

Openshift Red Hat

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What is OpenShift?*Red Hat OpenShift overview* ~~Red Hat OpenShift - The Big Idea~~ **Red Hat OpenShift Ecosystem. Deploy any traditional or cloud-native application on Red Hat OpenShift**
DevOps| OpenShift for Beginners - Introduction to OpenShift Introduction to Red Hat OpenShift Container Platform OpenShift Container Platform by RedHat | Kubernetes Made Easy | Tech Primers ~~Why choose Red Hat~~
OpenShift for your cloud native applications? ~~How to attend Red Hat Remote Exam ? Every details you need to know | techbeatly~~ **Red Hat OpenShift Automated legacy app containerization with Red Hat OpenShift** \u0026 ~~Red Hat Application Migration Toolkit Migrating your Red Hat JBoss Enterprise Application Platform Applications into Red Hat OpenShift~~ ~~Openshift versus Kubernetes | Four essential features in four minutes~~
Kubernetes in 5 mins

What is Cloud Native?*Introduction to Openshift [Kube 94]* **Kubernetes with Containerd on Ubuntu using Vagrant** ~~Developer's Demo for Getting Started on OpenShift 4~~ ~~Overview of OpenShift~~ ~~Kubernetes and OpenShift: What's the Difference?~~ **Building and running micro services on OpenShift: Part I** *Operators on OpenShift Container Platform 4.x* *Kubernetes 101 an Introduction to Containers, Kubernetes, and OpenShift* ~~Red Hat OpenShift: Red Hat Enterprise Linux CoreOS~~ *Red Hat OpenShift Container Storage* **Deploying Red Hat OpenShift on Red Hat Virtualization** ~~Introducing the Red Hat OpenShift Container Platform~~ ~~Delivering on-premise cloud with Red Hat OpenShift~~ **Red Hat OpenShift Architecture and Strategy** **Red Hat OpenShift - Much more than Kubernetes** *Openshift Red Hat*
Red Hat OpenShift is an open source container application platform based on the Kubernetes container orchestrator for enterprise app development and deployment in the hybrid cloud Red Hat OpenShift, the open hybrid cloud platform built on Kubernetes

Red Hat OpenShift, the open hybrid cloud platform built on ...

Red Hat® OpenShift® is an enterprise-ready Kubernetes container platform with full-stack automated operations to manage hybrid cloud, multicloud, and edge deployments. Red Hat OpenShift is optimized to improve developer productivity and promote innovation.

Red Hat OpenShift

The Red Hat® OpenShift® on IBM Cloud® container platform has been named the leader for developers and operators in The Forrester Wave: Multicloud Container Development Platforms, Q3 2020 (PDF, 415 KB). Our fully managed OpenShift service leverages the enterprise scale and security of IBM Cloud to help you automate updating, scaling and provisioning.

Red Hat OpenShift on IBM Cloud - Overview | IBM

Azure Red Hat OpenShift provides a flexible, self-service deployment of fully managed OpenShift clusters. Maintain regulatory compliance and focus on your application development, while your master, infrastructure, and application nodes are patched, updated, and monitored by both Microsoft and Red Hat.

Azure Red Hat OpenShift | Microsoft Azure

You can deploy Red Hat OpenShift as a managed service on your preferred cloud provider for a seamless experience on Azure, AWS, IBM Cloud, or Google Cloud. For greater control, choose a self-managed deployment of Red Hat OpenShift on any private or public cloud, on bare metal, or at the edge. Which option is right for you?

OpenShift Products - Red Hat OpenShift

One of the most desired and asked for extensions for the Red Hat OpenShift Monitoring experience is the ability to leverage our monitoring tools and infrastructure to monitor workloads (applications) running in user-defined namespaces. Previously available as technology preview, this feature is now generally available.

Red Hat OpenShift 4.6 Is Now Available

Red Hat OpenShift. Red Hat OpenShift is an open source container application platform based on the Kubernetes container orchestrator for enterprise application development and deployment. About Red Hat Press

Simplify and optimize with Red Hat Ansible ... - OpenShift

Next week, on December 9, Red Hat will be presenting two different talks about the usage of Red Hat OpenShift to run AI/ML workloads. From 12:30 to 1 ET, December 9, Abhinav Joshi, Red Hat's Director of AI Strategy and GTM will be discussing how users can get up to speed quickly with their AI/ML workflow using the open hybrid cloud.

