

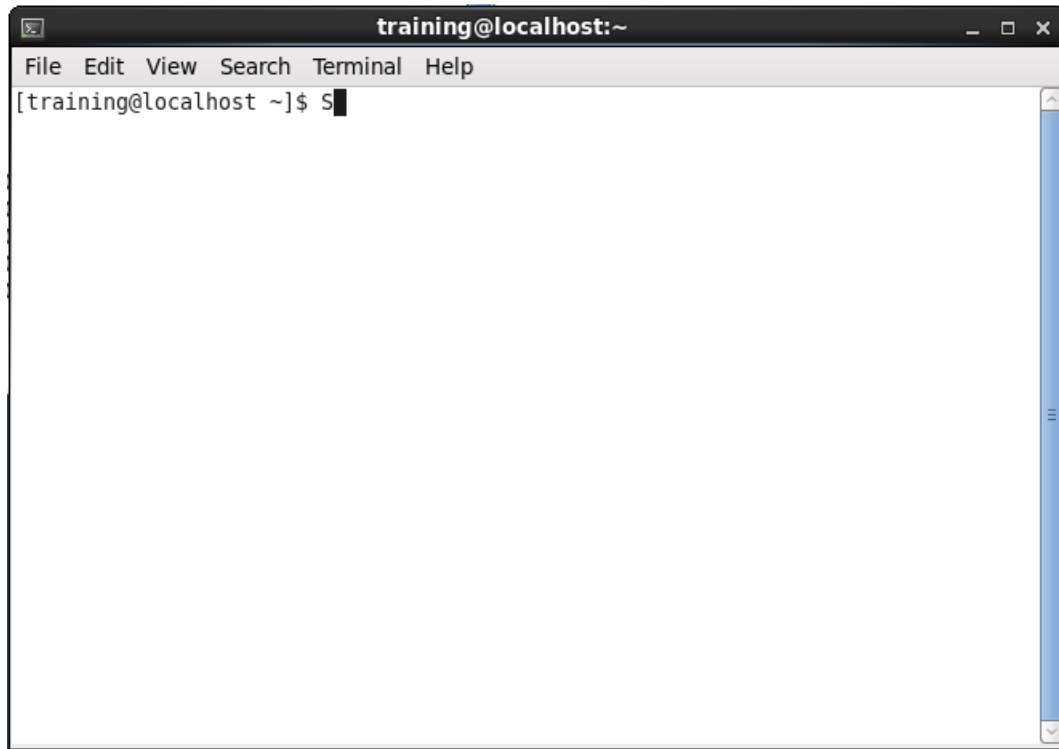
BUAN 6346 Big Data

# Homework 1

## Access HDFS with command line and Hue

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### Step 1: Open Terminal



### Step2: \$ hdfs dfs -ls /

```
[training@localhost ~]$ hdfs dfs -ls /
Found 5 items
drwxrwxrwx - hbase supergroup          0 2015-08-27 05:37 /hbase
drwxrwxrwx - solr supergroup            0 2015-08-27 05:32 /solr
drwxrwxrwt - hdfs supergroup            0 2015-08-27 05:38 /tmp
drwxrwxrwx - hdfs supergroup            0 2015-08-27 05:32 /user
drwxrwxrwx - hdfs supergroup            0 2015-08-27 05:31 /var
[training@localhost ~]$
```

### Step3: \$ hdfs dfs -ls /user

```
[training@localhost ~]$ hdfs dfs -ls /user
Found 5 items
drwxrwxrwt - mapred  hadoop          0 2015-08-27 05:31 /user/history
drwxrwxrwx - hive    hive            0 2015-08-27 05:31 /user/hive
drwxrwxrwx - oozie   oozie            0 2015-08-27 05:32 /user/oozie
drwxr-xr-x - spark   spark            0 2015-08-27 05:32 /user/spark
drwxrwxrwx - training supergroup      0 2015-08-27 05:31 /user/training
[training@localhost ~]$
```

**Step4:** \$ hdfs dfs -ls /user/training

```
[training@localhost ~]$ hdfs dfs -ls /user/training
[training@localhost ~]$
```

