Securing Kubernetes Clusters with Red Hat Advanced Cluster Security

Course code: DO430

As of January 2026, only in-person Red Hat training is available for purchase under the original terms. Virtual training (VT) courses are offered exclusively as part of the annual RHLS Course subscription can be found here.How to schedule a virtual course in the Red Hat Learning Subscription can be found here.Address security challenges by applying Red Hat Advanced Cluster Security for Kubernetes in an OpenShift cluster environment.Customers want to learn how Red Hat Advanced Cluster Security for Kubernetes (RHACS) can help them solve their security challenges. However, their security teams might lack experience with Kubernetes and OpenShift, and so they have challenges with implementation. In particular, their security teams have several needs:Integrate RHACS with DevOps practices and know how to use it to automate DevSecOps, to enable their teams to operationalize and secure their supply chain, infrastructure, and workloadsAssess compliance based on industry-standard benchmarks and get remediation guidanceApply vulnerability management, policy enforcement, and network segmentation to secure their workloadsRHACS customers might already be using external image registries and Security Information and Event Management (SIEM) tools. They need to integrate RHACS with their existing set of external components to achieve their security goals.

Who is the course for

- Security practitioners who are responsible for identifying, analyzing, and mitigating security threats within Kubernetes environments
- Infrastructure administrators who are tasked with managing and securing Kubernetes clusters and ensuring that the infrastructure is robust and compliant with security standards
- Platform engineers who follow DevOps and DevSecOps practices, who integrate security into the CI/CD pipeline, to ensure the secure deployment and continuous monitoring of containerized applications

What we teach you

- Describe and implement the RHACS architecture and its components, follow recommended practices for its installation, and troubleshoot common installation issues
- Interpret vulnerability scanning results, generate vulnerability reports, and evaluate risks to prioritize your security actions
- Implement and enforce RHACS policies across all stages of policy enforcement to secure the CI/CD pipeline and to protect the software supply chain
- Identify and close security gaps in network policies by using Network Graph and apply the generated network policies in a CI/CD pipeline
- Run in-built compliance scans, and install and run the compliance operator to determine cluster compliance with security policies and standards and to produce reports and evidence of compliance
- Integrate RHACS with external components to provide additional functions, which include centralized alert notification, backup and restore, and identity and permission management

Required skills

- Take our free assessment
- to gauge whether this offering is the best fit for your skills
- Red Hat OpenShift Administration II: Configuring a Production Cluster | DO280

Course outline

- 1. Installing Red Hat Advanced Cluster Security for Kubernetes
- Describe and implement the RHACS architecture and its components, follow recommended practices for its installation, and troubleshoot common installation issues.
- 2. Vulnerability Management with Red Hat Advanced Cluster Security for Kubernetes
- Interpret vulnerability scanning results, generate vulnerability reports, and evaluate risks to prioritize your security actions.
- 3. Policy Management with Red Hat Advanced Cluster Security for Kubernetes
- Implement and enforce RHACS policies across all stages of policy enforcement to secure the CI/CD pipeline and to protect the software supply chain.

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- 4. Network Segmentation with Red Hat Advanced Cluster Security for Kubernetes
- Identify and close security gaps in network policies by using Network Graph and apply the generated network policies in a CI/CD pipeline.
- 5. Manage Compliance with Industry Standards with Red Hat Advanced Cluster Security for Kubernetes
- Run in-built compliance scans, and install and run the compliance operator to determine cluster compliance with security policies and standards and to produce reports and evidence of compliance.
- 6. Integrate External Components with Red Hat Advanced Cluster Security for Kubernetes
- Integrate RHACS with external components to provide additional functions, which include centralized alert notification, backup and restore, and identity and permission management.

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