




Getting Started

Version 2020.8.2



This edition of the *Getting Started* refers to version 2020.8.2 of Black Duck.

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Please send your comments and suggestions to:

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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.

Black Duck integration documentation can be found on [Confluence](#).

Customer support

If you have any problems with the software or the documentation, please contact Synopsys Customer Support.

You can contact Synopsys Support in several ways:

- Online: <https://www.synopsys.com/software-integrity/support.html>
- Email: software-integrity-support@synopsys.com
- Phone: See the Contact Us section at the bottom of our [support page](#) to find your local phone number.

Another convenient resource available at all times is the [online customer portal](#).

Synopsys Software Integrity Community

The Synopsys Software Integrity 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 Software Integrity Group (SIG) 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 SIG 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 Synopsys 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 SIG experts and our Knowledgebase.
- Share – Collaborate and connect with Software Integrity Group 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@synopsys.com.

Training

Synopsys Software Integrity, Customer Education (SIG Edu) 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.

At Synopsys Software Integrity, Customer Education (SIG Edu), 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://community.synopsys.com/s/education>.

Chapter 1: Logging in to Black Duck

Black Duck is a risk management tool designed to help you manage the logistics of using open source software in your organization.

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.

Logging in to Black Duck 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.

Note: Your password is case sensitive.

3. Click **Login**.

When you log in, Black Duck displays the Dashboard page.

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.

The screenshot displays the Black Duck Dashboard interface. At the top, there's a navigation bar with 'Dashboard' selected, and tabs for 'Components', 'Security', and 'Summary'. Below the navigation bar, there are tabs for 'Watching' and 'My Projects', with 'My Projects' being the active tab. A message states: 'Saved Searches: No saved searches? No problem, head over to find, query the data you're interested in and save the query for future use.' Below this, there's a 'Sort By...' dropdown and a 'Filter projects...' input field. The main content area features a large circular graphic with a cube icon and the text: 'You don't have any projects. Looks like you haven't created any projects nor have permission to see others. Click Create at the top to begin your journey to better code!'. On the right side, there's a 'My Projects' section showing '0 Projects'. Below this, there are four risk categories: 'Policy Violations', 'Security Risk', 'License Risk', and 'Operational Risk'. Each category has a list of risk levels with corresponding percentages: 'Policy Violations' (0% Blocker, 0% Critical, 0% Major, 0% Minor, 0% Trivial, 0% Unspecified), 'Security Risk' (0% Critical, 0% High, 0% Medium, 0% Low), 'License Risk' (0% High, 0% Medium, 0% Low), and 'Operational Risk' (0% High, 0% Medium, 0% Low). At the bottom right, it says 'Displaying 1-0 of 0'.

Black Duck component scanning is scanning functionality that provides an automated way to determine the set of open source software (OSS) components that make up a software project. Component scanning helps organizations manage their use of open source binaries by identifying and cataloging OSS components in order to provide additional metadata such as license, vulnerability, and OSS project health for those components.

Using Synopsys Detect (Desktop)

Synopsys Detect (Desktop) provides a new interface to make it easier to scan code.

With Synopsys Detect (Desktop), you can:

- [Scan](#) source directories, binaries and executables, and docker images and distributions.
- [Create a scan file](#) to be uploaded at a later time.
- [Manage scan files](#).
- [Upload scan files](#) directly to Black Duck.
- [View uploaded scans](#).

To use Synopsys Detect (Desktop):

1. Download and install Synopsys Detect (Desktop).
2. Configure Synopsys Detect (Desktop) with your Black Duck server settings and complete the installation process.
3. Use Synopsys Detect (Desktop) to scan and/or upload your files.

Note: An error message appears if you exceed the scan size limit, which is 5 GB (6 GB for Black Duck - Binary Analysis). Contact Customer Support if you receive this message.

Downloading and installing Synopsys Detect (Desktop)

1. Log in to Black Duck.
2. Navigate to the drop-down menu under your username and select **Tools**.
3. Select the operating system you wish to use in the **Downloads Synopsys Detect (Desktop)** section to download the executable from Google Cloud Storage.
4. Run the executable to install Synopsys Detect (Desktop).

If you are upgrading from a previous version of Synopsys Detect (Desktop), an option appears to migrate data from the previous version.

Note: As the application installs into a directory related to its name, Synopsys Detect (Desktop) will not uninstall previous versions of Black Duck Detect Desktop. It also will not uninstall versions of Synopsys Detect (Desktop) that were installed in a non-default directory. You must manually uninstall all previous versions of Black Duck Detect Desktop, versions of Synopsys Detect (Desktop) installed in the non-default directory, and fix or delete any shortcuts.

If the Synopsys Detect (Desktop) does not open after installation and the following error message appears:

```
The SUID sandbox helper binary was found, but is not configured correctly.
Rather than run without sandboxing I'm aborting now. You need to make sure
that /opt/Synopsys Detect/chrome-sandbox is owned by root and has mode
4755.
```

your operating system does not support the Sandbox at the kernel layer. To run Synopsys Detect (Desktop) with the Sandbox disabled, enter the following at the command line:

```
synopsys-detect --no-sandbox
```

Installing the Linux version of Synopsys Detect (Desktop)

1. Optionally, update all installed packages:

```
sudo yum update -y
```

2. Install a required library:

```
sudo yum install -y libXScrnSaver
```

3. Download `synopsys-detect-latest.rpm` from your Black Duck server, as described in the previous section.

4. Install Synopsys Detect (Desktop):

```
cd Downloads
sudo rpm -ivh synopsys-detect-latest.rpm
```

5. Change the permission of chrome-sandbox:

```
cd "/opt/Synopsys Detect"
sudo chmod 4755 chrome-sandbox
```

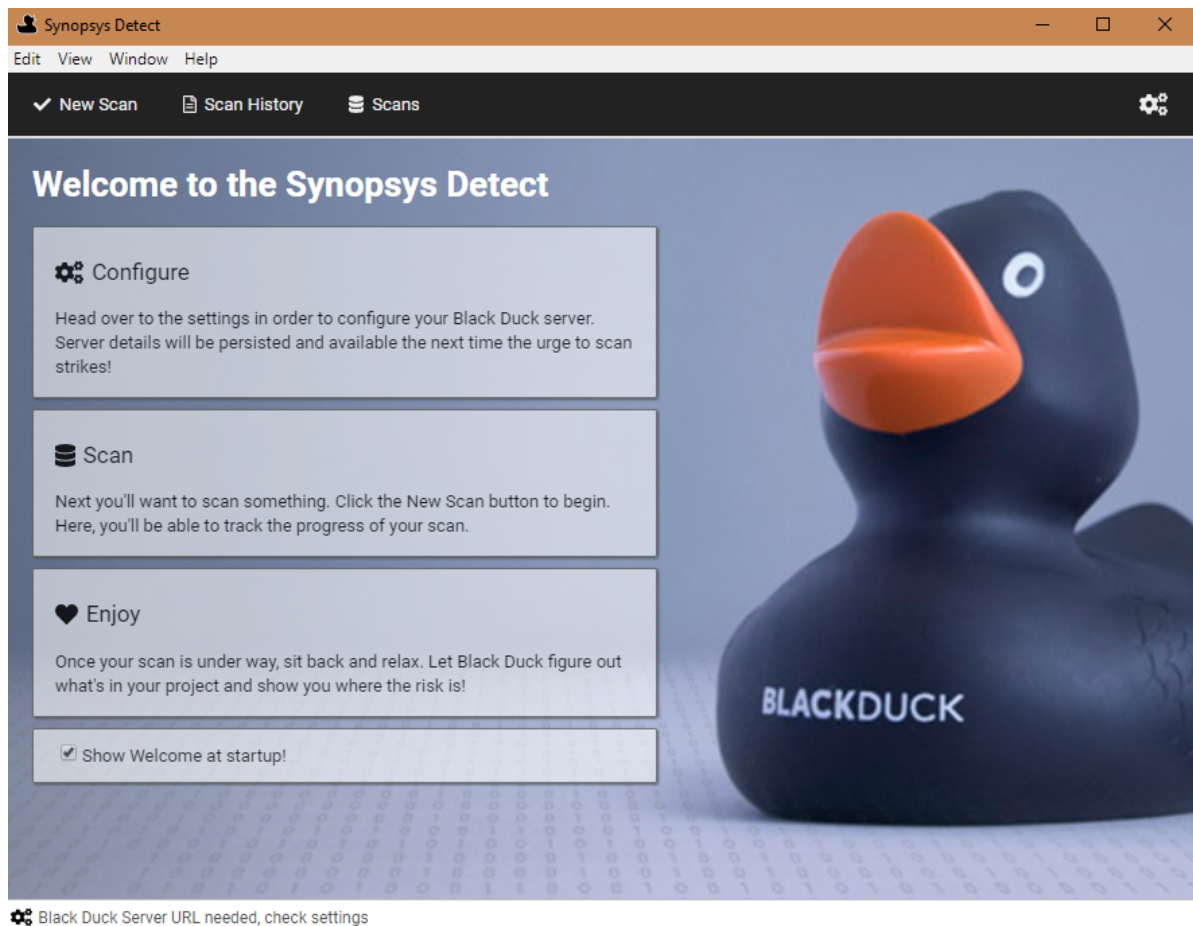
6. Run Synopsys Detect (Desktop):

```
./synopsys-detect --no-sandbox
```

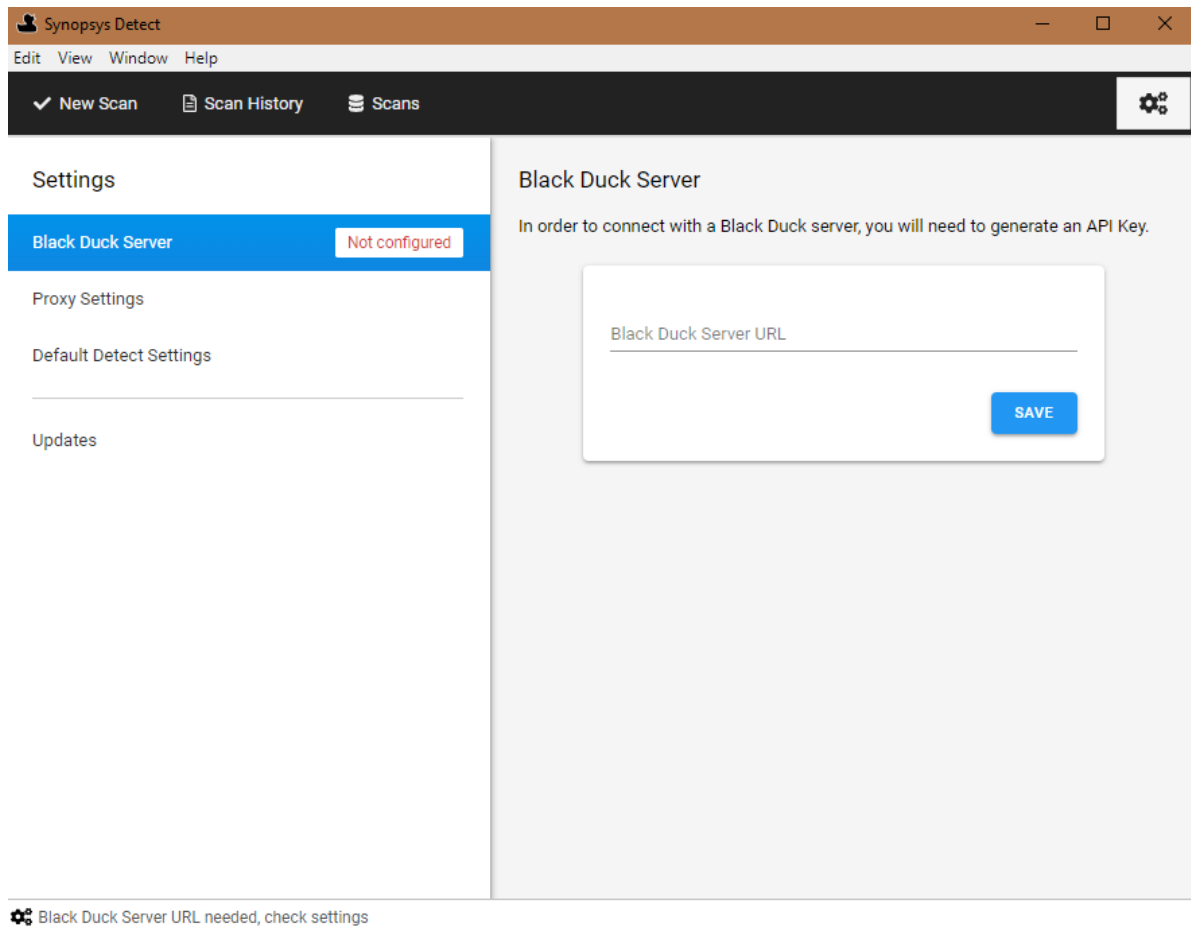
Configuring Synopsys Detect (Desktop)


After installing Synopsys Detect (Desktop), continue the installation process by configuring your Black Duck settings.

1. After installing or upgrading to Synopsys Detect (Desktop), the Welcome page appears.



2. Select **Configure** to display the Settings page.



You can also click , located in the upper right corner, to display this page.

3. As described below, select one of the following tabs and complete the installation and configuration process:
 - Black Duck Server
 - Proxy Settings
 - Default Detect Settings
 - Updates

Black Duck server settings

1. Specify the Black Duck Server URL. Enter the URL to the Black Duck server as you would type it in the browser, for example `https://servername:8443/`

If required, enter context information, for example, if the X-Forwarded-Prefix header is being specified in a proxy server/load balancer configuration.

2. Click **Save**. Synopsys Detect (Desktop) connects to the Black Duck server and displays the version of Black Duck you are connected to.


3. Generate or enter an API key (user access token). This information appears after you enter the Black Duck Server URL.
 - To generate a new API key:
 - a. Select **Generate New API Key**.
 - b. Enter a key name, your username, and password.
 - c. Click **Generate**.
 - To enter an API key:
 - a. Select **Enter API Key**.
 - b. Enter the API key in the field.
 - c. Click **Save**.