**Step5:** \$ hdfs dfs -mkdir /loudacre

```
[training@localhost ~]$ hdfs dfs -mkdir /loudacre
[training@localhost ~]$ hdfs dfs -ls /
Found 6 items
drwxrwxrwx - hbase      supergroup          0 2015-08-27 05:37 /hbase
drwxrwxrwx - training  supergroup          0 2020-05-29 16:02 /loudacre
drwxrwxrwx - solr      supergroup          0 2015-08-27 05:32 /solr
drwxrwxrwt - hdfs      supergroup          0 2015-08-27 05:38 /tmp
drwxrwxrwx - hdfs      supergroup          0 2015-08-27 05:32 /user
drwxrwxrwx - hdfs      supergroup          0 2015-08-27 05:31 /var
[training@localhost ~]$
```

**Step6:** \$ cd \$DEV1DATA

```
[training@localhost ~]$ cd $DEV1DATA
[training@localhost data]$ ls -l
total 220392
drwxr-xr-x 2 training training    4096 Aug 27  2015 activations
-rw-r--r-- 1 training training   15191 Aug 27  2015 base_stations.tsv
drwxr-xr-x 2 training training    4096 Aug 27  2015 calllogs
drwxr-xr-x 2 training training    4096 Aug 27  2015 chatlogs
-rw-r--r-- 1 training training    4800 Aug 27  2015 devicestatus.bin
-rw-r--r-- 1 training training   14000 Aug 27  2015 devicestatus_small.txt
-rw-r--r-- 1 training training  64124001 Aug 27  2015 devicestatus.txt
-rw-r--r-- 1 training training     730 Aug 27  2015 frostroad.txt
drwxr-xr-x 2 training training    12288 Aug 27  2015 kb
-rw-r--r-- 1 training training  161380070 Aug 27  2015 loudacre.sql
-rw-r--r-- 1 training training    67616 Aug 27  2015 mostactivestations.sql
-rw-r--r-- 1 training training     110 Aug 27  2015 purplecow.txt
drwxr-xr-x 7 training training    4096 Sep 18  2015 static_data
-rw-r--r-- 1 training training    1909 Aug 27  2015 stopwords.txt
-rw-r--r-- 1 training training      65 Aug 27  2015 synonyms.txt
-rw-r--r-- 1 training training     154 Aug 27  2015 targetmodels.txt
drwxr-xr-x 2 training training    12288 Aug 27  2015 weblogs
[training@localhost data]$
```

**Step7:** \$ hdfs dfs -put kb /loudacre/

```
[training@localhost data]$ hdfs dfs -put kb /loudacre/
[training@localhost data]$ hdfs dfs -ls /loudacre
Found 1 items
drwxrwxrwx - training supergroup          0 2020-05-29 16:20 /loudacre/kb
[training@localhost data]$
```

**Step8:** \$ hdfs dfs -ls /loudacre/kb

```
[training@localhost data]$ hdfs dfs -ls /loudacre/kb
Found 300 items
-rw-rw-rw- 1 training supergroup      1626 2020-05-29 16:19 /loudacre/kb/KBD0
C-00001.html
-rw-rw-rw- 1 training supergroup      1298 2020-05-29 16:19 /loudacre/kb/KBD0
C-00002.html
-rw-rw-rw- 1 training supergroup      1183 2020-05-29 16:19 /loudacre/kb/KBD0
C-00003.html
-rw-rw-rw- 1 training supergroup      1029 2020-05-29 16:19 /loudacre/kb/KBD0
C-00004.html
-rw-rw-rw- 1 training supergroup      1155 2020-05-29 16:19 /loudacre/kb/KBD0
C-00005.html
-rw-rw-rw- 1 training supergroup      1109 2020-05-29 16:19 /loudacre/kb/KBD0
C-00006.html
-rw-rw-rw- 1 training supergroup      1648 2020-05-29 16:19 /loudacre/kb/KBD0
C-00007.html
-rw-rw-rw- 1 training supergroup      1303 2020-05-29 16:19 /loudacre/kb/KBD0
C-00008.html
-rw-rw-rw- 1 training supergroup      1173 2020-05-29 16:19 /loudacre/kb/KBD0
C-00009.html
-rw-rw-rw- 1 training supergroup      1017 2020-05-29 16:19 /loudacre/kb/KBD0
C-00010.html
```

