



Getting Started

Black Duck SCA 2025.1.1

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Preface

Black Duck documentation

The documentation for Black Duck consists of online help and these documents:

Title	File	Description
Release Notes	release_notes.pdf	Contains information about the new and improved features, resolved issues, and known issues in the current and previous releases.
Installing Black Duck using Docker Swarm	install_swarm.pdf	Contains information about installing and upgrading Black Duck using Docker Swarm.
Installing Black Duck using Kubernetes	install_kubernetes.pdf	Contains information about installing and upgrading Black Duck using Kubernetes.
Installing Black Duck using OpenShift	install_openshift.pdf	Contains information about installing and upgrading Black Duck using OpenShift.
Getting Started	getting_started.pdf	Provides first-time users with information on using Black Duck.
Scanning Best Practices	scanning_best_practices.pdf	Provides best practices for scanning.
Getting Started with the SDK	getting_started_sdk.pdf	Contains overview information and a sample use case.
Report Database	report_db.pdf	Contains information on using the report database.
User Guide	user_guide.pdf	Contains information on using Black Duck's UI.

The installation methods for installing Black Duck software in a Kubernetes or OpenShift environment are Helm. Click the following links to view the documentation.

- [Helm](#) is a package manager for Kubernetes that you can use to install Black Duck. Black Duck supports Helm3 and the minimum version of Kubernetes is 1.13.

Black Duck integration documentation is available on:

- <https://sig-product-docs.blackduck.com/bundle/detect/page/integrations/integrations.html>
- https://documentation.blackduck.com/category/cicd_integrations

Customer support

If you have any problems with the software or the documentation, please contact Black Duck Customer Support:

- Online: <https://community.blackduck.com/s/contactsupport>
- To open a support case, please log in to the Black Duck Community site at <https://community.blackduck.com/s/contactsupport>.
- Another convenient resource available at all times is the [online Community portal](#).

Black Duck Community

The Black Duck Community is our primary online resource for customer support, solutions, and information. The Community allows users to quickly and easily open support cases and monitor progress, learn important product information, search a knowledgebase, and gain insights from other Black Duck customers. The many features included in the Community center around the following collaborative actions:

- **Connect** – Open support cases and monitor their progress, as well as, monitor issues that require Engineering or Product Management assistance
- **Learn** – Insights and best practices from other Black Duck product users to allow you to learn valuable lessons from a diverse group of industry leading companies. In addition, the Customer Hub puts all the latest product news and updates from Black Duck at your fingertips, helping you to better utilize our products and services to maximize the value of open source within your organization.
- **Solve** – Quickly and easily get the answers you're seeking with the access to rich content and product knowledge from Black Duck experts and our Knowledgebase.
- **Share** – Collaborate and connect with Black Duck staff and other customers to crowdsource solutions and share your thoughts on product direction.

[Access the Customer Success Community](#). If you do not have an account or have trouble accessing the system, click [here](#) to get started, or send an email to community.manager@blackduck.com.

Training

Black Duck Customer Education is a one-stop resource for all your Black Duck education needs. It provides you with 24x7 access to online training courses and how-to videos.

New videos and courses are added monthly.

In Black Duck Education, you can:

- Learn at your own pace.
- Review courses as often as you wish.
- Take assessments to test your skills.
- Print certificates of completion to showcase your accomplishments.

Learn more at <https://blackduck.skilljar.com/page/black-duck> or for help with Black Duck, select **Black Duck**

Tutorials from the Help menu () in the Black Duck UI.

Black Duck Statement on Inclusivity and Diversity

Black Duck is committed to creating an inclusive environment where every employee, customer, and partner feels welcomed. We are reviewing and removing exclusionary language from our products and supporting customer-facing collateral. Our effort also includes internal initiatives to remove biased language from our

engineering and working environment, including terms that are embedded in our software and IPs. At the same time, we are working to ensure that our web content and software applications are usable to people of varying abilities. You may still find examples of non-inclusive language in our software or documentation as our IPs implement industry-standard specifications that are currently under review to remove exclusionary language.

Black Duck Security Commitments

As an organization dedicated to protecting and securing our customers' applications, Black Duck is equally committed to our customers' data security and privacy. This statement is meant to provide Black Duck customers and prospects with the latest information about our systems, compliance certifications, processes, and other security-related activities.

This statement is available at: [Security Commitments | Black Duck](#)

1. About Black Duck

Black Duck offers a comprehensive suite of services and tools that support customers on their security journey. From customers just starting with security, to customers strengthening an established program, Black Duck has the expertise, skills, and products necessary for success.



Black Duck, a Software Composition Analysis (SCA) tool, helps with managing the supply chain of software, understanding the third-party components in use and minimizing risks from known vulnerabilities and licensing. Black Duck is a comprehensive solution for supply chain management, based primarily on source analysis.