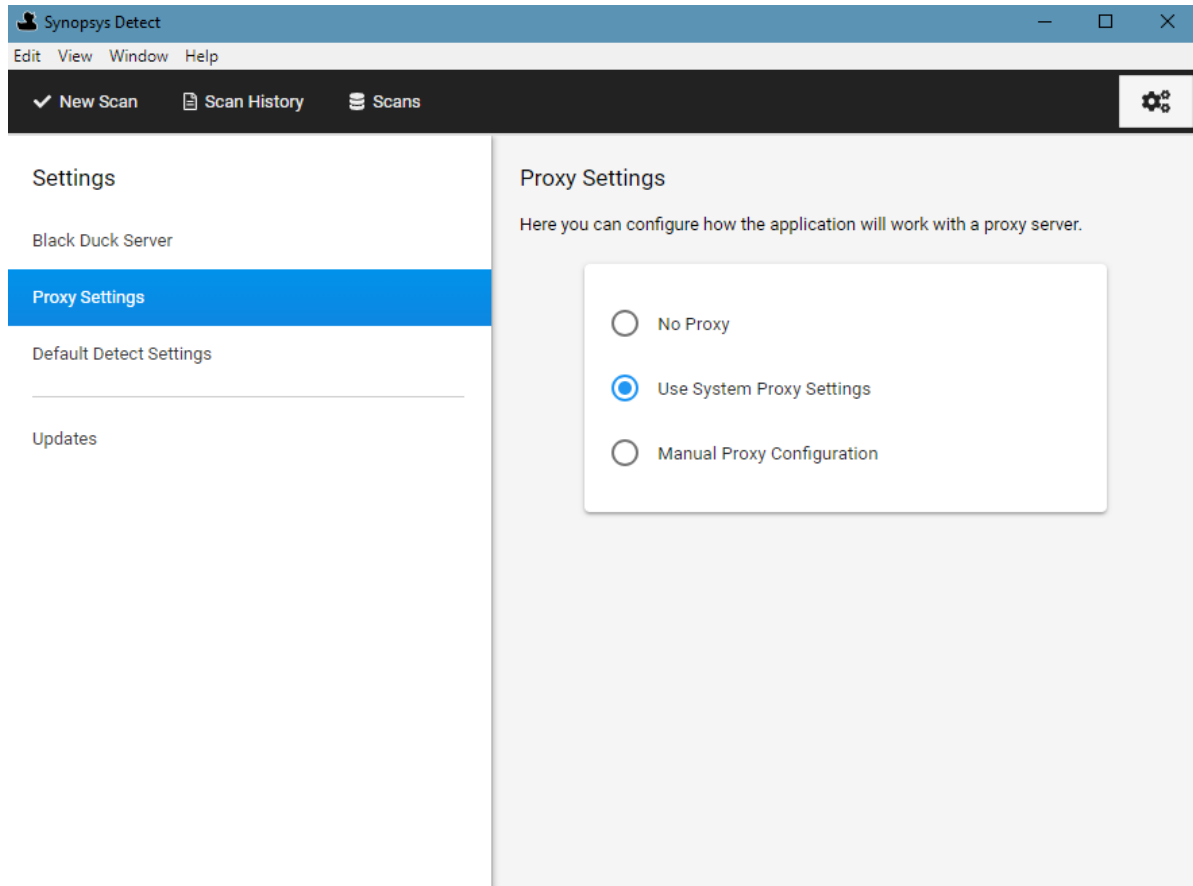
Proxy settings

Accessing Synopsys Detect (Desktop) through a proxy is supported. Synopsys Detect (Desktop) automatically uses your local system proxy setup.

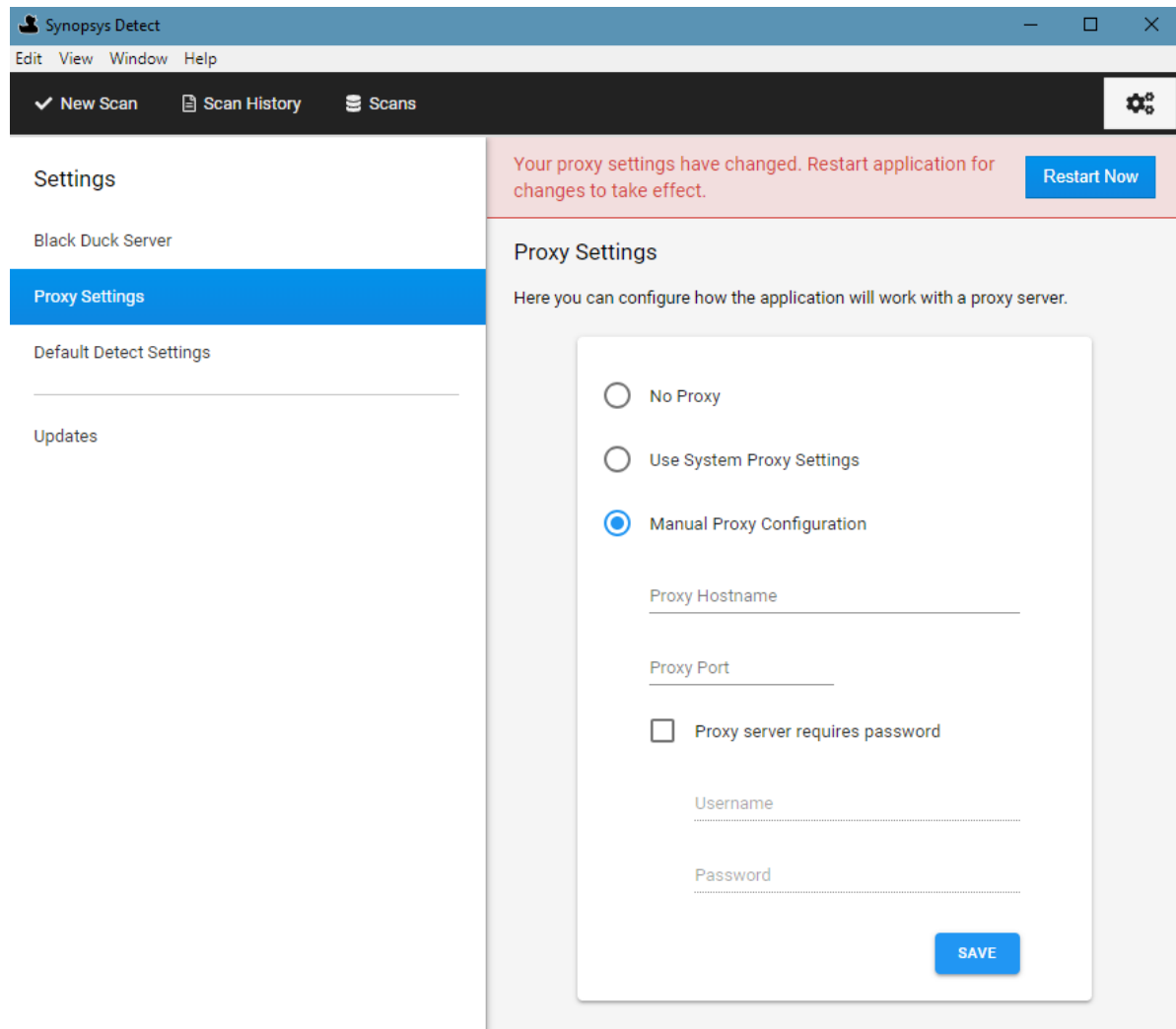
If you are required to manually enter your proxy settings or you do not require a proxy, you can modify these default settings.

⚙️ To modify the default proxy settings

1. Click  to display the Settings page and select the **Proxy Settings** tab.



2. Select either **No Proxy** or **Manual Proxy Configuration**.
3. If you select a manual proxy configuration:



a. Enter the following information:

- Your proxy host name.
- Port number.
- Whether authentication is required.
- Your username and password.

If a proxy is enabled and authentication is required, you may have to re-enter your username and password.

b. Click **Save**.

4. Restart the application.

Configuring Synopsys Detect settings

Optionally, select **Default Detect Settings** and if necessary, define any Synopsys Detect settings, clear any build tools you do not want to use, or manually configure the path to the build tools.

Checking for updates

You can check to see if there are updates to the Synopsys Detect (Desktop) by selecting the **Updates** tab. The page lists the last time you checked for updates. Click **Check for updates** to view if there are newer versions available. This option is only available for Windows and MacOS systems.

Certificates

When connecting to Black Duck: if you connect to a Black Duck instance with an insecure SSL certificate, you are prompted to view and trust the certificate. Select the **Always trust <Black Duck instance server name> to trust** option.

Note: On the Mac OS, even though you have accepted the certificate, your key store may display more options than were originally presented. For the SSL certificate, you must select the *Always trust* option. This prevents future prompts asking you about trusting certificates.

Scanning options

The Synopsys Detect (Desktop) makes it easier to scan:

- Source directories
- Binaries or executables
- Docker images or distributions

By default, all scans are uploaded to the Black Duck server and mapped to a project version. However, you can create a scan file as described [here](#), to output the scan to a file which you can later upload to Black Duck.

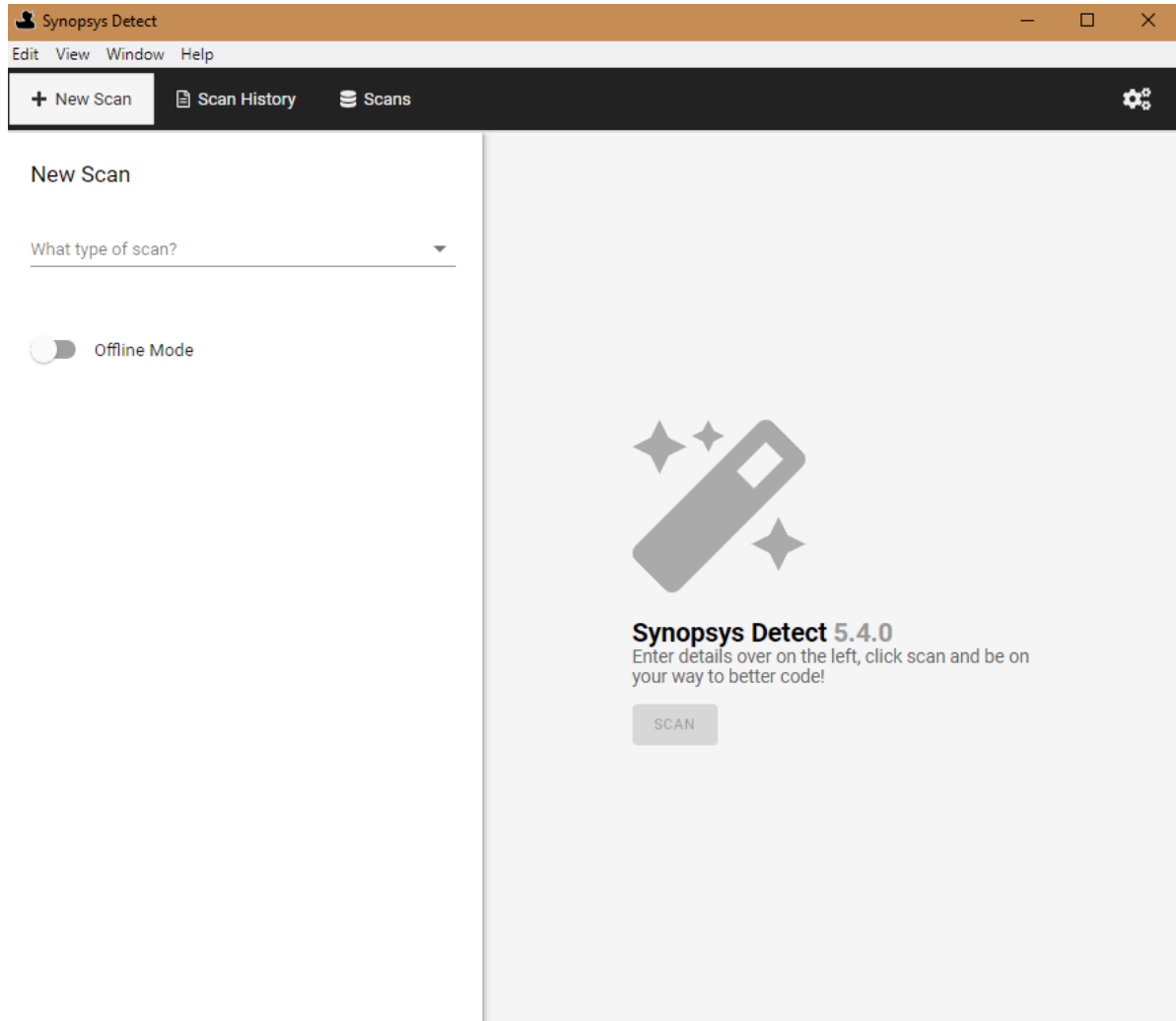
To specify project and/or version names:


1. Click **ADD** located next to **Project Settings**.
2. Select **Project Name** and/or **Version Name**. The fields appear in the UI.
3. Specify the values for the field(s).

Scanning Source Directory

⚙️ To scan a source directory

1. Click **New Scan**.



2. From the **What type of scan?** list, select **Source Directory**,
3. Click  to select the directory you would like to scan.
4. Optionally, modify or configure any project or scan settings by clicking **ADD** and selecting the setting.
If you have purchased a snippet scanning license and want to enable snippet scanning, select **Snippet Scanning** from the **Settings** options and enable it.
5. Click **Scan**.

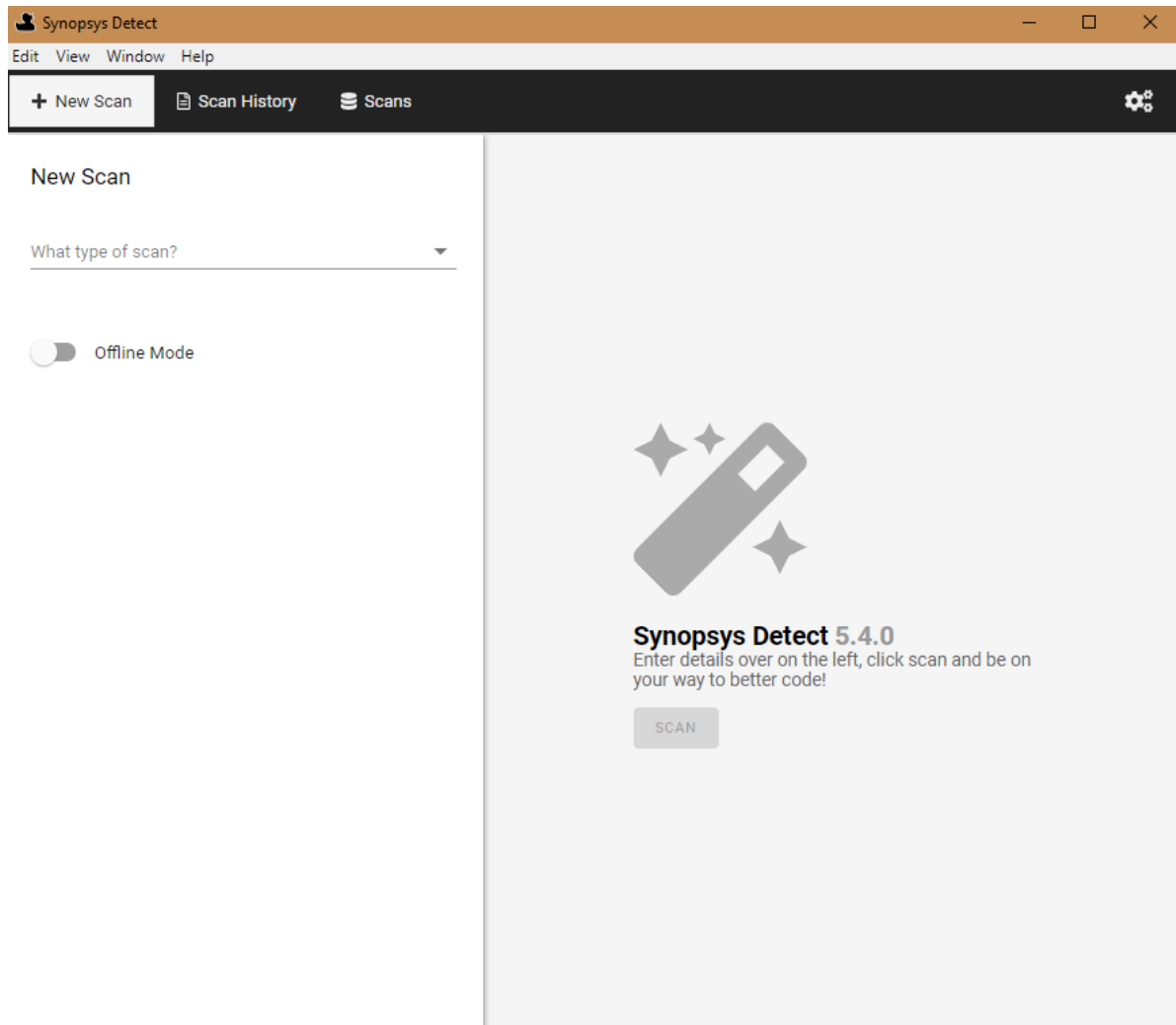
The status of the scan appears along with an option to cancel the scan.


