Red Hat Certified Specialist in Containers

Z Zetlan Technologies

Online Course

Course Modules

1. Implement images using Podman

- Understand and use FROM instruction.
- Understand and use RUN instruction.
- Understand and use ADD instruction.
- Understand and use COPY instruction.
- Understand the diff between ADD & COPY instructions.
- Understand and use WORKDIR and USER instructions.
- Understand security-related topics.
- Diff and applicability of CMD vs. ENTRYPOINT instructions.
- Understand ENTRYPOINT instruction with param.
- When and how to expose ports from a Container file.
- Understand and use environment variables inside images.
- Understand ENV instruction.
- Understand container volume.
- Mount a host directory as a data volume.
- Security and permissions reqmt related to this approach.
- Lifecycle and cleanup requirements of this approach.

2. Manage Images

- Understand private registry security.
- Interact with many different registries.
- Understand and use image tags
- Push and pull images from and to registries.
- Back up an image with its layers and meta data vs. backup

3. Run containers locally using Podman

- Run containers locally using Podman
- Get container logs.
- Listen to container events on the container host.
- Use Podman inspect.
- Specifying environment parameters.
- Expose public applications.
- Get application logs.
- Inspect running applications.

4. Run multi-container applications with Podman

- Create application stacks
- Understand container dependencies
- Working with environment variables
- Working with secrets
- Working with volumes
- Working with configuration

5. Troubleshoot containerized applications

- Understand the description of application resources
- Get application logs
- Inspect running applications
- Connecting to running containers

LEARN REMOTELY!!

The efficiency of online learning in terms of time management, flexibility, and the ability to access resources anytime, anywhere can be compelling.

ZETLAN TECHNOLOGIES

www.zetlantech.com

For contact:+91 8680961847
+91 9600579474

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