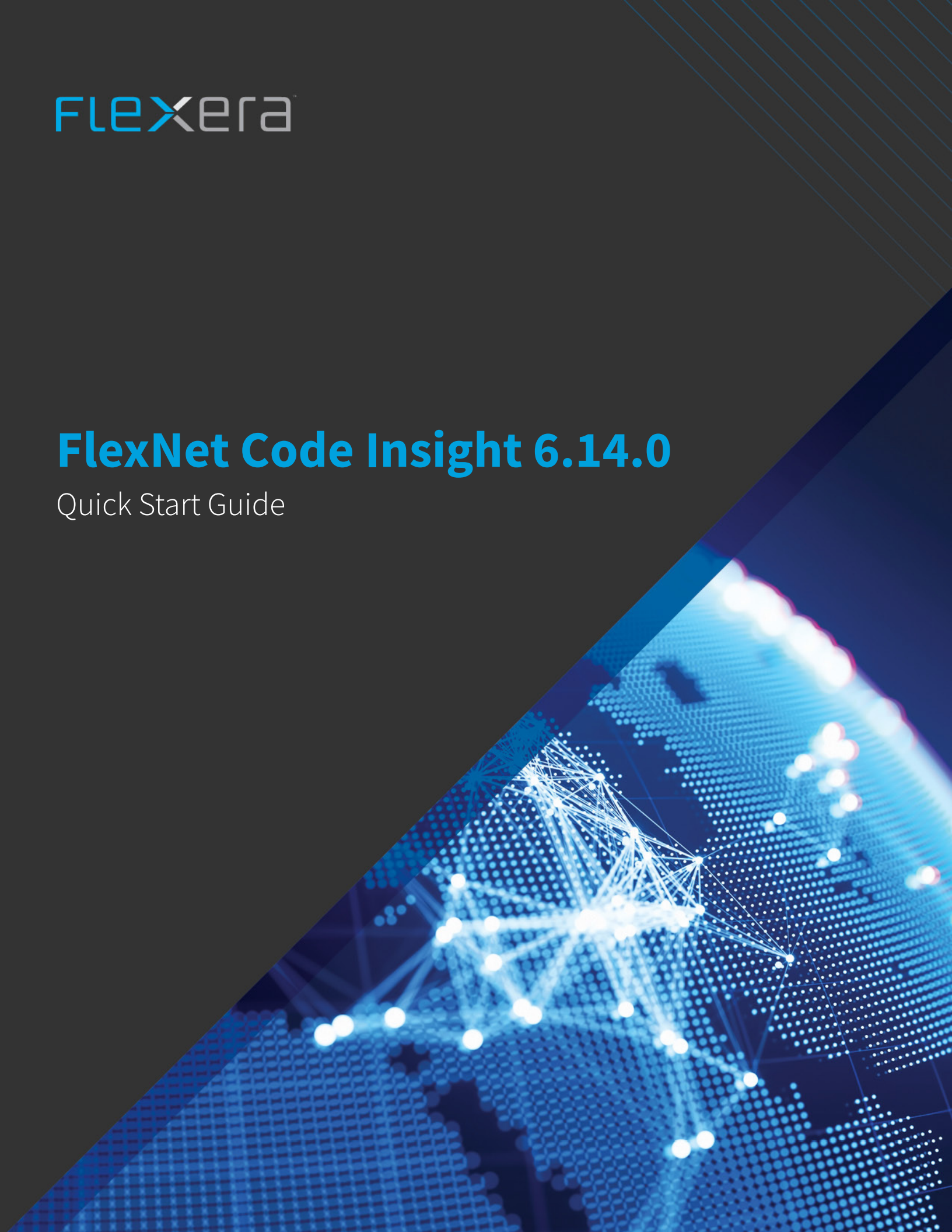




FlexNet Code Insight 6.14.0

Quick Start Guide



Legal Information

Book Name: FlexNet Code Insight 6.14.0 Quick Start Guide
Part Number: FNCI-6140-QSG00
Product Release Date: February 2020

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Introduction

FlexNet Code Insight is an application security solution targeting the widespread use of open source software (OSS). FlexNet Code Insight's unique software composition analysis technology captures the composition of a code base, and provides your team with an inventory of OSS component usage. The resulting inventory identifies security vulnerabilities and intellectual property issues associated with the inventoried OSS components.

