



KR NETWORK CLOUD

LEADING EDGE IT TRAINING



OPENShift TRAINING

EX280

Duration: 32+ Hours

Prerequisite: Understanding of Containers

ACCELERATE YOUR APP DEPLOYMENT WITH
CONFIDENCE - MASTER OPENSIFT TODAY



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Since 2010, KR Network Cloud has been providing top-notch IT training programs to both individuals and corporate clients with a focus on delivering exceptional learning experiences taught by world-class experts. As a trusted education institute, we offer over 250+ IT training programs from leading technology firms such as Cisco, Red Hat, Microsoft, Star Certification, and CompTIA. We incorporate the specialized training content of these vendors with the expertise of our award-winning instructors to ensure the highest standard of training.

KR Network Cloud's training approaches are designed to support the current technology advancements and to help individuals and businesses to implement new and updated business applications. Our extensive curriculum includes use-centered courses and certification-based training programs.

At KR Network Cloud, our goal is to ensure your success. We provide a welcoming and comfortable learning environment with modern facilities and equipment. Our knowledgeable and friendly staff, along with our experienced instructors, are dedicated to providing you with the best classroom or virtual learning experience. Our commitment to your success is reflected in our achievements and certification from our technology partners. Join us and take your IT skills to the next level.

WHY KR NETWORK CLOUD?

KR Network Cloud is a world-class provider of Red Hat training and certification. As a Red Hat Authorized Training Partner, we offer a comprehensive training experience under the guidance of our experienced and certified trainers. Our labs are equipped with the latest technology, and our students will have access to training materials such as notes, videos, and training books.

In addition to providing training and certification, KR Network Cloud also offers a variety of other services and resources to help our students succeed. We provide corporate and industrial training in Delhi, and offer demo sessions, workshops, exhibitions, back-up classes, and practice sessions to ensure that our students are well-prepared for their exams. Our trainers are dedicated to helping our students succeed, and will provide support and guidance throughout the certification process, including exam preparation and interview skills.

At KR Network Cloud, our goal is to provide our students with a comprehensive learning experience that opens up new opportunities for the future. Whether you are interested in online or classroom training, we are here to help. Our commitment to your success is reflected in our friendly staff, knowledgeable teachers, and dynamic classroom settings and equipment. Contact us today to learn more about our Red Hat training programs and certification.



Let's get started with:

WHAT IS

OPENSHIFT ?

OpenShift is a container application platform developed by Red Hat. It is an open-source, cloud-native application platform that allows developers to build, deploy, and manage applications. OpenShift provides a container-based platform that can be used to deploy and manage applications in a variety of environments, including public, private, and hybrid clouds.

OpenShift builds on top of Kubernetes, an open-source container orchestration platform, and adds additional features and capabilities to make it easier for developers to build and deploy applications. OpenShift provides a range of tools and services to help developers build and deploy applications, including a web console, a command-line interface, and APIs. OpenShift uses containers to package applications and their dependencies, allowing applications to be deployed in a consistent and predictable way across different environments. OpenShift provides built-in tools for container image management, continuous integration and delivery, and application scaling.

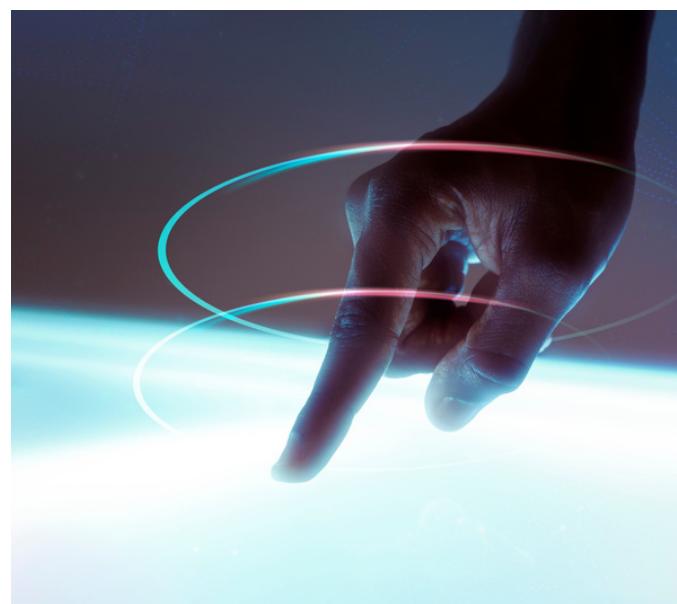
OpenShift is designed to be highly scalable, and can be used to deploy and manage applications across a wide range of deployment scenarios, from small, single-server deployments to large, multi-node clusters. OpenShift provides a range of deployment options, including on-premises deployments, public and private cloud deployments, and hybrid cloud deployments.

