Open source scan

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1. License

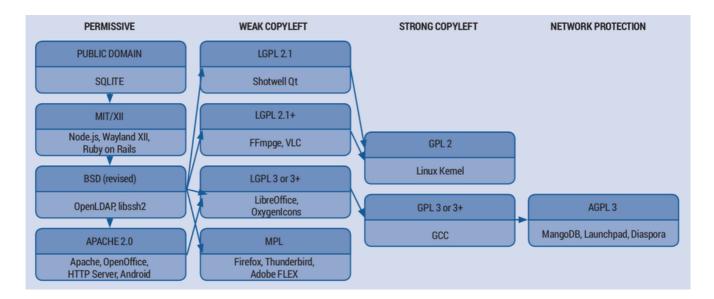
1.1 Free software license

WIKI: https://en.wikipedia.org/wiki/Free_software_license

Rights in Copyright

Public Domain	Non- Protective FOSS License	Protective FOSS License	Proprietary License	Trade Secret
All rights relinquished	more rights	granted more	rights retained	All rights retained

1.2 License



- ↓ GPL

 https://en.wikipedia.org/wiki/GNU_General_Public_License
- **♣** LGPL
- **♣** BSD
- **♣** MIT
- Appache
- others

2. Blackduck install and configuration

2.1 About blackduck

website:

Blackduck office website: https://www.blackducksoftware.com/

Blackduck product and solution: https://www.blackducksoftware.com/about Compliance: https://www.blackducksoftware.com/solutions/open-source-license-

compliance

Security: https://www.blackducksoftware.com/solutions/application-security

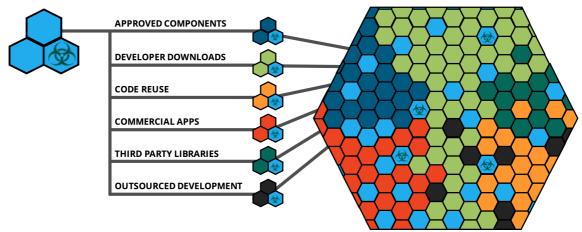
Product/solution:

Open Source Compliance & Management

Black Duck® <u>Protex</u>™ integrates with existing development tools to automatically scan your code and identify software origins to reduce business risks.

- Open source identify
 Scan and check which third-party open source code in your project
- Open source license compliance Check which license those open source you are using GPL? LGP? BSD? etc.
- Which open source can be reused based on company policy/audit
- Provide a license obligation report

Security



- What open source components are in your code?
- ♣ Are they affected by known security vulnerabilities?
- Are they up-to-date and do they comply with policy?

Security solution

- Automatically maps open source in use to known open source security vulnerabilities
- ♣ Flags policy violations and tracks remediation progress
- ♣ Continuously monitors for newly identified open source vulnerabilities

2.2 Blackduck for Cisco

Login:

both local and online, login with CEC ID

Support team mail list:

If you failed to login blackduck website via CEC ID, please ask support team for help

Firstly, contact with:

John Smarrella-X jsmarrel@cisco.com

or below mail list:

Srikanth Malipatlolla -T (srmalipa - COMPUCOM SYSTEMS INC at Cisco) <srmalipa@cisco.com>;
Adibettahalli Anand (aanand) <aanand@cisco.com>;

Adibertanani Anand (aanand) <aanand@cisco.com>;

ABHINEET DESHPANDE (abhindes) <abhindes@cisco.com>;

Allan Dolores -X (adolores - TECHNICOLOR SA at Cisco) <adolores@cisco.com>; Sandeep Mehta (sandemeh) sandemeh@cisco.com

online scan result:

http://sjc-ipaudit-1/protex/ProtexLoginPage?uifsid=2#0=dW,dx,gc,gL,fl,cS

local scan via client:

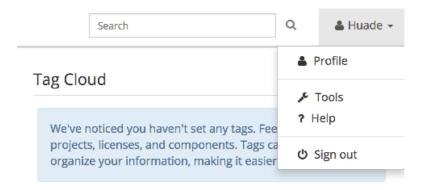
http://localhost:9000

for how to scan with local client, please refer to 2.3 for installation and 3 for code scanning

2.3 Download Blackduck

Step 1. Go to http://sjc-ipaudit-1/p/dashboard and login with your CEC ID

Step 2. Go to Tools page, as show below, click Tools



Step 3. Then click Protex Client Software as show below

Download

Protex Client Software

Download and install the Black Duck Protex code analysis software, for use by the web scanner. This must be done before you scan your code.

Step 4: Download protex client version based on your actual os, like Mac etc.

