

Red Hat Certified Specialist in Container and Kubernetes



Online Course

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Red Hat Certified Specialist in Container and Kubernetes

Course Modules

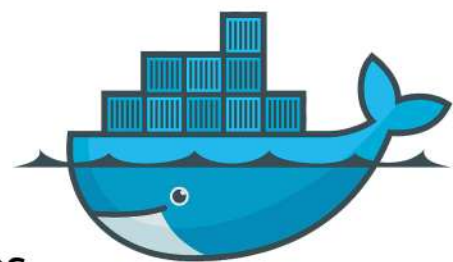


1. Implement Images using Podman

- o Use FROM (the concept of a base image) instruction.
- o Understand and use RUN instruction.
- o Understand and use ADD instruction.
- o Understand and use COPY instruction.
- o Difference between ADD and COPY instructions.
- o Understand and use WORKDIR and USER instructions.
- o Understand security-related topics.
- o Difference & applicability of CMD vs. ENTRYPOINT instructions.
- o Understand ENTRYPOINT instruction with param.
- o Understand when and how to expose ports from a Docker file
- o Understand and use environment variables inside images.
- o Understand ENV instruction.
- o Understand container volume.
- o Mount a host directory as a data volume.
- o Security and permissions requirement related to this approach.
- o Understand lifecycle and cleanup requirement of this approach.

2. Manage Images

- o Understand private registry security.
- o Interact with many different registries.
- o Understand and use image tags.
- o Push and pull images from and to registries.
- o Backup an image with layers & meta data vs. backup a container.



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3. Run Containers locally using Podman

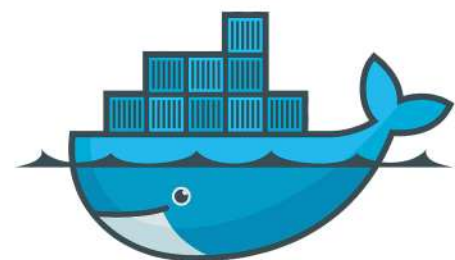
- o Get container logs.
- o Listen to container events on the container host.
- o Use Podman inspect.

4. Creating Applications in OpenShift

- o Basic OpenShift knowledge
- o Create,manage projects a template, source code, an image.
- o Customize catalog template parameters.
- o Specifying environment parameters.
- o Expose public applications.

5. Troubleshoot applications in OpenShift

- o Understand the description of application resources.
- o Get application logs.
- o Inspect running applications.
- o Connecting to containers running in a pod.
- o Copy resources to/from containers running in a pod.



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in terms of time management,
flexibility, and the ability
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