Using Black Duck, you can:

- Scan your code and identify open source software that exists in your code base.
- View the generated Bill of Materials (BOM) for your software projects.
- View vulnerabilities that have been identified in open source components.
- Assess your security, license, and operational risk.

2. Logging in to Black Duck

Logging in to Black Duck SCA lets you search projects that may be restricted to team members or company employees.

 **Note:** You must have a username and password to access Black Duck. Contact your system administrator if you do not have a username. If Black Duck is configured to use LDAP, you may be able to log in to Black Duck using those credentials.

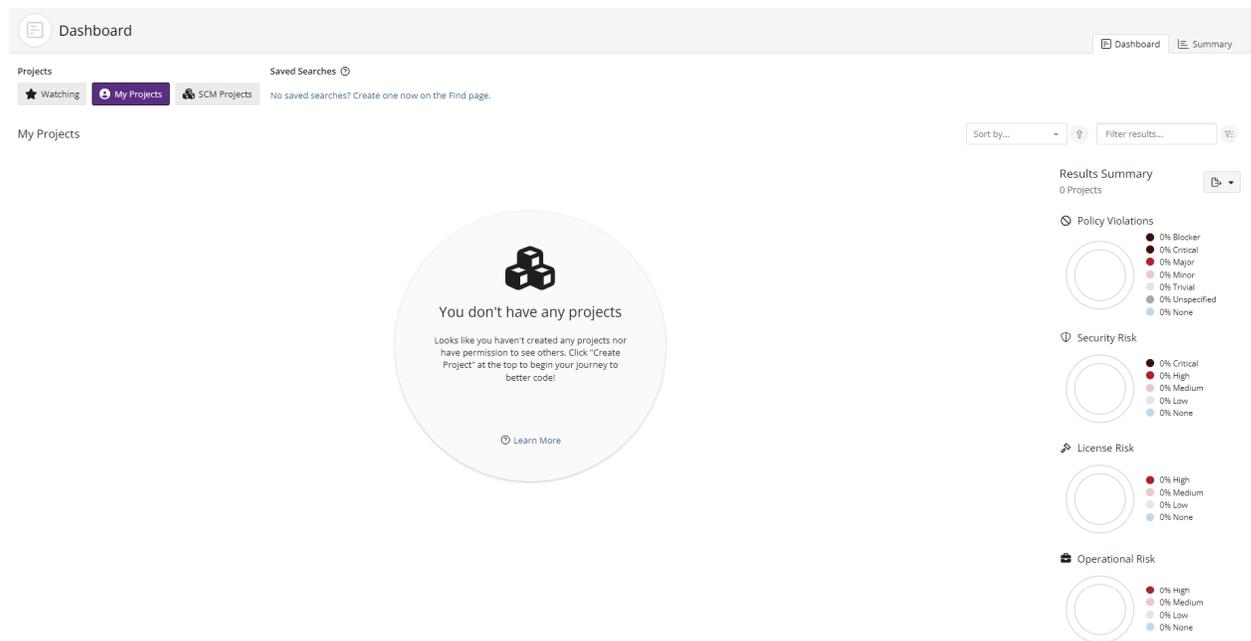
To log in to Black Duck:

1. Using a browser, navigate to the Black Duck URL supplied by your system administrator. Typically the URL is in the format `https://<server hostname>`.
2. Enter the username and password provided by your Black Duck administrator. Your password is case sensitive.

 **Note:** If your administrator has enabled password requirements and your password does not meet the requirements, a dialog box appears notifying you that you must change your password. When updating your password, make sure that it meets the requirements, as listed in the dialog box. You will not be able to log in to Black Duck unless the password meets *all* requirements.

3. Click **Login**.

When you first log in after installing Black Duck, an empty Dashboard page appears. For information to appear in Black Duck, you need to scan your code and map your code to a project, as described in the next chapter.



By default the Dashboard page only shows the **Watching** and **My Projects** dashboards. You can also create custom dashboards so that you can quickly view the project versions or component versions that are important to you: search for projects and/or components and then save the searches. Your saved searches appear on the Dashboard page.

3. Viewing your BOM

Once you have mapped a component scan to a project version, the results automatically create the project version's BOM.

To view a project version's BOM:

1. Log in to Black Duck.
2. Select the project name using the **Watching** or **My Projects** dashboard. The *Project Name* page appears.
3. Select the version name of the project that you want to view. The **Components** tab shows the BOM.

