INFOSOFT IT SOLUTIONS

Training | Projects | Placements

Revathi Apartments, Ameerpet, 1st Floor, Opposite Annapurna Block, Info

soft it solutions Software Training& Development 905968394,918254087

ANSIBLE TOWER

Introduction to Ansible Tower

- Overview of Ansible Tower and its role in IT automation
- Benefits of using Ansible Tower in enterprise environments
- Understanding Ansible Tower architecture and components

Installing and Configuring Ansible Tower

- System requirements and prerequisites for Ansible Tower installation
- Installation methods (single node, clustered) and setup procedures
- Configuring Ansible Tower settings, including SSL and database configuration

Ansible Tower Projects and Inventories

- Managing Ansible projects in Tower
- Integrating version control systems (Git, SVN) with Tower projects
- Organizing and managing inventories for host management

Job Templates and Workflows

- Creating and managing job templates for playbook execution
- Configuring job workflows and dependencies
- Using surveys for user input and dynamic playbook execution

Role-Based Access Control (RBAC)

- Implementing RBAC policies in Ansible Tower
- Managing users, teams, and organizations
- Integrating with LDAP/Active Directory for authentication

Ansible Tower CLI and API

- Using Ansible Tower CLI for automation and scripting
- Interacting with Ansible Tower API for integration with other tools and workflows
- Automating Tower operations with Ansible playbooks

Monitoring and Logging in Ansible Tower

- Monitoring job status and execution logs
- Setting up notifications and event-driven automation
- Configuring logging and auditing for compliance requirements

Scaling and High Availability

- Scaling Ansible Tower for large environments
- Configuring high availability (HA) for Ansible Tower
- Disaster recovery planning and strategies

Ansible Tower Tower AWX

- Understanding the relationship between Ansible Tower and AWX
- Migration strategies and considerations from AWX to Ansible Tower
- Using AWX as an open-source alternative to Ansible Tower

Ansible Tower Architecture and Deployment Strategies

- Deep dive into Ansible Tower architecture components (web UI, REST API, job engine)
- Advanced deployment strategies: high availability (HA), disaster recovery (DR), and scalability considerations
- Performance tuning and optimization techniques for large-scale deployments

Customizing Ansible Tower Workflows

- Advanced workflow design using job templates and workflow templates
- Configuring dependencies and workflow triggers for complex automation sequences
- Implementing conditional logic and dynamic inventory management in workflows

Extending Ansible Tower Functionality with Custom Scripts and Hooks

- Writing custom scripts and hook integrations for pre- and post-job execution tasks
- Using Ansible callbacks and custom notifications for workflow automation

Ansible Tower Automation and Integration

- Advanced usage of Ansible Tower CLI and API for automation and orchestration
- Integration with CI/CD pipelines (e.g., Jenkins, GitLab CI) for continuous integration and delivery
- Implementing Ansible Tower with infrastructure-as-code tools (Terraform, CloudFormation)

Security and Compliance in Ansible Tower

- Implementing advanced security controls in Ansible Tower (RBAC, LDAP integration, multi-factor authentication)
- Compliance auditing and reporting using Ansible Tower logs and monitoring tools
- Best practices for securing sensitive data in Ansible Tower environments

Advanced Troubleshooting and Performance Monitoring

- Advanced troubleshooting techniques for Ansible Tower job failures and performance issues
- Utilizing Ansible Tower logs (job execution, system logs) and metrics for performance monitoring
- Analyzing and optimizing Ansible Tower database and job engine performance