Client Software (~150 Megabytes, Includes MB Estimation Tool)

- Download (32-bit Linux)
 Download (64-bit Linux)
- Download (32-bit Windows)
 Download (64-bit Windows)
 - Download SDK Samples Download (Mac)

2.4. install Blackduck

After download, click install file to install **protex client**. Below shows the installation on mac

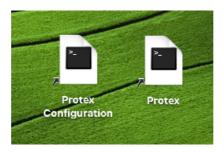


2.5 Configuration for local scan client

After installation, there will be tow command line short cut for protex client

Protex Configuration
Need to configure your local protex client's servers URL

Protex Local client for code scanning



Step 1, click Protex Configuration for server URL setting
Will direct to below web page for URL setting
http://localhost:9000/client/setPrefs.jsp

Step 2, setting server URL for **Protex**http://sjc-ipaudit-1.cisco.com is preferences setting

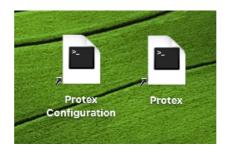
Set Black Duck™ Protex Client Preferences

Server URL:	http://sjc-ipaudit-1.cisco.com	Advanced
	(example: http://yourserver.domain.com/)	
	OK Cancel	
	Click here to login	

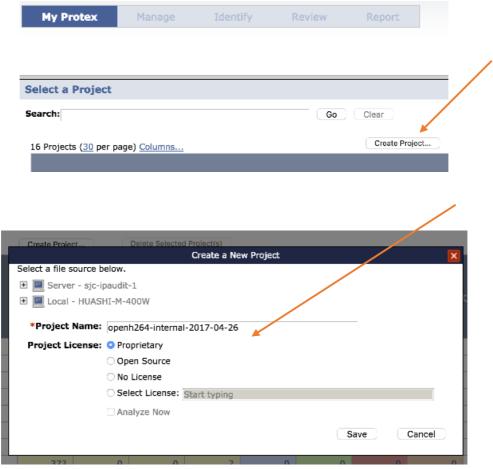
3. Scan code with Blackduck tool

3.1 Create scan project

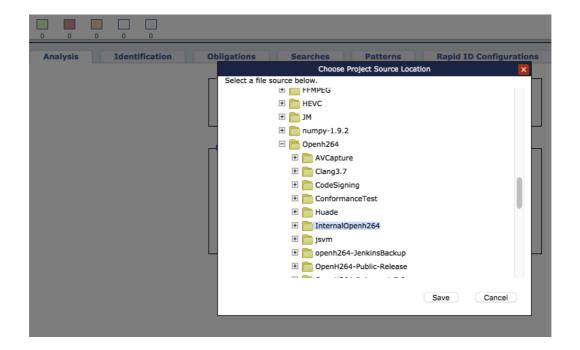
Step 1, click Pretex client command tools as below(On Mac)
Will direct to page http://localhost:9000/protex/?uifsid=3#0=dW,dx,gc,gL,fl



Step 2; Click Create Project to create one project for code scanning Below shows create one openh264-internal-2017-04-26 project to scan latest internal openh264's project code

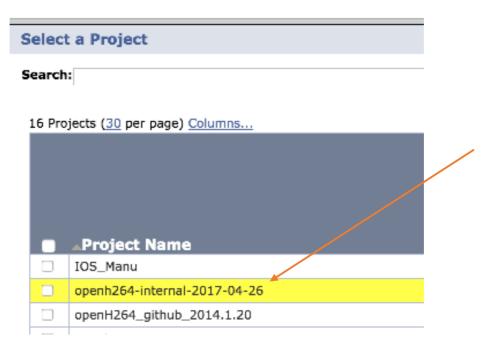


Step 3, Choose local code location and then click save

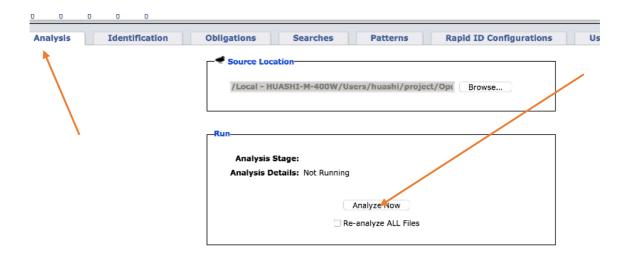


3.2. Analysis project code

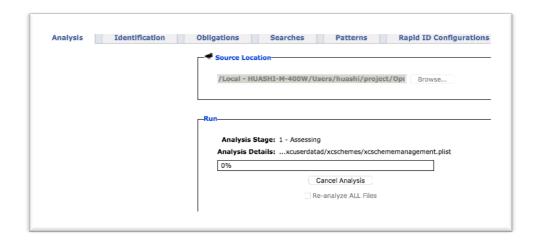
Step 1, Select project which you have created in previous step



Step 2, Clice Analysis and click Analyze Now to scan code



Step 3, wait for scan result





4. Check Analysis result

4.1 basic check

Take x264 project for example;

