VMware vRealize Operations for Administrators [V7]

Course Duration: 16 Hours **Course code: V7**

1. Course Overview

This course provides administrators with the skills required to install, configure, and administer VMware vRealize Operations Manager (vROps) 7. Participants will learn how to monitor and optimize VMware vSphere environments, manage capacity and performance, troubleshoot issues, and configure policies. The course also covers dashboards, alerts, reports, and integration with VMware products and third-party solutions.

2. What you'll learn?

By the end of this course, participants will be able to:

- Describe the architecture, features, and capabilities of vRealize Operations Manager
- Install, configure, and navigate vROps user interface
- Use policies to manage workloads and performance
- Monitor health, capacity, and risk of vSphere environments
- Analyze root causes of issues using troubleshooting workflows
- Create and customize dashboards, views, and reports
- Configure alerts and recommendations for proactive management
- Integrate vROps with other VMware products (vSAN, vSphere, vRealize Suite)

3. Target Audience

- vSphere administrators
- System operators and engineers
- Datacenter operators responsible for monitoring and optimizing VMware environments

4. Pre-Requisites

Participants should have:

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- Completion of VMware vSphere: Install, Configure, Manage or equivalent knowledge
- Familiarity with vSphere concepts such as clusters, storage, and networking

5. Course content

Module 1: Course Introduction
Introduction to the course
Learning objectives and outcomes

Module 2: Introduction to vRealize Operations Manager
Overview of vROps architecture
Key features and benefits
Deployment options and sizing considerations
Navigating the vROps user interface

Module 3: vROps Architecture and Concepts
vROps nodes and cluster architecture
Data collection and analytics concepts
Role-based access and user management
Solutions, management packs, and adapters

Module 4: Policies and Workload Optimization
Understanding vROps policies
Creating and applying policies
Automating workload optimization
Performance troubleshooting using policies

Module 5: Performance and Capacity Monitoring
Health, risk, and efficiency badges
Monitoring CPU, memory, storage, and network usage
Capacity planning and reclamation
Forecasting and “what-if” analysis

Module 6: Troubleshooting and Root Cause Analysis
Troubleshooting methodology with vROps
Analyzing issues with dashboards and metrics
Root cause analysis workflows
Case study troubleshooting exercises

Module 7: Dashboards, Views, and Reports
Introduction to dashboards in vROps
Creating and customizing dashboards
Using views and super metrics
Scheduling and exporting reports

Module 8: Alerts and Notifications
Configuring alert definitions and symptoms
Recommendations and actions
Notification methods and integrations
Proactive monitoring strategies

Module 9: Extending and Integrating vROps
vROps management packs and solutions
Integration with vSphere, vSAN, and other VMware tools
Third-party integration capabilities
API and automation options

Module 10: Administration and Maintenance
vROps cluster management
Backup and restore procedures
Upgrading vROps
Best practices for maintenance and scaling

Module 11: Hands-on Labs and Case Studies
Practical exercises with policies, dashboards, and alerts

Real-world capacity optimization use cases
Root cause troubleshooting workshop

Module 12: Course Wrap-Up
Review of key concepts
Additional learning resources
Closing discussion