

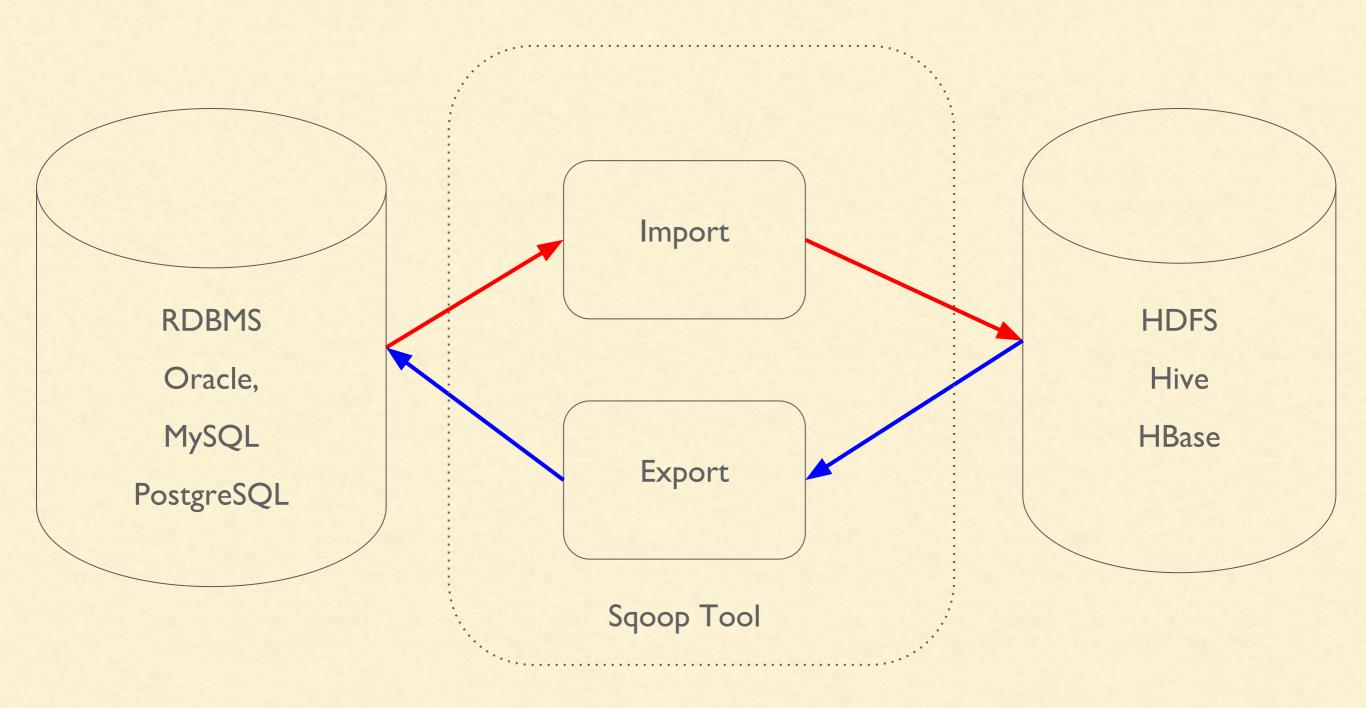
Welcome to Sqoop



#### Sqoop - Introduction

Open source tool to efficiently transferring bulk data between Hadoop and structured datastores such as MySQL, Oracle and HBase

# Sqoop - Tools



#### Sqoop - Connectors

#### Available Connectors:

Include MySQL, PostgreSQL, Oracle, SQL Server, DB2. Generic JDBC Connector - any database that support jdbc Third Party too - Netezza, Teradata