Overall, OpenShift is a powerful platform for developers to build, deploy, and manage containerized applications, with a range of features and capabilities that enable them to work more efficiently and effectively.



FEATURES OF OPENSHIFT

- Apps running on Red Hat OpenShift can scale to thousands of instances across hundreds of nodes in seconds.
- Scalability: OpenShift enables applications to scale easily to handle changes in traffic or resource requirements, ensuring that applications can handle increasing levels of user demand.
- Red Hat OpenShift incorporates Open Container Initiative (OCI) containers and Cloud Native Computing Foundation-certified Kubernetes for container orchestration, in addition to other open source technologies.
- Container images built on the OCI industry standard ensure portability between developer workstations and Red Hat OpenShift production environments.
- Red Hat OpenShift offers a comprehensive set of developer tools, multilanguage support, and command line and integrated development environment (IDE) integrations. Features include continuous integration/continuous delivery (CI/CD) pipelines based on Tekton and third-party CI/CD solutions, service mesh, serverless capabilities, and monitoring and logging capabilities.



- Automated installation and over-the-air platform upgrades are supported in cloud with Amazon Web Services, Google Cloud Platform, IBM Cloud, and Microsoft Azure, and on-premise using vSphere, Red Hat OpenStack® Platform, Red Hat Virtualization, or bare metal. Services used from the OperatorHub can be deployed fully configured and are upgradable with 1 click.
- Streamlined and automated container and app builds, deployments, scaling, health management, and more are included.
- Red Hat OpenShift enhances support of smaller-footprint topologies in edge scenarios that include 3-node clusters, single-node Red Hat OpenShift, and remote worker nodes, which better map to varying physical size, connectivity, and availability requirements of different edge sites. The edge use cases are further enhanced with support for Red Hat OpenShift clusters on ARM architecture, commonly used for low-power-consumption devices.
- Red Hat OpenShift with Red Hat Advanced Cluster Management for Kubernetes can easily deploy apps, manage multiple clusters, and enforce policies across clusters at scale.



CERTIFICATIONS :-

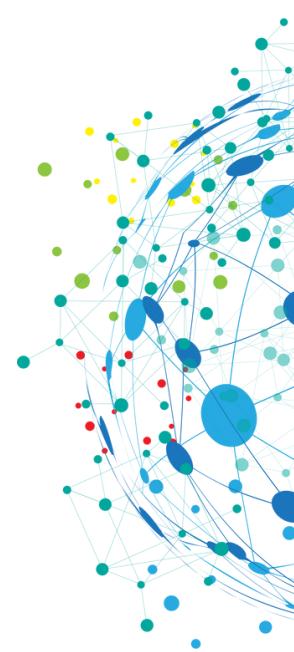
Mr. Ram Prakash Upadhyay

Corporate trainer for
Red Hat Technologies



Primarily skills include delivering training on Red Hat technologies to corporate, solving business challenges using customized open source solutions, deploying, migrating and managing Linux infrastructure, with attention to documentation, standardization, procedures and policies

