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| EXP NO: 1(A) | Downloading and installing Hadoop |
| DATE: | |

AIM: -

BACKGROUND THEORY: -

PROCEDURE: -

- Switch to superuser mode using `sudo su`.
- Update all packages with `sudo yum update -y`.
- Install Java with `sudo yum install java-11-openjdk-devel -y` or `sudo yum install java-1.8.0-amazon-corretto-devel -y`.
- Verify the Java installation using `java -version`.
- Navigate to `/usr/local/` using `cd /usr/local/`.
- Download Hadoop with `sudo wget https://downloads.apache.org/hadoop/common/hadoop-3.3.6/hadoop-3.3.6.tar.gz`.
- Extract the Hadoop archive using `sudo tar -xvzf hadoop-3.3.6.tar.gz`.
- Rename the extracted folder with `sudo mv hadoop-3.3.6 hadoop`.
- Edit the `.bashrc` file to add Hadoop and Java environment variables.
- Reload the `.bashrc` file with `source ~/.bashrc` and verify Hadoop installation using `hadoop version`.

CODING: -

- `sudo su`
- `sudo yum update -y`
- `sudo yum install java-11-openjdk-devel -y` **or** `sudo yum install java-1.8.0-amazon-corretto-devel -y`
- `java -version`
- `cd /usr/local/`
- `sudo wget https://downloads.apache.org/hadoop/common/hadoop-3.3.6/hadoop-3.3.6.tar.gz`
- `sudo tar -xvzf hadoop-3.3.6.tar.gz`
- `sudo mv hadoop-3.3.6 hadoop`
- `sudo nano ~/.bashrc`
 - `# Hadoop variables`
 - `export HADOOP_HOME=/usr/local/hadoop`
 - `export PATH=$PATH:$HADOOP_HOME/bin:$HADOOP_HOME/sbin`
 - `# Java variables`
 - `export JAVA_HOME=$(readlink -f /usr/bin/java | sed "s:/bin/java::")`
 - `export PATH=$PATH:$JAVA_HOME/bin`
- `source ~/.bashrc`
- `hadoop version`

OUTPUT: -

```
[root@ip-172-31-46-39 local]# source ~/.bashrc
[root@ip-172-31-46-39 local]# hadoop version
Hadoop 3.3.6
Source code repository https://github.com/apache/hadoop.git -r 1be78238728da9266a4f88195058f08fd012bf9c
Compiled by ubuntu on 2023-06-18T08:22Z
Compiled on platform linux-x86_64
Compiled with protoc 3.7.1
From source with checksum 5652179ad55f76cb287d9c633bb53bbd
This command was run using /usr/local/hadoop/share/hadoop/common/hadoop-common-3.3.6.jar
[root@ip-172-31-46-39 local]# |
```