# [Spark context (unstable)](https://confluence.ca.sbrf.ru/pages/viewpage.action?pageId=2393748126)

## ****Блок 1****

import os  
from pyspark.sql import SparkSession

os.environ['PYSPARK\_DRIVER\_PYTHON'] = '/opt/cloudera/parcels/PYENV.ZNO20008661/bin/python'  
os.environ['PYSPARK\_PYTHON'] = '/opt/cloudera/parcels/PYENV.ZNO20008661/bin/python'

spark = SparkSession\  
.builder\  
.appName('app')\  
.enableHiveSupport()\  
.getOrCreate()  
  
sc = spark.sparkContext

spark.sql('SHOW DATABASES').show()

## ****Блок 2****

import os  
from pyspark import SparkContext, HiveContext

os.environ['PYSPARK\_DRIVER\_PYTHON'] = '/opt/cloudera/parcels/PYENV.ZNO20008661/bin/python'  
os.environ['PYSPARK\_PYTHON'] = '/opt/cloudera/parcels/PYENV.ZNO20008661/bin/python'

sc = SparkContext.getOrCreate()

sqlc = HiveContext(sc)  
sqlc.sql('SHOW DATABASES').show()

## ****Блок 3****

import os  
from pyspark.sql import SparkSession

spark\_home = '/opt/cloudera/parcels/SPARK2/lib/spark2'  
os.environ['SPARK\_HOME'] = spark\_home  
os.environ['LD\_LIBRARY\_PATH'] = '/opt/python/virtualenv/jupyter/lib'

os.environ['PYSPARK\_DRIVER\_PYTHON'] = '/opt/cloudera/parcels/PYENV.ZNO20008661/bin/python'  
os.environ['PYSPARK\_PYTHON'] = '/opt/cloudera/parcels/PYENV.ZNO20008661/bin/python'

spark = SparkSession\  
.builder\  
.appName('app')\  
.enableHiveSupport()\  
.getOrCreate()  
  
sc = spark.sparkContext

spark.sql('SHOW DATABASES').show()

## ****Блок 4****

import os  
import sys  
from pyspark import SparkContext, HiveContext, SparkConf

spark\_home = '/opt/cloudera/parcels/SPARK2/lib/spark2'  
os.environ['SPARK\_HOME'] = spark\_home  
os.environ['LD\_LIBRARY\_PATH'] = '/opt/python/virtualenv/jupyter/lib'

os.environ['PYSPARK\_DRIVER\_PYTHON'] = '/opt/cloudera/parcels/PYENV.ZNO20008661/bin/python'  
os.environ['PYSPARK\_PYTHON'] = '/opt/cloudera/parcels/PYENV.ZNO20008661/bin/python'

sys.path.insert(0, os.path.join (spark\_home,'python'))  
  
sys.path.insert(0, os.path.join (spark\_home,'python/lib/py4j-0.10.7-src.zip'))

conf = SparkConf().setAppName('SparkContextExample')\  
.setMaster("yarn-client")\  
.set('spark.dynamicAllocation.enabled', 'false')\