MONOLITHS TO MICROSERVICES: APP TRANSFORMATION

Hands-on Technical Workshop Overview

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WHAT YOU'VE LEARNED

- Industry trends around enterprise application development
- Red Hat's approach to application modernization
- How to discuss migration and modernization with your customers or managers
- Migrating an existing legacy Java™ EE app to Red Hat JBoss Enterprise Application Platform on OpenShift.
- Using modern frameworks like Spring Boot, Wildfly Swarm, Eclipse Vert.x, and Node.js to implement cloud native microservices and replace monolithic functionality.
- Developing and deploying using Red Hat OpenShift Container Platform, Red Hat OpenShift Application Runtimes, and DevOps processes.
- The benefits and challenges with microservices, including use cases for reactive microservices.
- Preventing and detecting issues in a distributed system.

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NEXT STEPS - SELF LEARNING

- Openshift and Microservices Training

  - https://www.redhat.com/en/services/training/do080-deploying-containerized-applications-technical-overview

  - https://www.redhat.com/en/services/training/do092-developing-cloud-native-applications-microservices-architectures

  - https://www.openshift.com/dedicated/test-drive.html

- Today's Labs – Executing on your own

  - https://github.com/RedHat-Middleware-Workshops/modernize-apps-katacoda/tree/master/docs/cdk-docs/md

- App Modernisation
  - https://developers.redhat.com/products/rhamt/overview/
- OpenShift Developer Introduction
  - https://learn.openshift.com
- Monoliths to Microservices 1 & 2
    https://learn.openshift.com/middleware/
- App Resiliency and Istio.
  - https://learn.openshift.com/servicemesh/
  - https://github.com/VeerMuchandi/istio-on-openshift
  - Good reference for starters
    https://developers.redhat.com/books/introducing-istio-service-mesh-microservices/

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RED HAT LEARNING PATHWAYS

RED HAT TRAINING AND CERTIFICATION: HOW WE DO IT

Multiple ways to fit different learning styles

ON-SITE TRAINING
Private, on-site training and exams delivered at your location, at one of our training centers, or online.

CLASSROOM TRAINING
Train and test in a professional classroom environment led by Red Hat certified instructors.

VIRTUAL TRAINING
Live, instructor-led online training with the same high-quality, hands-on labs you'd find in our classrooms.

ONLINE LEARNING
90 days of access to course content and up to 80 hours of hands-on labs—at your pace, and on your schedule.

RED HAT LEARNING SUBSCRIPTION
One year of access to all of our online learning content (more than 50 courses), high-definition (HD) video courses on select titles, and up to 400 hours of lab time, all from a single service at a low price.

VIDEO CLASSROOM
Interactive "in-classroom" access to Red Hat's most popular courses, presented by experienced instructors and recorded in high definition (HD) video.

INDIVIDUAL EXAMS
Schedule to take an exam at select locations—pick the date and time that work best for you.

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Getting up to speed with Red Hat OpenShift Application Runtimes

- Get to know the basics with Containers -
    a. **DO180**: Introduction to Containers, Kubernetes, and Red Hat OpenShift
       https://www.redhat.com/en/services/training/do180-introduction-containers-kubernetes-red-hat-openshift
    b. **JB183**: Red Hat Application Development I: Programming in Java EE
       https://www.redhat.com/en/services/training/jb183-red-hat-application-development-i-programming-java-ee

- Learn the platform mechanics to design, build and deploy apps
    a. **DO280**: Red Hat OpenShift Administration I
       https://www.redhat.com/en/services/training/do280-red-hat-openshift-administration-i
    b. **DO288**: Red Hat Application Development I: Programming in Java EE
       https://www.redhat.com/en/services/training/do288-red-hat-openshift-development-i-containerizing-applications

- Start building your MicroServices like a Pro using RHOAR -
    a. **JB283**: Red Hat Application Development II: Implementing MicroServices Architectures
       https://www.redhat.com/en/services/training/all-courses-exams
    b. **DO292**: Red Hat OpenShift Development II: Creating MicroServices with Red Hat OpenShift Application Runtimes (RHOAR)
       https://www.redhat.com/en/services/training/all-courses-exams

SPECIAL OFFER FOR ALL ATTENDEES

Purchase any of the suggested classes across any modality: instructor-led, virtual, online self-paced or video classroom and receive the corresponding **Exam for FREE**

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