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RedHat Certified Specialist in Security: Containers and OpenShift Container Platform exam

Study points for the course & exam

To help you prepare, these exam objectives highlight the task areas you can expect to see covered in the exam.

Red Hat reserves the right to add, modify, and remove exam objectives. Such changes will be made public in advance.

- **Understand, identify, and work with containerization features**
 - Deploy a preconfigured application and identify crucial features such as namespaces, SELinux labels, and cgroups
 - Deploy a preconfigured application with security context constraint capabilities and view the application's capability set
 - Configure security context constraints
- **Use trusted registries**
 - Load images into a registry
 - Query images in a registry
- **Work with trusted container images**
 - Identify a trusted container image
 - Sign images
 - View signed images
 - Scan images
 - Load signed images into a registry



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- **Build secure container images**
 - Perform simple S2I builds
 - Implement S2I build hooks
 - Automate builds using Jenkins
 - Automate scanning and code validations as part of the build process
- **Control access to OpenShift Container Platform clusters**
 - Configure users with different permission levels, access, and bindings
 - Configure OpenShift Container Platform to use Red Hat Identity Management services (IdM) for authentication
 - Query users and groups in IdM
 - Log into OpenShift Container Platform using an IdM managed account
- **Configure single sign-on (SSO)**
 - Install SSO authentication
 - Configure OpenShift Container Platform to use SSO
 - Integrate web applications with SSO
- **Automate policy-based deployments**
 - Configure policies to control the use of images and registries
 - Use secrets to provide access to external registries
 - Automatically pull and use images from a registry
 - Use triggers to verify that automated deployments work
- **Manage orchestration**
 - Restrict nodes on which containers may run
 - Use quotas to limit resource utilization
 - Use secrets to automate access to resources
- **Configure network isolation**
 - Create software-defined networks (SDN)
 - Associate containers and projects with SDNs
- **Configure and manage secure container storage**
 - Configure and secure file-based container storage
 - Configure and secure block-based container storage

As with all Red Hat performance-based exams, configurations must persist after reboot without intervention.