

ANSIBLE ANSWERS

1. Write an ansible playbook to install git, maven & java1.8

Ans:

```
---
- hosts: test
  connection: ssh

  tasks:
    - name: install git
      action: yum name=git state=present

    - name: install java1.8.0
      yum: name=java-1.8.0-openjdk state=present

    - name: install java11
      command: amazon-linux-extras install java-openjdk11 -y
```

2. Write an ansible playbook using when condition

Ans:

```
--- # CONDITIONS
- hosts: remo
  user: ansible
  become: yes
  connection: ssh
  tasks:
    - name: Install apache server for debian family
      command: apt-get-y install apache2
      when: ansible_os_family== "Debian"
    - name: install apache server for redhat family
      command: yum install httpd -y
      when: ansible_os_family== "RedHat"
```

3. Write an ansible playbook to setup tomcat

Ans:

```

--
- hosts: ops
  connection: ssh

  tasks:
    - name: gettling link
      get_url:
        url: https://dlcdn.apache.org/tomcat/tomcat-9/v9.0.71/bin/apache-tomcat-9.0.71.tar.gz
        dest: "/root/"

    - name: untar file
      command: tar -zxvf apache-tomcat-9.0.71.tar.gz

    - name: rename the file
      command: mv apache-tomcat-9.0.71 tomcat

    - name: javall
      command: amazon-linux-extras install java-openjdk11 -y

    - name: context.xml file
      template:
        src: context.xml
        dest: "/root/tomcat/webapps/manager/META-INF/context.xml"

    - name: add credits
      template:
        src: tomcat-users.xml
        dest: "/root/tomcat/conf/tomcat-users.xml"

    - name: start tomcat
      shell: nohup ./tomcat/bin/startup.sh

```

4. Write the following ad-hoc commands

- To create a file : `ansible all -a "touch file1"`
- To copy a file : `ansible all -b -m copy -a "src=filename dest=/tmp"`
- To install tree package : `ansible all -b -m yum -a "pkg=tree state=present"`
- To check webserver : `ansible all -a "systemctl status httpd"`
- To start webserver : `ansible remo -b -m service -a "name=httpd state=started"`

5. What is ansible vault and write its commands

Ans:

Ansible Vault:

Ansible Vault is a feature of the Ansible automation tool that is used to securely encrypt sensitive data, such as passwords, API keys, and other secrets, so that they can be safely stored and shared within Ansible playbooks and roles.

USE CASES:

- Encryption
- Secure Storage
- Password Prompt
- Automation
- Secrets Management

COMMANDS FOR ANSIBLE PASSWORD

- `ansible-vault create vault.yml` : creating a new encrypted playbook.
- `ansible-vault edit vault.yml` : Edit the encrypted playbook.
- `ansible-vault rekey vault.yml` : To edit the password.
- `ansible-vault view vault.yml` : To view the playbook without decrypt.
- `ansible-vault encrypt vault.yml` : To encrypt the existing playbook.
- `ansible-vault decrypt vault.yml` : To decrypt the encrypted playbook.

