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## *DevOps Engineer Diploma*



DevOps

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## **DevOps Engineer Diploma**



### **Ansible Labs** **Lab 07**

## **Ansible Role for Apache Web Server Installation**

### **### Lab Objectives**

- Creating and Managing Ansible Roles
- Defining and Organizing Tasks within Ansible Roles
- Using Handlers for Service Management
- Creating and Using Templates in Ansible
- Deploying Apache Web Server Using Ansible Playbooks
- Verifying the Configuration of Apache Web Server

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### Step 1 — Create the Role Skeleton

```
ansible/
├─ site.yml
└─ roles/
    └─ apache/
        ├── tasks/
        │   └─ main.yml
        ├── handlers/
        │   └─ main.yml
        ├── templates/
        │   └─ index.html.j2
```

- Run the command to create the role skeleton:
- `ansible-galaxy init roles/apache`

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### Step 2 — Define Main Tasks

- Define the necessary tasks to install and configure the Apache Web Server.

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### Step 3 — Define the Handler

- Define a handler for restarting or reloading the Apache service as needed.

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### Step 4 — Create a Simple Template

- Create a template for the Apache Web Server's welcome page:
  - Path: `roles/apache/templates/index.html.j2`

#### Template content:

```
<html>
<head>
<title>Welcome Page</title>
</head>
<body>
```

```
<h1>Welcome to {{ ansible_hostname }} web server!</h1>
<p>Deployed automatically using Ansible Role: Apache</p>
</body>
</html>
```

### Step 5 — Main Playbook

- Create and execute the main playbook:
  - Run the playbook from the main project directory:
  - `cd ~/Desktop/ansible`  
`ansible-playbook site.yml`

**You are Welcome**