**Ansible Zero to Hero**

Day 1: Introduction to Ansible and Getting Started

* Overview of Ansible: What is Ansible, its advantages, and why use it?
* Comparison with Shell and Python scripting for automation.
* Installing Ansible on different platforms.
* IDE(VS Code) and Plugin configuration.

Day 2: Ansible Adhoc Commands

* Passwordless Authentication
* Ansible Inventory
* Understanding Adhoc commands and their usage.
* Examples of common Adhoc commands for system management tasks.
* Exploring the power of Adhoc commands for quick tasks.

Day 3: Writing Your First Ansible Playbook

* Setting up Ansible configuration (including passwordless SSH setup).
* Writing a simple playbook to automate a basic task.
* Introduction to Ansible structure: Inventory, Playbook, and Tasks.
* Hands-on: Writing a playbook to install Nginx on target servers.

Day 4: Understanding Ansible Roles

* What are Ansible roles and why use them?
* Exploring the folder structure of Ansible roles.
* Comparing roles with playbooks and understanding their advantages.
* Hands-on: Creating a simple role and using it in a playbook.

Day 5: Deep Dive into Ansible Roles

* Advanced usage of Ansible roles with a practical example project.
* Ansible Galaxy - Exploring pre-built Ansible roles.
* Incorporating all the concepts learned so far into a complex project.
* Best practices for organizing roles and playbook structure.

Day 6: Ansible Variables and Precedence

* Understanding Ansible variables and their scope.
* Jinja2 Templating - Utilizing advanced templating features.
* Variable precedence: How Ansible resolves conflicts between different variable sources.
* Hands-on: Using variables in playbooks and roles.

Day 7: Ansible Conditionals and Loops

* Using conditionals in Ansible to control task execution.
* Implementing loops for repetitive tasks.
* Practical examples of conditionals and loops in playbooks.

Day 8: Error Handling in Ansible

* Dealing with errors and failures in Ansible playbooks.
* Error handling techniques and best practices.
* Demonstrating error handling in practical scenarios.

Day 9: Ansible Vault for Security

* Understanding Ansible Vault and its role in securing sensitive data.
* Encrypting and decrypting files using Ansible Vault.
* Best practices for managing secrets and sensitive data in Ansible.

Day 10: Policy as Code

Day 11: Network Automation using Ansible.

Day 12: Ansible Tower Deep Dive

* Understanding Ansible Tower
* Comparison with Ansible command line and adhoc commands
* RBAC and Security with Ansible Tower

Day 13: Advanced Ansible Project

* Terraform + Ansible Project

Day 14: Ansible Interview Questions

**Day – 01**

**Date: 27-05-24**

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