The screenshot shows the Black Duck Project Groups interface for 'Sample Project 1.0.0'. The 'Components' tab is active, displaying a BOM. At the top, there are three risk charts: Security Risk (4 Critical, 3 High, 4 Medium, 0 Low, 17 None), License Risk (6 High, 2 Medium, 0 Low, 20 None), and Operational Risk (24 High, 3 Medium, 0 Low, 1 None). Below these are filters for Snippets (78 Unconfirmed) and Unmatched Components (1 Unmatched). A table of components is shown below, with columns for Component, Source, Match Type, Match Score, Usage, License, Security Risk, and Operational Risk. The table lists four components: AOP Alliance (Java/J2EE AOP standard) 1.0, Apache Commons DBCP 1.2.2, Apache Commons FileUpload 1.3.3, and Apache Commons IO 2.2. Each component has a 100% match score and is dynamically linked. The license for all is Apache-2.0. The Security Risk for the first three is 'None' and for the last is '1'. The Operational Risk for all is 'High'.

Component	Source	Match Type	Match Score	Usage	License	Security Risk	Operational Risk
AOP Alliance (Java/J2EE AOP standard) 1.0	1 Match	Transitive Dependency	100%	Dynamically Linked	Public Domain	None	High
Apache Commons DBCP 1.2.2	1 Match	Direct Dependency	100%	Dynamically Linked	Apache-2.0	None	High
Apache Commons FileUpload 1.3.3	1 Match	Direct Dependency	100%	Dynamically Linked	Apache-2.0	1	High
Apache Commons IO 2.2	1 Match	Transitive Dependency	100%	Dynamically Linked	Apache-2.0	1	High

By default, the BOM displays a "flat" view of components where all components found are listed at the same level.

Adjusting the component and/or component version in a BOM

Once you have mapped a component scan to a project version, the scan results automatically create the project version's BOM. Although component scanning automatically discovers the open source component and component version from most archive files by comparing them to components in Black Duck KB, you may be using a version of the component that is not available in Black Duck KB, or you may be using a modified version of a component. You can adjust the component and version for a component in a BOM.

- If the component/version is available in Black Duck KB, users with the appropriate [role](#) can adjust the component or component version, as described below.
- If the component version of a component is not available in Black Duck KB, users with the [Component Manager role](#) can create a custom version and add it to the BOM.

To select an alternate component and/or version match for a component in a BOM:

1. Log in to Black Duck.

3. Viewing your BOM • Adjusting the component and/or component version in a BOM

2. Select the project name using the **Watching** or **My Projects** dashboard. The *Project Name* page appears.
3. Select the version name to open the **Components** tab and view the BOM.

Black Duck Project Groups
Sample Project 1.0.0

Project Phase: In Development Scans: Up to Date Status: Up to Date Last Updated: 10:21 AM

Components Security Source Reports Details Legal Settings

Security Risk
Number of Components
Critical 4
High 3
Medium 4
Low 0
None 17

License Risk
Number of Components
High 6
Medium 2
Low 0
None 20

Operational Risk
Number of Components
High 24
Medium 3
Low 0
None 1

Snippets
78 Unconfirmed
Unmatched Components
1 Unmatched

Print Add Bulk Actions Compare to... Ignore Not Ignored Snippet Match Status Confirmed Match Ignore Not Ignored Filter

Component	Source	Match Type	Match Score	Usage	License	Security Risk	Operational Risk
AOP Alliance (Java/J2EE AOP standard) 1.0	1 Match	Transitive Dependency	100%	Dynamically Linked	Public Domain	High	High
Apache Commons DBCP 1.2.2	1 Match	Direct Dependency	100%	Dynamically Linked	Apache-2.0	High	High
Apache Commons FileUpload 1.3.3	1 Match	Direct Dependency	100%	Dynamically Linked	Apache-2.0	1	High
Apache Commons IO 2.2	1 Match	Transitive Dependency	100%	Dynamically Linked	Apache-2.0	1	High

4. In the component list view of the BOM, click and select **Edit** to open the Edit component dialog box.

5. Type the name of the OSS component in the **Component** field and select the alternate match.
6. Select the version of the component from the **Version** list. The list contains all versions of the component that are available in Black Duck KB.
7. Optionally, enter a purpose for this adjustment and/or select the **Modification** checkbox and optionally, enter information regarding this modification in the field.
8. Click **Save**.

The component and version for the BOM entry are updated. The Information indicator () appears in the table row to indicate that the component and/or version were changed from the one automatically discovered in the component scan:

Print Add Bulk Actions Compare to... Ignore Not Ignored Snippet Match Status Confirmed Match Ignore Not Ignored Filter

Component	Source	Match Type	Match Score	Usage	License	Security Risk	Operational Risk
Apache Commons Collections ?	1 Match	Direct Dependency	100%	Dynamically Linked	Apache-2.0	1 3	1 3

Displaying 1-1 of 1