

Hadoop Setting – 파일 다운/압축 풀기/파일 이동/bashrc 설정

Hadoop 다운로드



Bashrc 파일 설정

```
ubuntu@ubuntu-VirtualBox:~$ sudo gedit .bashrc
(gedit:34189): Tepl-WARNING **: 12:51:30.595: GVfs metadata is not supported on this platform. Either GVfs is not correctly installed or le-gvfs-metadata.
ubuntu@ubuntu-VirtualBox:~$ source .bashrc
```

Hadoop-2.9.1 폴더 → /usr/local/Hadoop 폴더로 이동

```
ubuntu@ubuntu-VirtualBox:~$ cd download
bash: cd: download: 그런 파일이나 디렉터리가 없습니다
ubuntu@ubuntu-VirtualBox:~$ ls
eclipse          hadoop-2.9.1.tar.gz  다운로드  바탕화면  사진  템플릿
eclipse-workspace  공개                문서      비디오    음악
ubuntu@ubuntu-VirtualBox:~$ cd hadoop-2.9.1/
bash: cd: hadoop-2.9.1/: 그런 파일이나 디렉터리가 없습니다
ubuntu@ubuntu-VirtualBox:~$ cd 다운로드/
ubuntu@ubuntu-VirtualBox:~/다운로드$ cd hadoop-2.9.1/
ubuntu@ubuntu-VirtualBox:~/다운로드/hadoop-2.9.1$ pwd
/home/ubuntu/다운로드/hadoop-2.9.1
ubuntu@ubuntu-VirtualBox:~/다운로드/hadoop-2.9.1$ sudo mkdir /usr/local/hadoop
[sudo] ubuntu의 암호:
mkdir: '/usr/local/hadoop' 디렉토리를 만들 수 없습니다: 파일이 있습니다
ubuntu@ubuntu-VirtualBox:~/다운로드/hadoop-2.9.1$ sudo mkdir /usr/local/hadoop
mkdir: '/usr/local/hadoop' 디렉토리를 만들 수 없습니다: 파일이 있습니다
ubuntu@ubuntu-VirtualBox:~/다운로드/hadoop-2.9.1$ sudo mv * /usr/local/hadoop/
ubuntu@ubuntu-VirtualBox:~/다운로드/hadoop-2.9.1$ ls
ubuntu@ubuntu-VirtualBox:~/다운로드/hadoop-2.9.1$ cd ..
ubuntu@ubuntu-VirtualBox:~/다운로드$ cd hadoop-2.9.1/
ubuntu@ubuntu-VirtualBox:~/다운로드/hadoop-2.9.1$ sudo mv * /usr/local/hadoop
```

```
5 ##### HADOOP #####
6 export HADOOP_HOME=/usr/local/hadoop
7 export PATH=$PATH:$HADOOP_HOME/bin
8 export PATH=$PATH:$HADOOP_HOME/sbin
9 export HADOOP_MAPRED_HOME=$HADOOP_HOME
10 export HADOOP_COMMON_HOME=$HADOOP_HOME
11 export HADOOP_HDFS_HOME=$HADOOP_HOME
12 export YARN_HOME=$HADOOP_HOME
13 export HADOOP_COMMON_LIB_NATIVE_DIR=$HADOOP_HOME/lib/native
14 export HADOOP_OPTS="-Djava.library.path=$HADOOP_HOME/lib"
```


Hadoop Setting – xml 및 사용자 계정 설정

XML 설정

```
core-site.xml
/usr/local/hadoop/etc/hadoop

13 See the License for the specific language governing
14 limitations under the License. See accompanying L
15 -->
16
17 <!-- Put site-specific property overrides in this f
18
19 <configuration>
20
21 <property>
22
23 <name>hadoop.tmp.dir</name>
24
25 <value>/usr/local/hadoop/tmp</value>
26
27 </property>
28
29 <property>
30
31 <name>fs.default.name</name>
32
33 <value>hdfs://localhost:62350</value>
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
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hdfs-site.xml
/usr/local/hadoop/etc/hadoop

35 </property>
36
37 <property>
38
39 <name>dfs.datanode.data.dir</name>
40
41 <value>file:/usr/local/hadoop/hdfs/datanode</value>
42
43 </property>
44
45 <property>
46
47 <name>dfs.http.address</name>
48
49 <value>localhost:50070</value>
50
51 </property>
52
53 <property>
54
55 <name>dfs.secondary.http.address</name>
56
57 <value>localhost:50090</value>
58

mapred-site.xml
/usr/local/hadoop/etc/hadoop

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8 http://www.apache.org/licenses/LICENSE-2.0
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11 distributed under the License is distributed on an "AS IS" BA
12 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
13 See the License for the specific language governing permissio
14 limitations under the License. See accompanying LICENSE file.
15 -->
16
17 <!-- Put site-specific property overrides in this file. -->
18
19 <configuration>
20
21 <property>
22
23 <name>mapred.job.tracker</name>
24
25 <value>localhost:62351</value>
26
27 </property>
28
29 </configuration>

hadoop-env.sh
/usr/local/hadoop/etc/hadoop

7 # with the License. You may obtain a copy of the License at
8 #
9 # http://www.apache.org/licenses/LICENSE-2.0
10 #
11 # Unless required by applicable law or agreed to in writing, software
12 # distributed under the License is distributed on an "AS IS" BASIS,
13 # WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
14 # See the License for the specific language governing permissions and
15 # limitations under the License.
16
17 # Set Hadoop-specific environment variables here.
18
19 # The only required environment variable is JAVA_HOME. All others are
20 # optional. When running a distributed configuration it is best to
21 # set JAVA_HOME in this file, so that it is correctly defined on
22 # remote nodes.
23
24 # The java implementation to use. Jsvc is required to run secure datanodes
25 export JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64
26
27 # The jsvc implementation to use. Jsvc is required to run secure datanodes
28 # that bind to privileged ports to provide authentication of data transfer
29 # protocol. Jsvc is not required if SASL is configured for authentication of
30 # data transfer protocol using non-privileged ports.
```