**Step9:**

\$ hdfs dfs -put \$DEV1DATA/calllogs /loudacre/

\$ hdfs dfs -rm -r /loudacre/calllogs

```
[training@localhost data]$ hdfs dfs -put $DEV1DATA/calllogs /loudacre/
[training@localhost data]$ hdfs dfs -ls /loudacre
Found 2 items
drwxrwxrwx - training supergroup      0 2020-05-29 16:23 /loudacre/calllogs
drwxrwxrwx - training supergroup      0 2020-05-29 16:20 /loudacre/kb
[training@localhost data]$ █
```

```
[training@localhost data]$ hdfs dfs -rm -r /loudacre/calllogs
20/05/29 16:24:42 INFO fs.TrashPolicyDefault: Namenode trash configuration: Deletion interval = 0 minutes, Emptier interval = 0 minutes.
Deleted /loudacre/calllogs
[training@localhost data]$ hdfs dfs -ls /loudacre
Found 1 items
drwxrwxrwx - training supergroup      0 2020-05-29 16:20 /loudacre/kb
[training@localhost data]$ █
```

**Step10:** \$ hdfs dfs -cat /loudacre/kb/KBDOC-00289.html | tail \

```
[training@localhost data]$ hdfs dfs -cat /loudacre/kb/KBDOC-00289.html | tail \
> -n 20
</ol>
<h3>Steps to change the notification ringtone for texts on Ronin S2</h3>
<ol>
<li>From the Personalization screen, tap Settings.</li>
<li>Tap Sounds.</li>
<li>Tap Text Tone.</li>
<li>Tap your preferred ringtone.</li>
<li>You've now changed the ringtone.</li>
</ol>
<h3>Steps to change the notification ringtone for emails on Ronin S2</h3>
<ol>
<li>From the Personalization screen, tap Settings.</li>
<li>Tap Sounds.</li>
<li>Scroll to and tap New Mail.</li>
<li>Tap your preferred ringtone.</li>
<li>You've now changed the ringtone.</li>
</ol>
<h4>Tags: smartphone, changes, contact, themselves, yours</h4>
</body>
</html>[training@localhost data]$ █
```

**Step11:**

```
$ hdfs dfs -get /loudacre/kb/KBDOC-00289.html ~/article.html
$ less ~/article.html
```

```
[training@localhost data]$ hdfs dfs -get /loudacre/kb/KBDOC-00289.html ~/article.html
[training@localhost data]$ █
```

```
[training@localhost ~]$ ls -l
total 52
-rw-rw-rw- 1 training training 1612 May 29 19:11 article.html
drwxr-xr-x. 2 training training 4096 Aug 27 2015 Desktop
drwxr-xr-x 3 training training 4096 Aug 27 2015 Documents
drwxr-xr-x 2 training training 4096 Apr 21 2015 Downloads
drwxr-xr-x 8 training training 4096 May 25 2015 eclipse
drwxr-xr-x 2 training training 4096 Apr 21 2015 Music
drwxr-xr-x 2 training training 4096 Apr 21 2015 Pictures
drwxr-xr-x 2 training training 4096 Apr 21 2015 Public
drwxr-xr-x 2 training training 4096 Apr 21 2015 Templates
drwxr-xr-x 4 training training 4096 Sep 18 2015 training_materials
drwxr-xr-x 2 training training 4096 Apr 21 2015 Videos
drwxr-xr-x 6 training training 4096 Aug 24 2015 workspace
drwxr-xr-x 3 training training 4096 Aug 27 2015 workspace.save.dev1
```

```

File Edit View Search Terminal Help
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xml:lang="en" lang="en">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<meta name="device" content="Ronin S2" />
<meta name="docid" content="KBD0C-00289" />
<meta name="createddate" content="2012-07-21" />
<meta name="updateddate" content="2012-08-03" />
<title>Ronin S2 - Change the phone ringtone and notification sound</title>
<link rel="stylesheet" type="text/css" href="theme.css" />
</head>
<body>
<h1>Ronin S2 - Change the phone ringtone and notification sound</h1>