- When the scan is complete, select the **Scan History** tab to view information on the completed scan. From this tab, you can [manage your scan](#). You can also view the uploaded scan using the **Scans** tab.

Scanning binary/executable

⚙️ To scan a single binary or executable

- Click **New Scan**.



- From the **What type of scan?** list, select **Binary/Executable**,
- Click  to select the binary or executable you would like to scan.
- Optionally, modify or configure any project settings by clicking **ADD** and selecting the setting.
- Click **Scan**.

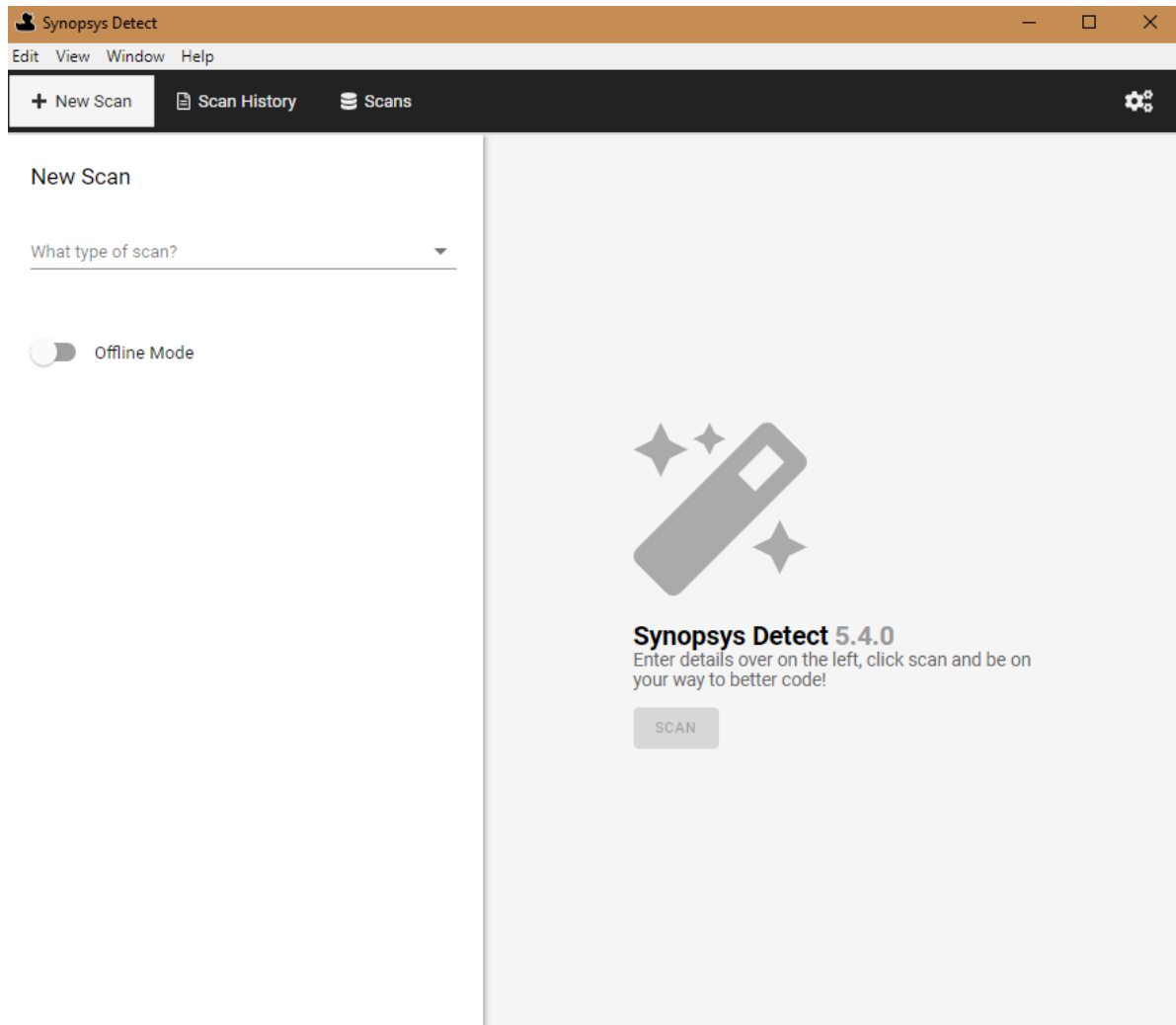
The status of the scan appears along with an option to cancel the scan.


- When the scan is complete, select the **Scan History** tab to view information on the completed scan. From this tab, you can [manage your scan](#). You can also view the uploaded scan using the **Scans** tab.

Scanning a Docker image or distribution

⚙️ To scan a Docker image or distribution (.tar file)

- Click **New Scan**.



- From the **What type of scan?** list, select **Docker**,
- Do one of the following:
 - Enter the Docker image name.
 - Select **Choose Docker File (.tar)** and click  to select the directory you would like to scan.
- Optionally, modify or configure any project settings by clicking **ADD** and selecting the setting.

5. Click **Scan**.

The status of the scan appears along with an option to cancel the scan.

6. When the scan is complete, select the **Scan History** tab to view information on the completed scan. From this tab, you can [manage your scan](#). You can also view the uploaded scan using the **Scans** tab.

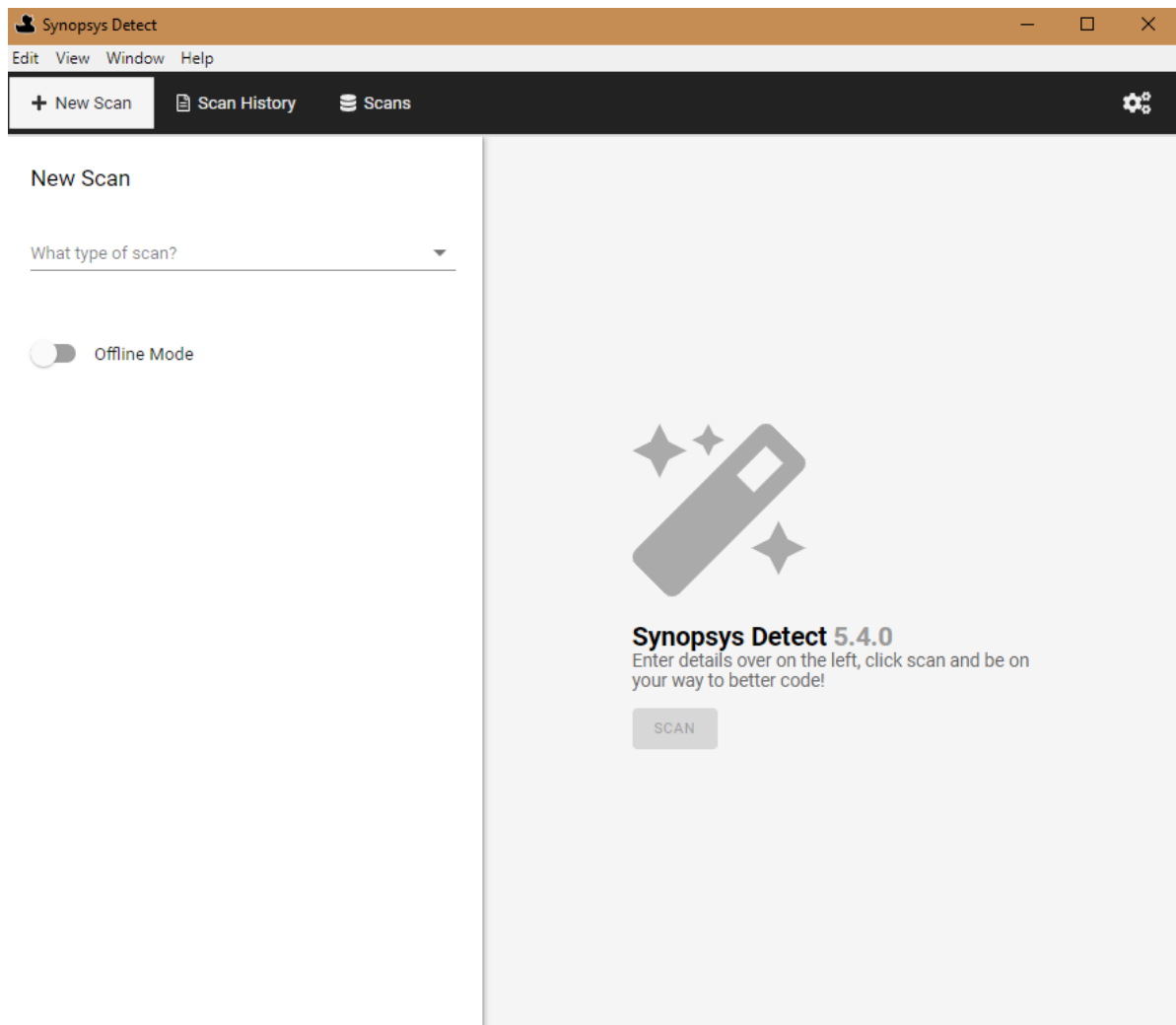
Creating a scan file

You can use Synopsys Detect (Desktop) to output the scan to a file which you can later upload to Black Duck by using Synopsys Detect (Desktop), as described below, the command line, or by using the Black Duck UI.

Note: Snippet scanning cannot be completed offline as it requires communication with the Black Duck server.

⚙️ To create a scan file:

1. Click **New Scan**.



2. Select the type of scan (**Source Directory**, **Binary/Executable**, or **Docker**).
3. Optionally, modify or configure any project or, for source directory scanning, scan settings by clicking **ADD** and selecting the setting.
4. Select **Offline Mode**.
5. Click **Scan**.

The status of the scan appears along with an option to cancel the scan.

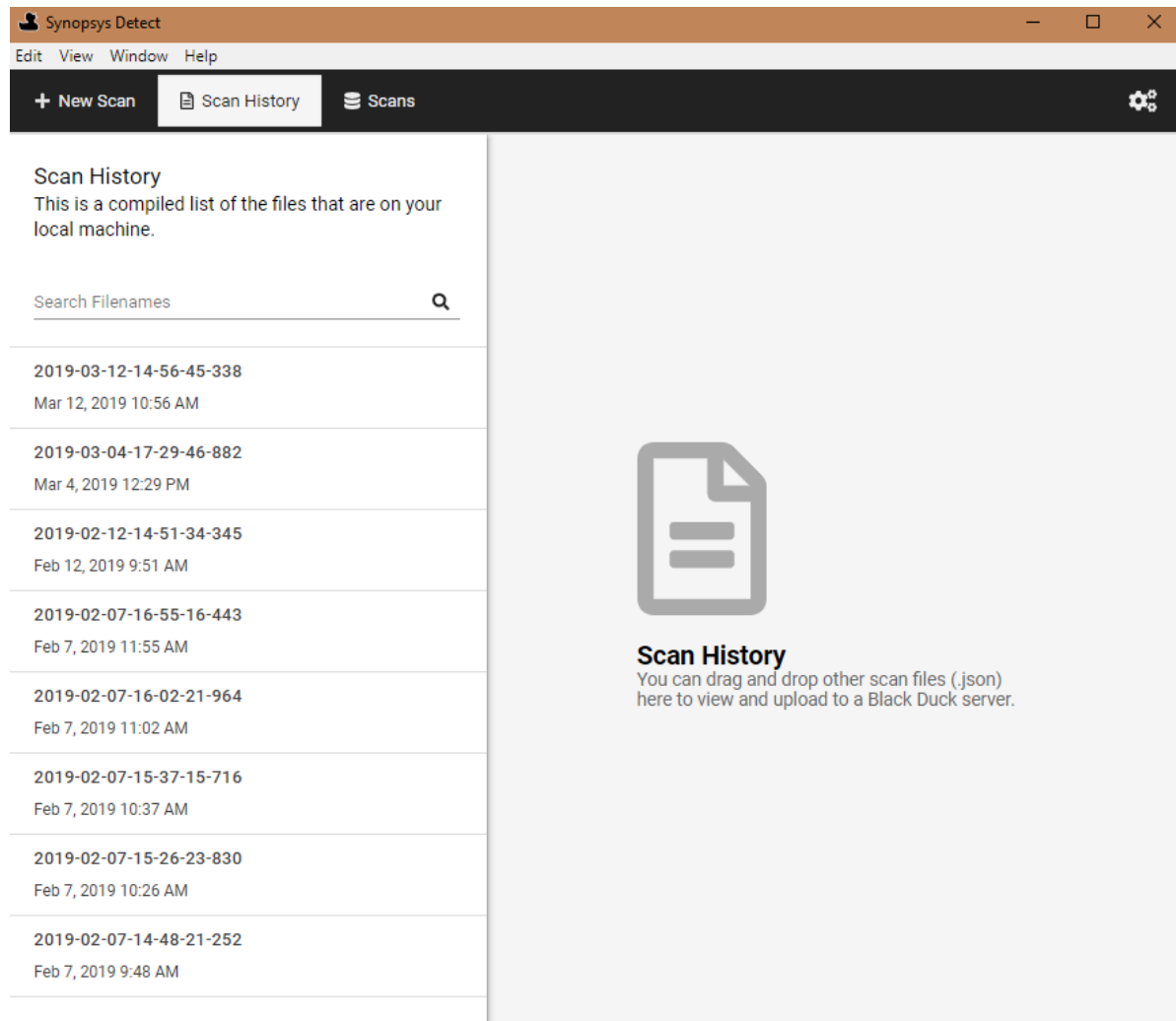
6. When the scan is complete, select the **Scan History** tab to view information on the completed scan.

Managing scans

Use the **Scan History** tab to manage your scans.

