Nutanix Multicloud Automation Administration (NMCAA)

COURSE OVERVIEW

This course teaches you the skills needed to install, configure, operate, and manage Nutanix X-Play and Nutanix Calm (renamed to Nutanix Cloud Manager (NCM) Self-Service).

In this course, you will explore a number of subjects including:

- How to perform codeless task automation using X-Play and its actions gallery, plays, and playbooks
- What Nutanix Calm is, how to install and configure it, and how to use the Marketplace to launch blueprints and runbooks
- How to create single- and multi-VM blueprints, and how to publish them to the Marketplace for consumption
- How to manage an application
- How to identify issues with Nutanix Calm and X-Play

WHO WILL BENEFIT FROM THIS COURSE?

IT administrators who manage Nutanix clusters and want a detailed deep dive into multicloud automation using Nutanix Calm
Anyone pursuing the Nutanix Certified Professional - Multicloud Automation (NCP-MCA) certification

PREREQUISITES

This advanced course requires you to possess a basic Nutanix system administration skill set which includes:

- Familiarity with traditional virtualization storage architectures
- Hands-on experience with the Prism and Command-line interfaces
- An understanding of Nutanix core concepts and definitions, which can be found here

These skills can be acquired by attending one of our basic admin courses (Enterprise Cloud Administration), or through on-the-job experience working on a Nutanix system for at least 6 months.

COURSE OUTLINE

IT Operations Automation Using X-Play

- IT automation with Nutanix
- Task automation using X-Play

Hands-on Labs

- Prism Element and Prism Central Setup
- Creating a Manually Triggered Playbook
- Creating an Alert Triggered Playbook

Application Automation Using Nutanix Calm

- Introduction to Nutanix Calm
- Nutanix Calm Deployment Models
- Installing and Configuring Nutanix Calm
- Working with the Calm Marketplace
- Nutanix Calm Plug-ins

Hands-on Labs

- Enabling Calm
- Creating a Calm Project

Working with Blueprints and Runbooks

- Introduction to Calm Blueprints
- Creating a Single-VM Blueprint
- Creating a Multi-VM Blueprint
- Publishing and Launching a Blueprint
- Using the Marketplace Manager
- Managing Applications
- Working with Endpoints and Runbooks

Hands-on Labs: Single VM Blueprints

- Creating a Single VM Blueprint
- Downloading and Launching a Blueprint
- Publishing a Single VM Blueprint to the Marketplace
- Launching a Blueprint from the Marketplace
- Unpublishing and Deleting a Blueprint
- Importing a Blueprint

Hands-on Labs: Multi VM Blueprints and Runbooks

- Creating a Multi-VM Blueprint
- Creating Services
- Adding Dependencies
- Configuring Day 2 Operations
- Launching the Full LAMP Stack
- Configuring Endpoints
- Configuring and Executing a Runbook

Advanced Calm Actions and Blueprint Management

- Macros
- Scripts
- The Library
- Categories

Identifying Issues with Calm and X-Play

- Identifying Causes of Deployment Failure
- Validating Playbook Configurations
- Log Collection

Hands-on Labs
- Import a Problem Blueprint
- Troubleshoot a Problem Blueprint

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