VMware Aria Automation: Advanced Topics

Durée: 4 Jours   Réf de cours: VMAAAT   Version: 8.14

Résumé:

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

Public visé:

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

Objectifs pédagogiques:

- **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 Kuberenetes

- 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

Pré-requis:

- VMAAICM - VMware Aria Automation: Install Configure Manage

Contenu:

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 cloug-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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Autres moyens pédagogiques et de suivi:

• Compétence du formateur : Les experts qui animent la formation sont des spécialistes des matières abordées et ont au minimum cinq ans