

# VMWARE ARIA AUTOMATION: ADVANCED TOPICS [V8.14] (VAAAT)

Course Code: 821811

This four-day course is a follow-on to the VMware Aria Automation: Install, Configure, Manage course. During this course, you will take a deeper dive into advanced topics using features of VMware Aria Automation such as deploying user systems and interfacing Aria Automation with other platforms. You will also learn how to deploy a cluster environment using VMware Aria Suite Lifecycle and interface with, and use, vSphere with Tanzu Kubernetes. This course makes heavy use of hands-on labs.

## Product Alignment

- VMware vSphere™ 7.0.3, VMware vSphere™ 8.0.1
- VMware Aria Automation™ 8.13
- VMware Aria Suite Lifecycle™ 8.13
- VMware Aria Automation Config™ 8.13
- VMware Aria Automation Orchestrator™ 8.13
- VMware vSphere With Tanzu 8.0 update 2
- VMware NSX Advanced Load Balancer (AVI) 22.1.5

## What You'll Learn

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

- Describe and configure VMware Aria Automation in a clustered enterprise deployment using with VMware Aria Suite Lifecycle
- Scale out VMware Identity Manager to support High Availability
- Use external Certificate Authorities to configure security certificates in VMware Aria Automation
- Create YAML templates to configure VMware Aria Automation using cloudConfig
- Use VMware Aria Automation advanced templates to deploy a 2-tier Database-Server using MySQL and phpMyAdmin
- Use Advanced VMware NSX networking features including NAT, routed networks, load balancers, security groups, and tags
- Integrate and use NSX Advanced Load Balancer with VMware Aria Automation and VMware NSX
- Create and use Aria Automation Pipelines to deploy software and connect to

## Kubernetes

- Create and use Ansible playbooks that integrate with VMware Aria Automation
- Integrate Aria Automation with Terraform
- Integrate Aria Automation with GitLab
- Create Orchestrator Workflows and ABX Actions that interface with other systems and use REST calls
- Configure and use Orchestrator Workflows and ABX actions to create day-2 actions and interface with Powershell scripts
- Use Aria Automation to deploy minions and deploy software

## Who Needs to Attend

Experienced system administrators and system integrators responsible for using VMware Aria Automation in advanced configurations in enterprise deployments.

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VIRTUAL CLASSROOM LIVE

\$6,000 CAD

4 Day

## Virtual Classroom Live Outline

### 1. **Course Introduction**

- Introductions and course logistics
- Course objectives

### 2. **VMware Aria Automation Clustered Deployment**

- Using Aria Suite Lifecycle in a clustered deployment
- Configure External Certificates
- Configure VMware NSX Advanced Load Balancer
- Install VMware Aria Automation using Clustered Deployment
- Scale out VMware Identity Manager to support High Availability

### 3. **Advanced VMware Aria Automation Templates**

- Use advanced YAML and cloudConfig to deploy a functioning 2-tier application with a phpMyAdmin front end server and a MySQL database server
- Use cloudConfig and cloudfund-init
- Use advanced YAML techniques to create configuration files and add users to deployed virtual machines

### 4. **Advanced Networking**

- Use VMware NSX advanced features in VMware Aria Automation templates
- Interfacing to IPAMs
- Use VMware NSX NAT in VMware Aria Automation templates
- Use VMware NSX Routed Networks
- Use VMware NSX Advanced Load Balancer
- Use VMware NSX Security Groups

### 5. **Advanced Orchestrator Workflows**

- Create Day-2 Actions with Orchestrator workflows
- Use Orchestrator to Add computer objects to Active Directory when

- VMware Aria Automation deploys templates
  - Create VMware Aria Automation Custom Resources
  - Create VMware Aria Automation Resource Actions
  - Use VMware Aria Automation with Orchestrator to perform REST calls
- 6. Using ABX Actions**
- Use ABX to create day-2 Actions
  - Create ABX Action-Flows
  - Use ABX to make REST calls
- 7. Kubernetes Integration**
- Describe vSphere With Tanzu
  - Create a Supervisor Cluster
  - Create a Supervisor Namespace
  - Create Cluster Plans
  - Deploy a Tanzu Kubernetes cluster from Aria Automation
  - Manage Kubernetes Tanzu clusters from Aria Automation
  - Execute YAML code and deploy software in a managed Tanzu Kubernetes cluster
  - Connect to an existing generic Kubernetes cluster
  - Create Kubernetes namespaces from Aria Automation
  - Interface Aria Automation to other Kubernetes systems
- 8. Aria Automation Pipelines**
- Create and use CI/CD pipelines
  - Use the Pipeline user interface
  - Add states and tasks to a pipeline
  - Integrate code from a pipeline with Gitlab
  - Use an Aria Automation pipeline to install software
  - Use an Aria Automation Pipeline to Create a Kubernetes Namespace and a Deployment
- 9. Aria Automation and Configuration Management**
- Describe Ansible, Puppet, and Terraform
  - Integrate Ansible with VMware Aria Automation
  - Integrate Terraform with VMware Aria Automation
  - Call Terraform from VMware Aria Automation
  - Use Terraform to manage VMware Aria Automation
  - Deploy an Aria Automation Config minion
  - Install software on an Aria Automation Config minion
  - Create and manage files on a Linux system with Aria Automation Config

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