```

## Step12: \$ hdfs dfs

```

[training@localhost data]$ hdfs dfs
Usage: hadoop fs [generic options]
    [-appendToFile <localsrc> ... <dst>]
    [-cat [-ignoreCrc] <src> ...]
    [-checksum <src> ...]
    [-chgrp [-R] GROUP PATH...]
    [-chmod [-R] <MODE[,MODE]... | OCTALMODE> PATH...]
    [-chown [-R] [OWNER][:[:GROUP]] PATH...]
    [-copyFromLocal [-f] [-p] [-l] <localsrc> ... <dst>]
    [-copyToLocal [-p] [-ignoreCrc] [-crc] <src> ... <localdst>]
    [-count [-q] [-h] <path> ...]
    [-cp [-f] [-p | -p[topax]] <src> ... <dst>]
    [-createSnapshot <snapshotDir> [<snapshotName>]]
    [-deleteSnapshot <snapshotDir> <snapshotName>]
    [-df [-h] [<path> ...]]
    [-du [-s] [-h] <path> ...]
    [-expunge]
    [-get [-p] [-ignoreCrc] [-crc] <src> ... <localdst>]
    [-getfacl [-R] <path>]
    [-getfattr [-R] {-n name | -d} [-e en] <path>]
    [-getmerge [-nl] <src> <localdst>]
    [-help [cmd ...]]
    [-ls [-d] [-h] [-R] [<path> ...]]
    [-mkdir [-p] <path> ...]
    [-moveFromLocal <localsrc> ... <dst>]
    [-moveToLocal <src> <localdst>]
    [-mv <src> ... <dst>]
    [-put [-f] [-p] [-l] <localsrc> ... <dst>]
    [-renameSnapshot <snapshotDir> <oldName> <newName>]
    [-rm [-f] [-r|-R] [-skipTrash] <src> ...]
    [-rmkdir [--ignore-fail-on-non-empty] <dir> ...]
    [-setfacl [-R] [{-b|-k} {-m|-x <acl_spec>} <path>}] [--set <acl_spec> <path>]]
    [-setfattr {-n name [-v value] | -x name} <path>]
    [-setrep [-R] [-w] <rep> <path> ...]

```

**Step13-17:** Hue browser to view and manage files

The screenshot shows the Hue File Browser interface. The top navigation bar includes 'Query Editors', 'Data Browsers', 'Workflows', and 'Search'. The 'File Browser' tab is active. The breadcrumb path is 'Home / user / training'. A table lists files in the 'training' directory:

Name	Size	User	Group	Permissions	Date
hdfs		hdfs	supergroup	drwxrwxr-x	May 29, 2020 04:49 PM
.		training	supergroup	drwxrwxr-x	August 27, 2015 05:31 AM

**Step18-19:**

The screenshot shows the Hue File Browser interface with the breadcrumb path 'Home / loudacre / kb'. A table lists multiple files:

Name	Size	User	Group	Permissions	Date
.		training	supergroup	drwxrwxr-x	May 29, 2020 04:24 PM
.		training	supergroup	drwxrwxr-x	May 29, 2020 04:20 PM
KBD0C-00001.html	1.6 KB	training	supergroup	-rw-rw-rw-	May 29, 2020 04:19 PM
KBD0C-00002.html	1.3 KB	training	supergroup	-rw-rw-rw-	May 29, 2020 04:19 PM
KBD0C-00003.html	1.2 KB	training	supergroup	-rw-rw-rw-	May 29, 2020 04:19 PM
KBD0C-00004.html	1.0 KB	training	supergroup	-rw-rw-rw-	May 29, 2020 04:19 PM
KBD0C-00005.html	1.1 KB	training	supergroup	-rw-rw-rw-	May 29, 2020 04:19 PM
KBD0C-00006.html	1.1 KB	training	supergroup	-rw-rw-rw-	May 29, 2020 04:19 PM
KBD0C-00007.html	1.6 KB	training	supergroup	-rw-rw-rw-	May 29, 2020 04:19 PM
KBD0C-00008.html	1.3 KB	training	supergroup	-rw-rw-rw-	May 29, 2020 04:19 PM
KBD0C-00009.html	1.1 KB	training	supergroup	-rw-rw-rw-	May 29, 2020 04:19 PM
KBD0C-00010.html	1017 bytes	training	supergroup	-rw-rw-rw-	May 29, 2020 04:19 PM

