

Project in Spark 2017

Adrianna Janik

Ion Mosnoi

Lei Guo

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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 of sbt:

```
$wget http://dl.bintray.com/sbt/rpm/sbt-0.13.12.rpm
```

```
Edit file /etc/yum.repos.d/sandbox.repo:
```

```
~[sandbox]
~name=Sandbox repository (tutorials)
~gpgcheck=0
~enabled=0
~baseurl=http://dev2.hortonworks.com.s3.amazonaws.com/repo/dev/master/Utils/
```

```
$yum clean all
```

```
$yum update
```

```
$sudo yum localinstall sbt-0.13.12.rpm
```

```
$sbt -update
```

```
$sudo scp -P 2222 -r ../spamTopWords/* root@127.0.0.1:/tmp/spamTopWords/
```

```
$sbt package
```

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)

Nulla consequat massa quis enim. Donec pede justo, fringilla vel, aliquet nec, vulputate eget, arcu. In enim justo, rhoncus ut, imperdiet a, venenatis vitae, justo. Nullam dictum felis eu pede mollis pretium. Integer tincidunt. Cras dapibus. Vivamus elementum semper nisi. Aenean vulputate eleifend tellus. Aenean leo ligula, porttitor eu, consequat vitae, eleifend ac, enim.

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