See Red Hat Speak at the Virtual AI Summit New York

Red Hat OpenShift API Management Service is available on the AWS versions of Red Hat OpenShift Dedicated. Red Hat OpenShift Dedicated (OSD) provides a Customer Cloud Subscription (CCS) model that allows Red Hat

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to deploy and manage OpenShift Dedicated into a customer's AWS account. This document outlines the prerequisites, procedures, and ...

Red Hat OpenShift API Management Cloud Resources on ...

Red Hat® OpenShift® uses the power of Operators to run the entire platform in an autonomous fashion while exposing configuration natively through Kubernetes objects, allowing for quick installation and frequent, robust updates.

Operators on Red Hat OpenShift

At KubeCon a few weeks back, Red Hat revealed it's been getting its ducks in a row to take advantage of the move to the edge by building edge computing capabilities into Red Hat Enterprise Linux and the Red Hat OpenShift Kubernetes platform.. Being prepared with the right products and approaches is important, because a lot of money is going to be spent and made on edge deployments.

Red Hat Builds Native Edge Computing Features into RHEL ...

OpenShift is a family of containerization software products developed by Red Hat. Its flagship product is the OpenShift Container Platform — an on-premises platform as a service built around Docker containers orchestrated and managed by Kubernetes on a foundation of Red Hat Enterprise Linux.

OpenShift - Wikipedia

Red Hat OpenShift Container Platform enables rapid application development and deployment, as well as portability of an application across environments. The platform also offers simplified application scaling, administration, and maintenance of adapted or cloud-native applications.

Red Hat OpenShift Administration II: Operating a ...

Register. If you are a new customer, register now for access to product evaluations and purchasing capabilities. Need access to an account? If your company has an existing Red Hat account, your organization administrator can grant you access.

Installing OpenShift Container Platform 4.5 | Red Hat ...

With Red Hat OpenShift on IBM Cloud, you can deploy apps on highly available OpenShift clusters.

Home | Red Hat OpenShift Documentation

WHY RED HAT. What we offer. To ensure the success of every Red Hatter, we offer flexible scheduling, career growth and development opportunities, remote options, health and well-being initiatives, meaningful rewards, and associate recognition programs.

Red Hat Jobs | Opportunities are open

SAP Data Intelligence on Red Hat OpenShift. Learn how to accelerate workflows and automate AI and ML life-cycle management with SAP Data Intelligence on Red Hat OpenShift. CIO Follow us.

SAP Data Intelligence on Red Hat OpenShift | CIO

Red Hat OpenShift I: Containers & Kubernetes (DO180) helps you build core knowledge in managing containers through hands-on experience with containers, Kubernetes, and the Red Hat® OpenShift® Container Platform. These skills are needed for multiple roles, including developers, administrators, and site reliability engineers.

Keen to build web applications for the cloud? Get a quick hands-on introduction to OpenShift, the open source Platform as a Service (PaaS) offering from Red Hat. With this practical guide, you'll learn the steps necessary to build, deploy, and host a complete real-world application on OpenShift without having to slog through long, detailed explanations of the technologies involved. OpenShift enables you to use Docker application containers and the Kubernetes cluster manager to automate the way you create, ship, and run applications. Through the course of the book, you'll learn how to use OpenShift and the Wildfly application server to build and then immediately deploy a Java application online. Learn about OpenShift's core technology, including Docker-based containers and Kubernetes Use a virtual machine with OpenShift installed and configured on your local environment Create and deploy your first application on the OpenShift platform Add language runtime dependencies and connect to a database Trigger an automatic rebuild and redeployment when you push changes to the repository Get a working environment up in minutes with application templates Use commands to check and debug your application Create and build Docker-based images for your application

For many organizations, a big part of DevOps' appeal is software automation using infrastructure-as-code techniques. This book presents developers, architects, and infra-ops engineers with a more practical option. You'll learn how a container-centric approach from OpenShift, Red Hat's cloud-based PaaS, can help your team deliver quality software through a self-service view of IT infrastructure. Three OpenShift experts at Red Hat explain how to configure Docker application containers and the Kubernetes cluster manager with OpenShift's developer- and operational-centric tools. Discover how this infrastructure-agnostic container management platform can help companies navigate the murky area where infrastructure-as-code ends and application automation begins. Get an application-centric view of automation—and understand why it's important Learn patterns and practical examples for managing continuous deployments such as rolling, A/B, blue-green, and canary Implement continuous integration pipelines with OpenShift's Jenkins capability Explore mechanisms for separating and managing configuration