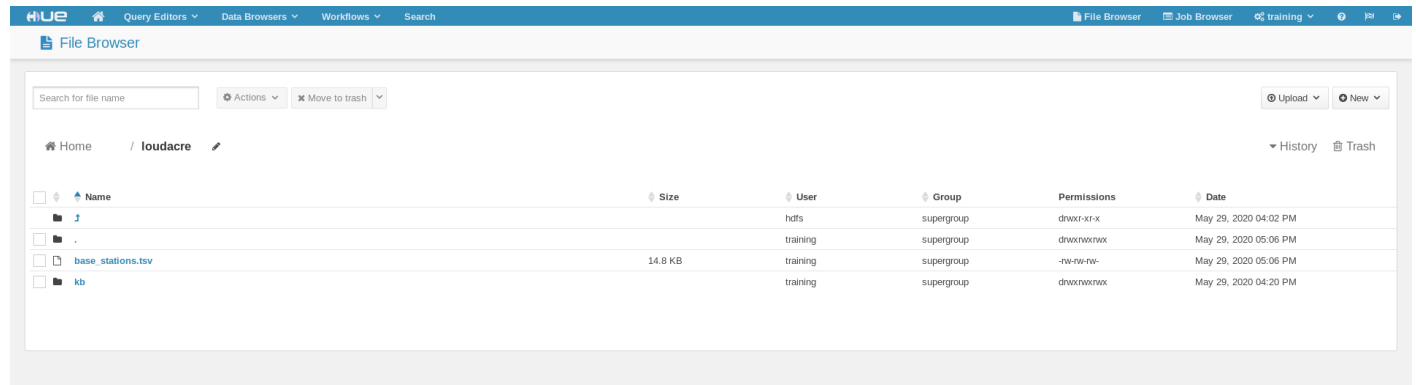
**Step20:**

The screenshot shows the Hue File Browser interface with the breadcrumb path 'Home / loudacre / kb / KBD0C-00001.html'. The left sidebar shows 'ACTIONS' (View as binary, Edit file, Download, View file location, Refresh) and 'INFO' (Last modified: May 29, 2020 4:19 p.m., User: training, Group: supergroup, Size: 1.6 KB, Mode: 100666). The main area displays the HTML content of the file:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xml:lang="en" lang="en">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<meta name="device" content="Sorrento F00L" />
<meta name="docid" content="KBD0C-00001" />
<meta name="createddate" content="2008-10-21" />
<meta name="updateddate" content="2008-10-24" />
<title>Sorrento F00L - Change the phone ringtone and notification sound</title>
<link rel="stylesheet" type="text/css" href="theme.css" />
</head>
<body>
<h1>Sorrento F00L - Change the phone ringtone and notification sound</h1>
<h2>Document Id: KBD0C-00001</h2>
<h2>Created: 2008-10-21</h2>
<h2>Updated: 2008-10-24</h2>
<h3>Steps to change the phone ringtone for calls on your Sorrento F00L</h3>
<ol>
