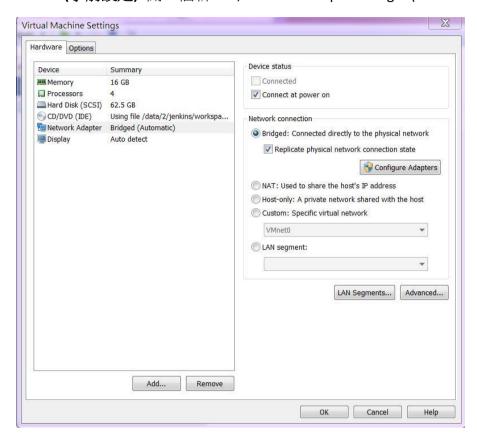
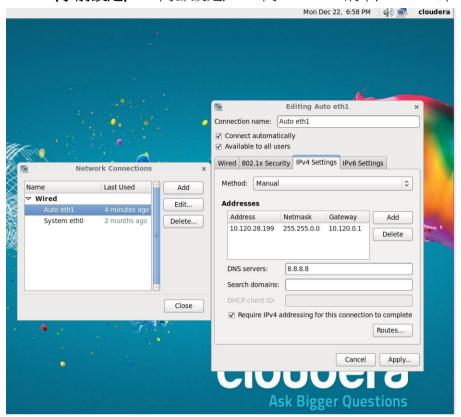
1-0. (事前下載) Download for VMWare

http://www.cloudera.com/content/cloudera/en/downloads/quickstart vms/cdh-5-3
-x.html

1-1. (事前設定) 開一個新 VM, Network Adapter Bridged(Automatic)



1-2. (事前設定) VM 內部設定, IPv4 同 windows 網卡, Address 末 2 碼不能相同



2-1. Linux (RRO8.0.1) centos 6 版本(全程以 root 身分進行)

[cloudera@quickstart ~]\$ su

[root@quickstart cloudera]# sudo yum clean all

- # yum list make gcc gcc-gfortran
- # yum install gcc-c++.x86_64
- # wget -no-check-certificate

http://mran.revolutionanalytics.com/install/RRO-8.0.1-Beta-el6.x86_64.rpm

yum --nogpgcheck localinstall RRO-8.0.1-Beta-el6.x86_64.rpm

2-2. 套件下載及安裝

- # which hadoop
- # export HADOOP_CMD=/usr/bin/hadoop
- # locate streaming | grep jar | more
- # export

HADOOP_STREAMING=/usr/lib/hadoop-0.20-mapreduce/contrib/streaming/hadoop-streaming.jar

- # echo \$JAVA_HOME
- # export JAVA_HOME=/usr/java/jdk1.7.0_67-cloudera

```
# R CMD javareconf
# sudo R
> install.packages(c("codetools", "Rcpp", "RJSONIO", "bitops", "digest", "fun
ctional", "stringr", "plyr", "reshape2", "rJava", "caTools"))
> q()
```

2-3. Download rmr2

wget -no-check-certificate http://goo.gl/Y5ytsm
R CMD INSTALL Y5ytsm

2-4. Download rhdfs

```
# wget -no-check-certificate
https://github.com/RevolutionAnalytics/rhdfs/blob/master/build/rhdfs_1.0.8.t
ar.gz?raw=true
# R CMD INSTALL rhdfs_1.0.8.tar.gz\?raw\=true
```

2-5. Download RStudio Server - RedHat/CentOS

http://www.rstudio.com/products/rstudio/download-server/

```
# sudo yum install openss1098e # Required only for RedHat/CentOS 6 and 7
# wget http://download2.rstudio.org/rstudio-server-0.98.1091-x86_64.rpm
# sudo yum install --nogpgcheck rstudio-server-0.98.1091-x86_64.rpm
# sudo rstudio-server restart
```