To quickly start using FlexNet Code Insight and become familiar with its features and capabilities, perform the exercises presented in this Quick Start Guide.

Launching FlexNet Code Insight

To launch FlexNet Code Insight, perform the following steps.



Task

To launch FlexNet Code Insight, do the following:

1. Launch a web browser and open the following URL:
`http://localhost:8888/palamida/`
2. Login into FlexNet Code Insight using the following credentials:
 - **User name:** admin
 - **Password:** Password123

Manually Applying Electronic Updates

The first time FlexNet Code Insight starts up, it needs to obtain the latest component and license metadata, and tries to do this automatically using the HTTPS protocol. If, for some reason, the FlexNet Code Insight server is blocked from obtaining these files, you will have to manually download and apply these files.



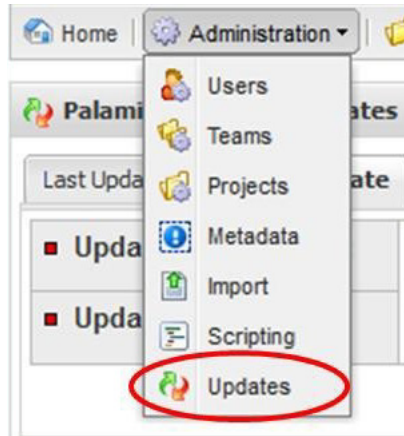
Task

To manually apply electronic update to FlexNet Code Insight, do the following:

1. Download the following FlexNet Code Insight files:

File	Download Location
update_manifest.txt	Contact Technical Support
update.zip	Contact Technical Support

2. Log in to FlexNet Code Insight as the administrator, as described in [Launching FlexNet Code Insight](#). The FlexNet Code Insight home page opens.
3. From the **Administration** menu, click **Updates**.



4. When prompted to upload the manifest and data files, browse to the downloaded files for both the manifest (update_manifest.txt) and data (update.zip) files and click **Update**.

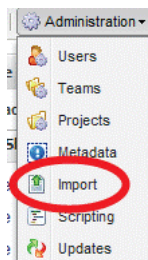
Adding FlexNet Code Insight User Logins

When you first install FlexNet Code Insight, there is just one user: **admin**. To add more user logins, perform the following steps.



Task To add FlexNet Code Insight user logins, do the following:

1. Login to FlexNet Code Insight.
2. On the **Administration** menu, click **Import**.



The **Import** screen opens.

3. Select **Download a sample workbook for bulk user import** and download the sample workbook.
4. Return to the **Import** screen, browse for the file you just downloaded, and click **Import**. Users will be added.
5. To view the new users, select **Users** on the **Administration** menu.
6. To set the permissions and passwords for these new users, edit user and assign rights and set the passwords. In the following example, the **owner** user is being assigned all of the FlexNet Code Insight rights.

User Details	
■ Login	<input type="text" value="owner"/>
■ First Name	<input type="text" value="Owner"/>
Middle Name	<input type="text" value="(owner)"/>
■ Last Name	<input type="text" value="Smith"/>
■ Email	<input type="text" value="user@email.com"/>
Job Title	<input type="text"/>
Business Unit	<input type="text"/>
Location	<input type="text"/>
Telephone	<input type="text" value="415-555-1212"/>
Facsimile	<input type="text"/>
■ Login Question	<input type="text" value="company"/>
■ Login Answer	<input type="text" value="palamida"/>
Lock Account	<input type="checkbox"/>
Generate Password	<input type="checkbox"/>
Password	<input type="text"/>
Confirm Password	<input type="text"/>

System Administrator	<input checked="" type="checkbox"/>
Policy Administrator	<input checked="" type="checkbox"/>
Scripting Administrator	<input checked="" type="checkbox"/>
Requester	<input checked="" type="checkbox"/>
Reviewer	<input checked="" type="checkbox"/>
Participant	<input checked="" type="checkbox"/>

Save Cancel

Creating a Team

To group several users into a team, perform the following steps.



Task

To create a team, do the following:

1. While you are logged in as the Administrator, create a team. All projects will have an Owner and belong to a Team or organization usually responsible for the software project.
2. Under **Administration** on the top toolbar, click the **Teams** link.
3. Click **Add New Team**.
4. Give the team a name but do not fill in the scan folder restrictions.

Creating a Project

To create a project, perform the following steps.



