Session 12

Assignment 1

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# Change History

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| **Document Revision** | **Date** | **Authored By** | **Authorised By** | **Sections Affected** | **Reason for Change** |
| Rev 01 | 06/10/2017 | Duncan Burgess |  | All | Initial release. |
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# Problem Statement

Follow the below link document steps to download and import Acadgild Spark VM in the Oracle Virtual Box.

NOTE: If your system is compatible with 64 bit VM, then please download the Acadgild Spark 64 Bit file, else download the Acadgild Spark 32 Bit file from the below link.

Acadgild\_Spark\_64\_Bit

# Solution

**Note** For this I will be installing the OVA to VMWare

## Installing OVA



The OVA was downloaded from the link provided.



VMWare is started and Open Virtual Machine selected.



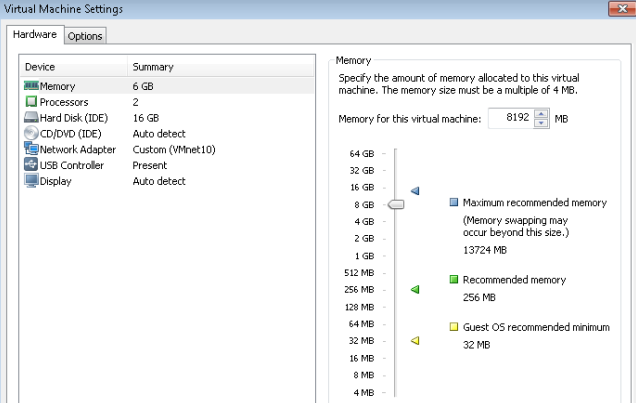
The OVA will now be imported onto an SSD drive for speed.



Once imported we can configure



I have assigned it 2 CPU’s and 8 GB’s pf RAM and connected to a high speed network on VMNet10



Once configured the machine is started.



Logged in as

*Username: acadgild.*

*Password: acadgild*

To configure connected to server using putty terminal session to tart all the daemons for the first time.

## Starting Hadoop Daemons

*[acadgild@localhost /]$ cd usr*

*[acadgild@localhost usr]$ cd local*

*[acadgild@localhost local]$ cd hadoop-2.6.0/*

*[acadgild@localhost hadoop-2.6.0]$ cd sbin*

*[acadgild@localhost sbin]$ ./hadoop-daemon.sh start namenode*

*starting namenode, logging to /usr/local/hadoop-2.6.0/logs/hadoop-acadgild-namenode-localhost.localdomain.out*

*[acadgild@localhost sbin]$ ./hadoop-daemon.sh start datanode*

*starting datanode, logging to /usr/local/hadoop-2.6.0/logs/hadoop-acadgild-datanode-localhost.localdomain.out*

*[acadgild@localhost sbin]$ ./yarn-daemon.sh start resourcemanager*

*starting resourcemanger, logging to /usr/local/hadoop-2.6.0/logs/yarn-acadgild-resourcemanger-localhost.localdomain.out*

*starting nodemanager, logging to /usr/local/hadoop-2.6.0/logs/yarn-acadgild-nodemanager-localhost.localdomain.out*

***Check services***

*[acadgild@localhost sbin]$ jps*

*2736 ResourceManager*

*2545 DataNode*

*2456 NameNode*

*3098 Jps*

*2986 NodeManager*

*[acadgild@localhost sbin]$ mr-jobhistory-daemon.sh start historyserver*

*starting historyserver, logging to /usr/local/hadoop-2.6.0/logs/mapred-acadgild-historyserver-localhost.localdomain.out*

**All services started including History server.**

## Starting Spark Services

*[acadgild@localhost local]$ cd /usr/local/spark/*

*[acadgild@localhost spark]$ cd spark-1.6.0-bin-hadoop2.6/*

*[acadgild@localhost spark-1.6.0-bin-hadoop2.6]$ cd sbin*

*[acadgild@localhost sbin]$ ./start-master.sh*

*starting org.apache.spark.deploy.master.Master, logging to /usr/local/spark/spark-1.6.0-bin-hadoop2.6/logs/spark-acadgild-org.apache.spark.deploy.master.Master-1-localhost.localdomain.out*

*[acadgild@localhost sbin]$ ./start-slave.sh.*

*localhost: starting org.apache.spark.deploy.worker.Worker, logging to /usr/local/spark/spark-1.6.0-bin-hadoop2.6/logs/spark-acadgild-org.apache.spark.deploy.worker.Worker-1-localhost.localdomain.out*

*localhost: starting org.apache.spark.deploy.worker.Worker, logging to /usr/local/spark/spark-1.6.0-bin-hadoop2.6/logs/spark-acadgild-org.apache.spark.deploy.worker.Worker-2-localhost.localdomain.out*

## Running Eclipse

Eclipse was launched and accessed to check support for Scala