1. Click **Scan History**.

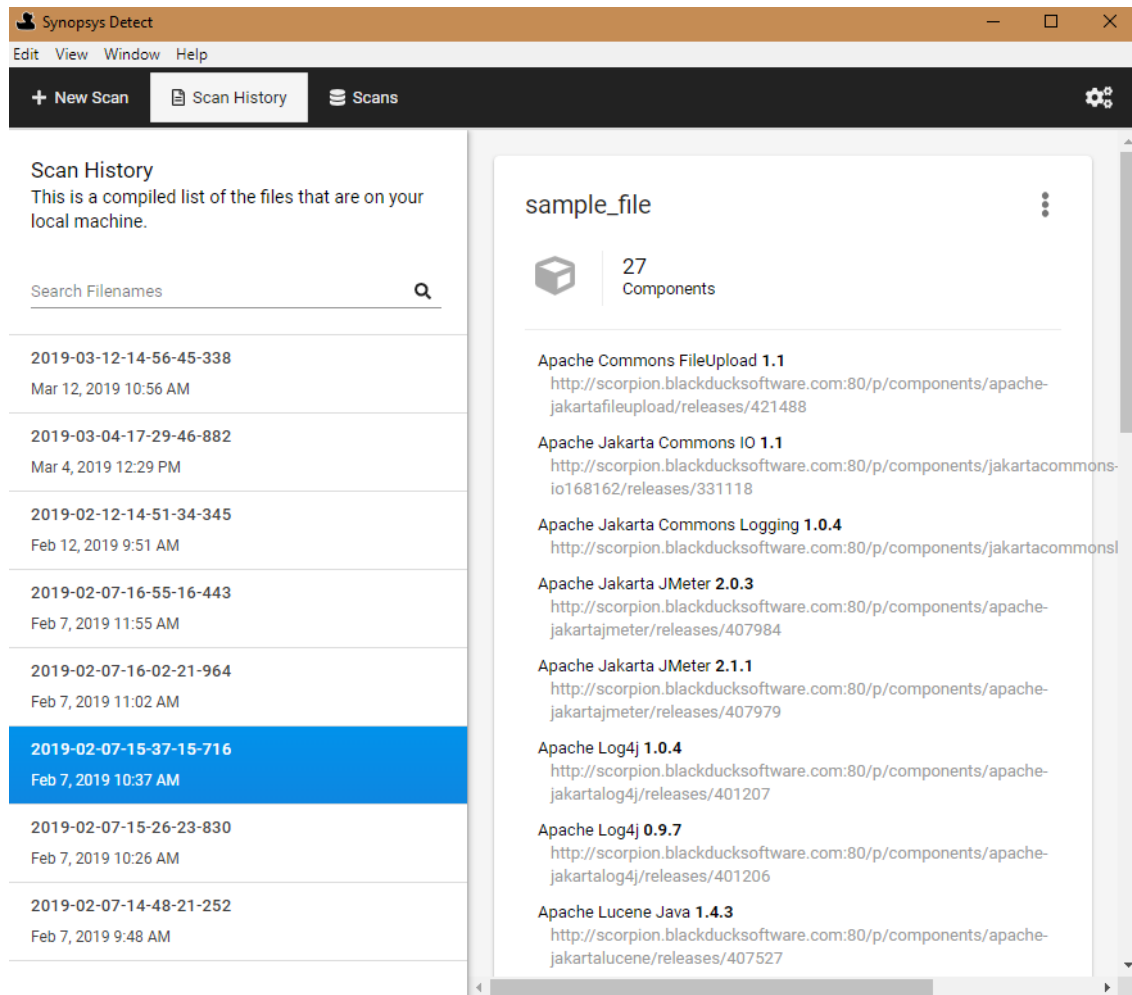
A list of scans on your local system appears in the left column of the tab.




Drag and drop scans from your local machine to this tab to manage them.

From this tab, select a scan and:

- View information on the contents of the scan:

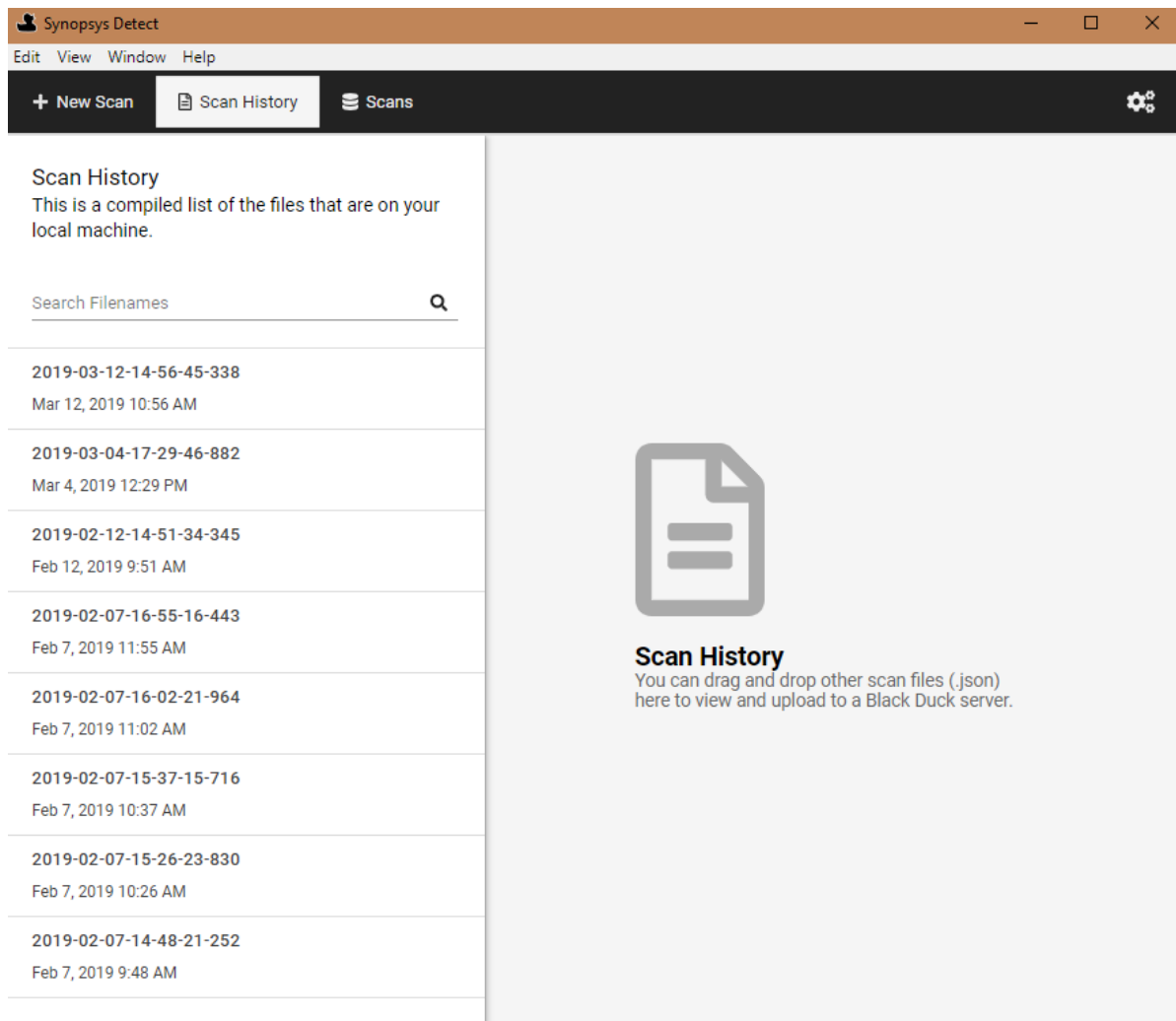



- View the location of the file on your system by clicking  and selecting **Show File**.
- Upload the file, as described in the next section.
- Delete the scan by hovering over the scan name in the left column and clicking **Delete**. Click **Yes** to confirm.

Uploading scan files to Black Duck

You can use Synopsys Detect (Desktop) to upload scan files to Black Duck.

1. Click **Scan History**.

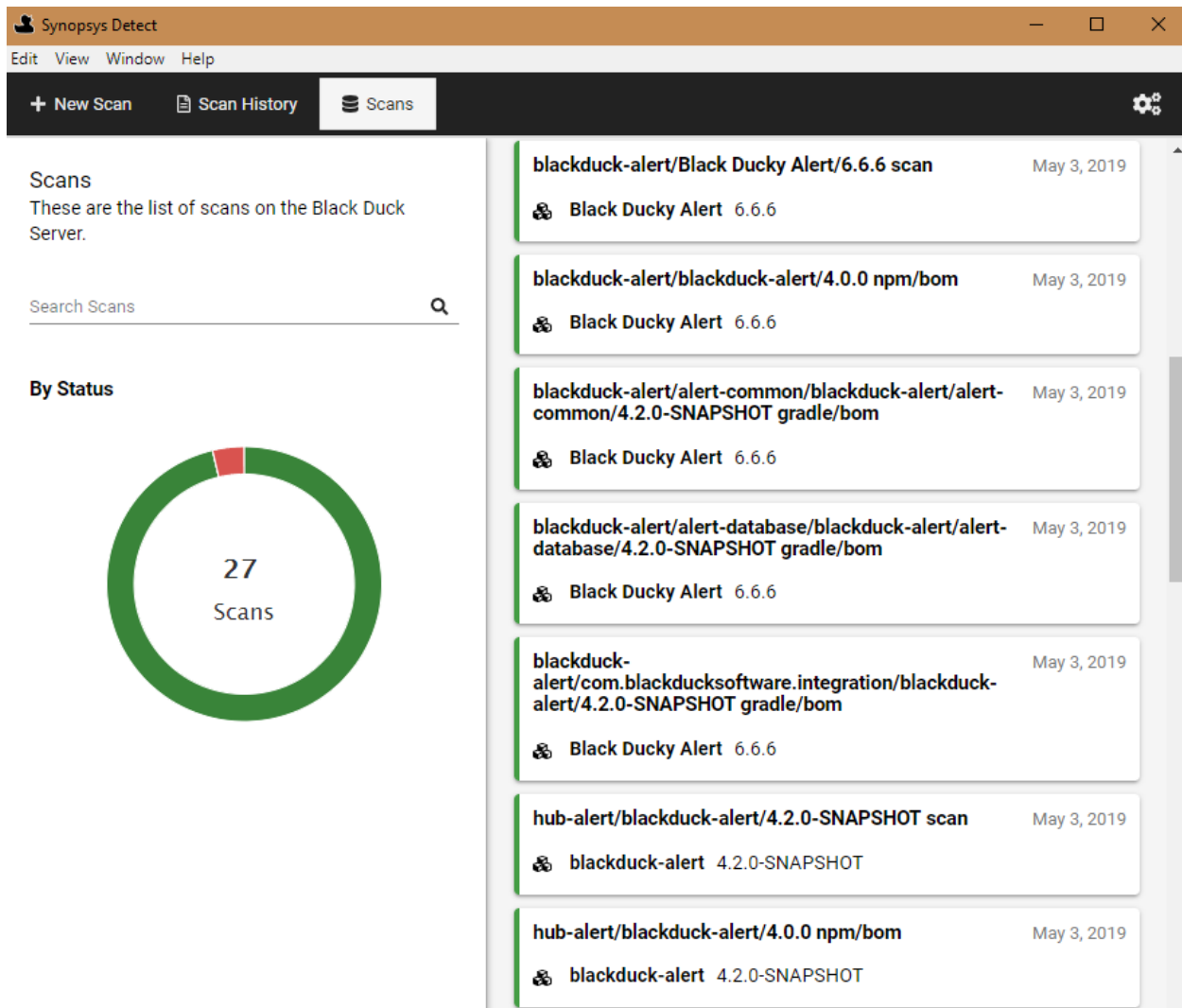


2. If the file is on your local system, you can drag and drop the scan file from your local machine to the **Scan History** tab.
3. Select the file to upload and click  in the upper right corner to display the file options.
4. Click **Upload Scan File to Black Duck**. The Upload Progress window appears showing you the status of the upload. Close the window when the process is complete.

You can confirm that the scan has been uploaded by clicking **Scans** and viewing the uploaded file.

Viewing uploaded scans

You can view the scans that have been uploaded to Black Duck's UI by clicking **Scans**:



This tab displays the following information:

- The left side of the tab shows uploaded scans by status (in progress, completed, or error).
Use the search field to find a scan or limit the scans shown.
- The right side of the page lists the scans and shows the following information for each scan:
 - Name
 - Project and project version scan is mapped to or indicates that the scan is not mapped to a project.
 - Date the scan was uploaded to Black Duck.

Select a scan to open the *Scan Name* page in Black Duck for the selected scan.

Note: The number of scanned bytes displayed in Synopsys Detect (Desktop) may differ from the number of scanned bytes shown in Black Duck. This is because of how Black Duck calculates and counts the number of bytes used. This is normal and is expected to occur in some scans.

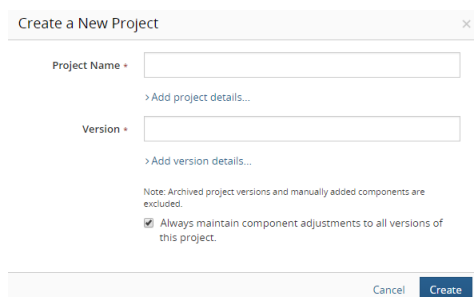
Creating a project

A project is the base unit in Black Duck. A project can be both a stand-alone development project and part of another project. For example, Apache Tomcat is a project in its own right but it may also be part of other, larger projects. You must create the projects that you want to make available for search by other developers in your organization.

Note that a project or application is limited to 10GB of Managed Code base.

⚙️ To create a project

1. Log in to Black Duck.
2. Click **+ Create Project** at the top of any page.



3. In the Create a New Project dialog box, enter a project name. This name must be unique among projects in Black Duck, although it can have the same name as a project in the Black Duck KB.

Tip: As a best practice, you should think about how other users will search for your projects when creating project names. For example, if your project is related to 3D graphics, naming it "3DGraphics" means that the user must type the entire project name in order to find your project. If you use a space or an underscore in the name, for example, "3D Graphics" or "3D_Graphics", the additional separator characters will allow users to locate the project using the search term "3D".

4. Optionally, select **Add project details** to enter additional information such as:
 - Description.

Tip: As a best practice, you should think about how other users will search for your projects when creating project descriptions. The description should be specific about what the project does and how it is unique, so that it is easily distinguishable from other similar projects.

- Name of the project owner in the **Owner** field.

Note: If the user you add is not already a project member, Black Duck adds the user to the project team.

By default, the user creating the project is the project owner. The owner has the ability to assign their projects to users and groups.

- Select a tier.¹

Note: To assign an application ID to a project, create the project, as described here, and then modify the project settings.

5. Type the version for this project in the **Version** field.
6. Optionally, select **Add version details** to enter additional information such as the planned release date, the project phase, and the method in which the project is being delivered.
7. By default, edits to a version of this project apply to all versions of this project, excluding archived versions and manually added components. Clear this option if you want edits to apply to specific versions only.
8. Click **Create**.

Black Duck displays the *Project Name* page.

Black Duck Projects
DP Sample Project

Project Versions: 1

Overview Settings

Create Version Filter versions... Add Filter

Version	Phase	Last Updated	License	Security Risk	License Risk	Operational Risk
2.0	In Planning	Oct 22, 2018	Unknown License			

Displaying 1-1 of 1

Description
No description.

Created
Sep 4, 2018 by sysadmin

Updated
Sep 4, 2018 by sysadmin

Tags
No Tags

Mapping a scan to a project

Mapping a scan adds the scan data to the BOM of a project version.

Note: You can scan a Docker image or file directory location or archive more than once, but you only have to map it to a project version once. As long as the host and path used to uniquely identify the scanned location or image does not change, Black Duck automatically updates the BOM of the project with any new information discovered during subsequent scans.

⚙️ To map a scan to a project


1. Log in to Black Duck.


2. Click .


¹A tier lets you categorize projects in terms of importance to your company. Tier 1 projects are defined as those that are most critical to the company, where Tier 5 projects are defined as least critical.

