KOENIG SOLUTIONS · COURSE OUTLINE

RAN201v2.12: SUSE Rancher Prime Deployment and Operations

Learn to deploy, manage and secure Kubernetes clusters at scale using SUSE Rancher Prime.

14
MODULES

42
TOPICS

COURSE OVERVIEW

This course covers SUSE Rancher Prime, including its architecture, packaging and deployment methods, together with the user interface and downstream cluster management through import and provisioning. It addresses user authentication and authorization, application management with Helm and SUSE Application Collection, and continuous delivery with Project Fleet. It also covers monitoring, logging and UI extensions, security scanning and admission policies, command-line and API access, and backup, restore, upgrade and migration of clusters and the Rancher Prime platform itself.

WHO THIS COURSE IS FOR

- **Platform Engineers**
- **System Administrators**
- **DevOps Engineers**
- **Kubernetes Administrators**
- **Cloud Infrastructure Engineers**

LEARNING OBJECTIVES

- Explain SUSE Rancher Prime architecture and packaging
- Deploy SUSE Rancher Prime using supported methods
- Navigate the SUSE Rancher Prime user interface
- Configure downstream cluster management and provisioning
- Apply user authentication and authorization controls
- Manage applications and workloads with Helm
- Implement continuous delivery using Project Fleet
- Configure monitoring, logging and security scanning

COURSE SYLLABUS

14 Modules, 42 Topics

01

Course Introduction

02

Introduction to SUSE Rancher Prime

TOPICS

Introduction to SUSE Rancher · SUSE Rancher Packaging · Rancher Architecture

03

Deploying SUSE Rancher Prime

TOPICS

- Requirements for SUSE Rancher Prime Deployment
- SUSE Rancher Prime Deployment for Testing
- Other SUSE Rancher Deployment Methods

04

SUSE Rancher Prime User Interface

TOPICS

- Accessing the SUSE Rancher Prime User Interface
- Navigating within the SUSE Rancher Prime User Interface
- SUSE Rancher Prime User Interface Branding

05

Downstream Cluster Management

TOPICS

Node and Cluster Agents · Importing an Existing Kubernetes Cluster · Provisioning a Cluster on Existing Nodes · Node and Cluster Drivers · Cluster Provisioning to the Cloud · Cluster API

06

User Authentication and Authorization

TOPICS

User and Group Management · Controlling Authorization with Roles

07

Application Management

TOPICS

Projects and Namespaces · Workload Deployment · Application Management with Helm · SUSE Application Collection · Quotas

08

Continuous Delivery with SUSE Rancher Prime

TOPICS

Project Fleet · Continuous Delivery

09

Monitoring and Logging

TOPICS

Monitoring a Downstream Cluster · Logging on a Downstream Cluster · External Log Output · Introduction to SUSE Observability

10

SUSE Rancher Prime UI Extensions

TOPICS

Introduction to Extensions · Managing Extensions

11

Security with SUSE Rancher Prime

TOPICS

- Security Scanning
- Securing Clusters with SUSE Admission Policy Manager
- Container Security and Vulnerability Scanning with SUSE Security

12

Command Line Access with SUSE Rancher Prime

TOPICS

- Command-Line Access to Rancher and Downstream Clusters
- Using kubectl for Rancher-Managed Downstream Clusters
- Rancher API

13

Backup and Restore with SUSE Rancher Prime

TOPICS

Backups in Rancher Environments · Downstream Cluster Snapshots · Upgrading Downstream Clusters · Restoring Downstream Clusters · Backing up and Restoring SUSE Rancher Prime · SUSE Rancher Prime Migration

14

Upgrading SUSE Rancher Prime

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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