



OpenShift Container Plattform Infrastructure Architecture Workshop for IBM Architects

Description:

The purpose of this workshop is to show attendees the benefits, the architecture, the installation and the operational management of Red Hat's Container Platform „OpenShift“

Attendees learn during these two days how to present, design and architect an OpenShift installation on-premise and to install it different public clouds.

The main focus is on the infrastructure of OpenShift there is only very little development in this training.

This WorkShop covers:

Architecture, Installation, Management, Networking, Storage, Container Runtime Features (CRI-O) modern registry implementation (QUAY), Virtualization (CNV), running on different HW Platforms (Power), running different Solutions (IBM Products on OCP)

Prerequisites:

Basic understanding of Linux, containers (Docker), networking,
A notebook with a browser

Expected results

After attending this workshop you know how to architect and install an OpenShift environment, explain CRI-O, Istio and other "state of the art" tools to manage and meter OpenShift.

Explain the integration of development tools, the options and how to install applications from IBM (CloudPak's) and other vendors on OpenShift

OpenShift Architecture Workshop for IBM



Agenda:

Day 1:

13:00	Welcome, Intro
13:30	Red Hat and OpenSource
14:00	OpenShift - the platform for great ideas
15:30	Break
15:45	OpenShift Architecture (OCP 3.11 / 4.x and differences to ICP)
17:00	End Day One

Day 2

9:00	CoreOS and OpenShift 4.x
10:15	Moving on from Docker. The new container framework
11:00	HandsOn "Build a Container with Buildah"
11:30	Break
11:45	Live Demo
12:00	HandsOn OpenShift 4.x „Build an App with OpenShift“
12:30	Lunch Break
13:30	OpenShift Platform Installation (3.11 and 4.x)
15:00	Break
15:15	Istio Service Mesh
15:40	Container Native Virtualisation
16:00	Modern Registry Management (QUAY)
16:30	API Management (3Scale)
17:00	End of Day Two

Day 3

09:00	Running Containerised Workloads on OpenShift (IBM CloudPak, MS, ...)
10:30	Break
10:45	Roadmap what's new, what's coming
12:30	Lunch Break
13:30	How to stay up to date and deliver this workshop locally
15:00	End of Day 3