Scans 394.7 MB / ∞ Unlimited					
+ Upload Scans		Delete		Filter scans... Add Filter	
✓	Status	Name	Scan Size	Last Updated	Mapped to
✓		pc_1210_2	1.2 MB	Dec 10, 2019	pc_1210_2
✓		pc_1210	1.2 MB	Dec 10, 2019	pc_1210_1
✓		hh nodegoat demo 3.0-3 scan	17.1 MB	Dec 5, 2019	hh nodegoat demo 3.0-3
✓		hh nodegoat demo 3.0-3 npm/bom		Dec 5, 2019	hh nodegoat demo 3.0-3
✓		hh ng dm 3.0-2 scan	17.1 MB	Dec 5, 2019	hh nodegoat demo 3.0-2
✓		hh ng dm 3.0-2 npm/bom		Dec 5, 2019	hh nodegoat demo 3.0-2
✓		MapScanToProjectActivityScan-190516-1651-17r67p6	566.2 KB	Dec 4, 2019	test123 1.0

3. Do one of the following:

- Click  and select **Map to Project** in the row of the scan that you want to map.
- Select the path of the scan you want to map to open the *Scan Name* page.


Scans


MapScanToProjectActivityScan-190516-1651-17r67p6


Host pcm-aarya-1 | Scan Initiated By System Administrator | Updated: Dec 4, 2019

Scan Details - for the last completed scan

Host	pcm-aarya-1	Match Count	4
Path	/Users/aarya/Downloads/angular-1.6.2.jar	Files	12
Created on	Sep 20, 2017	Folders	8
		Scan Size	566.2 KB

Delete Scan

Map Scan to Project Version

Mapped to  test123 1.0

Unmap from Project

Scan History

Status	Components	Host	Path	Scan Size	Last Updated	Scan Initiated By
complete	4 Matches	pcm-aarya-1	/Users/aarya/Downloads/angular-1.6.2.jar	566.2 KB	Dec 4, 2019	System Administrator

Select **Map to Project**.

4. Start typing the name of a project to progressively display matches in the **Project** field.

If necessary, select **Create Project** to create a new project and version.

5. Select the project version to which you want to map the component scan.

If necessary, select **Create Version** to create a new version for a project.

6. Click **Save**.

Black Duck displays the name and version of the project to which you mapped the component scan.

Select the link to open the BOM page.

Note: Black Duck displays an aggregate project version BOM. If a component version appears more than once in an archive, it is only displayed in the BOM once.

Chapter 3: Viewing risk in Black Duck

Black Duck helps you understand the type and severity of risks, at several levels of detail, across your projects. The data used to calculate risk is provided by the Black Duck KB.

Use the following pages to identify and manage risk in projects:

- Dashboard pages
- Project version page/**Components** tab
- Project version page/**Security** tab

Note that the security risk values shown use CVSS v2 or CVSS v3.x scores, depending on which security risk calculation you selected; by default, CVSS v2 scores are shown. Note that the security risk graph displays a Critical risk category with a value of 0, if you selected CVSS v2.

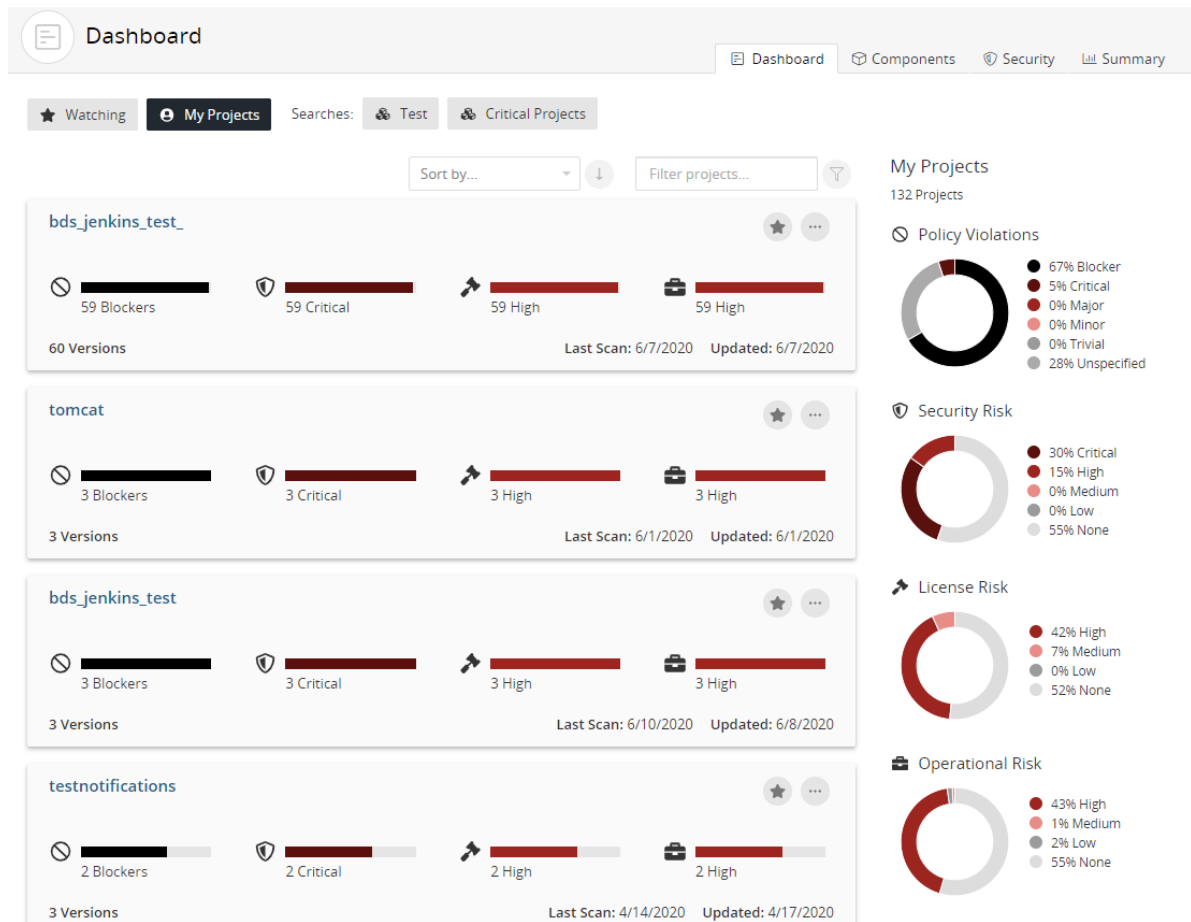
Dashboards

Dashboards provide a high-level overview of project risk from different perspectives.

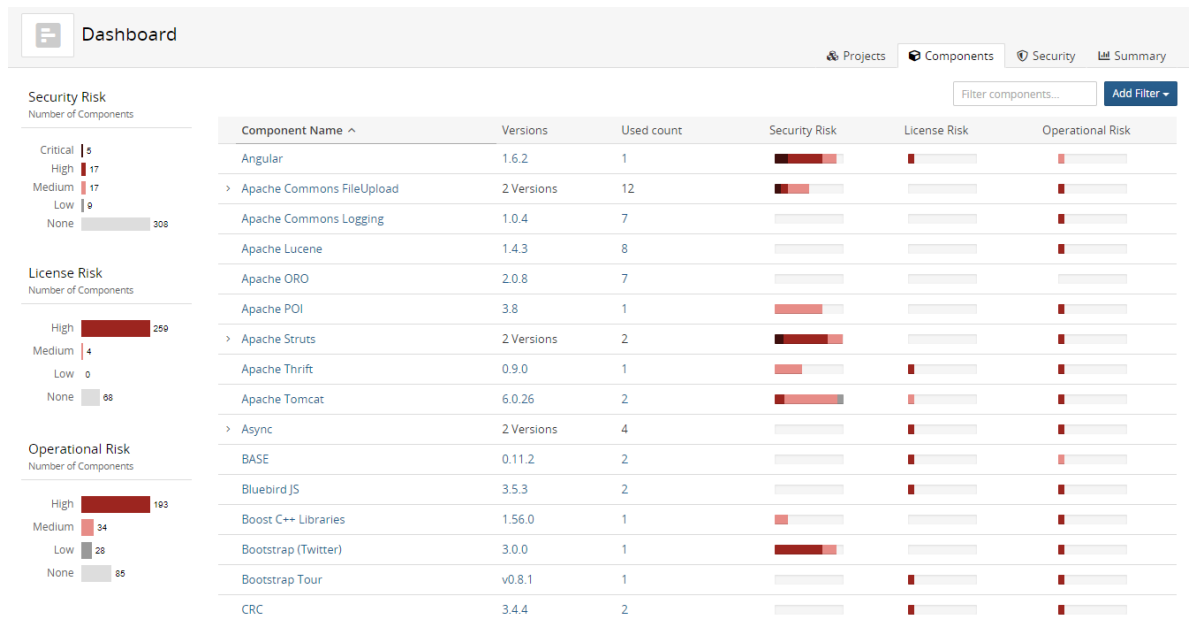
Note: Dashboards will not contain any project or component information until you create projects and then map scans to these projects or manually add components to BOMs. The risk information for the components in your project versions' BOMs will then appear on the Dashboard pages.

- Use the Dashboard to view the overall risk across all projects.

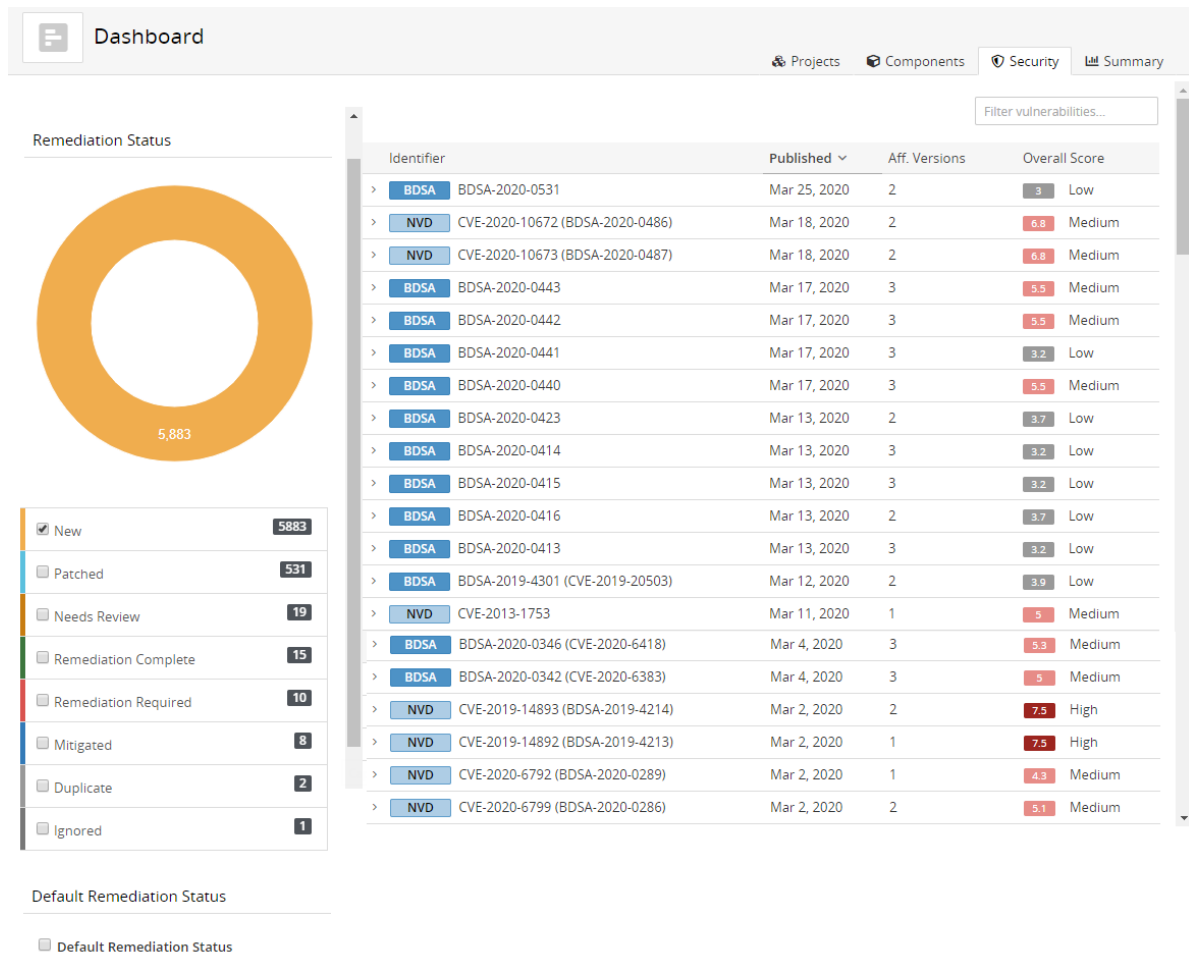
You can view the projects that interest you by using the **Watching** or **My Projects** dashboard or create a custom dashboard by saving your project search results.



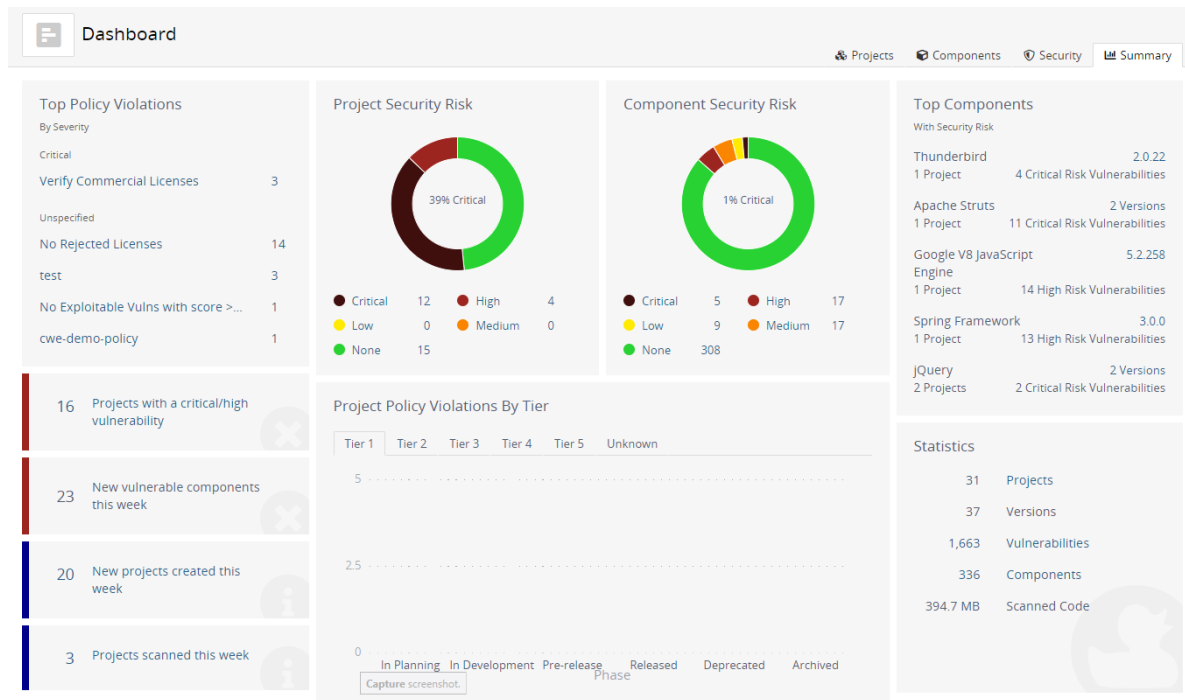
- Use the Components Dashboard to view the risk for each of the components that are used in one or more projects.



- Use the Security Dashboard to view the security risk associated with all the vulnerabilities that exist in your projects. This dashboard also shows the remediation status of all the vulnerabilities that exist within the projects.



- Use the Summary Dashboard to view the overall health of the projects you have permission to view and identify areas of concern.