사용자 및 slave 설정 확인

```
ubuntu@ubuntu-VirtualBox:~$ sudo addgroup hadoop
[sudo] ubuntu의 암호:
그룹 'hadoop' (GID 1001) 추가 ...
완료.
ubuntu@ubuntu-VirtualBox:~$ sudo adduser ubuntu hadoop
'ubuntu' 사용자를 'hadoop' 그룹에 추가 중...
사용자 ubuntu을(를) hadoop 그룹에 등록 중
완료.
ubuntu@ubuntu-VirtualBox:~$
```

```
ubuntu@ubuntu-VirtualBox:~$ cd /usr/local/hadoop/etc/hadoop/
ubuntu@ubuntu-VirtualBox:/usr/local/hadoop/etc/hadoop$ sudo gedit slaves
[sudo] ubuntu의 암호:

(gedit:13215): Tepl-WARNING **: 15:40:11.020: GVfs metadata is not supported on this platform. Either GVfs is not correctly installed or GVfs metadata is not supported on this platform. In the latter case, you should configure Tepl-gvfs-metadata.
```

```
현재 활동 텍스트 편집기 5월 28일 15 : 40
열기(O) slaves
/usr/local/hadoop/etc/hadoop
1 localhost
```

Hadoop Setting – xml 및 사용자 계정 설정

폴더 생성 및 권한설정

```
ubuntu@ubuntu-VirtualBox:/usr/local/hadoop$ sudo mkdir hdfs
ubuntu@ubuntu-VirtualBox:/usr/local/hadoop$ sudo mkdir tmp
ubuntu@ubuntu-VirtualBox:/usr/local/hadoop$ cd hdfs/
ubuntu@ubuntu-VirtualBox:/usr/local/hadoop/hdfs$ mkdir datanode namenode

ubuntu@ubuntu-VirtualBox:~$ sudo chown -R ubuntu:hadoop /usr/local/hadoop/

ubuntu@ubuntu-VirtualBox:/usr/local/hadoop/hdfs$ sudo chown -R ubuntu:hadoop /usr/local/hadoop/tmp
ubuntu@ubuntu-VirtualBox:/usr/local/hadoop/hdfs$ sudo chown -R ubuntu:hadoop /usr/local/hadoop/hdfs/namenode
ubuntu@ubuntu-VirtualBox:/usr/local/hadoop/hdfs$ sudo chown -R ubuntu:hadoop /usr/local/hadoop/hdfs/datanode

ubuntu@ubuntu-VirtualBox:~$ hadoop namenode -format
DEPRECATED: Use of this script to execute hdfs command is deprecated.
Instead use the hdfs command for it.
```

start-all.sh 실행

```
ubuntu@ubuntu-VirtualBox:~$ start-all.sh
This script is Deprecated. Instead use start-dfs.sh and start-yarn.sh
21/05/28 15:26:43 WARN util.NativeCodeLoader: Unable to load native-hadoop
your platform... using builtin-java classes where applicable
Starting namenodes on [localhost]
```

jps 및 홈페이지 확인

```
ubuntu@ubuntu-VirtualBox:~$ jps
4050 NodeManager
3254 NameNode
3735 ResourceManager
4172 Jps
3613 SecondaryNameNode
3423 DataNode
```

현재 활동 Firefox 웹 브라우저 5월 28일 17 : 30

카페홈 - D BIGDATA Apache D 하둡설정+ BIGDATA Namenod

localhost:50070/dfshealth.html#tab-overv ...

Hadoop

Overview Datanodes Datanode Volume Failures Snapshot Startup Pro

Overview 'localhost:62350' (active)

Started:	Fri May 28 17:28:31 +0900 2021
Version:	2.9.1, re30710aea4e6e55e69372929106cf119af06fd0e
Compiled:	Mon Apr 16 18:33:00 +0900 2018 by root from branch-2.9.1
Cluster ID:	CID-eb73a0db-79bc-499c-a87e-cd3e02fc1e21
Block Pool ID:	BP-175521109-127.0.1.1-1622183131332