

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

Course Duration: 40 Hours

Course code: V8.10

1. Course Overview

The VMware Aria Automation: Install, Configure, Manage [V8.10] course trains learners to set up, configure, and manage VMware Aria Automation for cloud infrastructure and application deployment. It covers core architecture, installation, authentication, authorization, template design, and integration with systems like NSX and public clouds. Participants gain hands-on experience through labs and exercises, applying concepts in real-world scenarios. By the end, IT professionals can efficiently automate and manage complex cloud environments, improving operational efficiency and service delivery.

2. What you'll learn?

By the end of the course, you should be able to:

- Describe the architecture and components of VMware Aria Automation
- Install and configure VMware Aria Automation appliances
- Create and manage cloud templates and deployments
- Integrate VMware Aria Automation with VMware Aria Operations and other external systems
- Configure user roles, permissions, and governance policies
- Manage resource allocation and optimize consumption
- Monitor and troubleshoot Aria Automation services
- Apply lifecycle management for workloads
- Automate workflows using VMware Aria Automation Orchestrator

3. Target Audience

Cloud administrators, system engineers, and IT professionals responsible for automating the delivery of infrastructure and applications using VMware Aria Automation.

4. Pre-Requisites

Familiarity with:

- VMware vSphere environments
- Basic networking and storage concepts
- Virtual machine provisioning
- Cloud computing principles

5. Course content

1- Course Introduction

- Introductions and course logistics
- Course objectives

2- 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

3- 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.

4- 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

5- Basic Initial Configuration

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

6- 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

7- Tags

- Configure tags
- Describe different types of tags
- Manage tags

8- Storage Configuration

- Configure storage profiles
- Use tags and storage profiles

9- 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

10- 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

11- 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

12- 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

13- Using Kubernetes Clusters

- Describe Kubernetes
- Connect to an existing Kubernetes Cluster

14- 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

15- 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