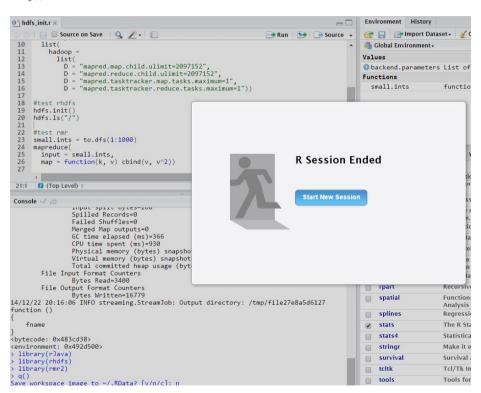


2-6. 執行 rmr2 前的系統設定(建議用 RScript 儲存,每次開啟 Rsession 時需執行)

```
Sys.setenv(HADOOP CMD="/usr/bin/hadoop")
Sys.setenv(HADOOP_STREAMING="/usr/lib/hadoop-0.20-mapreduce/contrib/streamin
g/hadoop-streaming.jar")
Sys.setenv(JAVA HOME="/usr/java/jdk1.7.0 67-cloudera")
library(rJava)
library(rhdfs)
library(rmr2)
backend.parameters =
list(
hadoop =
list(
D = "mapred.map.child.ulimit=2097152",
D = "mapred.reduce.child.ulimit=2097152",
D = "mapred.tasktracker.map.tasks.maximum=1",
D = "mapred.tasktracker.reduce.tasks.maximum=1"))
#-- test rhdfs
hdfs.init()
```

```
hdfs.ls("/")
#-- test rmr
small.ints = to.dfs(1:1000)
mapreduce (
input = small.ints.
map = function(k, v) cbind(v, v^2)
 Console ~/ 🖒
 > mapreduce(
papereduce(
    input = small.ints,
        map = function(k, v) cbind(v, v^2))
14/12/22 20:15:40 INFO Configuration.deprecation: mapred.reduce.tasks is deprecated. In
14/12/22 20:15:40 INFO Configuration.deprecation: mapred.reduce.tasks is deprecated. In stead, use mapreduce.job.reduces packageJobJar: [] [/usr/lib/hadoop-mapreduce/hadoop-streaming-2.5.0-cdh5.2.0.jar] /tmp/streamjob3076427708964467910.jar tmpDir=null 14/12/22 20:15:41 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0:8032 14/12/22 20:15:41 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0:8032 14/12/22 20:15:42 INFO mapred.FileInputFormat: Total input paths to process : 1 14/12/22 20:15:42 INFO mapreduce.JobSubmitter: number of splits:2
 14/12/22 20:15:42 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_141930553
 5350 0001
 14/12/22 20:15:42 INFO impl.YarnClientImpl: Submitted application application_141930553
5350_0001
14/12/22 20:15:42 INFO mapreduce.Job: The url to track the job: http://quickstart.cloud
14/12/22 20:15:53 INFO mapreduce.Job: Job job_1419305535350_0001 running in uber mode:
  false
false
14/12/22 20:15:53 INFO mapreduce.Job: map 0% reduce 0%
14/12/22 20:16:05 INFO mapreduce.Job: map 50% reduce 0%
14/12/22 20:16:06 INFO mapreduce.Job: map 100% reduce 0%
14/12/22 20:16:06 INFO mapreduce.Job: Job job_1419305535350_0001 completed successfully
14/12/22 20:16:06 INFO mapreduce.Job: Counters: 30
               File System Counters
```

> q()



3-1 SHINY-SERVER

http://www.rstudio.com/products/shiny/download-server/ 選取 RedHat/CentOS # sudo R > install.packages('shiny', repos='http://cran.rstudio.com/') Download and Install # wget http://download3.rstudio.org/centos-5.9/x86 64/shiny-server-1.2.3.368-x86 64 .rpm # sudo yum install --nogpgcheck shiny-server-1.2.3.368-x86_64.rpm # sudo rm -r starOpeningWeekendGross # sudo cp -r /home/cloudera/Desktop/R/starOpeningWeekendGross /srv/shiny-server/sample-apps Reference:

http://rpubs.com/ywchiu/25570

https://support.rstudio.com/hc/en-us/articles/200552306-Getting-Started

RStudio-server

http://10.120.28.xxx:8787/

shiny-server

http://10.120.28.xxx:3838/

version 20150111