

Project Progress – 20th November 2014

Without kerberos Hadoop

On Node Alaska 152.14.92.184 runs hadoop 2.5.0

user: root

```
root@peipei-OptiPlex-9010:/home/peipei/hadoop-2.5.0/bin# ./hadoop fs -copyFromLocal ./yarn
hdfs://152.14.92.184:8020/yarn
```

user: peipei

```
peipei@peipei-OptiPlex-9010:~/hadoop-2.5.0-alpha/bin$ ./hadoop fs -copyFromLocal mapred
hdfs://152.14.92.184:8020/
14/11/19 21:53:19 WARN util.KerberosName: Kerberos krb5 configuration not found, setting default
realm to empty
```

```
peipei@peipei-OptiPlex-9010:~/hadoop-2.5.0/bin$ ./hadoop fs -ls hdfs://152.14.92.184:8020/
14/11/19 21:53:23 WARN util.KerberosName: Kerberos krb5 configuration not found, setting default
realm to empty
```

Found 3 items

```
-rw-r--r--  2 peipei supergroup    4927 2014-11-19 21:53 hdfs://152.14.92.184:8020/mapred
drwxr-x---  - peipei supergroup      0 2014-11-19 21:50 hdfs://152.14.92.184:8020/tmp
-rw-r--r--  2 root  supergroup    8305 2014-11-19 21:52 hdfs://152.14.92.184:8020/yarn
```

```
peipei@peipei-OptiPlex-9010:~/hadoop-2.5.0/sbin$ cd ../bin;./hadoop fs -cat
hdfs://152.14.92.184:8020/yarn
14/11/20 09:05:37 WARN util.KerberosName: Kerberos krb5 configuration not found, setting default
realm to empty
14/11/20 09:05:38 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your
platform... using builtin-java classes where applicable
#!/usr/bin/env bash
```

```
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```

```
#
```

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```

```
# The Hadoop command script
#
# Environment Variables
#
# JAVA_HOME      The java implementation
```

```
peipei@peipei-OptiPlex-9010:~/hadoop-2.5.0-alpha/bin$ ./hadoop fs -chmod 700
hdfs://152.14.92.184:8020/mapred
```

```
14/11/20 09:08:09 WARN util.KerberosName: Kerberos krb5 configuration not found, setting default
realm to empty
```

```
peipei@peipei-OptiPlex-9010:~/hadoop-2.5.0/bin$ ./hadoop fs -chmod 700
hdfs://152.14.92.184:8020/yarn
```

```
14/11/20 09:08:14 WARN util.KerberosName: Kerberos krb5 configuration not found, setting default
realm to empty
```

```
peipei@peipei-OptiPlex-9010:~/hadoop-2.5.0/bin$ ./hadoop fs -ls hdfs://152.14.92.184:8020/
14/11/20 09:08:18 WARN util.KerberosName: Kerberos krb5 configuration not found, setting default
realm to empty
```

```
Found 3 items
```

```
-rw----- 2 peipei supergroup    4927 2014-11-19 21:53 hdfs://152.14.92.184:8020/mapred
drwxr-x--- - peipei supergroup      0 2014-11-19 21:50 hdfs://152.14.92.184:8020/tmp
-rw----- 2 root  supergroup    8305 2014-11-19 21:52 hdfs://152.14.92.184:8020/yarn
```

On Node 10.76.2.128 only has hadoop-2.5.0 hadoop, not running

```
user: peipei
```

```
./hadoop fs -ls hdfs://152.14.92.184:8020/
```

```
14/11/19 23:04:49 WARN util.KerberosName: Kerberos krb5 configuration not found, setting default
realm to empty
```

```
Found 3 items
```

```
-rw-r--r-- 2 peipei supergroup    4927 2014-11-19 21:53 hdfs://152.14.92.184:8020/mapred
drwxr-x--- - peipei supergroup      0 2014-11-19 21:50 hdfs://152.14.92.184:8020/tmp
-rw-r--r-- 2 root  supergroup    8305 2014-11-19 21:52 hdfs://152.14.92.184:8020/yarn
```

```
./hadoop fs -copyToLocal hdfs://152.14.92.184:8020/mapred ./mapred_alaska
```

```
./hadoop fs -copyToLocal hdfs://152.14.92.184:8020/yarn ./yarn_alaska
```

```
ls -lt
```

```
total 124
```

```
-rwxr-xr-x 1 peipei peipei 8305 2014-11-19 23:08 yarn_alaska
-rwxr-xr-x 1 peipei peipei 4927 2014-11-19 23:07 mapred_alaska
-rwxr-xr-x 1 peipei peipei 62892 2012-05-15 21:37 container-executor
-rwxr-xr-x 1 peipei peipei 4927 2012-05-15 21:37 mapred
-rwxr-xr-x 1 peipei peipei 8305 2012-05-15 21:37 yarn
-rwxr-xr-x 1 peipei peipei 4930 2012-05-15 21:37 hadoop
-rwxr-xr-x 1 peipei peipei 5969 2012-05-15 21:37 hdfs
```

-rwxr-xr-x 1 peipei peipei 1893 2012-05-15 21:37 rcc

security setting

```
<property>
  <name>hadoop.security.authentication</name>
  <value>kerberos</value>
</property>
<property>
  <name>hadoop.security.authorization</name>
  <value>true</value>
</property>
```

dfs.datanode.data.dir.perm	700	Permissions for the directories on on the local filesystem where the DFS data node store its blocks. The permissions can either be octal or symbolic.
----------------------------	-----	---

dfs.datanode.address	0.0.0.0:50010	The datanode server address and port for data transfer.
dfs.datanode.http.address	0.0.0.0:50075	The datanode http server address and port.
dfs.datanode.ipc.address	0.0.0.0:50020	The datanode ipc server address and port.

Sandbox Cluster Set-up

Tried to figure out how to do cluster set-up. Started setting up *Ambari Apache* for 2 node cluster set-up. Installed Virtual Box and currently working with the set-up. We can choose the hosts we want to configure and the HDP version we want to set-up through Ambari GUI interface.