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**عمارة 4 - شارع محمد توفيق دياب - عباس العقاد - مدينة نصر - الدورال 1**

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## *DevOps Engineer Diploma*

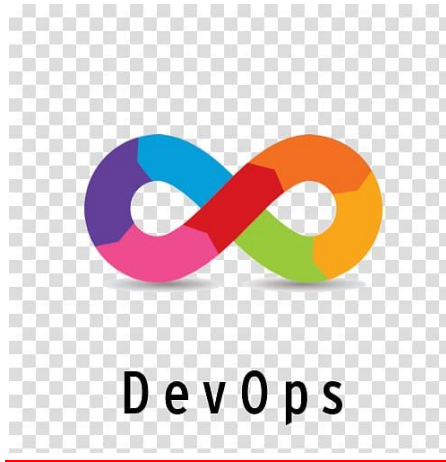


DevOps

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## **DevOps Engineer Diploma**



### **Ansible Labs** **Lab 06**

## **Ansible AD-HOC Commands and Playbook for Package Management**

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

- Working with Ansible AD-HOC Commands
- Managing Packages on Hosts Using Ansible
- Automating Software Installation and Removal
- Using Variables and Loops in Playbooks
- Managing Services and Command Execution in Ansible
- Performing Version Checks and Storing Results

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## Part 1 — Ansible AD-HOC Commands Lab

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1. **Check Connectivity**
    - Use the **ping module** to check connectivity to all hosts.
  2. **Package Installation**
    - Install **nginx** on all hosts using the **package module**.
  3. **Verify Installation**
    - Verify the installation of **nginx**.
  4. **Remove Package**
    - Remove **nginx** on all hosts.
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## Part 2 — Playbook Explanation — Package Management with Variables

This playbook demonstrates:

- Using **variables** in Ansible
  - Managing **software packages**
  - Using **loops** to install multiple tools
  - Handling **services** and **command execution**
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### Requirements:

1. Define a **playbook** that targets **all hosts**.
2. Enable **privilege escalation** (`become: yes`).
3. Define the following **variables**:
  - **web\_package**: holds the main package name.
  - **tools**: a list containing multiple package names.
4. Use the **package module** to:
  - Remove the main package defined in **web\_package**.
  - Install all packages defined in **tools** using a loop.
5. Use the **service module** to:
  - Start and enable the service related to **web\_package**.
6. Use the **command module** to:
  - Run a command that checks the **version** of the **web\_package**.
  - Store the result in a variable.

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