

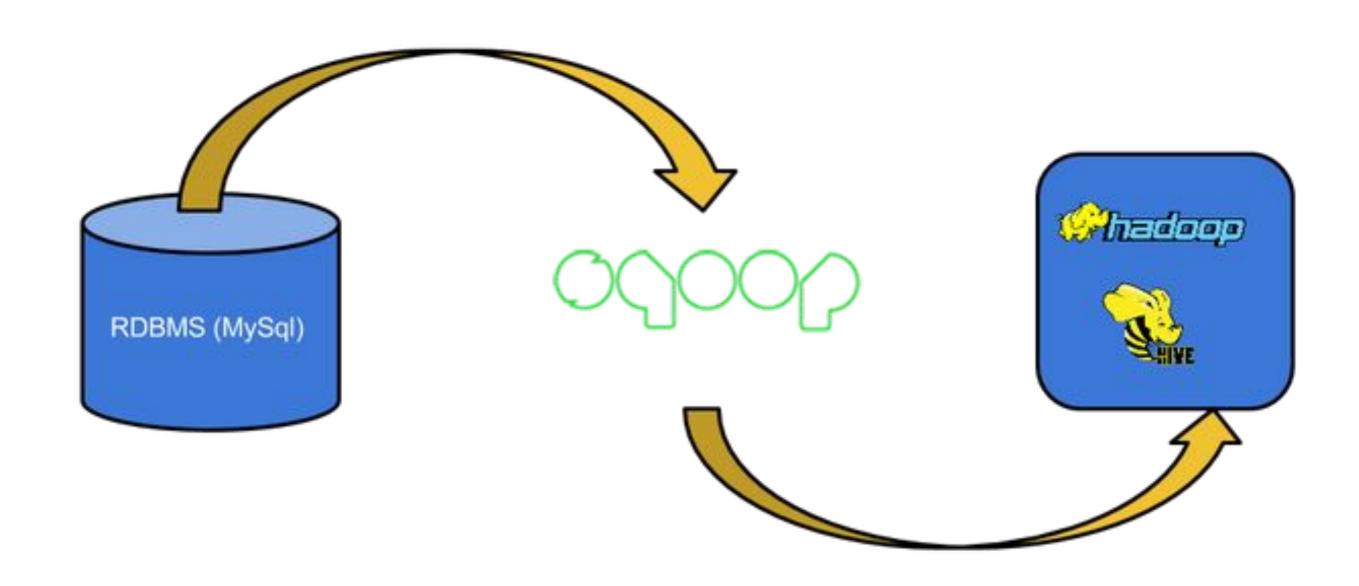
Introduction to Apache Sqoop

https://www.facebook.com/diceanalytics

https://www.linkedin.com/company/13294896



# Sqoop





### What is Sqoop

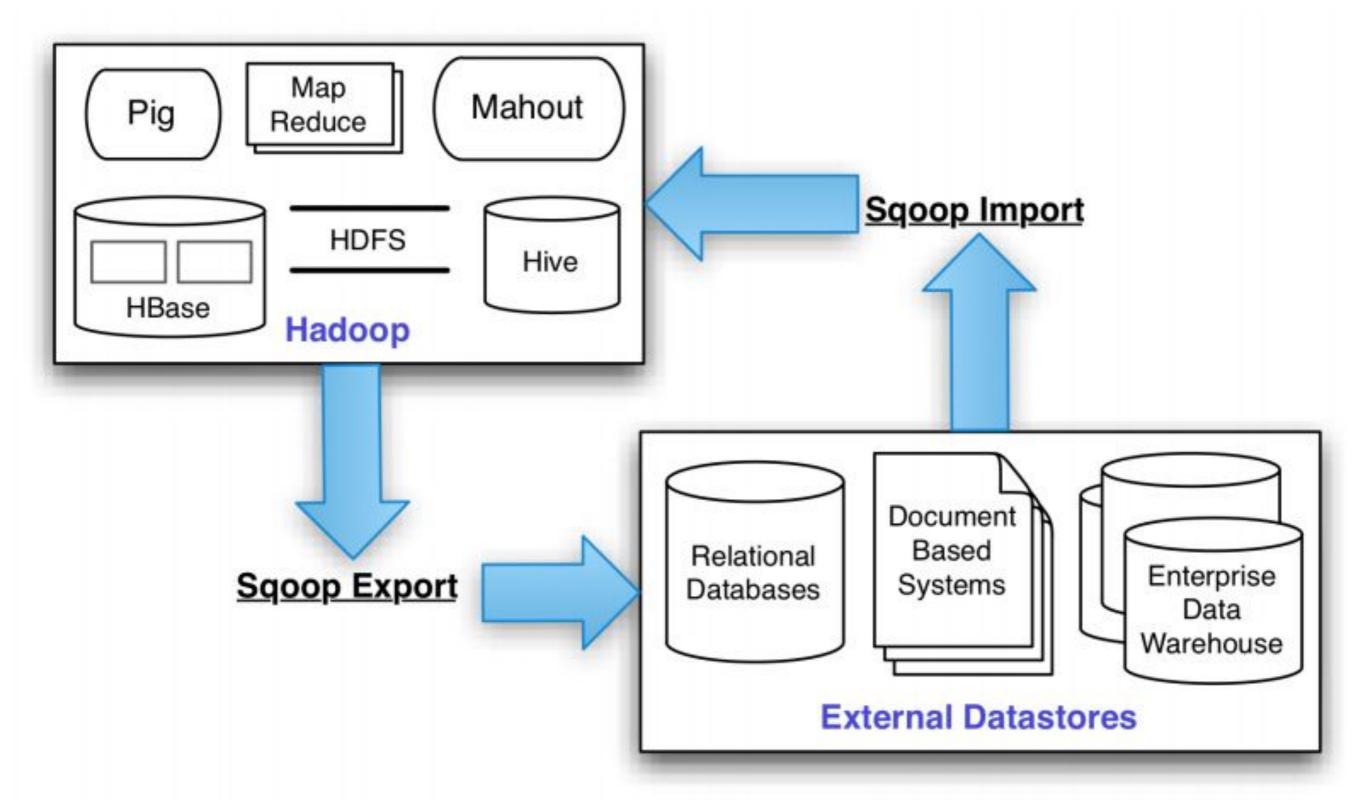
- Sqoop is a data transfer tool
- Sqoop transfer data between Hadoop and relational DB servers
- Sqoop is used to import data from relational DB such as MySQL, Oracle
- Sqoop is used to export data from HDFS to relational DB

### Sqoop has to Major Tools





### What is Sqoop





## What is Sqoop

- Developed By Cloudera
- Uses Map Reduce Framework to Transfer Data
- Connectors Available for Multiple RDBMS









