OpenShift Container Platform and Hybrid Cloud Onsite Architecture Workshop for Accenture

Description:

The purpose of this training is to show attendees the benefits, architecture, installation, and operational management of Red Hat's Container Platform OpenShift.
Attendees learn during these four days how to present, design, and architect an OpenShift installation on-premise and install it in different public clouds.

This workshop focuses on Infrastructure but has also part of modern Software development integrated.

This Workshop is suitable for beginners and also for people who already attended a previous version of this workshop or with knowledge about other container orchestration solutions.´
The event is based on a standard offering but tailored to the needs of Accenture

This workshop covers:

- Kubernetes and OpenShift Architecture and best practices
- Installation and Management,
- Backup, Restore and Desaster recovery
- Networking, Storage & Container Runtime Features (CRI-O)
- modern registry implementation (QUAY),
- Virtualization (CNV),
- Observability
- running on different Platforms
  - Bare Metal,
  - Private Cloud,
  - IBM Power,
  - IBM Linux One)
- and how to build a personal "playground".
- It includes also an introduction to Cloud-Native and service mesh development and Red Hats Open Hybrid Cloud solutions.

Prerequisites:

Basic understanding of Linux, containers (Docker / OCI), and networking.
A Red partner account (connect.redhat.com) for homework and hands-on experiences

Expected Results

After attending this workshop, you know how to architect and install an OpenShift environment, and explain CRI-O, Istio, and other "state of the art" tools to manage, observe and meter OpenShift.
Explain the integration of development tools, the options, and how to install applications from other vendors on OpenShift (IBM, SAP, Microsoft….)

Format: 4 Day Face to Face Onsite Workshop:

Cause of the nature of this workshop with integrated Hands-On Sessions this workshop is only available Onsite

AGENDA

Day 1

9:30	Welcome
9:45	Architecture
11:45	Break
12:00	OpenShift I (DO180) P1
13:00	Lunch Break
14:00	OpenShift I (DO180) P2
14:30	Installation
15:30	Break
15:45	OpenShift I (DO180) P3
16:45	Final assessment
17:15	End Day 1

Day 2

9:00	OpenShift Virtualisation
10:00	OPENSHIFT ADMINISTRATION II (DO280) P1
11:00	Break
11:15	OpenShift Security
12:00	Kuberbetes Native with Quarkus
13:00	Lunch Break
14:00	OPENSHIFT ADMINISTRATION II (DO280) P2
15:30	Break
15:30	OPENSHIFT ADMINISTRATION II (DO280) P3
16:45	OPENSHIFT ADMINISTRATION II (DO280) assessment
16:45	End Day 2

Day 3

9:00	Welcome
9:15	Hybrid Cloud Intro
10:00	Adv. Cluster Mgmt
11:00	Break
11:15	GitOps: using Tekton and ArgoCD to build and deploy a complex App
13:00	Lunch Break
14:00	ACM Foundation P1
16:00	BREAK
16:45	ACM Foundation P3 / ASSESSMENT
17:15	End of the Day

Day 4

9:00	Welcome and Conclude
9:15	OpenShift Data Foundation
10:00	High Availab. and Desaster Recovery
11:00	BREAK
11:00	Dev Hands-On: Deploy your own GrumpyCat game (Quarkus)
12:00	Red Hat Quay
13:00	BREAK
14:00	Advanced Container Security OV
14:30	Hands-On Red Hat ACS
16:30	Break
16:45	Conclusion / Next Steps
17:15	End of the Day