**Lab: Clone Private Git Repository Using Ansible**

**1. Fork the Repository**

1. Go to the original repo URL:  
   https://github.com/amitopenwriteup/linuxtraining
2. Click on **Fork** (top-right corner of GitHub page).
3. After forking, you will get your own copy at:  
   git@github.com:<your-username>/linuxtraining.git

**2. Generate SSH Key (if not already)**

On your Ansible control machine:

ssh-keygen -t rsa -b 2048

This will generate:

* ~/.ssh/id\_rsa\_ansible (private key)
* ~/.ssh/id\_rsa\_ansible.pub (public key)

**3. Add SSH Key to GitHub**

1. Open your public key:
2. cat ~/.ssh/id\_rsa\_ansible.pub
3. Go to **GitHub > Settings > SSH and GPG keys > New SSH key**
   * Title: ansible-lab-key
   * Paste the key content.
4. **Copy Private Key**

mkdir ssh

cp ~/.ssh/id\_rsa\_ansible ssh/id\_rsa

chmod 600 ssh/id\_rsa

**6. File: inventory**

[all]

localhost ansible\_connection=local

**7. File: clone\_git\_repo.yaml**

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- name: Create directory and clone Git repo

hosts: all

become: true

vars:

repo\_url: "git@github.com:<your-username>/linuxtraining.git"

repo\_dest: "/opt/myrepo"

tasks:

- name: Ensure git is installed

apt:

name: git

state: present

- name: Ensure repo directory exists

file:

path: "{{ repo\_dest }}"

state: directory

owner: "{{ ansible\_user | default('amit') }}"

mode: '0755'

- name: Copy SSH key to target

copy:

src: ssh/id\_rsa

dest: /tmp/id\_rsa

mode: '0600'

- name: Clone repo using SSH key

environment:

GIT\_SSH\_COMMAND: "ssh -o StrictHostKeyChecking=no -i /tmp/id\_rsa"

git:

repo: "{{ repo\_url }}"

dest: "{{ repo\_dest }}"

version: main

force: yes

Replace <your-username> in repo\_url with your actual GitHub username.

**8. Run the Playbook**

ansible-playbook -i inventory.ini clone\_git\_repo.yaml

**9. Validate**

ls /opt/myrepo