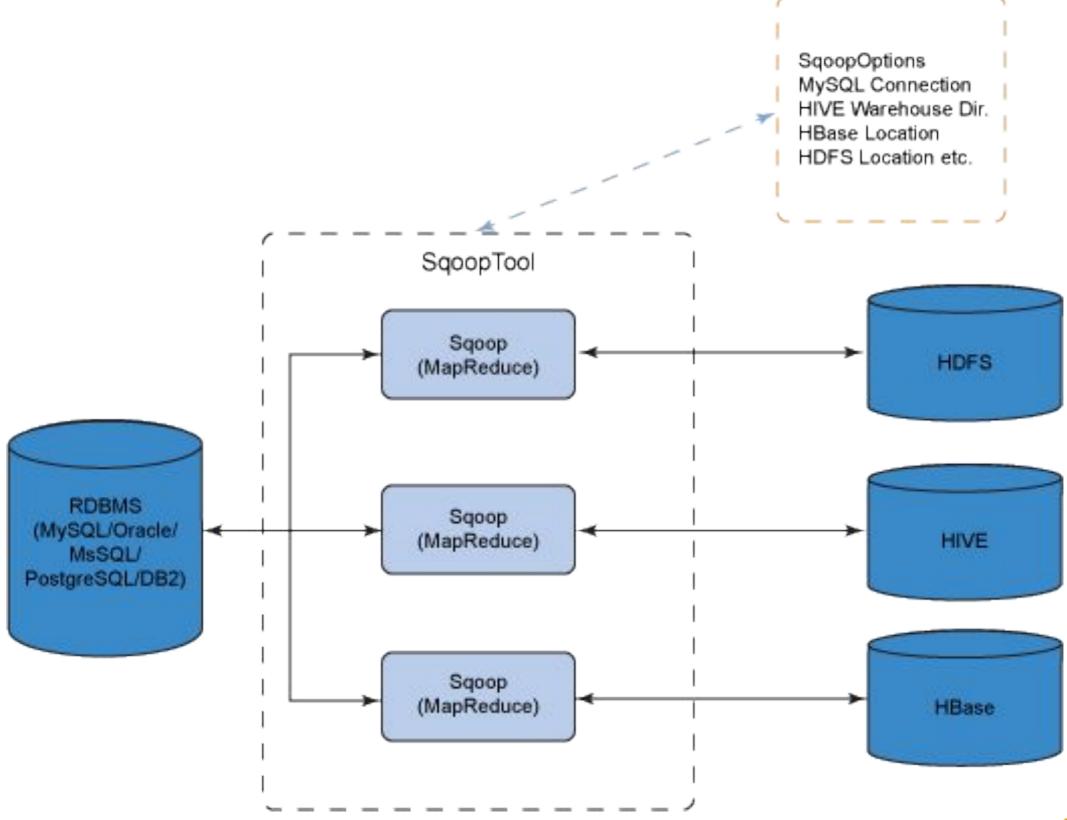






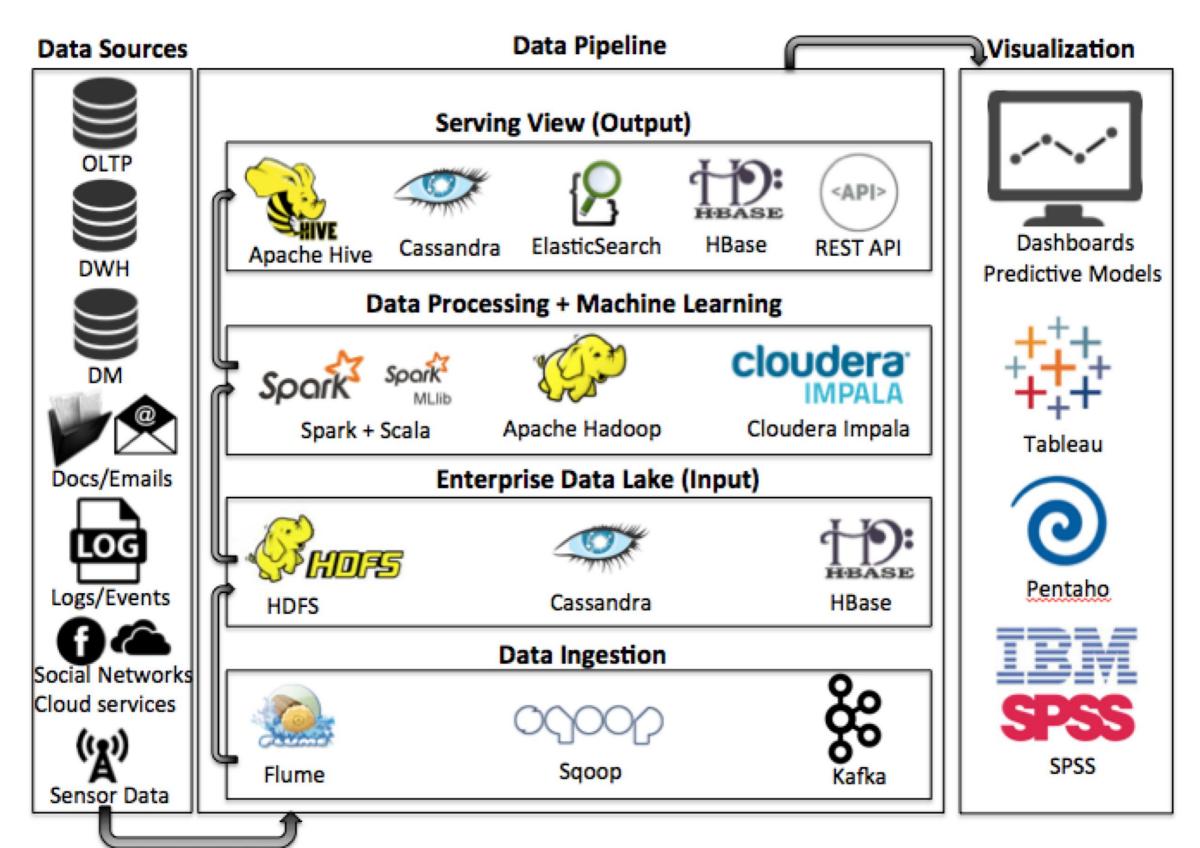


### Sqoop Architecture

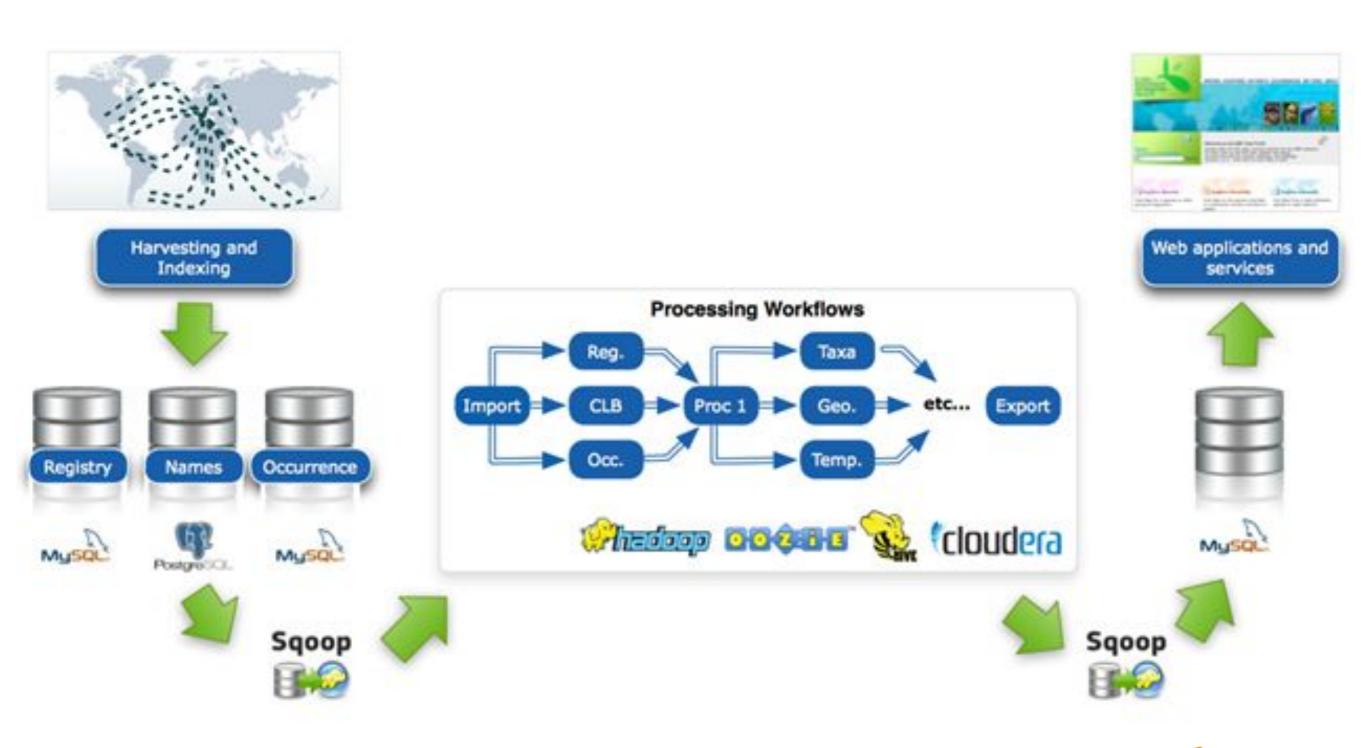




### Modern Data Pipelines

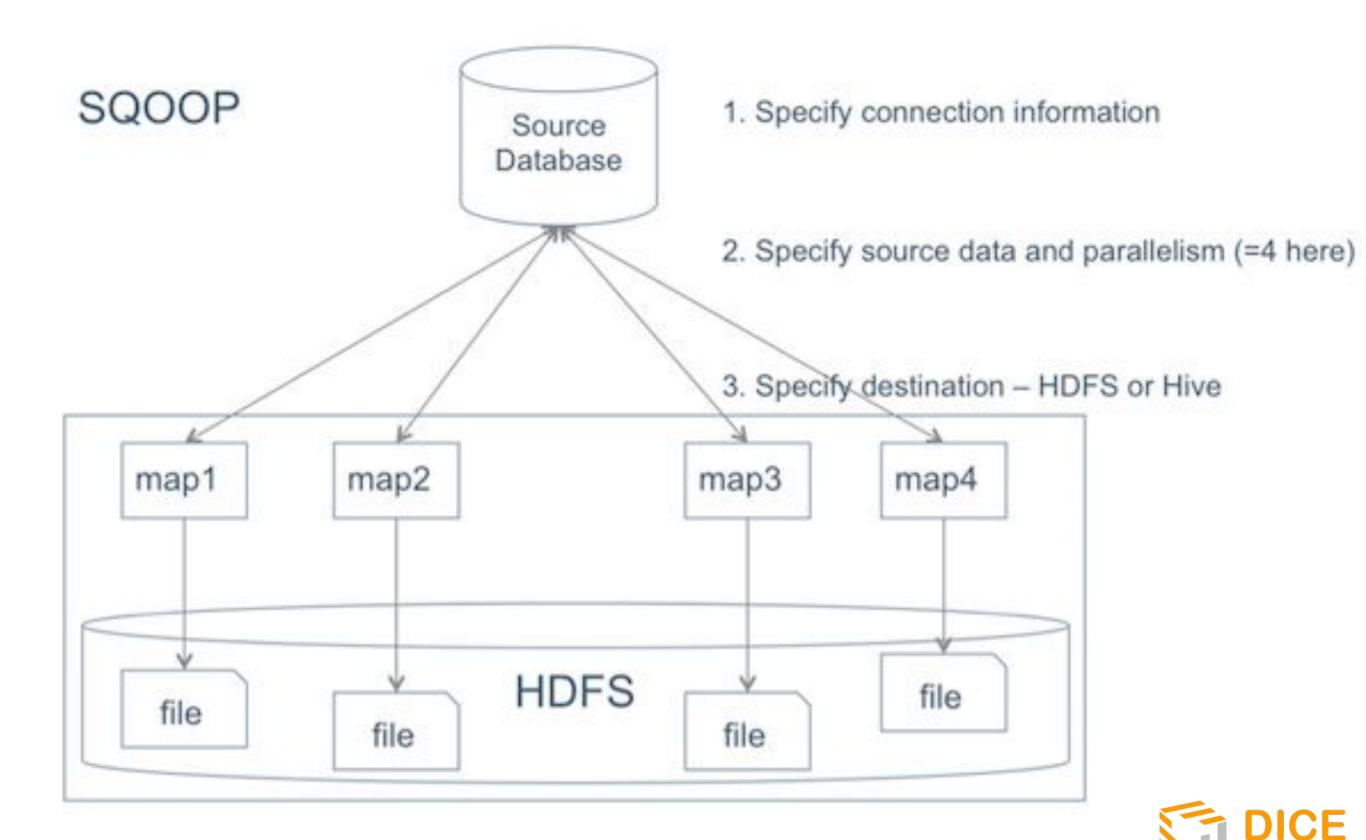


#### Sqoop in Realworld Applications





### Sqoop Import Architecture



## Sqoop Tutorial

- Open Linux Shell
- Show Databases;
- Use Database Command
- Show Tables;
- Sqoop Help
- Sqoop help import
- Import Syntax Schema

sqoop-import (generic-args) (import-args)

- Create Database test2;
- CREATE TABLE test2.sample\_data (Name Varchar(200), Age Varchar(200));
- Insert into test2.sample\_Data (Name,Age) Values('Ali','45');



