

Apache

Solr



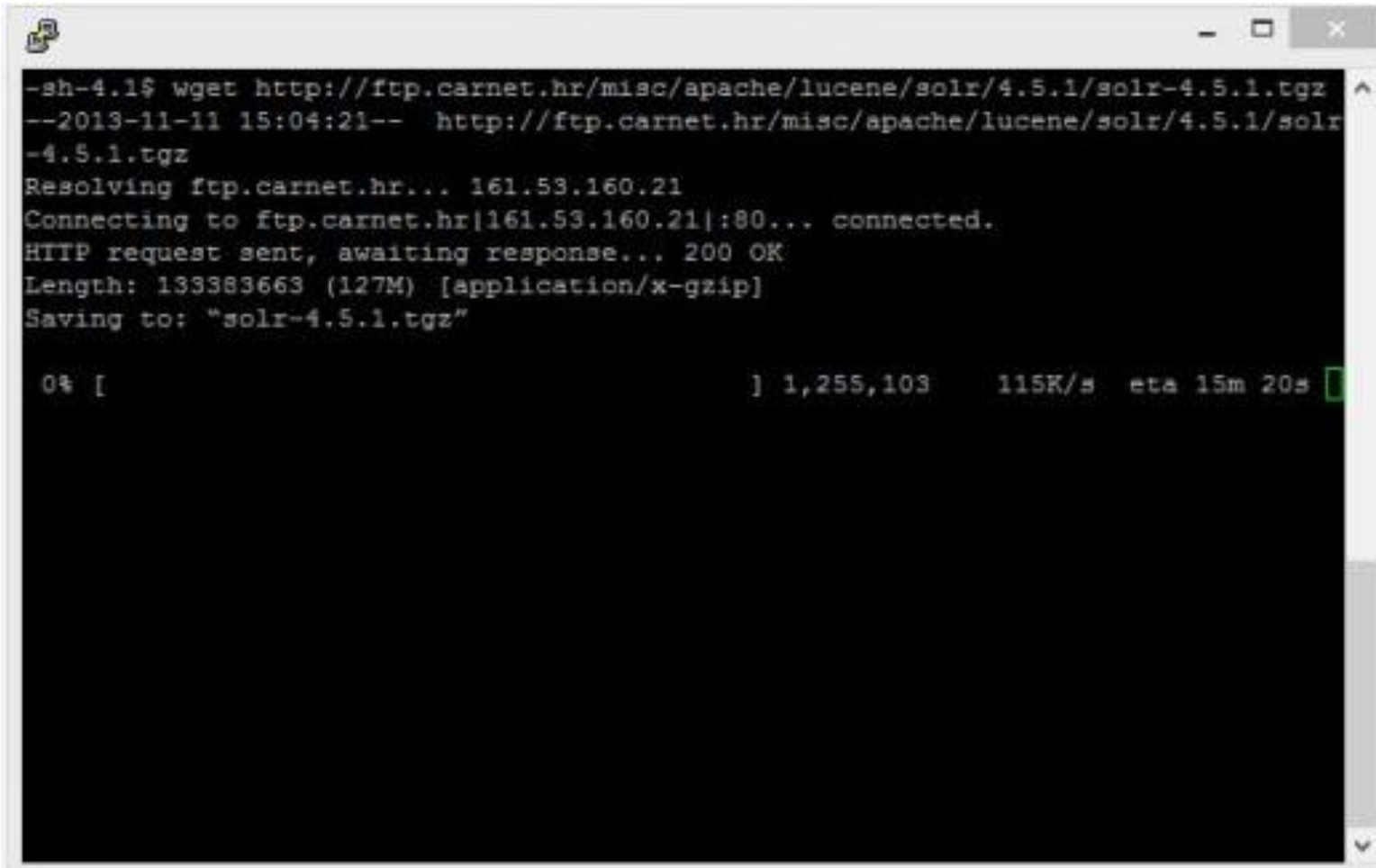
Solr Installation

Lets see how to Install Solr, it is very easy and we are going to do that in this Solr Installation guideline. So let's start!

Let's start for Linux and Mac. We'll guide you trough tutorial, live on staging server. First of all, you need to download latest Solr version.

