

LAB 01.A - WORKING WITH HDFS, SQOOP & MYSQL



1º

Start-dfs.sh

2º

Start-yarn.sh
jps

3º

sudo systemctl status mysqld

4º

mysql -u root -p

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5^o Create database structure:

```
create database testdb;
```

```
use testdb;
```

```
create table employees (username varchar(30), password varchar(30));
```

```
insert into employees value ('Alan Turing', 'password123');
```

```
select * from employees;
```

6^o Sqoop connects to Mysql through a JDBC connector

Download: mysql-connector-java-8.0.23.zip

```
cp mysql-connector-java-8.0.23.jar /opt/sqoop/lib
```

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7^o Connection to import the MySQL table into Hadoop using Sqoop

Test connection: `sqoop list-databases --connect jdbc:mysql://localhost:3306/ --username root -P`

Import data: `sqoop import --connect jdbc:mysql://localhost:3306/ testdb?serverTimezone=UTC --username root --password xxxxxxxx --table employees --m 1`



```
INFO mapreduce.ImportJobBase: Transferred 23 bytes in 27.9275 seconds (0.8236 bytes/sec)
INFO mapreduce.ImportJobBase: Retrieved 1 records.
```

8^o

`hdfs dfs -ls /user/hadoop/ employees`

9^o Bring the created file to the local system:

`Hdfs dfs -get /user/hadoop/ employees/part-m-00000`

`~ > gedit part-m-00000`