



Enterprise Computing Solutions - Education Services

## TRAINING OFFERING

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<b>CODE:</b>	<b>LENGTH:</b>	<b>PRICE:</b>
VMW_AAAT814	32 Hours (4 days)	Request Price

## Description

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.

## Objectives

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

## Audience

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

## Prerequisites

This course requires completion of the following courses:

- VMware Aria Automation: Install, Configure, Manage [v8.10]

## Programme

- 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 clou-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

## Session Dates

On request. Please [Contact Us](#)

## Additional Information

[This training is also available as onsite training. Please contact us to find out more.](#)