



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
13:10	Red Hat and OpenSource
13:40	OpenShift - the platform for great ideas
14:50	Break
15:00	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	OpenShift Security
10:15	Break
10:30	Roadmap what's new, what's coming
12:00	End