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from static runtime software Learn how to use and customize OpenShift's source-to-image capability Delve into management and operational considerations when working with OpenShift-based application workloads Install a self-contained local version of the OpenShift environment on your computer

Ready to build cloud native applications? Get a hands-on introduction to daily life as a developer crafting code on OpenShift, the open source container application platform from Red Hat. Creating and packaging your apps for deployment on modern distributed systems can be daunting. Too often, adding infrastructure value can complicate development. With this practical guide, you'll learn how to build, deploy, and manage a multitiered application on OpenShift. Authors Joshua Wood and Brian Tannous, principal developer advocates at Red Hat, demonstrate how OpenShift speeds application development. With the Kubernetes container orchestrator at its core, OpenShift simplifies and automates the way you build, ship, and run code. You'll learn how to use OpenShift and the Quarkus Java framework to develop and deploy apps using proven enterprise technologies and practices that you can apply to code in any language. Learn the development cycles for building and deploying on OpenShift, and the tools that drive them Use OpenShift to build, deploy, and manage the ongoing lifecycle of an n-tier application Create a continuous integration and deployment pipeline to build and deploy application source code on OpenShift Automate scaling decisions with metrics and trigger lifecycle events with webhooks

Operators are a way of packaging, deploying, and managing Kubernetes applications. A Kubernetes application doesn't just run on Kubernetes; it's composed and managed in Kubernetes terms. Operators add application-specific operational knowledge to a Kubernetes cluster, making it easier to automate complex, stateful applications and to augment the platform. Operators can coordinate application upgrades seamlessly, react to failures automatically, and streamline repetitive maintenance like backups. Think of Operators as site reliability engineers in software. They work by extending the Kubernetes control plane and API, helping systems integrators, cluster administrators, and application developers reliably deploy and manage key services and components. Using real-world examples, authors Jason Dobies and Joshua Wood demonstrate how to use Operators today and how to create Operators for your applications with the Operator Framework and SDK. Learn how to establish a Kubernetes cluster and deploy an Operator Examine a range of Operators from usage to implementation Explore the three pillars of the Operator Framework: the Operator SDK, the Operator Lifecycle Manager, and Operator Metering Build Operators from the ground up using the Operator SDK Build, package, and run an Operator in development, testing, and production phases Learn how to distribute your Operator for installation on Kubernetes clusters

Get an in-depth tour of OpenShift, the container-based software deployment and management platform from Red Hat that provides a secure multi-tenant environment for the enterprise. This practical guide describes in detail how OpenShift, building on Kubernetes, enables you to automate the way you create, ship, and run applications in a containerized environment. Author Graham Dumpleton provides the knowledge you need to make the best use of the OpenShift container platform to deploy not only your cloud-native applications, but also more traditional stateful applications. Developers and administrators will learn how to run, access, and manage containers in OpenShift, including how to orchestrate them at scale. Build application container images from source and deploy them Implement and extend application image builders Use incremental and chained builds to accelerate build times Automate builds by using a webhook to link OpenShift to a Git repository Add configuration and secrets to the container as project resources Make an application visible outside the OpenShift cluster Manage persistent storage inside an OpenShift container Monitor application health and manage the application lifecycle This book is a perfect follow-up to OpenShift for Developers: A Guide for Impatient Beginners (O'Reilly).

