

# Imperva Classifier User Guide

**November 2017** 

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US Patent Nos. 7,640,235, 7,743,420, 7,752,662, 8,024,804, 8,051,484, 8,056,141, 8,135,948, 8,181,246, 8,392,963, 8,448,233, 8,453,255, 8,713,682, 8,752,208, 8,869,279 and 8,904,558, 8,973,142, 8,984,630, 8,997,232, 9,009,832, 9,027,136, 9,027,137, 9,128,941, 9,148,440, 9,148,446 and 9,401,927.

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# CHAPTER 1

# **Prerequisites**

In order to get the best possible classification scan results, please make sure you have a user with all required database permissions. In particular, Select and System Catalog Read Access are required for the database(s) you are scanning.

# CHAPTER 2

# Running a Scan

This chapter describes what is required to run a scan. Classifier searches database metadata to quickly uncover sensitive data that may be at risk within your organization. Our enterprise data security products provide additional capabilities such as database content searching, reporting and export functionality. **To learn more about how Imperva can protect your sensitive data, visit Imperva.com.** 

Before running a scan, you need to download and execute the Classifier application. You do this as based on the host Operating System, as follows:

• Windows: Classifier.exe

Mac: Classifier.command

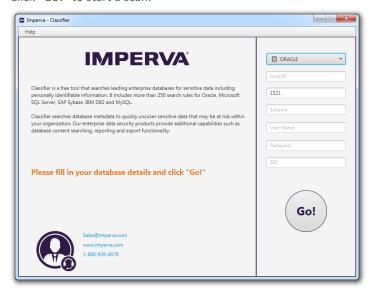
Linux: Classifier.sh

# To start a scan:

- 1. Complete your database details as follows:
  - Database type
  - Host/IP
  - Port (or use default)
  - Schema
  - User name
  - Password
  - Database/Instance/SID (depends on selected database)

Running a Scan IMPERVA

2. Click "Go!" to start a scan.



When the scan ends, the application will close and results screen will open in your default browser.

Note: Microsoft SQL Server supports Windows Authentication. This is enabled by default. You can disable it and manually configure a user and password by clicking the authentication button:



# CHAPTER 3

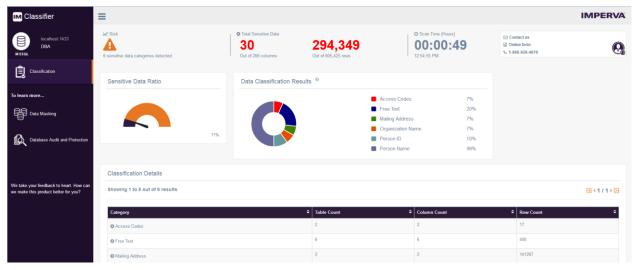
# **Reviewing Results**

This chapter describes how to understand the results of a scan.

The summary for the scan is presented on one easy-to-read dashboard.

The top section displays an executive summary of the sensitive data contained within your database as well as an indication of the amount of sensitive data present.

The second section shows summary statistics about the scan. Sensitive Data Ratio shows the ratio of sensitive/non-sensitive database columns. Data Classification Results provides a summary of the different categories of sensitive data found.

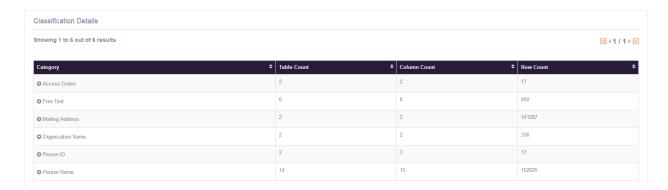


Reviewing Results

# **Classification Details Table**

The Classification Details table shows the detailed results of the classification scan including Category and Table/Column/Row count for the selected database.

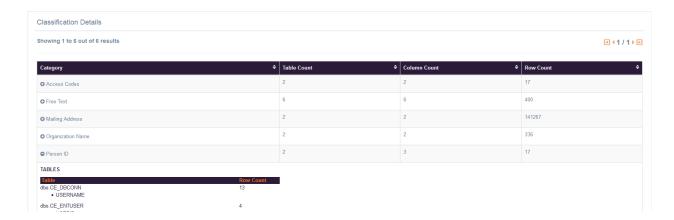
The list can be sorted by Category, Table Count, Column Count and Row Count.



