**Cast Highlight:**

Cast Highlight gives you the insights to increase your Software IQ.

It mainly focuses on App Portfolio Analysis, Cloud Readiness, Agile Analytics and Software Engineering.

They care about data privacy. At any moment, your source code doesn’t leave your infrastructure. Scan your application locally with our Highlight Agent, then upload metrics.

Currently supports Java, C# and VB.Net.

Export results to CSV, XML and PPT

How to Use?  
Download the application locally.

Run the app and get a csv file as output which is encrypted.

Upload the csv file and get back the report.

**Comparison between Cast Highlight and VSM:**

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| --- | --- | --- |
|  | **CAST HIGHLIGHT** | **VSM** |
| User Authentication | Yes | Yes |
| Application Logs | Yes | Yes |
| Persistent Files | Yes | Yes |
| Temporary Files | Yes | Yes |
| Application Settings Configuration | Yes | Yes |
| Registry Settings | Yes | Yes |
| Access Control List | Yes | No |
| Code Execution | Yes | No |
| Data Encryption Keys | Yes | No |
| Execution Environment | No | - |
| Inter-Application Messaging | Yes | Yes |
| Sensitive Data Storage Protection | Yes | Yes |
| Services & Scheduled Tasks | Yes | - |
| Shared Caching | Yes | Yes |
| Third-Party External Dependencies | Yes | Yes |
|  |  |  |
| Graphical Representation of the generated report | Very High | Very Low |
| Cloud Ready Points | Yes | Yes |
| Cloud Ready Survey | Yes | No |
| Cloud Ready Scan | Yes | - |
| Boosters/Suggestions | Yes | Yes |
| Blockers/Antipatterns | Yes | Yes |
| Roadblocks/Warning | Yes | Yes |
| Software Maintenance | Available in FTE | Available as complexity points |
|  |  |  |
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Blockers: More detailed report in <https://www.casthighlight.com/category/product/indicators-methodology/cloudready/blocker/>

**Cast Highlight covers the following topics:**

1. Access Control List: Using Access Control List

**Java:** look in source code for usage of import java.nio.file.attribute or implements AclFileAttributeView

**C#/VB/VB.Net:** look in source code for Using System.Security.AccessControl and (File.SetAccessControl or File.GetAccessControl)

1. Application Settings Configuration : Using other configuration files than Web configuration

Look in project folders for \*.config different than web.config

1. Execution Environment : Application server dependencies

**Java:** import org.eclipse.jetty, import weblogic

1. Using File System

C:\, D:\ … Z:\ for Windows platforms

/var, /user, /etc for Linux platforms

1. Using Hardcoded IP Addresses

Look in source code URLs corresponding to IPV4 (e.g. 216.58.213.174) and IPV6 (e.g. 2001:0db8:85a3:0000:0000:8a2e:0370:7334) structures.

1. Using a middleware application

**Java:** import ionic.Msmq, com.rabbitmq, com.tibco.tibjms, com.ibm.mq.jms  
**C#/VB/VB.Net:** Using System.Messaging, RabbitMQ.Client, TIBCO.EMS, IBM.WMQ

1. Persistent Files : Perform File Manipulation

For Java applications:

import org.apache.commons.io.FileUtils; or import java.io.File;  
and moveFile()or forceDelete() or deleteQuitely() or copyFile() or write() …

For .Net applications:

Using System.IO  
and File.Move() or File.Create() or File.Copy() or File.Exists() or File.Encrypt() orFile.Decrypt() or File.Open() …  
Except when code using File.\* contains Path.GetTempPath()

1. Persistent Files : Using stateful session (Servlet)

import javax.servlet.http.HttpSession;  
and getSession().setAttribute( or getSession().putValue(

1. Persistent Files : Using stateful session (Spring)

Look in “WEB-INF/applicationContext.xml” for  
<beans>  
<bean id=”accountService” class=”com.foo.DefaultAccountService” scope=”session”/>  
…  
</beans>

1. Security & User Authentication : Using impersonate Identity

For Java applications:

Look in source code for import waffle.windows.auth.\*

For .Net applications:

Look in web.config for <identity impersonate=”true”  
Look in source code for impersonationOption.\*

1. Security & User Authentication : Using of unsecure network protocols (HTTP, FTP)

Look in source code URL preceded by http:// or ftp://

Temporary Files : Access to environment variable

For Java applications:

Look in source code for import java.lang.\*; and System.getenv()

For .Net applications:

Look in source code for Using System.Environment.GetEnvironmentVariable()  
or Using Environment.ExpandEnvironmentVariables()