WORKSHOP GUIDE: MONOLITHS TO MICROSERVICES: APP TRANSFORMATION HANDS-ON WORKSHOP

Introduction

As modern application requirements become more complex, it's apparent that one runtime, one framework, or one architectural style is no longer a feasible strategy. Organizations must figure out how to manage the complexity of distributed app development with diverse technologies, a lack of skilled resources, and siloed processes.

The exercises in this workshop simulate a scenario in which a business with a mission-critical monolithic retail consumer application wants to modernize its business and its software. However, the business cannot afford to spend a lot of time and energy re-architecting the application in one big effort. Instead, they wish to re-platform their existing app to a modern deployment platform (in this case OpenShift), implement DevOps processes to increase speed and efficiency of updates, and then get to work incrementally replacing functionality from the old app with functionality developed using modern techniques like microservices architecture and modern application platforms like JBoss EAP and WildFly Swarm.

What You Will Learn

In this workshop you will learn how to modernize an existing legacy monolithic application by applying microservice architecture principles, using modern lightweight runtimes like WildFly Swarm and Spring Boot, and deploying to container-based infrastructure using OpenShift Container Platform. This combination of architectures and deployment platforms opens up new possibilities for applying DevOps processes to improve the speed of development and deployment.

Labs Details

This lab is split into multiple scenarios, taking you through the process of understanding how you as a developer can most effectively use Red Hat technologies in deploying a monolith to OpenShift, wrapping it with a CI/CD pipeline, developing microservices to start replacing functionality in the monolith, and integrating it all together to form the beginnings of a complete modernization of an existing app.

Additional Online Resources

Lab Instructions - TBD

Included in this USB Thumbdrive

TBD