VMware Aria Automation: Install, Configure, Manage [V8.10]

Course Duration: 40 Hours (5 Days)

Overview

The VMware Aria Automation: Install, Configure, Manage [V8.10] course is an extensive training program designed to equip learners with the skills necessary to set up, configure, and manage VMware Aria Automation. This course covers a broad range of topics including the core architecture, installation process, authentication, authorization, initial configurations, template design, and integration with various systems, including NSX and public clouds. By engaging with this VMware Aria training, students will gain an in-depth understanding of Aria VMware functionalities and how it can be utilized to Automate cloud infrastructure and Application deployment across different environments. The course is structured to provide hands-on experience through labs and exercises, ensuring that participants can apply the knowledge in real-world scenarios. This will enable IT professionals to efficiently manage complex cloud environments using VMware Aria Automation, thereby streamlining operations and improving service delivery.

Audience Profile

The VMware Aria Automation: Install, Configure, manage [V8.10] course equips IT professionals to efficiently manage virtualized environments.

- System Administrators and Engineers responsible for managing virtual environments
- IT Professionals seeking to learn about automation in VMware environments
- Cloud Administrators and Architects designing and implementing cloud solutions
- Network Engineers interested in integrating network services with VMware Aria Automation
- DevOps Engineers who want to incorporate infrastructure as code (IaC) into their workflows
- Security Specialists focusing on secure and compliant cloud infrastructure
- Site Reliability Engineers (SREs) working on improving the reliability and performance of cloud services
- Technical Support Staff providing maintenance and troubleshooting for VMware deployments
- IT Managers and Directors planning or overseeing virtualization and cloud strategies
- VMware Certified Professionals looking to update their knowledge on the latest Aria Automation tools
- Architects and Consultants designing and deploying automated, multi-cloud environments

Course Syllabus

Course Introduction

- Introductions and course logistics
- Course objectives

VMware Aria Automation Overview and Architecture

- Describe the purpose and functionality of VMware Aria Automation
- Describe the VMware Aria Automation architecture
- Describe the use of VMware Workspace ONE Access™
- Describe the relationship between Kubernetes clusters, container, and VMware Aria Automation
- services
- Identify the key services offered by VMware Aria Automation

Installing VMware Aria Automation

- List the different VMware Aria Automation deployment types
- Describe the purpose of Easy Installer
- Describe the VMware Aria Automation installation process
- Describe the VMware Aria Automation installation process.

Authentication and Authorization

- Identify the steps to integrating Workspace ONE® with Active Directory
- Describe the features of Workspace ONE
- Describe the user roles available in VMware Aria Automation
- Identify the key tasks performed by each user role
- Define custom roles
- Configure branding and multitenancy

Basic Initial Configuration

- Create a basic configuration with a cloud account, cloud zone, project, flavor mapping, and image
- Mapping

VMware Aria Automation Template

- Configure and deploy a basic VMware Aria Automation template
- Create a VMware Aria Automation template that can run on any cloud
- Use cloudConfig and cloudbase-init to run commands, create users, and install software
- Use YAML for inputs, variables, and conditional deployments

Tags

- Configure tags
- Describe different types of tags

- Manage tags

Storage Configuration

- Configure storage profiles
- Use tags and storage profiles

Integrating NSX With VMware Aria Automation

- List the capabilities and use cases of VMware NSX®
- Describe the NSX architecture and components
- Integrate NSX with VMware Aria Automation
- List the supported network profiles in VMware Aria Automation
- Use the NSX components to design a multitier application with VMware Aria Automation
- Templates
- Identify the network and security options available in design canvas
- Create and manage on-demand networks and security groups
- Configure NSX Day 2 actions

Integrating with Public Clouds

- Configure and use VMware Cloud Foundation™ accounts
- Configure and use an AWS cloud account
- Configure and use an Azure cloud account
- Configure and use a Google Cloud Platform cloud account

Using VMware Aria Automation Consumption

- Release a VMware Aria Automation template
- Define content source and content sharing
- Define VMware Aria Automation policy enforcement
- Use custom forms for catalogue items

VMware Aria Automation Extensibility

- Describe VMware Aria Automation extensibility
- Use event topics
- Create a subscription
- Call a VMware Aria Automation Orchestrator workflow
- Create ABX actions

Using Kubernetes Clusters

- Describe Kubernetes
- Connect to an existing Kubernetes Cluster

Using VMware Aria Automation Config for Configuration Management

- Describe VMware Aria Automation Config
- Use VMware Aria Automation Config for software deployment
- Use VMware Aria Automation Config for configuration management
- Use VMware Aria Automation Config with event-driven orchestration

VMware Aria Automation Troubleshooting and Integration

- Demonstrate how to monitor deployment history
- Demonstrate basic troubleshooting
- Execute CLI commands
- Explain how to Collect logs
- Describe integration with VMware Aria Operations for Logs
- Describe integration with VMware Aria Operations