Execute **wget** command from command line interface:

`wget http://ftp.carnet.hr/misc/apache/lucene/solr/4.5.1/solr-4.5.1.tgz`



```
-sh-4.1$ wget http://ftp.carnet.hr/misc/apache/lucene/solr/4.5.1/solr-4.5.1.tgz
--2013-11-11 15:04:21--  http://ftp.carnet.hr/misc/apache/lucene/solr/4.5.1/solr
-4.5.1.tgz
Resolving ftp.carnet.hr... 161.53.160.21
Connecting to ftp.carnet.hr[161.53.160.21]:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 133383663 (127M) [application/x-gzip]
Saving to: "solr-4.5.1.tgz"

0% [          ] 1,255,103    115K/s   eta 15m 20s
```

Once your file is successfully downloaded, you will see the file will be in tar.gz format, so you will have to extract it. You can easily extract this using next command:

“tar -zxvf solr-4.5.1.tgz”



```
-sh-4.1$ tar -zxvf solr-4.5.1.tgz
```

After we finish downloading and extracting it, you must have the following in your directory:



Name	Ext	Size	Changed	Rights
..			11.11.2013. 6:13:04	rwxr-x
solr-4.5.1			11.11.2013. 15:29:14	rwxrwo
solr-4.5.1.tgz		127 MiB	24.10.2013. 4:39:07	rw-rw-

The next step is to position your command line to `solr-4.5.1./example`. In that directory you have file called ***start.jar***. Executing that file from command line you are starting Apache Solr. There are two ways to start Apache Solr:

1st Way: Start it and keep running until console is closed.

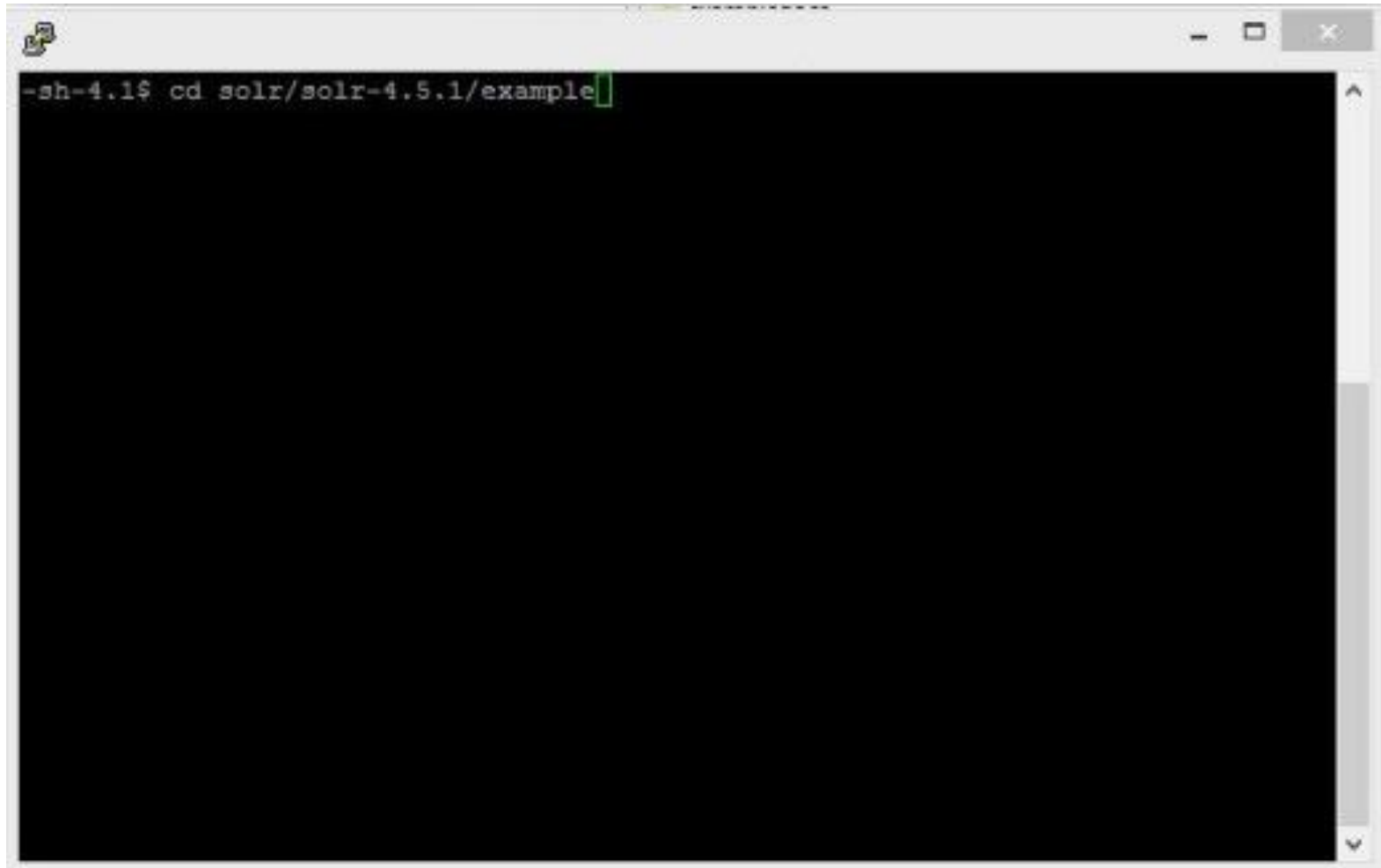
2nd Way: Start and run in background until you choose to stop it from command line.