### Sqoop Tutorial

- Insert into test2.sample\_data (Name,Age) Values('Raza','44');
- Insert into test2.sample\_data (Name,Age) Values('Ahmad','43');
- Insert into test2.sample\_data (Name,Age) Values('Ahmad','43');
- Insert into test2.sample\_data (Name,Age) Values('Ahmad','43');

```
--connect jdbc:mysql://localhost/test2 \
--username root \
--table sample_data \
--m 1 \
--driver com.mysql.jdbc.Driver \
--target-dir /tmp/test2_sampledata_mysql
```

- hadoop dfs -ls /tmp/test2\_sampledata\_mysql
- hdfs dfs -cat /tmp/test2\_sampledata\_mysql/part-m-00000



## Sqoop Tutorial

```
sqoop import \
--connect jdbc:mysql://localhost/test2 \
--username root \
--table sample_data \
--m 1 \
--driver com.mysql.jdbc.Driver
--target-dir =
/tmp/test2_sampledata_mysql_V2
--where "Name = 'Ali'"
```



# Sqoop Scripts

https://github.com/dgadiraju/code/blob/master/hadoop/edw/hdp/sqoop/sqoop\_demo.txt http://sqoop.praveendeshmane.co.in/sqoop/sqoop-import-from-mysql-database-to-HDFS.js

<u>p</u>

http://sqoop.praveendeshmane.co.in/sqoop/sqoop-export-to-mysql-database-from-HDFS.js

p

http://sqoop.praveendeshmane.co.in/sqoop/sqoop-job-command-with-example.jsp http://sqoop.praveendeshmane.co.in/sqoop/sqoop-codegen-command-with-example.jsp