Task

To create a project, do the following:

1. While you are logged in as the Administrator, create a project.
2. Under the **Administration** drop-down at the top toolbar, click the **Projects** link.

3. Click **Add New Project**.
4. Select the team you just made and make the project owner the user: Owner and give the project the name of “E-portal 1.3” (this is the name of the code base we are going to scan.)

Changing Project Settings

To change project settings, perform the following steps.



Task

To change project settings, do the following:

1. Log out and log in as *Owner* with the password that you inserted for this user.
2. Select **My Projects** on the top toolbar to see *e-Portal 1.3*.
3. Click the **Edit Project** icon in the **Actions** column

Name	Team	Owner	Status	Inventory	Requests	Tasks	Actions
E-Portal 1.3	Dev Team	Owner Smith	In Progress	15	4	5	

4. In the first tab, “General Information”, perform the following changes:
5. Change the Request Form to **Short Request Form Definition**.
6. Check off all Advanced Options – in particular is the **Auto-Publish System-Detected Inventory**.
7. Add a Review Level called **Legal Review**.

Project Details

General Information | Observers | QuickReview Facilitators | Auditors | Security Analysts | Requesters | Legal Review

Name: E-Portal 1.3

Description: A project is a specific version of an application in which to manage the third-party materials within it as well as related licensing, obligations, and security vulnerabilities. This project scans a sample code-base for use with Palamida Enterprise Edition tutorials and evaluations.

Team: Dev Team

Owner: Owner Smith (owner)

Project Summary Email Frequency: Monthly

Request Review Reminder Email Frequency: Weekly

Request Form: Short Request Form Definition

Advanced Options (circled in red):

- ☒ Enable Inventory Quick Review
- ☒ Auto-Publish System-Detected Inventory
- ☒ Apply Policies to Inventory

Review Levels: Add Review Level (+)

Aliased Project: Add Aliased Project (+) Remove Aliased Project (-)

8. For each **Review Level** created, a new tab is added to the **Project Details** with the same name given for the Review Level. You must associate users who are allowed to approve project requests.
9. On the **Legal Review** tab, add the *owner* as a user allowed to approve requests.

Project Details

General Information | Observers | QuickReview Facilitators | Auditors | Security Analysts | Requesters | **Legal Review**

Manager Review

Search: [] [X] Delete Reviewers [X] Add Reviewers (+)

First Name	Last Name	Email
Owner	Smith	user@email.com

User Lists

Search: [] [X] Add Reviewers (+)

10. Add a user able to submit new requests in the project by clicking on the **Requesters** tab and adding the **Requester1** user.

Project Details

General Information | Observers | QuickReview Facilitators | Auditors | Security Analysts | **Requesters** | Legal Review

Requesters

Search: [] [X] Delete Requesters [X] Add Requesters (+)

First Name	Last Name	Email
Requester1	One	user@email.com

User Lists

Search: [] [X] Add Requesters (+)

11. Save the changes for the project.

Creating a Workspace

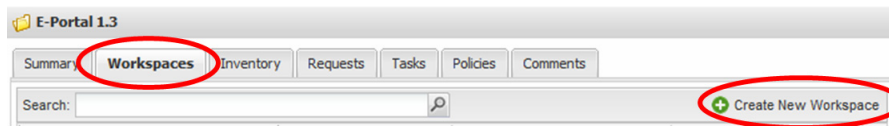
To create a workspace, perform the following steps.



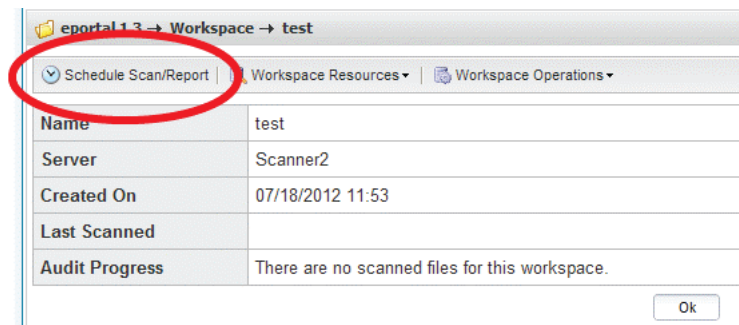
Task

To create a workspace, do the following:

