Ondrej Sika DevOps

Course

DevOps Ansible

Course Outline

- Introduction co configuration management
    - Usecases for Ansible
    - Ansible features
    - Declarative approach
        - Ansible vs Terraform
    - GitOps
        - Git versioned configuration
    - Ansible Vault
- Basic concept
    - Configuration langue
    - 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