



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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CODE:	LENGTH:	PRICE:
VMW_AAAT814	32 Hours (4 days)	€1,600.00

Description

This five-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 VMware Aria Suite Lifecycle.
- Configure VMware NSX® Advanced Load Balancer™ to support a clustered VMware Aria Automation deployment.
- Configure security certificates in VMware Aria Automation from external certificate authorities.
- Create and configure advanced VMware Aria Automation templates with complex YAML and cloudConfig.
- Use VMware Aria Automation advanced templates to deploy a two-tier database server using MySQL and phpMyAdmin.
- Use advanced VMware NSX® networking features, including NAT, routed networks, load balancers, security groups, and tags.
- Deploy vSphere with Tanzu.
- Integrate vSphere with Tanzu with VMware Aria Automation.
- Integrate VMware Aria Automation with generic Kubernetes clusters.
- Use VMware Aria Automation to deploy VMware Tanzu® Kubernetes Grid™ clusters
- Create and use VMware Aria Automation Pipelines™ to deploy software and connect to Kubernetes.
- Create and use Ansible playbooks that integrate with VMware Aria Automation.
- Integrate VMware Aria Automation with Terraform.
- Integrate VMware Aria Automation with GitLab.
- Create orchestrator workflows and ABX actions that interface with other systems and use REST calls.
- Configure and use VMware Aria Automation Orchestrator workflows and ABX actions to create day 2 actions and interface with PowerShell scripts.
- Use VMware Aria Automation Config™ 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

1 Deploying VMware Aria Automation in a Clustered Deployment

- Use VMware Aria Suite Lifecycle in a clustered deployment
- Configure external certificates
- Configure NSX Advanced Load Balancer
- Install VMware Workspace ONE® Access™ in a clustered deployment
- Install VMware Aria Automation using a clustered deployment

2 Creating Advanced VMware Aria Automation Templates

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

3 VMware Aria Automation Advanced Networking Templates

- Use advanced NSX features in VMware Aria Automation templates
- Describe how to interface to IPAMs
- Use NSX NAT in VMware Aria Automation templates
- Use NSX routed networks
- Use NSX Advanced Load Balancer
- Use NSX security groups

4 Using VMware Aria Automation Orchestrator Workflows for Extensibility

- 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 Orchestrator to perform REST calls

5 VMware Aria Automation Advanced ABX Actions

- Use ABX to create day 2 actions
- Create ABX action flows
- Use ABX to make REST calls

6 Integrating Kubernetes with VMware Aria Automation

- Describe vSphere with Tanzu
- Create a Supervisor cluster
- Create a Supervisor namespace
- Create Kubernetes zones
- Create cluster plans
- Deploy a Tanzu Kubernetes Grid cluster from VMware Aria Automation
- Manage Tanzu clusters from VMware Aria Automation
- Execute YAML code and deploy software in a managed Tanzu cluster
- Connect to an existing generic Kubernetes cluster
- Create Kubernetes namespaces from VMware Aria Automation
- Interface VMware Aria Automation to other Kubernetes systems

7 VMware Aria Automation Pipelines

- Create and use CI/CD pipelines
- Use the VMware Aria Automation Pipelines UI
- Add states and tasks to a pipeline
- Integrate code from a pipeline with GitLab
- Use a VMware Aria Automation pipeline to install software
- Use a VMware Aria Automation pipeline to create a Kubernetes namespace and a deployment

8 VMware Aria Automation and Configuration Management Tools

- Describe Ansible, Puppet, Terraform, and VMware Aria Automation Config
- 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 a VMware Aria Automation Config minion
- Install software on a VMware Aria Automation Config minion

- Create and manage files on a Linux system with VMware 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.