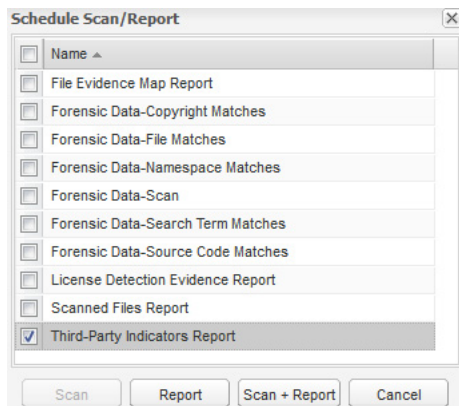
1. Log out and then log in as *Owner* with the password that you inserted for this user.
2. Select **My Projects** on the top toolbar to see *e-Portal 1.3*.
3. Click the blue hyperlink for this project and go to the **Workplaces** tab.



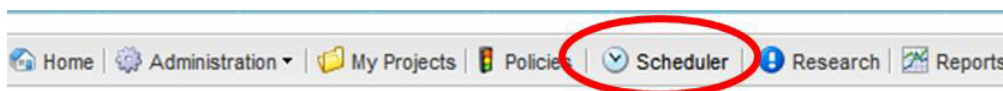
4. Click **Create New Workspace**.
5. Give the workspace a name (no spaces, periods, or special characters) and accept the default scanner that is indicated (set to **scanner1** by default).
6. On the next screen, in the **Folders to scan** section, browse to [palamida install directory]\docs\tutorial\ePortal-1.3\.
7. Save the settings and return to the **Workspaces** page.
8. Click the hyperlinked name of the workspace and on the next page, click **Schedule Scan/Report**.



9. A good report to include with your scan is the **Third-Party Indicators Report**, so check this report and select **Scan + Report**.



10. Select **Scheduler** on the top toolbar to view the status of scans, reports, and other tasks:



Managing Project Inventory

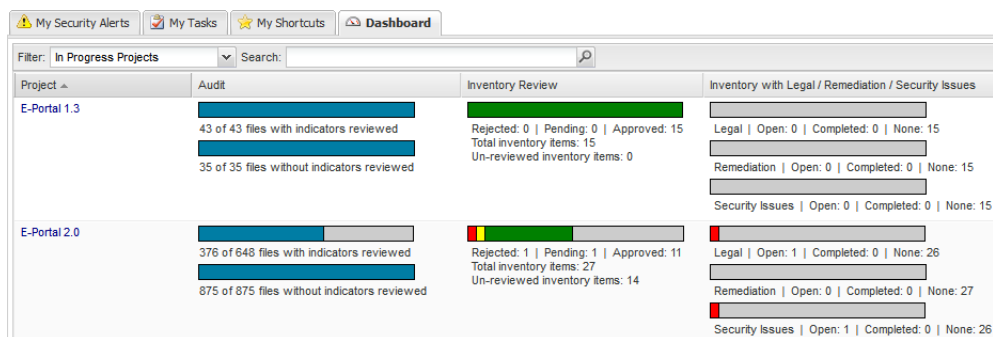
To manage project inventory, perform the following steps.



Task

To manage project inventory, do the following:

1. Log into FlexNet Code Insight as **Owner**. All projects the user has access to in the system are displayed in the **Dashboard** along with some additional information.



2. On the **Dashboard**, click the name of the E-Portal 1.3 project.
3. Click the **Inventory** tab to see any auto-published bills of material.
4. Click an item's name (for example, **hibernate 3.1.3**).

Summary Workspace Inventory Requests Tasks Policies Comments									
Basic Search Advanced Search Filter: All Inventory Items Search: <input type="text"/>									
ID	Name	Component	License	# Files	Priority	Review Status	Act...		
1	zlib 1.2.3	zlib 1.2.3	zlib/libpng License	1	4 - Low	Ready for Review			
2	wsl4j 1.5.1	wsl4j 1.5.1	Common Public License 1.0	1	2 - High	Ready for Review			
3	samba-jcifs 1.2.19	samba-jcifs 1.2.19	GNU Lesser General Public License v2..	1	2 - High	Ready for Review			
4	prototype 1.6.0.2	prototype 1.6.0.2	MIT license (also X11)	3	4 - Low	Ready for Review			
5	json-lib 2.3	json-lib 2.3	Apache License 2.0	1	4 - Low	Ready for Review			
6	joda-time 1.3	joda-time 1.3	Apache License 2.0	1	4 - Low	Ready for Review			
7	jdom-project 1	jdom-project 1	JDOM Apache-Style License	1	4 - Low	Ready for Review			
8	hibernate 3.1.3	hibernate 3.1.3	GNU Lesser General Public License v2..	1	2 - High	Ready for Review			
9	ezmorph 1.0.6	ezmorph 1.0.6	Apache License 2.0	1	4 - Low	Ready for Review			
10	dwr 2.0.1	dwr 2.0.1	Apache License 2.0	1	4 - Low	Ready for Review			