IMPERVA Reviewing Results

# **Classification Details Drill Down**

In order to understand which schemas, tables and columns are contained within each one of the categories, click a category row to expand its content. There you can find details about the category, including row counts associated with each schema, table and column identified by the scan.



# APPENDIX A

# **FAQs**

1.

Q:

Which drivers does Classifier use to connect to a database?

A:

Classifier uses JDBC in order to connect to databases. All are located under /ODBC/Production/

2.

Q:

Does Classifier use all possible JDBC drivers? If not, is it possible to add JDBC drivers or just update to newer versions?

A:

Classifier uses some common JDBC drivers and those that are allowed to be distributed.

In order to add or update a JDBC driver, you can add it under /ODBC/Production/<relevant-database>/ You can find all JDBC drivers at their vendors' websites, as follows:

- Oracle: http://www.oracle.com/technetwork/database/features/jdbc/index-091264.html
- SQL Server / Sybase: <a href="https://sourceforge.net/projects/jtds/">https://sourceforge.net/projects/jtds/</a>
- MySQL: <a href="https://dev.mysql.com/downloads/connector/j/">https://dev.mysql.com/downloads/connector/j/</a>
- DB2: <a href="http://www-01.ibm.com/support/docview.wss?uid=swg21363866">http://www-01.ibm.com/support/docview.wss?uid=swg21363866</a>

IMPERVA FAQS

3.

Q:

Which connection strings are used in order to connect to a database? Are they configurable?

Α

Connection strings are detailed in /conf/jdbc.json

Connection strings are configurable. There are three placeholders you can customize. They include:

- {host} (stands for host name or IP)
- {port}
- {database}

# APPENDIX B

# **Required Permissions**

To conduct scans, Classifier requires Select and System Catalog Read Access permissions for the database(s) you are scanning.

# **Supported Database Types for Classification Scans**

Classifier supports five primary database types that you may want to configure manually to provide access to. These include:

- DB2
- Oracle
- MySQL
- MSSQL
- SybaseASE

# APPENDIX C

# **Attribution List**

Classifier software is licensed under Imperva Proprietary and third-party licenses listed below.

Classifier contains the following software components:

- Angular JS 1.5.8
- Apache Commons Beanutils 1.6
- Apache Commons Chain 1.0
- Apache Commons CLI 1.0
- Apache Commons Codec 1.7
- Apache Commons Collections 3.2
- Apache Commons Configuration 1.4
- Apache Commons CSV 1.3
- Apache Commons DBCP 1.2.1
- Apache Commons DbUtils 1.1
- Apache Commons Digester 1.7
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- Apache Commons JXPath 1.2
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- Apache Commons Logging API 1.0.4
- Apache Commons Pool 1.2
- Apache Commons Validator 1.3.0
- Apache Log4J 1.2.13
- Apache Lucene 3.0.0

- AspectJ 1.8.5
- DB2 JCC v4.21
- Ehcache 1.2.3
- Gentelella 1.3.0
- JAMon 2.7
- Java Util concurrent
- JSON
- JTDS 1.3.1
- Oracle ojdbc 11.2.0.3.0
- Spring Framework 4.1.9.RELEASE
- Twitter Bootstrap 3.3.6
- Wizard Framework 0.1.9
- Launch4j
- Java SE JRE 8
- Font Awesome 4.6.3

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- LGPL 2.1
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src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java contains test data from http://aspell.sourceforge.net/test/batch0.tab.

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The full snowball package is available from http://snowball.tartarus.org/

The Arabic stemmer (contrib/analyzers) comes with a default stopword list that is BSD-licensed created by Jacques Savoy. The file resides in contrib/analyzers/common/src/resources/org/apache/lucene/analysis/ar/stopword s.txt. See http://members.unine.ch/jacques.savoy/clef/index.html.

The Persian analyzer (contrib/analyzers) comes with a default stopword list that is BSD-licensed created by Jacques Savoy. The file resides in contrib/analyzers/common/src/resources/org/apache/lucene/analysis/fa/stopword s.txt. See http://members.unine.ch/jacques.savoy/clef/index.html. Includes lib/servlet-api-2.4.jar from Apache Tomcat

The SmartChineseAnalyzer source code (under contrib/analyzers) was provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

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### DB2 JCC - v4.21

Runtime Modules of DB2 Universal Database JDBC Type-4 Driver

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# JAMon 2.7

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# Java Util concurrent

This component is licensed under Oswego Concurrent License

# JSON

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Cross-platform Java application wrapper for creating Windows native executables.

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