If you are working on any important tasks then you can start with **2nd Way**.

And if you are testing on local/staging server use **1st Way**.

We'll discuss with you Linux commands for both cases, so let's start for first **1st way**:

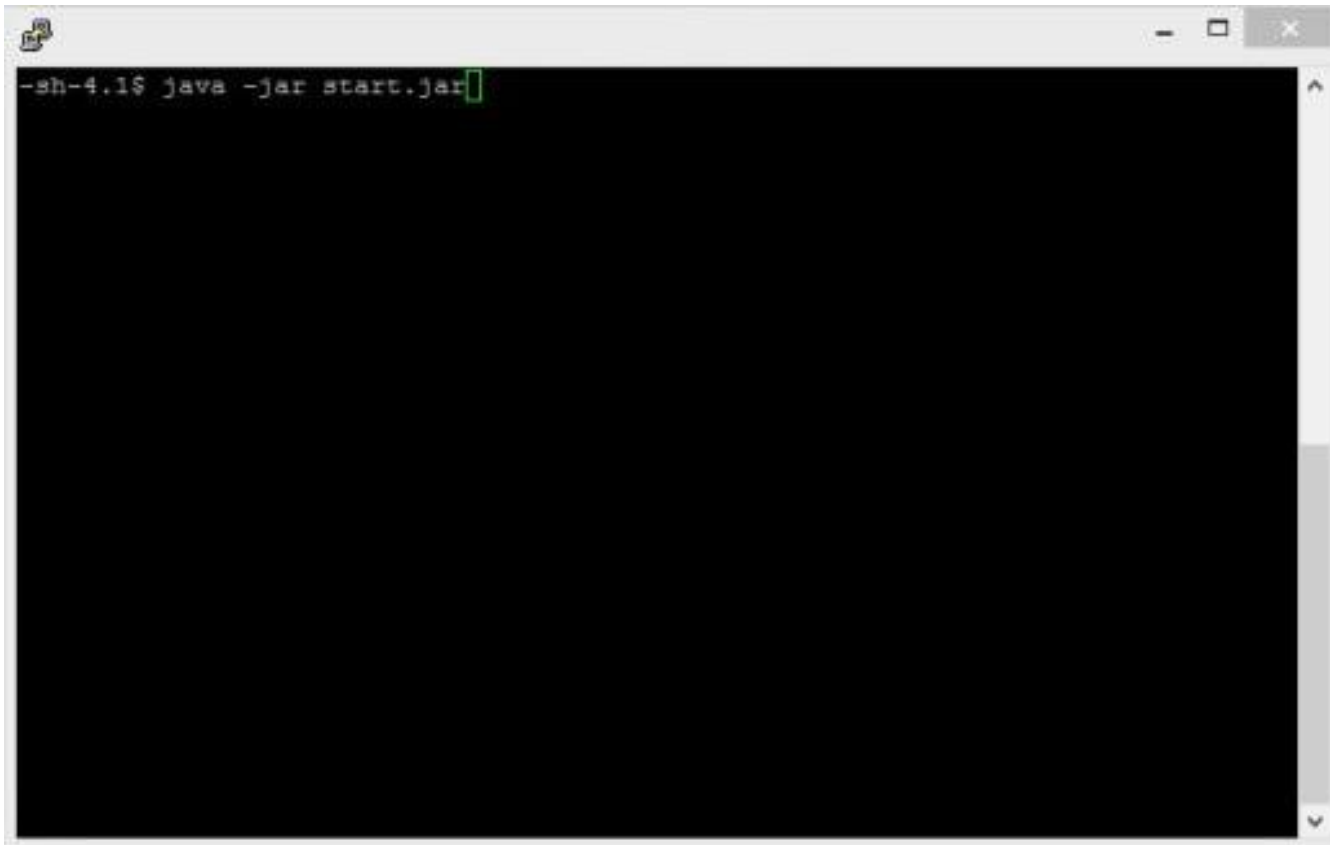
The first thing you need is set your position to “example” directory, which you can find under: yoursrootdirectory/solr/solr-4.5.1/example



```
-sh-4.1$ cd solr/solr-4.5.1/example
```