Note:

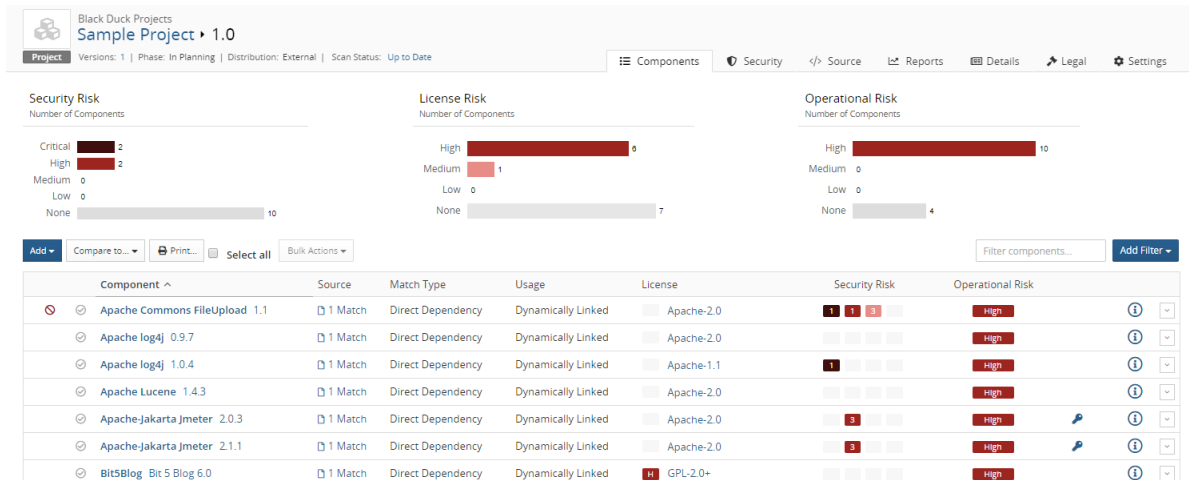
- The Dashboard page that appears when you log in depends on the last main dashboard (Dashboard, Components, Security, or Summary) you viewed prior to previously logging out.



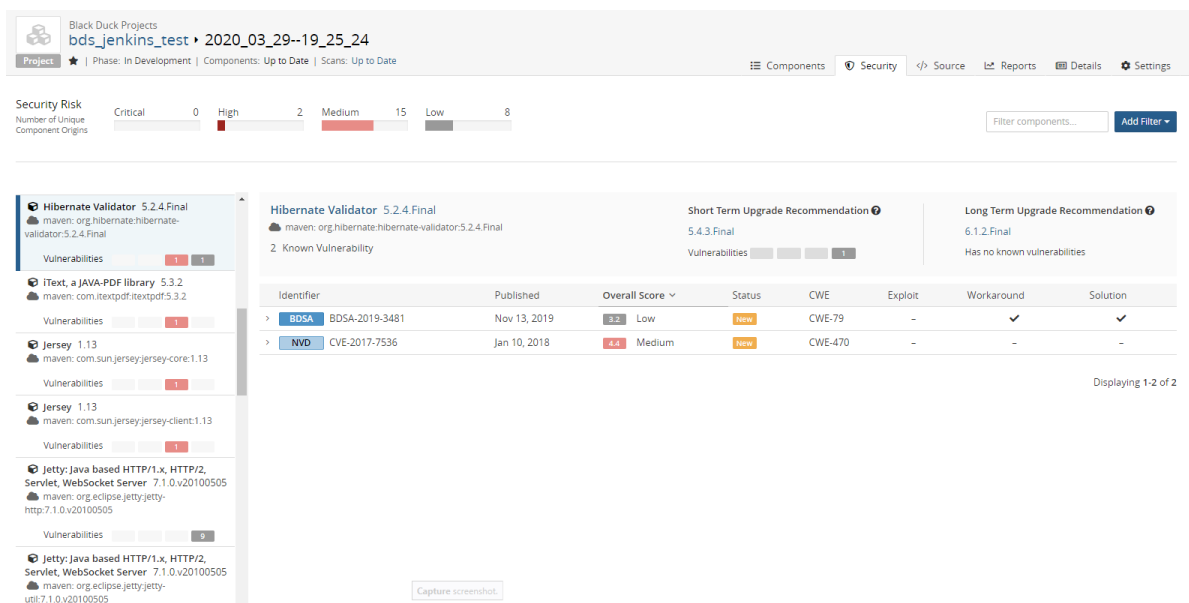
- Click **Dashboard** to view the last dashboard you viewed.
- Click the logo in the upper left corner of the navigation bar to view the **My Projects** dashboard.

Project version pages

- Use the project version page/**Components** tab, also known as the project version BOM, to view the components, specific to that project version, that have security, license, and operational risk.



- Use the project version page/ **Security** tab to view the security vulnerabilities of each severity associated with the components used in a project version.



Viewing your dashboards

Use dashboards to view the types and severity of risk and policy violations that are associated with the components that are in one or more versions of your projects. Dashboards provide an overall view across all of your projects and project versions.

So that you can view the projects and project versions that are important to you, Black Duck's provides two default dashboards and the ability for you to create an unlimited number of custom dashboards.

Black Duck displays these two default dashboards:

- **Watching.** Your watched projects.
- **My Projects.** All of your projects, including projects that you are not watching.


These dashboards display information on the Dashboard page at the project level.

In addition, you can create custom dashboards so that you can quickly view the project versions that are important to you: search for projects, save the search and then use this page to view dashboards from those saved searches. Dashboards based on saved searches display information at the project version level.

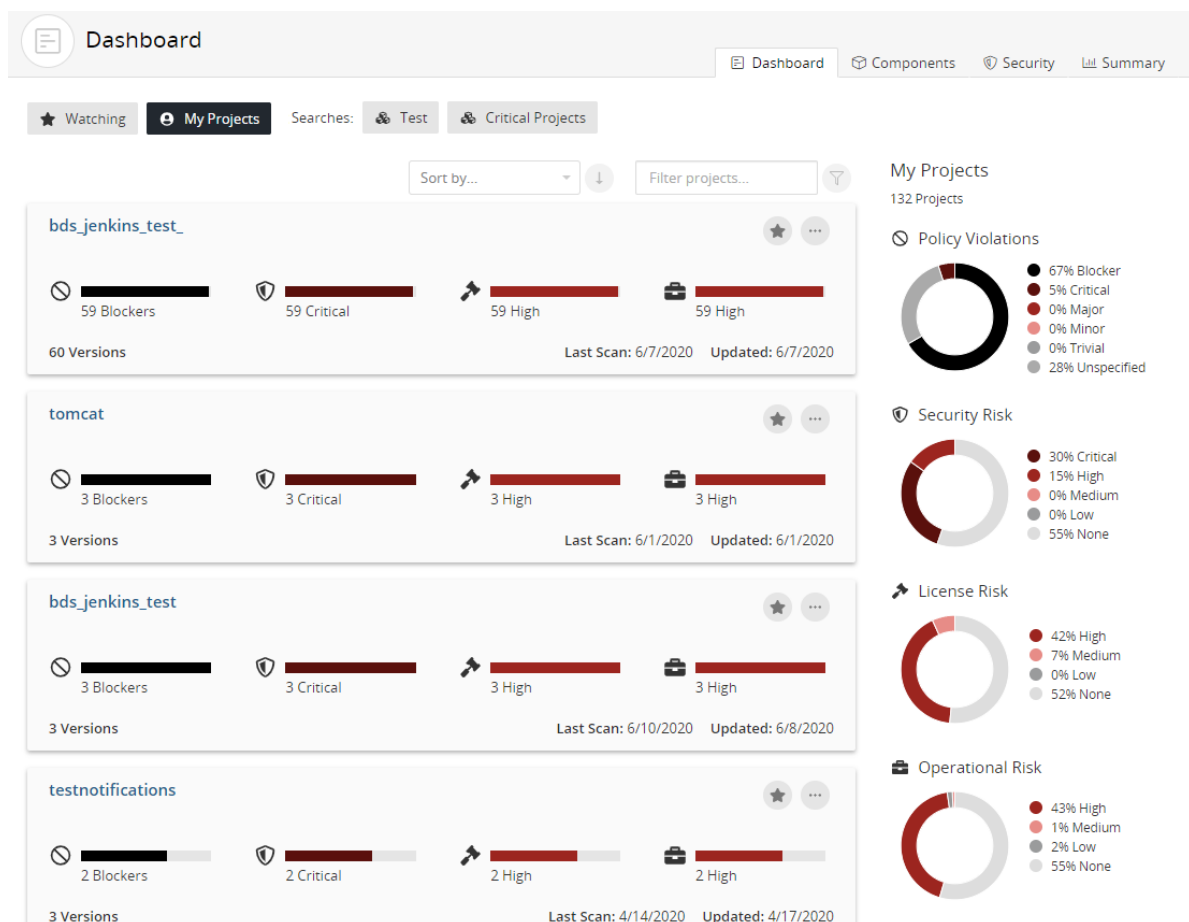
Note that the information shown for the **Watching** and **My Projects** dashboards is updated in real time. Your custom dashboards, created from saved searches, are updated every five minutes.

Viewing dashboards

⚙ To view the dashboards

1. Click  to display the dashboards.

The dashboard page that appears depends on the last main dashboard you viewed prior to previously logging out. If not displayed, select **Dashboard** to display your dashboards.

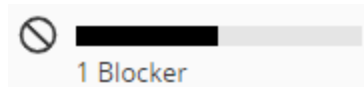


Tip: You can also click the logo in the upper left corner of the navigation bar to view the **My Projects** dashboard.

About the Watching and My Projects dashboards

Use the **Watching** or **My Projects** dashboards to view risk and policy violation information at the *project* level.

- To view policy violation information for a specific project:
 - Use the bar to view the number of project versions with the highest policy severity level.



Note: The text states the number of project versions with this highest policy severity level, not all policy severity levels affecting this project.

- Hover over the bar to see the number of project versions with their highest severity level of policy violations:

Policy Violations by Project Version

1	Blocker	0	Minor
0	Critical	0	Trivial
1	Major	0	Unspecified

* Each project version is counted once by its highest severity risk

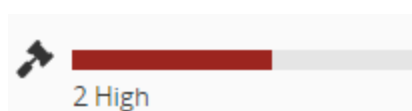
In the above example, there are two project versions which have policy violations; one version has a policy violation which has Blocker as the highest severity level, the other has a policy violation which has Major as the highest severity level. Note that this does not indicate the number of policy violations in these versions, just the highest severity level for each version.

- To view risk information:
 - Use the risk bar to view the number of project versions with the highest risk level:

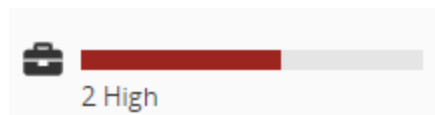
Security risk:



License risk:



Operational risk:



Note: The text states the number of project versions with this highest risk level, not all risk levels affecting the versions.

- Hover over a risk bar to see the number of versions of this project with their highest level of risk.

Security Risk by Project Version

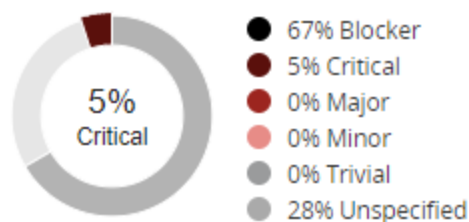


* Each project version is counted once by its highest severity risk

If a project version has risk, the version is only counted once and only its highest risk level is shown.

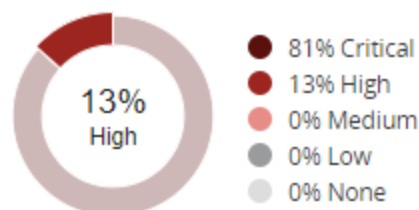
- Use the graphs to see overview information for all projects in this dashboard.
 - The risk graph shows the percentage of projects in this dashboard that have policy violations by severity level. You can also hover over an area in the graph to view this information:


Policy Violations



- The risk graphs show the percentage of projects in this dashboard that have this level of security, license, or operational risk. You can also hover over an area in the graph to view this information:

Security Risk



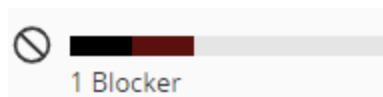
- Hover over a value in the legend to highlight the value in the graph.
- View additional information for each project, including:
 - Number of versions.
 - Last scan date.
 - Date when this project was last updated, such as when a scan that was mapped to any project version was last run or when the BOM for any project version was last updated, either manually or by a new scan.
- Select a project name to view the *Project Name* page which lists all versions of this project.
- Manage how the projects shown in these dashboards:
 - Use the **Sort by** field to select an attribute to sort by and click an arrow to select the sort order (ascending) or  (descending).
 - Use the **Filter projects** field to filter the projects shown in either dashboard.

About saved searches dashboards

Use a saved search to view risk and policy violation information at the *project version* level.

- To view policy violation information for a specific project version:
 - Use the bar to see the number of components with the highest policy severity level for this project version.

For example, the following shows that while there are components with lower severity levels, the highest policy severity level for this project version is Blocker and there is one component that has Blocker as its highest policy severity level.



Note: The text states the number of components with the highest policy severity level for this project version, not all policy severity levels affecting this project version.

- Hover over the bar to see the number of components with policy violations by the highest policy severity level:

Policy Violations by Component

2	Blocker	0	Minor
3	Critical	0	Trivial
2	Major	26	Unspecified

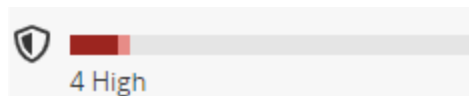
* Each component is counted once by its highest severity risk

If a component has a policy violation, the component is only counted once and only its highest policy severity level is shown.

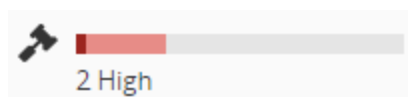
- To view risk information:

- Use the risk bars to quickly view the number of components with the highest level of security, license, or operational risk.

Security risk:



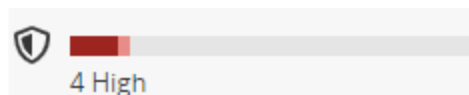
License risk:



Operational risk:



For example, the following shows that while there is a component with lower risk, the highest security risk for this project version is High and that four components in this project version have a high level of security risk as their highest risk level:



- Hover over the bar to see the number of components for each risk category.

Security Risk by Component



* Each component is counted once by its highest severity risk

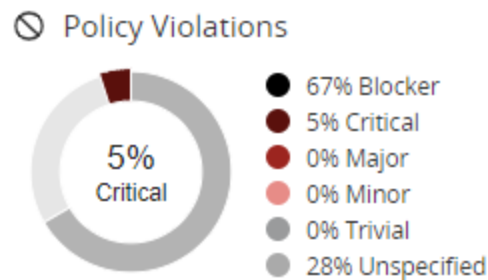
In this example, there are four components that have a high risk level as their highest risk and one component that has medium risk as its highest risk level.

Note: Each component is only counted once and is shown with its highest risk level.

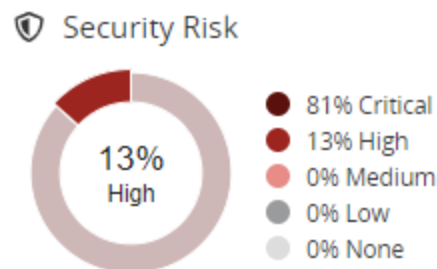
- Use the graphs to view overview information for all project versions in this dashboard categorized by

policy severity and risk levels. The graphs lists the percentages for each level. You can also:

- Hover over the graph to view the percentage of project versions with policy violations for each policy severity level.