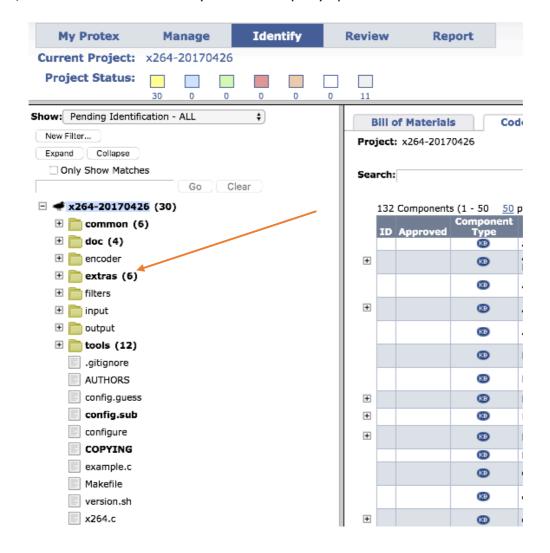
Step 1. Click x264-20170416 as below

П	∡Project Name	co ^{se}	Stins
	IOS_Manu	<u>28</u>	<u>0</u>
	openh264-internal-2017-04-26	<u>462</u>	<u>0</u>
	openH264_github_2014.1.20	<u>8</u>	<u>0</u>
	openh264_revision_547	133	<u>0</u>
	Orion -video pangu - 2.0	<u>364</u>	<u>0</u>
	Orion-Video codec-1.5	<u>69</u>	<u>0</u>
	Orion-Video codec-2.0	<u>39</u>	<u>0</u>
	Orion-video pangu-1.5	372	<u>0</u>
	T29-T27-T27codec	<u>69</u>	<u>0</u>
	T29-T27-T29codec	<u>71</u>	<u>0</u>
	T29.10-Delorean-R2-Codec	<u>0</u>	<u>0</u>
	T29.10-Delorean-R2-Pangu	<u>0</u>	<u>0</u>
	T29.8-Delorean-R1-Codec	<u>89</u>	<u>0</u>
	T29.8-Delorean-R1-Pangu	<u>78</u>	<u>0</u>
	WME-For-WX2	<u>8,440</u>	<u>0</u>
	x264-20170426	<u>30</u>	<u>0</u>

Step 2, click project status yellow square with 30 as show below



Step 3, Below shows which file may match third-party open source code



4.2 Analysis result for match code

Take code-coverage.sh file for example;

Click code-coverage.sh;

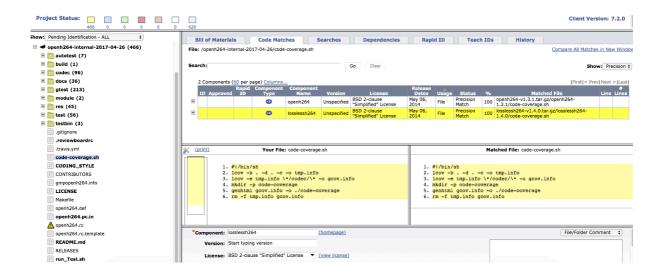
And result shows that tow open source project matched with it

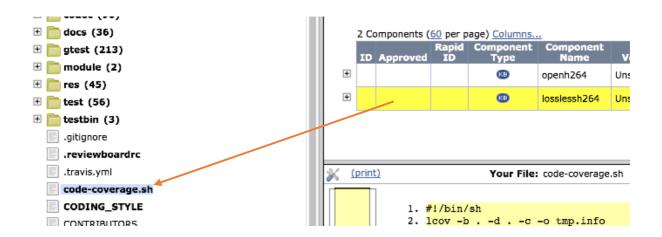
- openh264
- lossessh264

And click lossessh264,

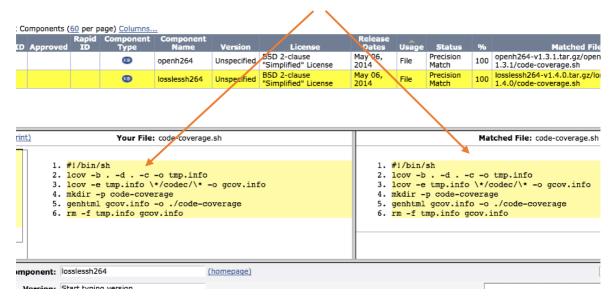
Result shows that, they are same with each other which means 100% matched.

Double check lossessh264 project, go to its **home page**, which link to **github page** And shows that it is forked from **cisco/openh264** project.





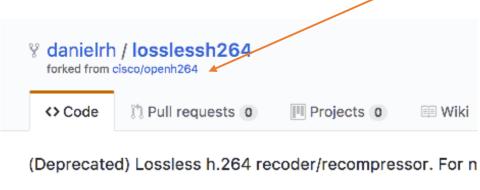
100% matched



Home page info



home page links to github page, which shows it is forked from cisco/openh264





5. IPCentral

5.1 IPCentral basic

- For project final code sign and open source scan/audit/report etc.
- For security audit etc.
- **♣** Login with CEC ID
- ♣ Project owner/module owner

5.2. WME in IPCentral

Wiki

https://wiki.cisco.com/display/CWMMF/IPCentral+for+WME

IPCentral:

- Whiteny_MediaSDK-SQBU http://ipcentral.cisco.com/ipcentral/jsp/ipcentral.jsp?component=ProjectView&entityId=59351615
- ★ WME_Media_Common http://ipcentral.cisco.com/ipcentral/jsp/ipcentral.jsp?component=ProjectView&entityId=60158994