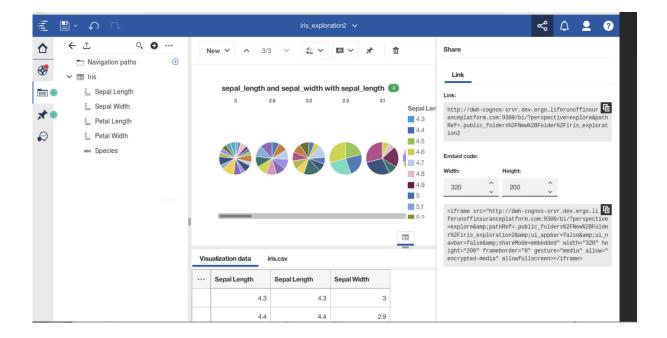
## Cognos 11.1.x Usage, Installation, Connection to Hadoop Guide

Cognos server is installed on machine 10.xx.xx.xx. You can access the GUI at hostname

# **Cognos Usage Guide**

Hit <a href="http:/host:9300">http:/host:9300</a> from the dwh-server to open cognos analytics. Below you can find the exploration of sample iris.csv data



once port 9300 on host is opened by network admin, you can also share the above generated report with below link

http://...:9300/bi/?perspective=explore&pathRef=.public\_folders%2FNew%2BFolder%2Firis\_exploration2

To explore cognos functionalities, follow below videos <a href="https://www.youtube.com/playlist?list=PLfq0ST5X3p-Sd57\_PJg\_rjAOlyAVGnoL9">https://www.youtube.com/playlist?list=PLfq0ST5X3p-Sd57\_PJg\_rjAOlyAVGnoL9</a>

# **Cognos Installation Guide**

### Files location

- 1. SSH to10.85.52.13 after connecting to ITERGO OpenVPN
- 2. move to /tmp/install.
- 3. Find below 3 files.
  - 1. ca\_server\_linuxi38664\_11.1.1.zip IBM Cognos Analytics Server 11.1.1 Linux x86 Multilingual
  - 2. ca\_installer\_linuxi38664\_2.0.bin IBM Cognos Analytics Installer 2.0 Linux x86 Multilingual
  - 3. ca\_client\_MP\_11.1.1.zip IBM Cognos Analytics Client 11.1.1 Multiplatform Multilingual

Note: You can find these files in ibm box as well. But check licenses before you install them anywhere else other than DWH servers.

#### **Permissions**

- 1. Move the files from /tmp/install to your Desktop
- 2. Give rwx permissions to directory where bin file exists and to directory where you want to install cognos
- 3. chmod 777 /opt & chmod 777 location-where-installer-files are

#### **Installation Guide**

- 1. Run the ca\_installer\_linuxi38664\_2.0.bin file with kdamarla account. Root / any other user doesnot have permissions to use the GUI mode for installation.
- 2. Cognos can be installed only from GUI. Cant be installed through command line. For 11.1.x, choose the server or client zip file during installation

### Configuring Cognos (or) start/stop server

1. Before configuration start, set the class path

```
export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:/opt/ibm/cognos/analytics/cgi-bin
export JAVA_HOME=/opt/ibm/cognos/analytics/jre
export PATH=$JAVA_HOME/bin:$PATH
export DISPLAY=:3
```

- 2. Run the config file with sudo permissions **cogconfig.sh**
- 3. Configuration setup
  Edit the content manager>content store with below details

## **Cognos Connection to Hadoop databases**

Connecting to Hive from Cognos Analytics
 A) To connect to cloudera hive from cognos, first copy the correponsding cognos 11.1 and CDH6.2 supported drivers to the cognos install loc/drivers folder

sudo find / -name xyz

B) Connecting to hive from cognos analytics. Note the jdbc url jdbc:hive2://10.85.52.14:10000/lf and Classname - org.apache.hive.jdbc.HiveDriver

2. Connecting to Impala from Cognos Analytics

Impala db connection with cloudera impala drivers

Connection - jdbc:impala://10.85.52.14:21050/lf

Connection with no auth - jdbc:impala://10.85.52.14:21050;AuthMech=0;

Classname- com.cloudera.impala.jdbc41.Driver for jre 8. Currently we have jdbc41 drivers in cognos of jre 8 (or) use com.cloudera.impala.jdbc4.Driver for jre below 7

Impala db connection with hive drivers

Hive driver class namr - org.apache.hive.jdbc.HiveDriver

Connecting with hive 2 to impala port - jdbc:hive2://10.85.52.14:21050/;auth=noSasl

Connecting with hive 2 to impala port with noAuth - jdbc:hive2://10.85.52.14:21050/; AuthMech=0;

#### **Drivers**

https://www.ibm.com/developerworks/community/forums/html/topic?id=416fbc7a-c0e8-42b6-9314-b9c5f05666ae

### **Troubleshoot guide**

- 1. check the log files stored in /tmp folder.
- [ERROR] CAM-CRP-1064 Unable to process the PKCS #7 data because of an internal error. Unable to read the contents of the keystore
  '/opt/ibm/cognos/analytics/configuration/csk/jCSKKeystore'. Reason:
  java.io.IOException: Invalid secret key format. The parameter named 'External JMX credential' located in 'Environment' is currently invalid.

Sol: Regenerate keys for cognos 11 -

https://www-01.ibm.com/support/docview.wss?uid=swg21995088

Rgenerate keys for older cognos versions -

https://www.ibm.com/support/knowledgecenter/en/SSMR4U\_10.2.2/com.ibm.swg.ba.cognos.express\_migration.10.2.2.doc/t\_express\_inst\_mig\_trouble\_regen\_crypto.html

3. Java.lang.NoClassDefFoundError: javax/net/ServerSocketFactory:

https://www.ibm.com/support/knowledgecenter/SSEP7J\_11.1.0/com.ibm.swg.ba.cognos.tg\_bitshoot.doc/t\_crypto\_error\_trbls.html#crypto\_error\_trbls

Sol: Find bcprov\*.jar (bcprovpkix-1.59.jar ) within install\_loc/bin (this creates crypto keys)

4. com.ibm.db2.jcc.am.SqlException: [jcc][10389][12245][3.72.30] Failure in loading native library db2jcct2, java.lang.UnsatisfiedLinkError: no db2jcct2 in java.library.path: ERRORCODE=-4472, SQLSTATE=null

**Sol:** Enter the datbase name and username / password details correctly. Check if u got all the req jar files from db2 to /install-location/drivers

5. If server is not starting at 9300 port

**Sol:** make sure no other service is running at port 9300 or rename the ibm cognos service in config file or check the services allowed at firewall

While restarting cognos, Install\_loc/logs/cbs\_run\_websphere\*.log -PingChildProcess ping loop: process "wlp" is not active, so restarting it.
 Sol: This error happens when we don't run the cogconfig file with sudo permissions <a href="https://www-01.ibm.com/support/docview.wss?uid=swg22011841">https://www-01.ibm.com/support/docview.wss?uid=swg22011841</a>

### 7. Others

https://www-01.ibm.com/support/docview.wss?uid=swg22012164 https://www-01.ibm.com/support/docview.wss?uid=swg21343297 Removing install\_loc/configuration/ cogstartup.lock file for new start https://www.ibm.com/support/knowledgecenter/en/SSMR4U\_10.2.2/com.ibm.swg.ba.cog nos.express\_migration.10.2.2.doc/c\_express\_inst\_mig\_trouble\_cog\_config\_locked.html