Understanding how Python is configured with BDC

The servers in your BDC cluster have two separate installations of Python: "system" and "user" System Python: This is version 2.6.6. This is the version that is shipped and standard with the version of Oracle Linux currently used in BDC. This version is left unchanged to not disrupt other operating system processes and procedures which depend on it. User Python: This is version 2.7 x. BDC configures this version for PySpark and Zeppelin. It is located at /u01/bdcsce/usr/local/bin/pyth It should be noted that the default PATH for shell sessions will pickup the system python installation, but the BDC tools (like Zeppelin and pySpark) are configured for the user python installation You should be using the User Python. See below for examples on how to add packages to the User python installation Illustration of the 2 Python installations echo "System python versions." # use a sleep so that output does not appear out of order echo "User python versions." Python 2.6.6 Python 2.6.6 System python versions. pip 9.0.1 from /usr/lib/python2.6/site-packages (python 2.6) pip 9.8.1 from /u01/bdcsce/usr/local/lib/python2.7/site-packages (python 2.7) Took 9 sec. Last updated by anonymous at March 01 2018, 11:12:34 AM. (outdated) Illustration that Zeppelin and Pyspark are configured for the user Python installation (2.7) %pyspark import sys print (sys.version) 2.7.14 (default, Oct 6 2017, 22:49:22) [GCC 4.4.7 20120313 (Red Hat 4.4.7-18)] Took 44 sec. Last updated by anonymous at March 01 2018, 11:03:44 AM, (outdated How to install additional packages for the User python installation Xsh # This will put packages into /u01/bdcsce/usr/local/lib/python2.7/site-packages/ sudo /u01/bdcsce/usr/local/bin/pip install numpy Requirement already satisfied: numpy in /u01/bdcsce/usr/local/lib/python2.7/site-packages Example to show that your package was installed a1 = numpy.array([1,2,3,4,5]) Took 0 sec. Last updated by anonymous at March 01 2018, 11:33:41 AM. (outdated) Example to show that your package works with spark wyspan. #simple example from https://gist.github.com/koverholt/a2cc2a0ab51acb13ae57 import numpy as np def mult(x):
y = np.array([2])
return x\*y x = np.arange(1000) distData = sc.parallelize(x) [pate seasts [pare][1], pare][2]), pare][2]), pare][3]), pare][3]) neint results Took 8 sec. Last updated by anonymous at March 01 2018, 3:31:07 PM DEADY

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