

# Project in Spark 2017

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## 1 TASK

Firstly we uncompressed the data stored in ling-spam.zip folder with *Extract all* command. Secondly we open Virtual Box machine with Hortonworks, we signed in with maria\_dev user-name and maria\_dev password on Ambari available under 127.0.0.1:8080 ip address. We have selected *Files view*, than navigated to /tmp folder and created directories tmp/ling-spam/ham and ling-spam/spam. Following that we logged in with ssh credentials to Hortonworks machine

```
$ssh root@127.0.0.1 -p 2222
```

In the meantime upload to the virtual machine ling-spam.zip with:

```
$sudo scp -P 2222 ../ling-spam.zip root@127.0.0.1:/tmp/
```

We unzipped ling-spam.zip with:

```
$unzip ling-spam.zip -d /tmp/ling-spam
```

We putted files into /tmp/ling-spam/ folder in hdfs with:

```
$hdfs dfs -put ../ling-spam/ham /tmp/ling-spam/ham
```

```
$hdfs dfs -put ../ling-spam/spam /tmp/ling-spam/spam
```

## 2 TASK

Installation and use sbt

### 3 TASK

### 4 TASK

### 5 TASK

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$$\begin{aligned}(x+y)^3 &= (x+y)^2(x+y) \\ &= (x^2 + 2xy + y^2)(x+y) \\ &= (x^3 + 2x^2y + xy^2) + (x^2y + 2xy^2 + y^3) \\ &= x^3 + 3x^2y + 3xy^2 + y^3\end{aligned}\tag{5.1}$$

Phasellus viverra nulla ut metus varius laoreet. Quisque rutrum. Aenean imperdiet. Etiam ultricies nisi vel augue. Curabitur ullamcorper ultricies

#### 5.1 HEADING ON LEVEL 2 (SUBSECTION)

Lorem ipsum dolor sit amet, consectetur adipiscing elit.

$$A = \begin{bmatrix} A_{11} & A_{21} \\ A_{21} & A_{22} \end{bmatrix}\tag{5.2}$$

Aenean commodo ligula eget dolor. Aenean massa. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Donec quam felis, ultricies nec, pellentesque eu, pretium quis, sem.

##### 5.1.1 HEADING ON LEVEL 3 (SUBSUBSECTION)

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HEADING ON LEVEL 4 (PARAGRAPH) Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean commodo ligula eget dolor. Aenean massa. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Donec quam felis, ultricies nec, pellentesque eu, pretium quis, sem. Nulla consequat massa quis enim.

## 6 LISTS

### 6.1 EXAMPLE FOR LIST (3\*ITEMIZE)

- First item in a list
  - First item in a list
    - \* First item in a list
    - \* Second item in a list
  - Second item in a list
- Second item in a list

### 6.2 EXAMPLE FOR LIST (ENUMERATE)

1. First item in a list
2. Second item in a list
3. Third item in a list