빅데이터 저장시스템 개발_최현진

2021-06-18

3.Hadoop을 설치하시오

```
[root@Server333 ~]# vi /etc/hosts
```

```
1 192.168.100.111 Server111
2 192.168.100.147 Server333
```

```
[root@Server333 ~]# ssh-keygen -t rsa
Generating public/private rsa key pair.
Enter file in which to save the key (/root/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
```

*방화벽 끄기, 자바 설치 hostname등 몇몇 과정은 생략했습니다
*서버 222가 오류가 나서 서버 하나 없이 했습니다

3.Hadoop을 설치하시오

```
OpenJDK Runtime Environment (build 1.8.0_292-b10)
OpenJDK 64-Bit Server VM (build 25.292-b10, mixed mode)
[root@Server333 ~]# ssh-keygen -t rsa
Generating public/private rsa key pair.
Enter file in which to save the key (/root/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /root/.ssh/id_rsa.
Your public key has been saved in /root/.ssh/id_rsa.pub.
The key fingerprint is:
SHA256:sNy6aq0nyn/snjeijwnpqdNqe267BeqYTFu5j5Ixp+w root@Server333
The key's randomart image is:
+---[RSA 3072]----+
|                 |
|                 |
|        .        |
|      . +        |
|    .   o S      |
| o.oo    .       |
|.+Oo +.          |
|*X+=*o*oo         |
|BE@X@%*o .        |
+----[SHA256]-----+
[root@Server333 ~]#
```
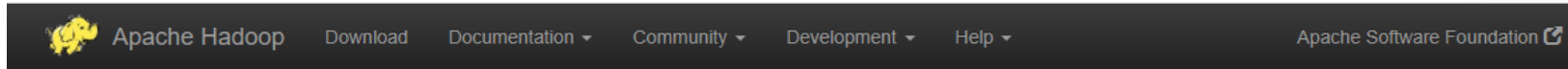
```
[root@Server333 ~]# ssh-copy-id -i /root/.ssh/id_rsa.pub root@Server333
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/root/.ssh/id_rsa
.pub"
The authenticity of host 'server333 (192.168.100.147)' can't be established.
ECDSA key fingerprint is SHA256:XCos4mGNIGS7VKSoqQH9dKLJc2kHsTPF39iLJjlLTz8.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter
out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompt
ed now it is to install the new keys
root@server333's password:

Number of key(s) added: 1

Now try logging into the machine, with:   "ssh 'root@Server333'"
and check to make sure that only the key(s) you wanted were added.

[root@Server333 ~]# reboot
```

3.Hadoop을 설치하시오

Apache Hadoop | Download | Documentation ▾ | Community ▾ | Development ▾ | Help ▾ | Apache Software Foundation ⧉

Download

Hadoop is released as source code tarballs with corresponding binary tarballs for convenience. The downloads are distributed via mirror sites and should be checked for tampering using GPG or SHA-512.

Version	Release date	Source download	Binary download	Release notes
3.2.2	2021 Jan 9	source (checksum signature)	binary (checksum signature)	Announcement

HTTP

https://mirror.navercorp.com/apache/hadoop/common/hadoop-3.2.2/hadoop-3.2.2.tar.gz

```
[root@Server333 ~]# wget https://mirror.navercorp.com/apache/hadoop/common/hadoo
p-3.2.2/hadoop-3.2.2.tar.gz
```

4.Sqoop을 설치 후 import/export를 수행하시오

```
[root@Server101 ~]# wget https://mirror.navercorp.com/apache/hbase/2.4.4/hbase-2
.4.4-bin.tar.gz
[root@Server101 ~]# tar xvfz hbase-2.4.4-bin.tar.gz
[root@Server101 ~]# mv hbase-2.4.4-bin /home/bigdata/
[root@Server101 ~]# mv hbase-2.4.4-bin.tar.gz /home/bigdata/
[root@Server101 ~]# cd /home/bigdata/
[root@Server101 ~]# ln -s hbase-2.4.4-bin.tar.gz hbase
[root@Server101 ~]# vi ~/.bashrc
```

중간 부분은 급히 생략합니다

4.Sqoop을 설치 후 import/export를 수행하시오(import)

```
[root@Server101 ~]# start-all.sh
```

Overview 'Server101:9000' (active)

Started:	Fri Jun 18 12:30:38 +0900 2021
Version:	2.10.1, r1827467c9a56f133025f28557bfc2c562d78e816
Compiled:	Mon Sep 14 22:17:00 +0900 2020 by centos from branch-2.10.1
Cluster ID:	CID-c4b57e96-f5c4-40c8-88a7-4d03b98b9b20
Block Pool ID:	BP-34994771-192.168.100.101-1623823336839

4.Sqoop을 설치 후 import/export를 수행하시오(import)

```
[root@Server101 ~]# sqoop export --connect jdbc:mysql://192.168.100.101:3306/sqoop --table User2 --export-dir /sqoop/User1 --username sqoop --password 1234 -m 1
```

Utilities ▾

Browse the file system

Logs

Logs
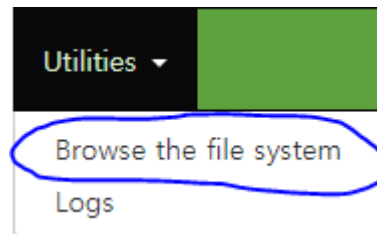
Browse Directory

	/									Go!	📁 ⬆ 🗔

Show 25 entries

Search:

	Permission	Owner	Group	Size	Last Modified	Replication	Block Size	Name	
☐	drwxr-xr-x	root	supergroup	0 B	Jun 16 15:12	0	0 B	backup	🗑
☐	drwxr-xr-x	root	supergroup	0 B	Jun 16 17:34	0	0 B	flume	🗑
☐	drwxr-xr-x	root	supergroup	0 B	Jun 17 17:44	0	0 B	hbase	🗑
☐	drwxr-xr-x	root	supergroup	0 B	Jun 16 15:06	0	0 B	java	🗑
☐	drwxr-xr-x	root	supergroup	0 B	Jun 17 15:34	0	0 B	sqoop	🗑
☐	drwx------	root	supergroup	0 B	Jun 17 15:34	0	0 B	tmp	🗑

Showing 1 to 6 of 6 entries

Previous 1 Next

Hadoop, 2020.

4.Sqoop을 설치 후 import/export를 수행하시오(import)

Browse Directory

	/sqoop							Go!

Show | 25 | entries   Search:

		Permission		Owner		Group		Size		Last Modified		Replication		Block Size		Name	
☐		drwxr-xr-x		root		supergroup		0 B		Jun 17 15:34		0		0 B		User1	🗑

Showing 1 to 1 of 1 entries   Previous 1 Next

Hadoop, 2020.

Browse Directory

	/sqoop/User1							Go!

Show | 25 | entries   Search:

		Permission		Owner		Group		Size		Last Modified		Replication		Block Size		Name	
☐		-rw-r--r--		root		supergroup		0 B		Jun 17 15:34		3		128 MB		_SUCCESS	🗑
☐		-rw-r--r--		root		supergroup		78 B		Jun 17 15:34		3		128 MB		part-m-00000	🗑

Showing 1 to 2 of 2 entries   Previous 1 Next

Hadoop, 2020.

4.Sqoop을 설치 후 import/export를 수행하시오(export)

```
[root@Server101 ~]# sqoop export --connect jdbc:mysql://192.168.100.101:3306/sqo
op --table User2 --export-dir /sqoop/User1 --username sqoop --password 1234 -m 1
```