RedHat OpenShift container platform is one of the leading enterprise-grade container orchestration platforms. It is designed for rapid deployment of web applications, databases, and microservices. Categorized as a container orchestration Platform as a Service (PaaS), it is based on open industry standards, such as the Container Runtime Interface - Open (CRI-O) and Kubernetes. OpenShift allow developers to focus on the code, while the platform manages the complex IT operations and processes. Although open-source, community-driven container orchestration platforms are available, such as OKD and Kubernetes, this IBM® Redpaper® publication focuses on Red Hat OpenShift. It describes the basic concepts of OpenShift persistent storage architecture and its integration into IBM Cloud® Paks. The deployment of the IBM block storage CSI driver also is discussed. This publication also describes the concepts, technology and current working practices for installing the Container Storage Interface (CSI) plug-in for Kubernetes to use IBM Enterprise Storage platforms for persistent storage coupled with Red Hat OpenShift Container Platform (OCP). This publication also provides an overview of containers, Kubernetes, and Openshift for context (it is expected that the reader has a working knowledge of these underlying technologies). It also includes architectural examples of the orchestration platform will be given. This paper serves as a guide about how to deploy the CSI driver for block storage by using the DS8000® and Spectrum Virtualize platforms as persistent storage in a Red Hat OpenShift platform. The publication is intended for storage administrators, IT architects, OpenShift technical specialists and anyone who wants to integrate IBM Enterprise storage on OpenShift V4.3/4.4/4.5 on IBM Power, IBM Z®, and x86 systems.

Enterprise developers face several challenges when it comes to building serverless applications, such as integrating applications and building container images from source. With more than 60 practical recipes, this cookbook helps you solve these issues with Knative—the first serverless platform natively designed for Kubernetes. Each recipe contains detailed examples and exercises, along with a discussion of how and why it works. If you have a good understanding of serverless computing and Kubernetes core resources such as deployment, services, routes, and replicas, the recipes in this cookbook show you how to apply Knative in real enterprise application development. Authors Kamesh Sampath and Burr Sutter include chapters on autoscaling, build and eventing, observability, Knative on OpenShift, and more. With this cookbook, you'll learn how to: Efficiently build, deploy, and manage modern serverless workloads Apply Knative in real enterprise scenarios, including advanced eventing Monitor your Knative serverless applications effectively Integrate Knative with CI/CD principles, such as using pipelines for faster, more successful production deployments Deploy a rich ecosystem of enterprise integration patterns and connectors in Apache Camel K as Kubernetes and Knative components

Learn, understand, and apply people-, process-, and technology-related practices to make OpenShift and DevOps adoption a success within your organization.

This IBM® Redpaper publication provides all the necessary steps to successfully install Red Hat OpenShift 4.4 on IBM Z® or LinuxONE servers. It also provides an introduction to OpenShift nodes, Red Hat Enterprise Linux CoreOS, and Ansible. The steps that are described in this paper are taken from the official pages of the Red Hat website. This IBM Redpaper publication was written for IT architects, IT specialists, and others who are interested in installing Red Hat OpenShift on IBM Z.

Summary OpenShift in Action is a full reference to Red Hat OpenShift that breaks down this robust container platform so you can use it day-to-day. Combining Docker and Kubernetes, OpenShift is a powerful platform for cluster management, scaling, and upgrading your enterprise apps. It doesn't matter why you use OpenShift—by the end of this book you'll be able to handle every aspect of it, inside and out! Foreword by Jim Whitehurst, Red Hat.

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Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Containers let you package everything into one neat place, and with Red Hat OpenShift you can build, deploy, and run those packages all in one place! Combining Docker and Kubernetes, OpenShift is a powerful platform for cluster management, scaling, and upgrading your enterprise apps. About the Book OpenShift in Action is a full reference to Red Hat OpenShift that breaks down this robust container platform so you can use it day-to-day. Starting with how to deploy and run your first application, you'll go deep into OpenShift. You'll discover crystal-clear explanations of namespaces, cgroups, and SELinux, learn to prepare a cluster, and even tackle advanced details like software-defined networks and security, with real-world examples you can take to your own work. It doesn't matter why you use OpenShift—by the end of this book you'll be able to handle every aspect of it, inside and out! What's Inside Written by lead OpenShift architects Rock-solid fundamentals of Docker and Kubernetes Keep mission-critical applications up and running Manage persistent storage About the Reader For DevOps engineers and administrators working in a Linux-based distributed environment. About the Authors Jamie Duncan is a cloud solutions architect for Red Hat, focusing on large-scale OpenShift deployments. John Osborne is a principal OpenShift architect for Red Hat. Table of Contents PART 1 - FUNDAMENTALS Getting to know OpenShift Getting started Containers are Linux PART 2 - CLOUD-NATIVE APPLICATIONS Working with services Autoscaling with metrics Continuous integration and continuous deployment PART 3 - STATEFUL APPLICATIONS Creating and managing persistent storage Stateful applications PART 4 - OPERATIONS AND SECURITY Authentication and resource access Networking Security

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