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Article



Installing Hadoop On Ubuntu

By Abdul Rasheed Feroz Khan on Dec 11 2016

Introduction

This article will help you to install Hadoop on your Ubuntu machine.

To surf some very basic articles look at the links below.

- 1. What is a Distributed Computing Environment
- 2. Why we need a Distributed Computing Environment and Hadoop Ecosystem

Requirements

- 1. Java
- 2. Hadoop

Follow the below steps now.

Step 1

Open a new terminal and check if Java is installed on your machine or not.

Terminal – Ctrl + Alt + T

To find the Java Version:

Command

java -version



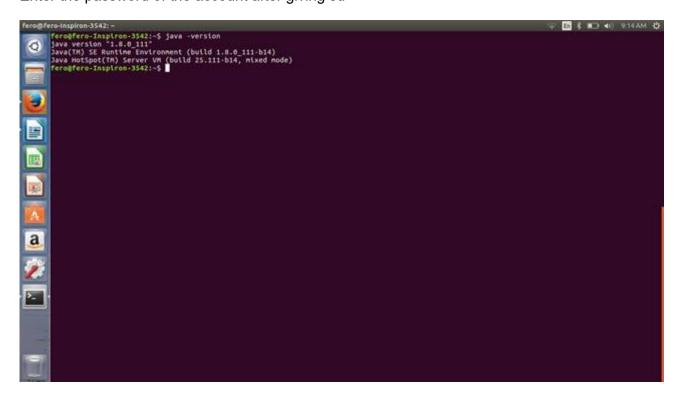
So here we have the Java runtime environment on our machine.

Step 2

Create a user to install Hadoop in your machine. To create a user you should be in a root account.

Login with root account: su

Enter the password of the account after giving su



For creating a new user: adduser username

(in my case i will name it as hadoop)

Enter the password for the new user. Enter once again to confirm the user. Enter the full name for the user. Enter the room number, work phone, home phone, and other information. Give confirmation once again by giving Y.

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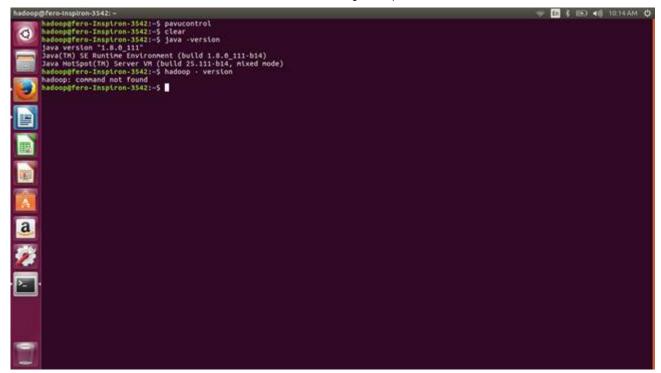
And now you can exit from the root account using exit command.

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| Java version 1.8
```

Click on settings at the top right corner you can find the username over there. And now we are in a new user account of Hadoop.

You can also check whether Hadoop is installed on your machine or not by using the below command: hadoop -version



Open a terminal and check the Java version now using the below command:

Command

java -version

Install SSH

SSH – ssh is a client program added; it's a command that we will be using in Linux to connect with remote machines.

Next we need sshd which will be running on the server and will allow clients to connect to the server.

Use the below command to install ssh:

Note

you should be a root user

Command

sudo apt-get install ssh

Create and Setup SSH Certificates

Hadoop need SSH to connect to its local host and nodes. So here we will be allowing SSH to run on the machine with public key authentication. SSH normally needs a password to access its node, here we will be removing it by providing a SSH certificate using the below commands.

Command

ssh-keygen -t rsa -P ""

Note

Leave the file name blank over here.

Use the below command now to list out the newly created keys so that hadoop will not ask for any keys further.

Command

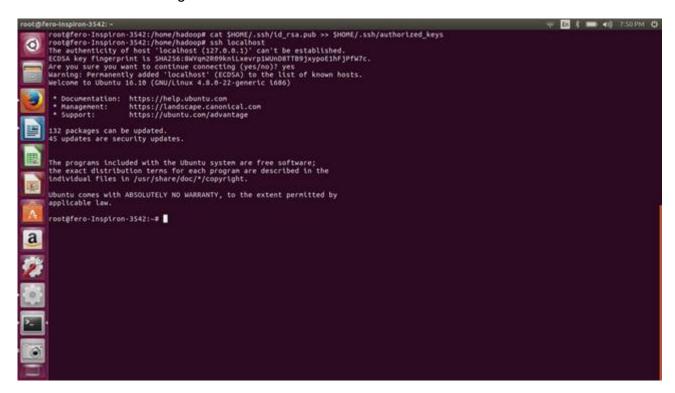
cat \$HOME/.ssh/id_rsa.pub >> \$HOME/.ssh/authorized_keys

You can now check if the SSH Key works with the help of the below command:

Command

ssh localhost

Give "Yes" for connecting.

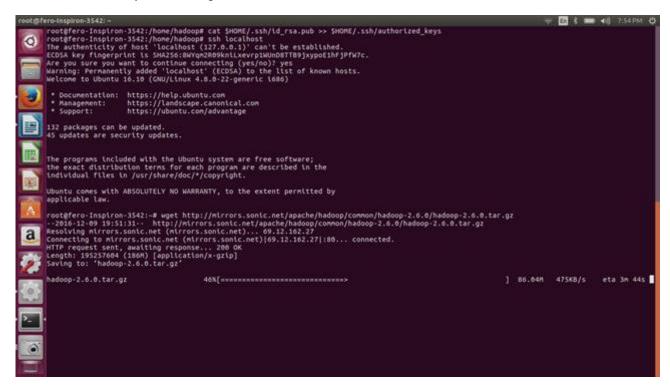


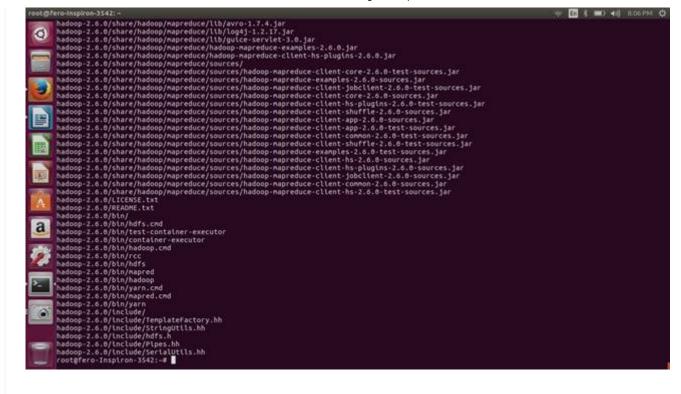
Installing Hadoop

Now install Hadoop using the below command, this will download Hadoop to your machine.

Commands

- :~\$ wget http://mirrors.sonic.net/apache/hadoop/common/hadoop-2.6.0/hadoop-2.6.0.tar.gz
- :~\$ tar xvzf hadoop-2.6.0.tar.gz





Thank you for using C# Corner