<li>From the Settings screen, tap Personalization.</li>
<li>Tap Sounds.</li>
<li>Tap Ringtone.</li>
<li>Tap your preferred ringtone.</li>

```

## Step21-26:



Search for file name

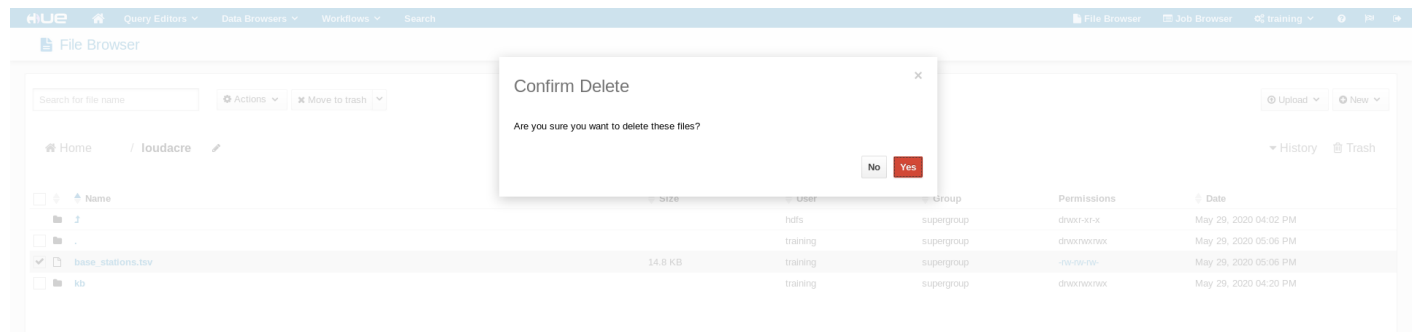
Actions Move to trash

Upload New

Home / loudacre History Trash

Name	Size	User	Group	Permissions	Date
.		hdfs	supergroup	drwxr-xr-x	May 29, 2020 04:02 PM
base_stations.tsv	14.8 KB	training	supergroup	drwxrwxrwx	May 29, 2020 05:06 PM
kb		training	supergroup	-rw-rw-rw-	May 29, 2020 04:20 PM

## Step27:



Search for file name

Actions Move to trash

Upload New

Home / loudacre History Trash

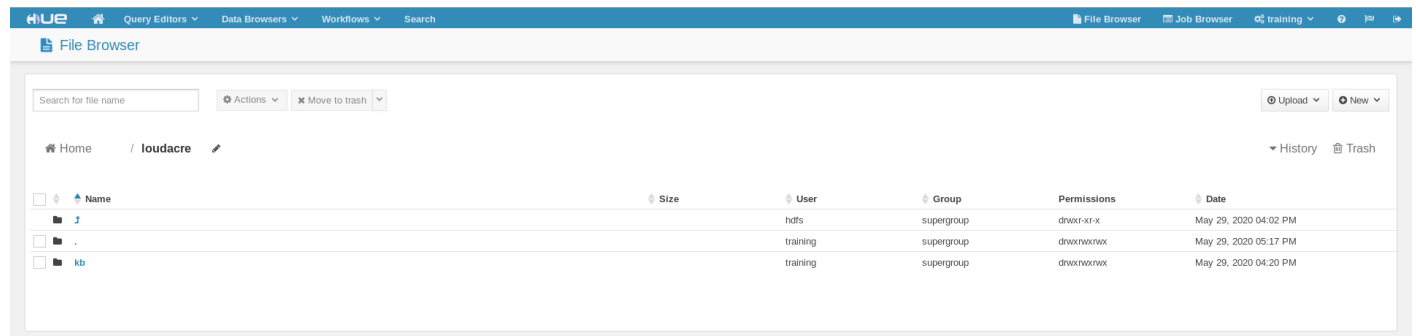
Confirm Delete

Are you sure you want to delete these files?

No Yes

Name	Size	User	Group	Permissions	Date
.		hdfs	supergroup	drwxr-xr-x	May 29, 2020 04:02 PM
base_stations.tsv	14.8 KB	training	supergroup	drwxrwxrwx	May 29, 2020 05:06 PM
kb		training	supergroup	-rw-rw-rw-	May 29, 2020 04:20 PM

## Step28:



Search for file name

Actions Move to trash

Upload New

Home / loudacre History Trash

Name	Size	User	Group	Permissions	Date
.		hdfs	supergroup	drwxr-xr-x	May 29, 2020 04:02 PM
kb		training	supergroup	drwxrwxrwx	May 29, 2020 04:20 PM