- Investigate the license detail information. If the shield icon is red, the component/version contains vulnerabilities and can be shown.

If Red, view vulnerabilities

Component: **hibernate 3.1.3** Priority: 2 - High

License: **GNU Lesser General Public License v2.1** Remediation: Not Required

Ready for Review **Change Inventory Status...**

Inventory Details **Comments (0)** **Questions (0)** **Checklist Items (0)** **Attachments (0)**

Inventory Name	hibernate 3.1.3	License Detail	QuickReview -- Approve/Reject
Inventory Id	8		
Component Description	Hibernate - Relational Persistence for Idiomatic Java		
Possible Licenses	GNU Lesser General Public License v2.1		Edit Possible Licenses List
As-Found License Text	View As-Found License Text		
Number of Files	1 File		
Review Status	Ready for Review This inventory item is ready to be reviewed.		
Auditor Notes	None		
Detection Notes	Detection Confidence: 100% Supporting Evidence: Multi-Indicator: System rule 106319: MID Rule for Hibernate		
Disclosed	No		

- To perform a Quick Approval or Rejection, select the **Change Inventory Status** drop-down.
- Since the Owner also has Policy Administration rights, you are prompted to create an automatic policy for this component. By creating a policy, the next time this component is inventoried it will be automatically approved or rejected based on the selected inventory status.

Running Reports

To run reports, perform the following steps.

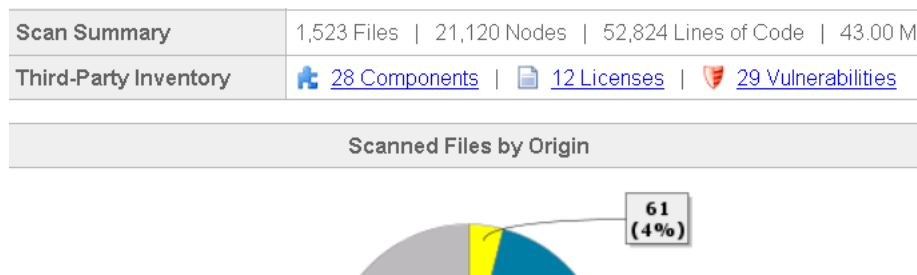


Task

To run reports, do the following:

- Click the **Reports** icon on the top toolbar.
- Select the FlexNet Code Insight Report.
- Select the **Report Scope** for the created Team and Project.
- Click **Generate** to run the report.

- Click the components, licenses and vulnerabilities links to see third-party inventory details.



Making a Request

To make a request, perform the following steps.



Task

To make a request, do the following:

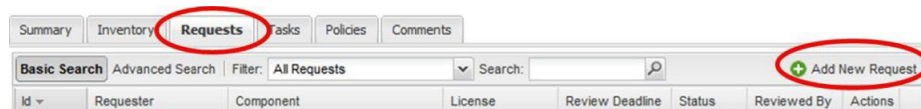
- Log out and log back into FlexNet Code Insight as *Requester1*, using the same password as *Owner*.

Welcome **Requester1** | My Settings | Help | Logout



Note • We gave permission to *Requester1* to create requests for the *E-Portal 1.3* project in [Changing Project Settings](#).

- Click the **E-Portal 1.3** link in the dashboard.
- Click the **Requests** tab and select **Add New Request**.



- Fill out the form by searching for a component (for example, *zlib*), identifying the versions and license for the request, and then answering any required questions (identified by the red square).
- Click **Submit**.