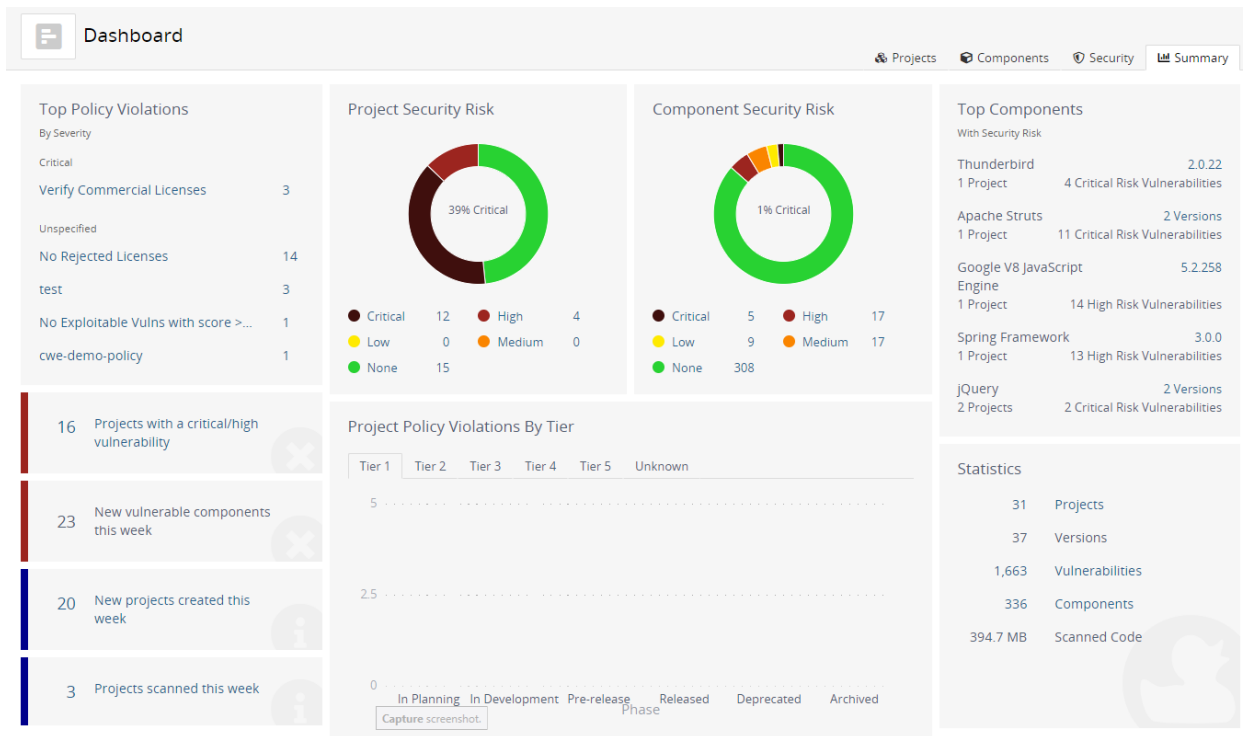
- Hover over the graph to view the percentage of project versions in this dashboard for each risk level.



- Hover over a value in the legend to highlight the value in the graph.
- For each project version, the dashboard also shows:
 - Number of components in this project version.
 - Last scan date.
 - Date when this project version was last updated, such as when a scan that was mapped to this project version was last run or when the BOM for this project version was last updated, either manually or by a new scan.
 - License of this project version.
 - Phase for this project version.
 - Distribution of this project version.
- Select the project or version name to view the BOM.

Viewing the health of your projects

Use the **Summary** tab to view the overall health of your projects and identify areas of concern. The page consists of widgets that provide business critical information which you can use to quickly assess areas where you need to focus your attention.



Note: The **Summary** tab only displays information for the projects you have permission to view.

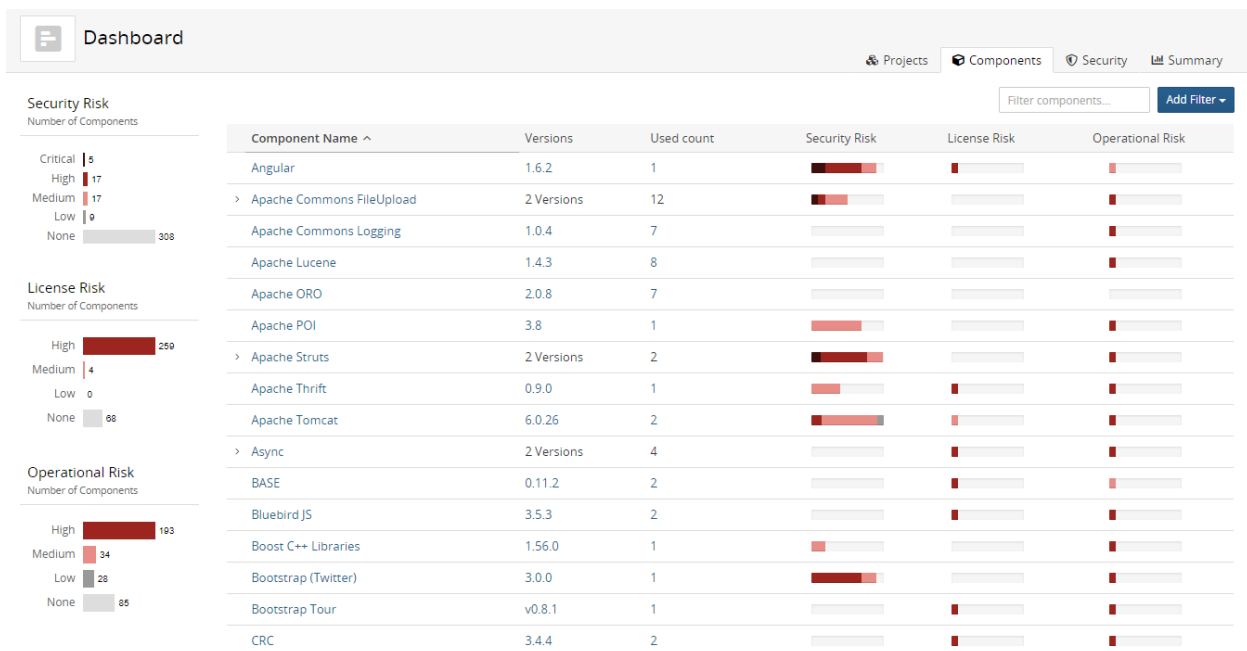
The following table describes each widget shown on the **Summary** tab and, where available, how to view additional information. Note that the security risk values shown use CVSS v2 or CVSS v3.x scores, depending on which security risk calculation you selected; by default CVSS v2 scores are shown. Note that the graphs display a Critical risk category with a value of 0, if you selected CVSS 2.0.

Description	More Information
<p>The Top Policy Violations widget displays up to the top five policy violations across all projects that you have permission to view.</p> <p>Policy rules are listed by severity level and then by the number of policy violations, in descending order. If policy rules do not have severity levels assigned to them, the widget displays the top five policy violations, in descending order by the number of violations.</p> <ul style="list-style-type: none"> • If you do not have the Policy Management module, this widget will not appear on the page. • A message appears if you have the Policy Management module but do not have any policy rules configured or have any policy violations. 	<p>Select a policy rule to view the Projects tab filtered to display the projects with a version that violate that policy rule.</p>
<p>The Project Security Risk widget displays the number of projects you have permission to view for each level of security risk.</p> <p>Note that this widget counts the highest security risk level for a project, not all security levels affecting a project. For example, if a project has medium and low security risks, it is counted as a project with medium security risk; it is not included as a project with low security risks.</p>	<p>Hover over the graph to view the number of projects with that level of security risk.</p>
<p>The Component Security Risk widget displays the number of components in projects you have permission to view for each security risk level.</p> <p>Note that the widget counts only the highest security risk for a component. For example, if a component has medium and low security risks, it is counted as one component with a medium security risk.</p>	<p>Hover over the graph to view the number of components with that level of security risk.</p>
<p>The Top Components with Security Risk widget displays up to the top five components used in the projects you have permission to view. The information shown for each component is:</p> <ul style="list-style-type: none"> • Component name and number of versions used in your projects. If only one version is used, the specific version is listed here. • Number of your projects that have this component. • Number of security risks in this component, with the highest security risk listed here. <p>Components are organized by security risk, with those components with the highest risk listed first.</p>	<p>Select the number of versions link to view the Component Dashboard page.</p> <p>Select the specific version to view the Component Version Details page.</p>
<p>The Projects have a critical/high vulnerability widget displays the number of projects with versions that contain components with a critical and/or high security risk.</p>	<p>Select the text to view the Projects tab filters to show the projects that have versions that have critical and/or high security risk.</p>

Description	More Information
The New vulnerable components this week widget displays the number of components the Black Duck KB mapped a vulnerability to in the past seven days, including today.	N/A.
The New projects created this week widget displays the number of projects that you have permission to view that have been created in the past seven days, including today.	Select the text to view the Projects tab which lists the projects created in the past week.
The Projects scanned this week widget displays the number of projects with scans from the past seven days, including today.	Select the text to view the Projects tab showing projects that have project versions with scans from the past week.
<p>The Project Policy Violations by Tier widget displays the total number of projects by phase that have a policy violation, grouped by tiers.</p> <ul style="list-style-type: none"> • If you do not use tiers for your projects, projects are grouped in a single category called Unknown. • If you do not have the Policy Management module, this widget displays Projects by Tier. 	For each tier, hover over a bar to see the number of projects in this phase and the number of projects in this phase with a policy violation.
<p>The Statistics widget displays the following information:</p> <ul style="list-style-type: none"> • Projects lists the number of your projects. • Versions lists the number of project versions for your projects. • Vulnerabilities lists the number of vulnerabilities in your projects. • Components lists the number of components used in your projects, <i>including</i> ignored components. • Scanned Code lists the number of GBs scanned for all scans. 	<p>Select the projects value to view the Projects tab listing all projects you can view.</p> <p>Select the vulnerability value to view the Security tab filtered to show the vulnerabilities with a New, Needs Review, or Remediation Required status.</p> <p>Select the components value to view the Components tab showing all components used in the projects you can view. Note that this tab <i>excludes</i> ignored components.</p>

Viewing the risk associated with components used your projects

The Component Dashboard lists the components used in one or more of your projects. On the left side of the page risk graphs show the total number of components used in one or more of your projects and the security, license, and operational risks associated with these components. This is a focused view of risk for each of the components that comprise your projects.



Note: If a component is used in more than one of your projects, its associated risks in each category are counted only once in the total risk numbers shown in the risk graphs and in the components list.

Understanding the types of component risk

There are three types of risk being assessed for components used in projects:

- **Security Risk.** Components are assigned one of four categories of security risk, based on the vulnerabilities associated with the versions in use in projects.

Vulnerabilities are linked to components by the CVE numbers, as reported in the National Vulnerabilities Database (NVD) maintained by NIST or by Black Duck Security Advisories (BDSA) numbers.

Note that the security risk values shown use CVSS v2 or CVSS v3.x scores, depending on which security risk calculation you selected; by default, CVSS v2 scores are shown. Note that the graph displays a Critical risk category with a value of 0, if you selected CVSS v2.

Possible risk categories are:

- Critical. The component has critical high severity vulnerabilities.
- High. The component has high severity vulnerabilities.
- Medium. The component has medium severity vulnerabilities.
- Low. The component has low severity vulnerabilities.
- None. The component has no vulnerabilities.

- **License Risk.** Projects are assigned one of four categories of overall license risk:

- High. At least one version of the component in use in a project has a declared license that is high risk.

- Medium. At least one version of the component in use in a project has a declared license that is medium risk.
 - Low. At least one version of the component in use in a project has a declared license that is low risk.
 - None. At least one version of the component in use in a project has a declared license that is no risk.
- **Operational Risk.** Operational risk is based on a combination of factors: (1) the strength of the component community, including the number of contributors and the level of commit activity; and (2) the number of newer versions of the component that are available than the one that is currently in use.

Project versions can have four categories of operational risk.

- High. The component has high combined operational risk and a version is used in at least one project.
- Medium. The component has medium combined operational risk and a version is used in at least one project.
- Low. The component has low combined operational risk and a version is used in at least one project.
- None. The component has no operational risk and a version is used in at least one project.

Understanding the component table

The table contains the following information:

Column	Description
Component Name	Name of the component that is in use in one or more of your company's projects. Select the component name to display the Black Duck KB page for that component. Click > for components with multiple versions to view a list of the versions used in your projects.
Versions	Number of versions of this component that are in use in one or more projects. Select the version number to display Black Duck KB <i>Component Name Version</i> page.
Used Count	Number of project version BOMs that include a version this component.
Security Risk	Bar which shows the security risk for this component version.
License Risk	Bar which shows the license risk for this component version.
Operational Risk	Bar which shows the operational risk for this component version.

Filtering the dashboard

The number displayed before the risk severity bars in the risk graphs indicates the number of components in use in at least one project that have that type of risk at that severity level. You can use the risk graphs to filter the OSS components list to show only those components that have a specific type and severity of risk.

About security risk

Black Duck helps security and development teams identify security risks across their applications.

By mapping vulnerabilities to your open source software, Black Duck can provide you with high-level overview information on security risk of your projects, along with detailed information on security vulnerabilities which you can use to investigate and remediate your security vulnerabilities.

Vulnerabilities are linked to the open source components by the Common Vulnerabilities and Exposures numbers (CVEs), as reported in the National Vulnerabilities Database (NVD) maintained by the National Institutes of Standards and Technology (NIST) and/or by (BDSA) numbers. If you have licensed Black Duck Security Advisories.

Security risk levels

NVD and BDSA use the Common Vulnerability Scoring System (CVSS) which provides a numerical score reflecting the severity of a vulnerability. The numerical score is then translated into a risk level to help you assess and prioritize security vulnerabilities.

Black Duck provides you with the option of viewing CVSS v2 or CVSS v3.x scores. By default, Black Duck displays CVSS v2 scores.

- CVSS v2 scores has the following values:
 - Low risk: 0.0 - 3.9
 - Medium risk: 4.0 - 6.9
 - High risk: 7.0-10.0

Note that Black Duck shows vulnerabilities with a 0.0 score as no risk.

Although CVSS v2 does not have a Critical risk category, the security graphs in the Black Duck UI display a Critical risk category. This category will display a value of 0 for CVSS v2.

- CVSS v3.x scores has the following values:
 - None: 0.0
 - Low risk: 0.1 - 3.9
 - Medium risk: 4.0 - 6.9
 - High risk: 7.0 - 8.9
 - Critical risk: 9.0 - 10.0

Note that the scores shown for CVSS v3.x can be v3.0 or v3.1 scores.

Suggested work flow

To manage security risk using Black Duck:

1. With the assistance of your security team, determine your security risk policies.
2. If necessary, users with the system administrator role can define the default security risk calculation.
3. Create policies that trigger violations when components do not comply with your security policies.

