



# Red Hat Advanced Cluster Security for Kubernetes 3.70

## About

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## Abstract

This document provides an overview of Red Hat Advanced Cluster Security for Kubernetes and the documentation. It includes pointers to common installation tasks, operating procedures, and integration instructions.

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# CHAPTER 1. RED HAT ADVANCED CLUSTER SECURITY FOR KUBERNETES 3.70 DOCUMENTATION

Welcome to the official Red Hat Advanced Cluster Security for Kubernetes documentation, where you can learn about Red Hat Advanced Cluster Security for Kubernetes and start exploring its features.

To navigate the Red Hat Advanced Cluster Security for Kubernetes documentation, you can use one of the following methods:

- Use the left navigation bar to browse the documentation.
- Select the task that interests you from the contents of this Welcome page.

## 1.1. INSTALLATION ACTIVITIES

Explore the following Red Hat Advanced Cluster Security for Kubernetes installation tasks:

- **Installation methods for different platforms** Determine the best installation method for your platform.
- **Installing by using an Operator**: Learn how to install Red Hat Advanced Cluster Security for Kubernetes on OpenShift Container Platform or a Kubernetes cluster by using the Red Hat Advanced Cluster Security for Kubernetes Operator. This is the recommended installation method for most platforms.
- **Installing using Helm charts**: Learn how to install Red Hat Advanced Cluster Security for Kubernetes by using Helm charts. This is the recommended installation method for Amazon Elastic Kubernetes Service (Amazon EKS), Google Kubernetes Engine (Google GKE), and Microsoft Azure Kubernetes Service (Microsoft AKS).
- **Installing by using the roxctl CLI**: Learn how to install Red Hat Advanced Cluster Security for Kubernetes by using the **roxctl** command-line interface (CLI). **roxctl** is a CLI for running commands on Red Hat Advanced Cluster Security for Kubernetes.

## 1.2. OPERATING RED HAT ADVANCED CLUSTER SECURITY FOR KUBERNETES

Explore various activities you can perform by using Red Hat Advanced Cluster Security for Kubernetes:

- **Viewing the dashboard**: Find information about the Red Hat Advanced Cluster Security for Kubernetes real-time interactive dashboard. Learn how to use it to view key metrics from all your hosts, containers, and services.
- **Managing compliance**: Understand how to run automated checks and validate compliance based on industry standards, including CIS, NIST, PCI, and HIPAA.
- **Managing vulnerabilities**: Learn how to identify and prioritize vulnerabilities for remediation.
- **Responding to violations**: Learn how to view policy violations, drill down to the actual cause of the violation, and take corrective actions.

## 1.3. CONFIGURING RED HAT ADVANCED CLUSTER SECURITY FOR KUBERNETES

Explore the following typical configuration tasks in Red Hat Advanced Cluster Security for Kubernetes:

- **Adding custom certificates:** Learn how to use a custom TLS certificate with Red Hat Advanced Cluster Security for Kubernetes. After you set up a certificate, users and API clients do not have to bypass the certificate security warnings.
- **Backing up Red Hat Advanced Cluster Security for Kubernetes** Learn how to perform manual and automated data backups for Red Hat Advanced Cluster Security for Kubernetes and use these backups for data restoration in the case of an infrastructure disaster or corrupt data.
- **Configuring automatic upgrades for secured clusters** Stay up to date by automating the upgrade process for each secured cluster.

## 1.4. INTEGRATING WITH OTHER PRODUCTS

Learn how to integrate Red Hat Advanced Cluster Security for Kubernetes with the following products:

- **Integrating with PagerDuty:** Learn how to integrate with PagerDuty and forward alerts from Red Hat Advanced Cluster Security for Kubernetes to PagerDuty.
- **Integrating with Slack:** Learn how to integrate with Slack and forward alerts from Red Hat Advanced Cluster Security for Kubernetes to Slack.
- **Integrating with Sumo Logic:** Learn how to integrate with Sumo Logic and forward alerts from Red Hat Advanced Cluster Security for Kubernetes to Sumo Logic.
- **Integrating by using the syslog protocol** Learn how to integrate with a security information and event management (SIEM) system or a syslog collector for data retention and security investigations.