Demo flow -- items marked 5.1 require CDH 5.1 GA July 17

Use 3 or 4 files of with different information <all but 1 of them will be preloaded into CDH with all relevant metadata and tags preadded>

1. **Ingest**
2. Show a file in the windows/linux file system
3. Use HDFS commands to put that file into HDFS
4. Use HDFS commands to show the contents of that file in HDFS – they will be the same
5. **ETL**
   1. Use ETL TOOL to 2 different files to same schema or similar action <need to look at our data to see what would be meaningful>
6. **Create/.Show metadata in Hive Metastore for file**
   1. Brief discussion of schema on read – slide? -
   2. Create Hive Schema for new table just uploaded
   3. Use Hue to show schema’s for the various tables
7. **Relational query**
   1. Login into Hue as UserOne
   2. Use Hue to query the data with Impala (join 2 files on Tax Payer ID)
   3. <5.1> make a nice chart
8. **Text Search**
   1. Use Cloudera Manager to index the new file just uploaded so it will be searchable
   2. Brief discussion on how/when data gets indexed, facets, and Solr
   3. Use Hue to Search the collection of documents <using a facet to limit the search by some attribute >
   4. <5.1> make nice chart/graph
9. **Getting Data from Hadoop to other systems**
   1. Go back to Hue – show a table
   2. Bring up DBMS browser – query equivalent table on DBMS <mysql?> - show it is empty
   3. Run sqoop
   4. Run query again on DBMS browser – show the data from the Hue view is now in the DBMS
10. **Security**
    1. Discussion of Sentry for Authorization
    2. Log into Hue <new tab> as UserTwo
    3. Try to query a table that you are not authorized to see
    4. Look at Hive Metastore notice that the table you are querying does not seem to exist
    5. Discuss navigator – slide? --
    6. Open Audit logs – look at some recent actions in the log including unauthorized attempt to query a table
11. **Data lineage and tagging. <5.1>**
    1. Discussion on Lineage and Tagging <slides>
    2. Show metadata tags on files
    3. Add metadata tags to the file that was added
    4. Show lineage of previously ETLed file << need to take 2 file and use ETL tool to create a new one with some merged data>>