
  tags: nodevalidate
  wait_for:
    host: "localhost"
    port: 5000
    delay: 10
    timeout: 30
    state: started
  msg: "NodeJS server is not running"
ubuntu@ip-172-31-12-226:~$ vim gitexample.yml
ubuntu@ip-172-31-12-226:~$ ansible-playbook gitexample.yml --ask-vault-pass
Vault password:
[WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit localhost does not match 'all'
ubuntu@ip-172-31-12-226:~$ vim gitexample.yml
ubuntu@ip-172-31-12-226:~$ ansible-playbook gitexample.yml --ask-vault-pass
Vault password:
[WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit localhost does not match 'all'

PLAY [Install and Launch the Simple NodeJS Application] *****

TASK [Gathering Facts] *****
ok: [localhost]

TASK [install Node and NPM] *****
changed: [localhost]

TASK [Validate the nodejs installation] *****
ok: [localhost] => {
  "msg": "Installation of node is Successfull"
}

TASK [Version of Node and NPM] *****
changed: [localhost]

TASK [Version Info] *****
ok: [localhost] => {
  "msg": "Version info ['7.24.0', 'v16.10.0']"
}

TASK [Download the NodeJS code from the GitRepo] *****
fatal: [localhost]: FAILED! => {"changed": false, "cmd": "cd /tmp && git clone --origin origin 'https://localhost:5000/*****@github.com:AKSarav/SampleNodeApp.git' /apps/SampleNodeApp", "msg": "Cloning into '/apps/SampleNodeApp'...\nremote: Repository not found.\nfatal: repository 'https://github.com:AKSarav/SampleNodeApp.git/' not found", "rc": 128, "stderr": "Cloning into '/apps/SampleNodeApp'...\nremote: Repository not found.\nfatal: repository 'https://github.com:AKSarav/SampleNodeApp.git/' not found\n", "stdout": "", "stderr_lines": ["Cloning into '/apps/SampleNodeApp'...", "remote: Repository not found.", "fatal: repository 'https://github.com:AKSarav/SampleNodeApp.git/' not found"], "stdout_lines": []}

PLAY RECAP *****
localhost: ok=5 changed=2 unreachable=0 failed=1 skipped=0 rescued=0 ignored=0

ubuntu@ip-172-31-12-226:~$ node -v
v16.10.0
ubuntu@ip-172-31-12-226:~$
```