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Course : VMware Aria Automation: Orchestration and Extensibility V8.13 (VRAOE13)

Official VMWare course, exam preparation 2V0-31.23

Practical course - 5d - 35h00 - Ref. VMA

NEW

With this training course, you'll learn how to use VMware Aria Automation Orchestrator™ to extend VMware Aria Automation™. You'll know how to create workflows, ABX actions and deliver XaaS. You'll discover lifecycle scalability, debugging and REST APIs to design custom solutions.

Teaching objectives

At the end of the training, the participant will be able to:

- Describe the features, benefits and integrations of VMware Aria Automation and Orchestrator.
- Explain the role of workflows and content elements in automation.
- Use the Orchestrator client to navigate, import and execute workflows.
- Design, develop and execute reusable custom workflows.
- Use VMware APIs in workflows.
- Integrate Automation and Orchestrator to extend IaaS processes.
- Use XaaS to extend Automation to other systems.
- Use the Event Broker service to trigger specific workflows.

Intended audience

Experienced VMware administrators, automation and orchestration specialists, systems integrators, private cloud administrators and public cloud administrators.

Prerequisites

VMware Aria Automation training (or equivalent), knowledge of VMware vSphere and programming (JavaScript, PowerShell, Python, etc.).

Certification

This course is an additional technical preparation for the [[VMware Aria Automation 8.10 Professional" (2V0-31.23) exam, leading to VCP-CMA certification ("VMware Certified Professional - Cloud Management and Automation").

[Comment passer votre examen ?](#)

Practical details

Teaching methods

Training in French. Official course material in digital format and in English. Good understanding of written English.

Course schedule

1 **Introducing VMware Aria Automation and Orchestrator**

- Define the purpose of VMware Aria Automation.
- Describe the purpose of VMware Aria Automation Orchestrator.
- Describe the main components of VMware Aria Automation.
- Describe the main components of VMware Aria Automation Orchestrator.

2 **Use of schematic elements**

- Describe a scriptable task.
- Exécuter un script polyglotte à partir d'un workflow VMware Aria Automation Orchestrator.
- Execute JavaScript from a VMware Aria Automation Orchestrator workflow.
- Exécuter un workflow VMware Aria Automation Orchestrator à partir d'un workflow VMware Aria Automation Orchestrator.
- Execute an action from a VMware Aria Automation Orchestrator workflow.
- Utiliser les workflows VMware Aria Automation Orchestrator de manière synchrone et asynchrone.

3 **Working with variables**

- Définir les entrées, sorties et variables dans les workflows VMware Aria Automation Orchestrator.
- Link variables in VMware Aria Automation Orchestrator workflows.
- Explain the purpose of linking in VMware Aria Automation Orchestrator workflows.
- Encapsulate VMware Aria Automation Orchestrator workflows.
- Use APIs and the API Explorer.
- Create actions in VMware Aria Automation Orchestrator.
- Use VMware Aria Automation Orchestrator input forms.
- Manage user interactions in VMware Aria Automation Orchestrator.

4 **Exception handling, logging and debugging**

- Identify the exception handling function.
- Manage exceptions in VMware Aria Automation Orchestrator workflows.
- Using logs in VMware Aria Automation Orchestrator workflows.
- Debug VMware Aria Automation Orchestrator workflows.
- Monitor variable values.

5 Connection and looping

- Use the decision element to create branches in VMware Aria Automation Orchestrator workflows.
- Use the switch element to create branches in VMware Aria Automation Orchestrator workflows.
- Using loops in VMware Aria Automation Orchestrator workflows.

6 Use of resources

- Créer et utiliser des éléments de configuration dans VMware Aria Automation Orchestrator.
- Using resources in VMware Aria Automation Orchestrator.
- Create and use packages in VMware Aria Automation Orchestrator.

7 Working with plug-ins

- Explain the features of VMware Aria Automation Orchestrator plug-ins.
- Download and install plug-ins.
- Use the SSH plug-in in VMware Aria Automation Orchestrator.
- Use the REST plug-in in VMware Aria Automation Orchestrator.
- Use the VMware Aria Automation plug-in in VMware Aria Automation Orchestrator.
- Using the PowerShell plug-in in VMware Aria Automation Orchestrator.
- Use dynamic types in VMware Aria Automation Orchestrator;.

8 Working with version control and Git

- Manage version control in VMware Aria Automation Orchestrator.
- Using Git in VMware Aria Automation Orchestrator.

9 Use of time-related diagram elements

- Using scheduling in VMware Aria Automation Orchestrator.
- Using standby in VMware Aria Automation Orchestrator.
- Using wait in VMware Aria Automation Orchestrator.

10 Introduction to scalability

- Overview of VMware Aria Automation scalability.
- Explain the Event Broker service.
- Explain life cycle integration.

11 Using the Event Broker

- Explain the features of the Event Broker service.
- Overview of VMware Aria Automation Event Broker.
- Create VMware Aria Automation subscriptions.
- Échange de données entre VMware Aria Automation et VMware Aria Automation Orchestrator.

12 Using ABX shares

- Overview of action-based scalability (ABX).
- Describe the function as a service (FaaS).
- Differentiate between VMware Aria Automation Orchestrator and ABX.
- Create an ABX action called by a VMware Aria Automation subscription.

(13) Using services, customized resources and actions on resources

- Describe the service broker service.
- Utiliser VMware Aria Automation Orchestrator comme source de contenu dans VMware Aria Automation.
- Create customized resources in VMware Aria Automation.
- Create resource actions in VMware Aria Automation.

(14) Capturing vSphere client code

- Use vSphere Client code capture to generate code in Orchestrator or JavaScript workflows.
- Utiliser le code capturé dans les workflows ou les actions de VMware Aria Automation Orchestrator.