- Red Hat Certified Architect in Infrastructure Level III
- Red Hat Certified Specialist in High Availability Clustering
- Red Hat Certified Specialist in OpenShift Administration
- Red Hat Certified Specialist in Hybrid Cloud Management
- Red Hat Certified Specialist in Ansible Automation Administration
- Red Hat Certified Engineer
- Red Hat Certified System Administrator in Red Hat OpenStack
- Red Hat Certified System Administrator
- EX436 Red Hat Certified Specialist in High Availability Clustering
- EX280 Red Hat Certified Specialist in OpenShift Administration
- EX220 Red Hat Certified Specialist in Hybrid Cloud Management
- EX276 Red Hat Certificate of Expertise in Containerized Application Development
- EX248 Red Hat Certified JBoss Administrator
- EX407 Red Hat Certified Specialist in Ansible Automation
- EX248 Red Hat Certified JBoss Administrator
- EX236 Red Hat Certified Specialist in Gluster Storage Administration
- EX413 Red Hat Certified Specialist in Server Security and Hardening
- EX318 Red Hat Certified Specialist in Virtualization
- EX210 Red Hat Certified System Administrator in Red Hat OpenStack
- EX200 RHCSA
- EX294 RHCE
- Certified Kubernetes Application Developer
- Docker Certified Associate



COURSE CURRICULUM

Unit 1 Introduction

- Openshift Architecture & Installation
- Lab Setup

Unit 2 Declarative Resource Management

- Resource Manifests
- Guided Exercise: Resource Manifests
- Kustomize Overlays.
- Guided Exercise: Kustomize Overlays
- Lab: Declarative Resource Management.

Unit 3 Deploy Packaged Applications

- OpenShift Templates..
- Guided Exercise: OpenShift Templates
- Helm Charts
- Guided Exercise: Helm Charts
- Lab: Deploy Packaged Applications.

Unit 4 Network Security

- Protect External Traffic with TLS..
- Guided Exercise: Protect External Traffic with TLS.
- Configure Network Policies
- Guided Exercise: Define and Apply Permissions with RBAC

Unit 5 Expose non-HTTP/SNI Applications

- Load Balancer Services
- Guided Exercise: Load Balancer Services
- Multus Secondary Networks
- Guided Exercise: Multus Secondary Networks
- Lab: Expose non-HTTP/SNI Applications.

Unit 6 Enable Developer Self-Service

- Project and Cluster Quotas
- Guided Exercise: Project and Cluster Quotas
- Per-Project Resource Constraints: Limit Ranges
- Guided Exercise: Per-Project Resource Constraints: Limit Ranges.
- The Project Template and the Self-Provisioner Role
- Guided Exercise: The Project Template and the Self-Provisioner Role

Unit 7 Manage Kubernetes Operators

- Kubernetes Operators and the Operator Lifecycle Manager
- Quiz: Kubernetes Operators and the Operator Lifecycle Manager.
- Install Operators with the Web Console
- Guided Exercise: Install Operators with the Web Console.
- Install Operators with the CLI
- Guided Exercise: Install Operators with the CLI
- Lab: Manage Kubernetes Operators
- Summary

COURSE CURRICULUM

Unit 8 Application Security

- Control Application Permissions with Security Context Constraints.
- Guided Exercise: Control Application Permissions with Security Context Constraints.
- Allow Application Access to Kubernetes APIs
- Guided Exercise: Allow Application Access to Kubernetes APIs.
- Cluster and Node Maintenance with Kubernetes Cron Jobs Guided Exercise: Cluster and Node Maintenance with Kubernetes Cron Jobs.
- Lab: Application Security
- Summary

Unit 9 OpenShift Updates

- The Cluster Update Process
- Quiz: The Cluster Update Process
- Detect Deprecated Kubernetes API Usage.
- Quiz: Detect Deprecated Kubernetes API Usage
- Update Operators with the OLM
- Quiz: Update Operators with the OLM
- Quiz: Cluster Update



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Contact KR Network Cloud using any of the following



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Check out the social media to get the latest update



**THANK
YOU**