

Ansible

Course Outline

- Introduction to configuration management
 - Usecases for Ansible
 - Ansible features
 - Declarative approach
 - Ansible vs Terraform
 - GitOps
 - Git versioned configuration
 - Ansible Vault
- Basic concept
 - Configuration language
 - Modules
 - Playbooks
 - Variables
 - Tasks
 - Handlers
 - Roles
- Install Ansible
 - Global configuration using ansible.cfg
- Inventories
 - What is inventory
 - Simple inventories
 - YAML inventories
 - Dynamic inventories
 - Integration with Terraform
- Modules
 - What are modules
 - Running modules
 - Basic modules
 - Ping module
 - File module
 - Copy module
 - Setup module, and more ...
- Playbooks
 - What are playbooks
 - Writing own playbooks
 - Nginx Webserver example
- Templates
 - Introduction to Jinja2
 - Template files

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- Inline templates
- Template variables
- Conditions (IF)
- Loops (FOR)
- Ansible Facts
 - What are facts
 - Gathering facts
 - Facts as variables
- Ansible Vault
 - Encrypted inline strings
 - Encrypted files
- Docker example
- Roles
 - Concept of roles
 - Role (directory) structure
 - Writing own roles
 - Roles on Ansible Galaxy
- AWX
 - Concept of AWX (Tower) Automation
 - Installation of AWX
 - AWX features
 - Jobs
 - Projects
 - Credentials
 - AWX Configuration & Terraform