



2 ay / 32 Saat

Linux engineering (RHCE)

Yoxlama imtahanları

Labaratoriya & Praktika əsaslı təlim

Beynəlxalq sertifikatlı təlimçi

Beynəlxalq standartlara uyğun proqram

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PROQRAM

Module 1. Introduction to Ansible:

Lesson 1 - Installing Ansible

- Understanding Ansible
- Host Requirements
- Installing Ansible on the Control Node
- Preparing Managed Nodes
- Verifying Ansible Installation

Lab: Installing Ansible

Lab Solution

Lesson 2 - Setting up a Managed Environment

- Setting up Static Inventory
 - Understanding Dynamic Inventory
 - Understanding Ansible Configuration Files
 - Managing Ansible Configuration Files

Lab: Setting up an Ansible Managed Environment

Lab Solution

Lesson 3 - Using Ad Hoc Commands

- Using Ad Hoc Commands
- Understanding Ansible Modules
- Using ansible-doc to get Module Documentation
- Introduction Essential Ansible Modules

Lab: Using Ad Hoc Command

Lab Solution

Lesson 4 - Getting Started with Playbooks

- Using YAML to Write Playbooks
- Verifying Playbook Syntax
- Writing Multiple-Play Playbooks

Lab: Getting Started with Playbooks

Lab Solution

Lesson 5 - Working with Variables and Facts

- Understanding Variables
- Using Variables
- Understanding Variable Precedence
- Managing Host Variables
- Using Multi-valued Variables
- Using Ansible Vault
- Working with Facts
- Creating Custom Facts

Lab: Working with Variables and Facts

Lab Solution

Module 2. Using Advanced Ansible solution:

Lesson 6 - Using Task Control

- Using Loops and Items
- Using Register Variables with Loops
- Using when to Run Tasks Conditionally
- Testing Multiple Conditions
- Using Handlers
- Using Blocks
- Dealing with Failures

Lab: Using Task Control

Lab Solution

Lesson 7 - Deploying Files

- Using Modules to Manipulate Files
- Managing SELinux File Content
- Using Jinja2 Templates
- Using Control Structures in Jinja2

Lab: Deploying Files with Templates

Lab Solution

Lesson 8 - Using Ansible Roles

- Understanding Directory Structure Best Practices
- Understanding Ansible Roles
- Using Ansible Galaxy for Standard Roles
- Using the Ansible Galaxy Command Line Tools
- Creating Custom Roles
- Managing Order of Execution
- Understanding RHEL System Roles

Lab: Using Ansible Roles

Lab Solution

Lesson 9 - Using RHEL System Roles

- Understanding RHEL system Roles
- Installing RHEL System Roles
- Using the RHEL SELinux System Role
- Using the RHEL TimeSync System Role

Lab: Using RHEL System Roles

Lab Solution

Lesson 10 - Using Ansible in Large Environment

- Managing Inventory
- Addressing Host Patterns
- Configuring Parallelism
- Organizing Directory Structure

Lab: Using Ansible in Large Environments

Lab Solution

Lesson 11 - Troubleshooting Ansible

- Managing Ansible Logs
- Using the Debug Module
- Using Check Mode
- Using Modules for Troubleshooting and Testing
- Troubleshooting Connection Issues
- Analyzing Playbooks Errors
- Avoiding Errors in Playbooks Best Practices

Lab: Troubleshooting Ansible

Lab Solution

Module 3:

Lesson 12 - Managing Software with Ansible

- Understanding Modules Related to Software Management
- Implementing a Playbook to Manage Software

Lesson 13 - Managing Users

- Understanding Modules Related to User Management
- Implementing a Playbook to Manage Users

Lab: Managing Users

Lab Solution

Lesson 14 - Managing Processes and Tasks

- Understanding Modules for Managing Processes and Tasks
- Implementing a Playbook to Manage Processes and Tasks

Lab: Managing Processes and Tasks

Lab Solution

Lesson 15 - Managing Storage

- Understanding Modules for Managing Storage
- Implementing a Playbook to Manage Storage

Lab: Manage storage

Lab Solution

Lesson 16 - Managing Networking

- Using Network Roles for Network Management
- Understanding Modules for Network Management
- Using Ansible to Manage IPv6

Lab: Managing Network

Lab Solution

Module 4: Sample Labs

Sample labs in the end of lessons