### Sqoop - Help

#### Go to shell:

>sqoop help

#### **Available commands:**

codegen

create-hive-table

eval

export

help

import

import-all-tables

job

list-databases

list-tables

merge

metastore

version

Generate code to interact with database records

Import a table definition into Hive

Evaluate a SQL statement and display the results

Export an HDFS directory to a database table

List available commands

Import a table from a database to HDFS

Import tables from a database to HDFS

Work with saved jobs

List available databases on a server

List available tables in a database

Merge results of incremental imports

Run a standalone Sqoop metastore

Display version information



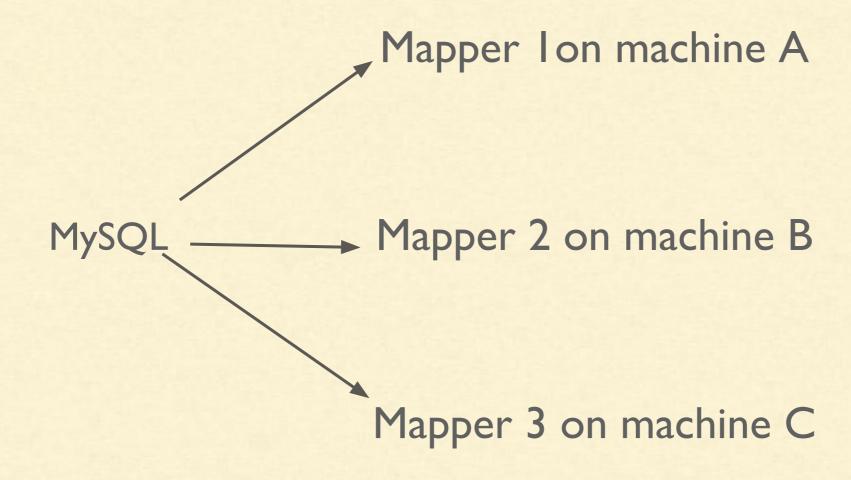
# Sqoop Import - MySQL to HDFS

sqoop import --connect jdbc:mysql://ip-172-31-13-154/sqoopex --table widgets -m 2 --username sqoopuser -P --split-by id

Check the content of the imported File: hadoop fs -cat widgets/part-m-00000

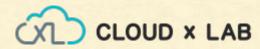
Also notice that widgets.java was created.

## Sqoop - MySQL Connection



# Sqoop Import - MySQL to Hive

sqoop import --connect jdbc:mysql://172.31.13.154/sqoopex --table widgets -m 2 --hive-import --username sqoopuser -P --hive-database sqoop\_testing



## Sqoop Import - MySQL to HBase

```
sqoop import --connect jdbc:mysql://172.31.13.154/sqoopex --table widgets --hbase-table 'widgets' --column-family cf2 --username sqoopuser -P --hbase-create-table --columns id,widget_name,price --hbase-row-key 'widget_name' -m |
```

# Sqoop Export - Hive to MySQL

```
# Copy sales.log locally
hadoop fs -copyToLocal /data/hive/sales.log
# Create Hive Table:
CREATE TABLE sales_test(widget_id INT, qty INT,
street STRING, city STRING, state STRING,
zip INT, sale date STRING)
ROW FORMAT DELIMITED FIELDS TERMINATED BY ',';
# Load Data:
LOAD DATA LOCAL INPATH "sales.log" INTO TABLE sales_test;
# Select rows to see data:
select * from sales test;
```



# Sqoop Export - Hive To MySQL

#Create MYSQL Table:

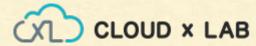
CREATE TABLE sales\_test(widget\_id INT, qty INT, street varchar(100), city varchar(100), state varchar(100), zip INT, sale\_date varchar(100))

# Sqoop Export:

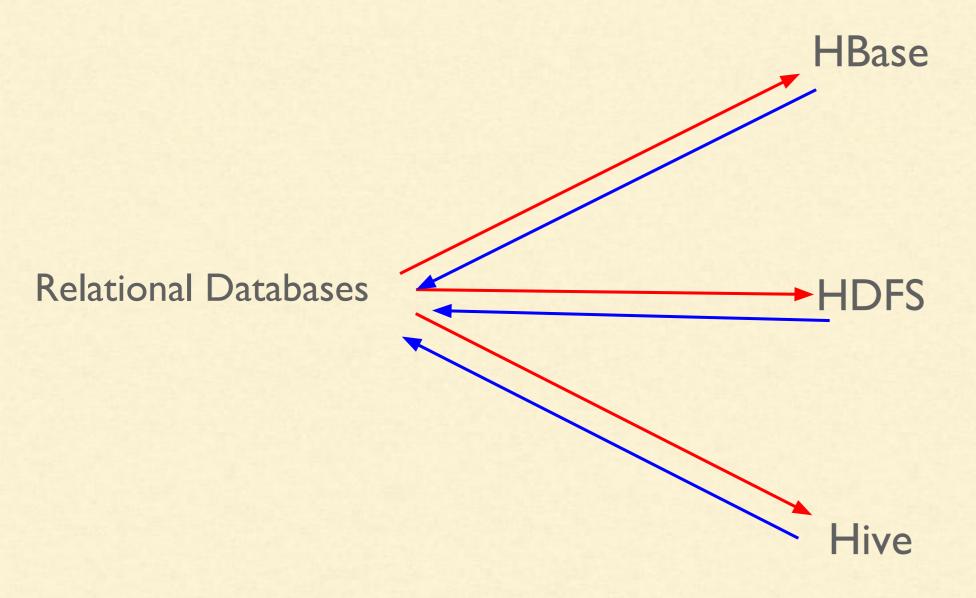
sqoop export --connect jdbc:mysql://172.31.13.154/sqoopex -m 1 --table sales\_test --export-dir /apps/hive/warehouse/sales\_test --input-fields-terminated-by ',' --username sqoopuser -P

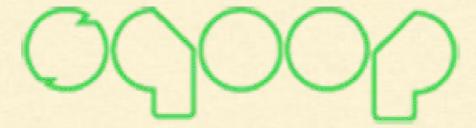
# Sqoop - Summary

- Introduction
- Import
- Export



#### Sqoop - Introduction Contd.





Thank you!

