# SECURING KUBERNETES CLUSTERS WITH RED HAT ADVANCED CLUSTER SECURITY (DO430)

Course Code: 832022

## DO430 - 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 workloads

Assess compliance based on industry-standard benchmarks and get remediation guidance

Apply vulnerability management, policy enforcement, and network segmentation to secure their workloads

RHACS 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.

Following course completion, you will receive a 45-day extended access to hands-on labs for any course that includes a virtual environment.

Note: This course is offered as a 3-day in-person class, a 4-day virtual class, or is self-paced.

## What You'll Learn

**After completing this course, learners should be able to:**

- 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

## Who Needs to Attend

- 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

## Prerequisites

Recommended :

- Having followed Red Hat OpenShift Administration II: Configuring a Production Cluster (DO280), or demonstrate equivalent Ansible experience

Confirmation of the correct skill set knowledge can be obtained by passing the online skills assessment at Red Hat Skills Assessment

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| VIRTUAL CLASSROOM LIVE | $3,525 USD | 4 Day |

## Virtual Classroom Live 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.
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.

Virtual Classroom Live Labs

- Labs are provided by RedHat for this course

Feb 9 - 11, 2026 | 10:30 AM - 6:30 PM EST

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| ON-DEMAND | $2,996 USD |

## On-Demand 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.
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.

## On-Demand Labs

- Labs are provided by RedHat for this course

Visit us at www.globalknowledge.com or call us at 1-866-716-6688.

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