General Usage Additional Information

■ **Component Name:**
zlib Search Component Any Component View Component Versions View Component Metadata

■ **Component Version:**
1.2.5 Add Version

■ **License Name:**
zlib/libpng License Add License View License Details

■ **Project Name:**
test

Review deadline: - MM/DD/YYYY
02/08/2013

■ ☒ Does this component perform "cryptography", or otherwise contain any parts or components that are capable of performing "information security" functions? [\(More Information\)](#)
☐ Yes ☒ No

■ Will this component be modified, re-compiled, or repackaged with any other software?
☐ Yes ☒ No

■ What is the intended usage of this component?
Internal Use (Editors, Code Inspection Software, etc.)

Submit Save as Draft Cancel

Using Detector

To use Detector, follow the procedures in this section.



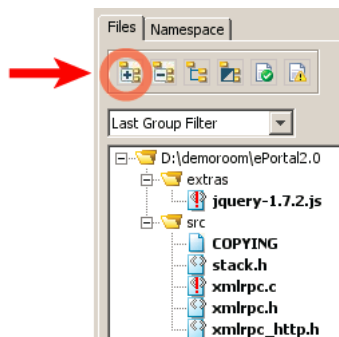
Task

To start and use Detector, do the following:

1. Log out and log back in as the *Owner* of the project.
2. On the **Dashboard**, click the name of the E-Portal 1.3 project.
3. Go to the **Workspaces** tab and click the **Detector Launch** icon in the **Actions** column.



4. To show automated findings, open the **Groups** tab, select a group (for example, **Files with GNU General Public License v2.0**) and double-click to view files in the tree browser.
5. Click **Expand Folder** in the lower left to display files that are contained in the selected group.

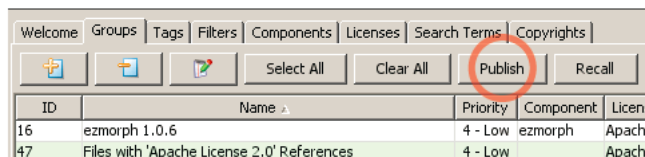


Now you may decide to classify these files into new groups which may help organize your inventory, for example when we click one of the bold names, which indicates that this is an exact bit-for-bit MD5 match.

- Highlight the `stack.h` file and in the lower center panel, and select the **Exact Matches** tab.



- One project, **Gaim-Blogger**, appears. This file is an exact match to a project component in the compliance library.
- Select the checkbox next to the **Gaim Blogger** component. The **Add to Group** dialog appears.
- Click **Create Group**. Some of the fields have been auto populated.
- Fill in as much of the data as you can and click **Save**.
- Find the group you just created in the **Groups** tab, select it and click **Publish**.



- Go back to your inventory in the web interface and confirm that the **Gaim Blogger** group has been added as a name in the inventory.



Note • Select the **Show all** option on the bottom to see all inventory items on one page. Otherwise, click through to see the pages.

Detector Forensic Analysis

To perform forensic analysis of the Detector, perform the following steps.



Task

To perform forensic analysis of the Detector, do the following:

- Go to the Detector client and select the group, **Files with GNU General Public License v2.0**.
- Expand the tree to see which files are in the group.
- Select the file `xmlrpc.c`, which has a red exclamation point, which indicates that there is a partial match with this file and signatures in our library.
- Click the **Partial Matches** tab and click the colored checkboxes at the top of the panel to show where in the code there are copyright, URL, license matches or search terms.
- Select the **Source Matches** checkbox.

Node: [xmlrpc.c](#) MD5: [7e0ca84a44501336f9ab74a2b42540c9](#)

Summary | Exact Matches | Partial Matches | Tags | Groups

☐ Copyrights ☐ Email/URLs ☐ License Matches ☐ Search Terms ☒ Source Matches

Show: All Matches Contains:

Mark	Matched File	Component : Release	CR %	CV %	CL %	U %	Matches
<input type="checkbox"/>	xmlrpc.c	gaim-blogger : gaim-blogger-0.75.tar....	98.05	100.00	94.03	100.00	329
<input type="checkbox"/>	xmlrpc.c	gaim-blogger : gaim-blogger-0.69.tar.gz	100.00	100.00	100.00	100.00	336

6. Two projects from the library appear. Next to these two projects you will see the code rank score, which is an aggregate score factoring in code uniqueness (U), contiguousness (CL) and coverage (CV). This ranking gives the person performing the audit clues as to the provenance of the file under analysis.
7. Once the auditor decides on the origin of the file they can mark it (in this case, mark it as gaim-blogger-0.69.tar.gz).
8. In the **Group** dialog add it to the existing **Gaim Blogger** group.

