Create local Jupyter notebook and connect to HDInsight

1. Create a HDInsight Cluster
   1. Run the ARM template provided
2. Get Base64 encoded Password String

[System.Convert]::ToBase64String([System.Text.Encoding]::UTF8.GetBytes('Lz8oq1dn$Lz1'))

1. Conda install python=3.5
2. Install JUPYTER notebook on the PC
   1. <https://www.continuum.io/downloads> -- Install Anaconda
   2. Install Jupyter – conda install jupyter
3. Install Spark Magic : pip install sparkmagic==0.11.2
4. Install Kernels :
   * 1. jupyter nbextension enable --py --sys-prefix widgetsnbextension
     2. pip show sparkmagic (cd to the directory - Execute following commands )
     3. jupyter-kernelspec install sparkmagic/kernels/sparkkernel
     4. jupyter-kernelspec install sparkmagic/kernels/pysparkkernel
     5. jupyter-kernelspec install sparkmagic/kernels/pyspark3kernel
     6. jupyter-kernelspec install sparkmagic/kernels/sparkrkernel
     7. jupyter serverextension enable --py sparkmagic
5. Recheck your home directory from python shell : import os print(os.path.expanduser('~'))
6. Navigate to the home directory and create a folder called **.sparkmagic** if it does not already exist.
7. Within the folder, create a file called **config.json** and add the following JSON snippet inside it.
8. Open jupyter notebook - jupyter notebook

New-SelfSignedCertificate -Type Custom -Subject "CN=selfsignedssl,OU=srramhdinsight,DC=sreekanthramayanamoutlook,DC=onmicrosoft,DC=com" -TextExtension @("2.5.29.37={text}1.3.6.1.5.5.7.3.2","2.5.29.17={text}upn=hadoop@sreekanthramayanamoutlook.onmicrosoft.com") -KeyUsage DigitalSignature -KeyAlgorithm RSA -KeyLength 2048 -CertStoreLocation "Cert:\CurrentUser\My"