4. Depending on your interests:

- Use the Summary Dashboard to view the overall health of your projects and identify areas of concern. Use this page to quickly assess areas where you need to focus your attention.
- Use these pages for a high-level overview information of security risk:
 - Dashboard to view the overall security risk across all your projects.
 - Component Dashboard to view the risk for each of the components that are used in one or more of your projects
 - Security Dashboard to view the security risk associated with all the vulnerabilities that exist in your projects. This dashboard also shows the remediation status of all the vulnerabilities that exist within the projects.
- Use these pages for project version-level information:
 - project version page/**Components** tab, also known as the project version BOM, to view the components specific to that project version, that have security risk.
 - project version page/ **Security** tab to view the security vulnerabilities of each severity associated with the components used in a project version.

5. Investigate vulnerabilities and policy violations. For detailed information on security vulnerabilities, view the:

- CVE page
- BDSA page if you have licensed Black Duck Security Advisories (BDSA)

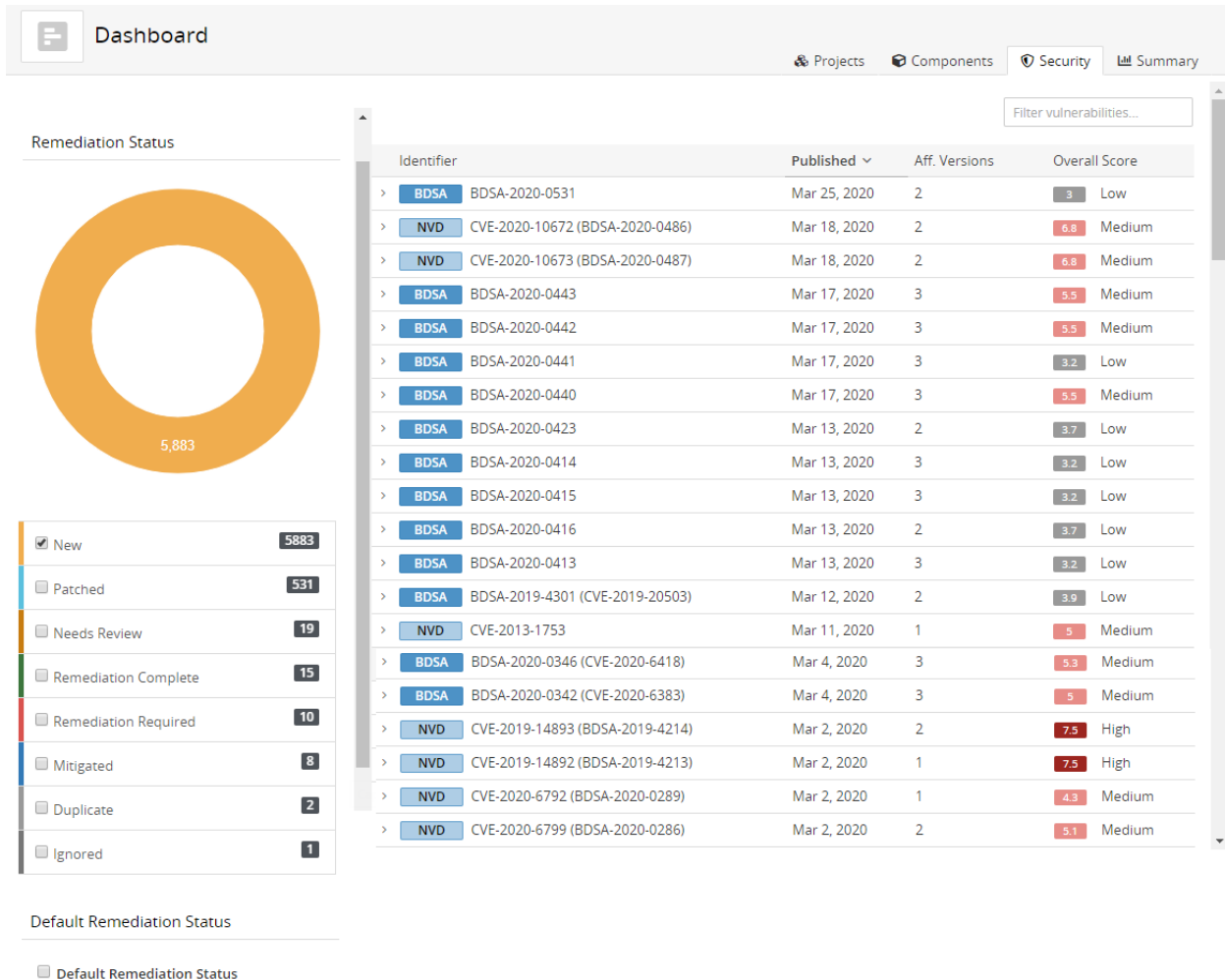
6. After reviewing the severity of the vulnerability, users with the appropriate role can change the remediation status of the security vulnerability.

7. Monitor notifications for any new security vulnerabilities.

You will receive notification alerts if security vulnerabilities are published or updated against components that are included in one or more of your projects.

Viewing all security vulnerabilities

Use the Security Dashboard to identify and manage risk. This dashboard lists all the security vulnerabilities that affect your projects.



Using the Security Dashboard is an efficient way to:

- Identify the remediation status of all the vulnerabilities in your projects.
- Review the severity of the vulnerability to determine if remediation is required.

Note: The security risk values shown use CVSS v2 or CVSS v3.x scores, depending on which security risk calculation you selected; by default CVSS v2 scores are shown.

⚙ To use the Security Dashboard to identify and manage risk

1. Log in to Black Duck.
2. From the Dashboard, click the **Security** tab to display the Security Dashboard.
3. You can use:
 - The table filter field to filter the vulnerabilities shown in the table by identifier.
 - The **Aff. Versions** column to view the number of project versions affected by this vulnerability. Use this column to identify the vulnerabilities that are affecting the greatest number of versions of your

projects.

- The Remediation Status chart to view the remediation status of all vulnerabilities that exist within all projects and the number of vulnerabilities with each remediation status.

By default, the chart displays all remediation statuses. Clear the check box to hide the vulnerabilities with that remediation status.

- The **Overall Score** column shows the Temporal score (for BDSA), or Base score (for NVD) and associated risk level. Hover over the **Overall Score** value to see the individual values.
 - For BDSA, the Temporal, Base, Exploitability, and Impact scores are shown.
 - For NVD, the Base, Exploitability, and Impact scores are shown.
- The table to view more information on a vulnerability by selecting > next to the vulnerability that interests you.

Description	Base Score Metrics
IBM Jazz Foundation (IBM Rational Engineering Lifecycle Manager 5.0 through 6.0.6) is vulnerable to cross-site scripting. This vulnerability allows users to embed arbitrary JavaScript code in the Web UI thus altering the intended functionality potentially leading to credentials disclosure within a trusted session. IBM X-Force ID: 152740.	<div> <div>AV NETWORK</div> <div>AC MEDIUM</div> <div>AU SINGLE</div> </div> <div> <div>A NONE</div> <div>C NONE</div> <div>I PARTIAL</div> </div>
View CVE record	<div>Published on</div> <div>Mar 14, 2019</div> <div>Last Modified</div> <div>Apr 15, 2019</div>

Select to view the BDSA record and/or the CVE record from which you can remediate the vulnerability, if you have the appropriate role.

Note: A single vulnerability can be present multiple times in the remediation status pie chart since it can have multiple different remediation types within a single BOM or across multiple project version BOMs. However, a single vulnerability is listed in only one row in the table.

Chapter 4: 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 you the BOM.

The screenshot shows the Black Duck Projects interface for 'Sample Project' 1.0. The 'Components' tab is active, displaying a table of components and their associated risks. Above the table are three risk summary charts: Security Risk (Critical: 2, High: 2, Medium: 0, Low: 0, None: 0), License Risk (High: 5, Medium: 1, Low: 0, None: 7), and Operational Risk (High: 10, Medium: 0, Low: 0, None: 3). The table lists various components like Apache Commons FileUpload, Apache log4j, Apache Lucene, and Apache Jakarta Jmeter, each with its source, match type, usage, license, and risk levels.

Component	Source	Match Type	Usage	License	Security Risk	Operational Risk
Apache Commons FileUpload 1.1	1 Match	Direct Dependency	Dynamically Linked	Apache-2.0	High	High
Apache log4j 0.9.7	1 Match	Direct Dependency	Dynamically Linked	Apache-2.0	High	High
Apache log4j 1.0.4	1 Match	Direct Dependency	Dynamically Linked	Apache-1.1	High	High
Apache Lucene 1.4.3	1 Match	Direct Dependency	Dynamically Linked	Apache-2.0	High	High
Apache-jakarta-jmeter 2.0.3	1 Match	Direct Dependency	Dynamically Linked	Apache-2.0	High	High
Apache-jakarta-jmeter 2.1.1	1 Match	Direct Dependency	Dynamically Linked	Apache-2.0	High	High
Bit5Blog Bit 5 Blog 7.0	1 Match	Direct Dependency	Dynamically Linked	GPL-2.0+	High	High
Bit5Blog Bit 5 Blog 6.0	1 Match	Direct Dependency	Dynamically Linked	GPL-2.0+	High	High
Bit5Blog ?	1 Match	Direct Dependency	Dynamically Linked	Unknown License	High	High
Commons IO 1.1	1 Match	Direct Dependency	Dynamically Linked	Apache-2.0	High	High
Device::Davis 1.2.3	1 Match	Direct Dependency	Dynamically Linked	Artistic-1.0 or 1 more...	High	High

By default, the BOM displays a "flat" view of components where all components found are listed at the same level. Select **Component Tree** to view a hierarchical view which is based on file system relationships.

Adjusting the component and/or component version in a BOM

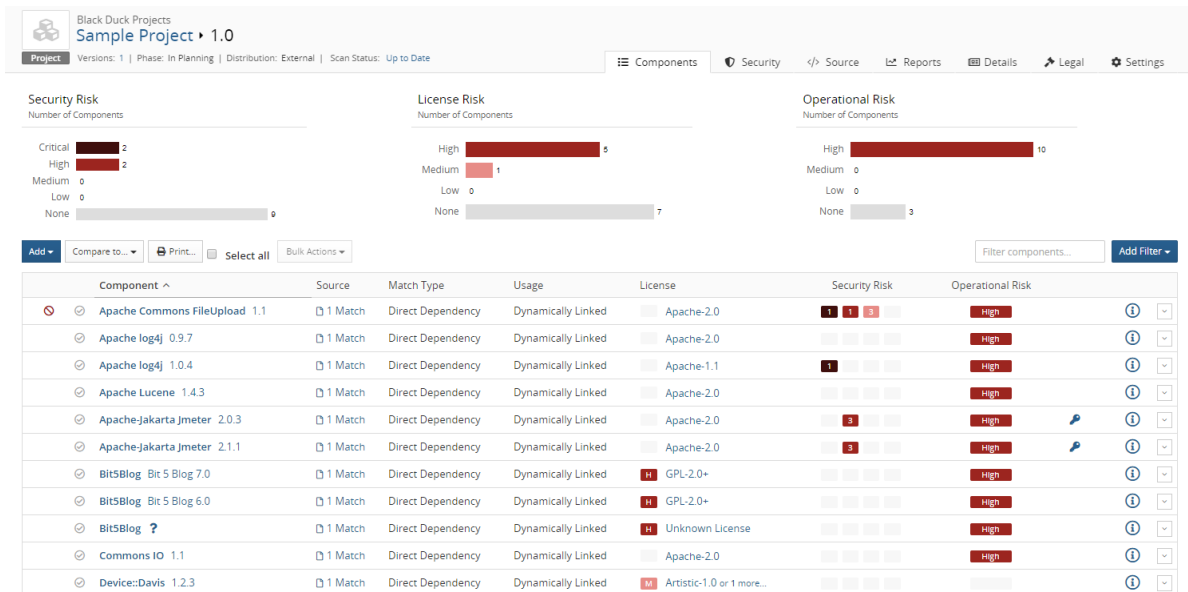
Once you have mapped a component scan to a project version, the scan results automatically create the project version's BOM. Although component scanning automatically discovers the open source component and

component version from most archive files by comparing them to components in the Black Duck KB, you may be using a version of the component that is not available in the 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 the 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 the 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.
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.



Component	Source	Match Type	Usage	License	Security Risk	Operational Risk
Apache Commons FileUpload 1.1	1 Match	Direct Dependency	Dynamically Linked	Apache-2.0	High	High
Apache log4j 0.9.7	1 Match	Direct Dependency	Dynamically Linked	Apache-2.0	High	High
Apache log4j 1.0.4	1 Match	Direct Dependency	Dynamically Linked	Apache-1.1	High	High
Apache Lucene 1.4.3	1 Match	Direct Dependency	Dynamically Linked	Apache-2.0	High	High
Apache-Jakarta Jmeter 2.0.3	1 Match	Direct Dependency	Dynamically Linked	Apache-2.0	High	High
Apache-Jakarta Jmeter 2.1.1	1 Match	Direct Dependency	Dynamically Linked	Apache-2.0	High	High
Bit5Blog Bit 5 Blog 7.0	1 Match	Direct Dependency	Dynamically Linked	GPL-2.0+	High	High
Bit5Blog Bit 5 Blog 6.0	1 Match	Direct Dependency	Dynamically Linked	GPL-2.0+	High	High
Bit5Blog ?	1 Match	Direct Dependency	Dynamically Linked	Unknown License	High	High
Commons IO 1.1	1 Match	Direct Dependency	Dynamically Linked	Apache-2.0	High	High
Device: Davis 1.2.3	1 Match	Direct Dependency	Dynamically Linked	Artistic-1.0 or 1 more...	High	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 the 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:

<div> <div></div> <div></div> </div>		<div>Add</div>	<div>Bulk Actions</div>	<div>Compare to...</div>	<div>Print...</div>	<div>Match Status</div> <div>Confirmed</div> <div>×</div>	<div>Ignore</div> <div>Not ignored</div> <div>×</div>	<div>Filter components...</div>	<div>Add Filter</div>
Component ^		Source	Match Type	Usage	License	Security Risk		Operational Risk	
<div> <div></div> <div>AOP Alliance (Java/JZEE AOP standard) 1.0</div> </div>		<div> <div></div> <div>1 Match</div> </div>	<div>Exact</div> <div>Directory</div>	<div>Dynamically</div> <div>Linked</div>	<div>Public</div> <div>Domain</div>	<div> <div></div> <div></div> <div></div> </div>		<div>High</div>	

Selecting a different license for a component in a BOM

You can select a license for a component used in a BOM that is different from the component's declared license that is identified in the Black Duck KB.

⚙ To select a different license for an OSS component in the 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 to open the **Components** tab and view the BOM.
4. Select the existing license to open the *Component Name Version* Component License dialog box.

Component License

Attribution Statement >

License: Apache License 2.0

Apache License 2.0
Status: Unreviewed | Family: Permissive

Permitted	Forbidden	Required
> Private Use	> Test Term	> State Changes
> Place Warranty	> Hold Liable	> Include Notice
> Modify	> Use Trademarks	
> Distribute		
> Commercial Use		

Apache License
Version 2.0, January 2004
=====

<http://www.apache.org/licenses/>

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1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities

Close Save Changes

5. Backspace to clear the field and then type the name of the license that you want to assign, and from the list of suggestions, select the one you want.
6. Click **Save Changes**.

The assigned license is updated. If the new license carries a different type of license risk than the previous one, the license risk calculations for the component and for the project version are updated. A

 appears in the table row to indicate that a manual adjustment was made to this component.