1st Way of Installation

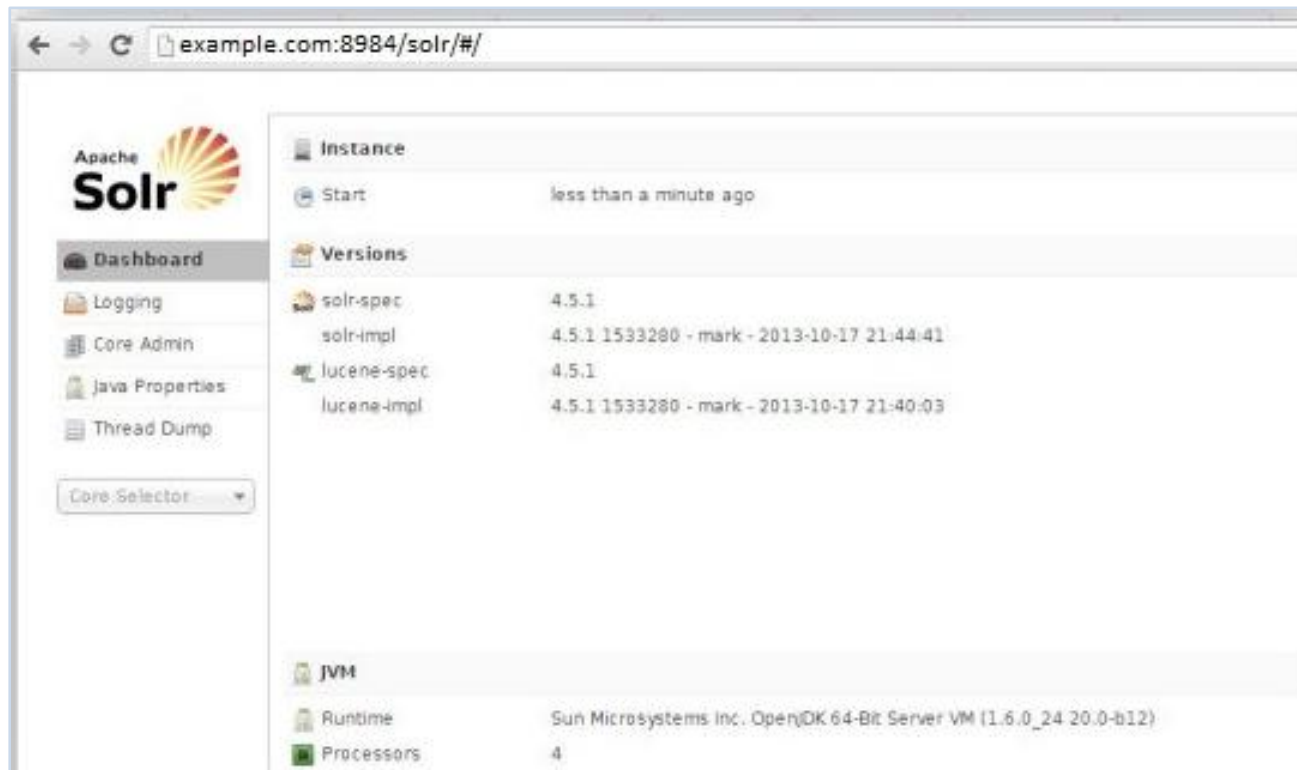
Now when you are in example directory, you can check for your **start.jar** file with “**ls**” command. That is our file which we need to execute for starting Solr. Solr will start with this command: “**java -jar start.jar**”



```
-sh-4.1$ java -jar start.jar
```


1st Way of Installation

Now your Solr is started and ready for use. Default Solr port is 8983 which you can change in `example/etc/jetty.xml`. Look for the line `<Set name="port"><SystemProperty name="jetty.port" default="8983"/></Set>` and change it. For this guideline we set port to 8984 and when we visit our URL we see our Solr running:

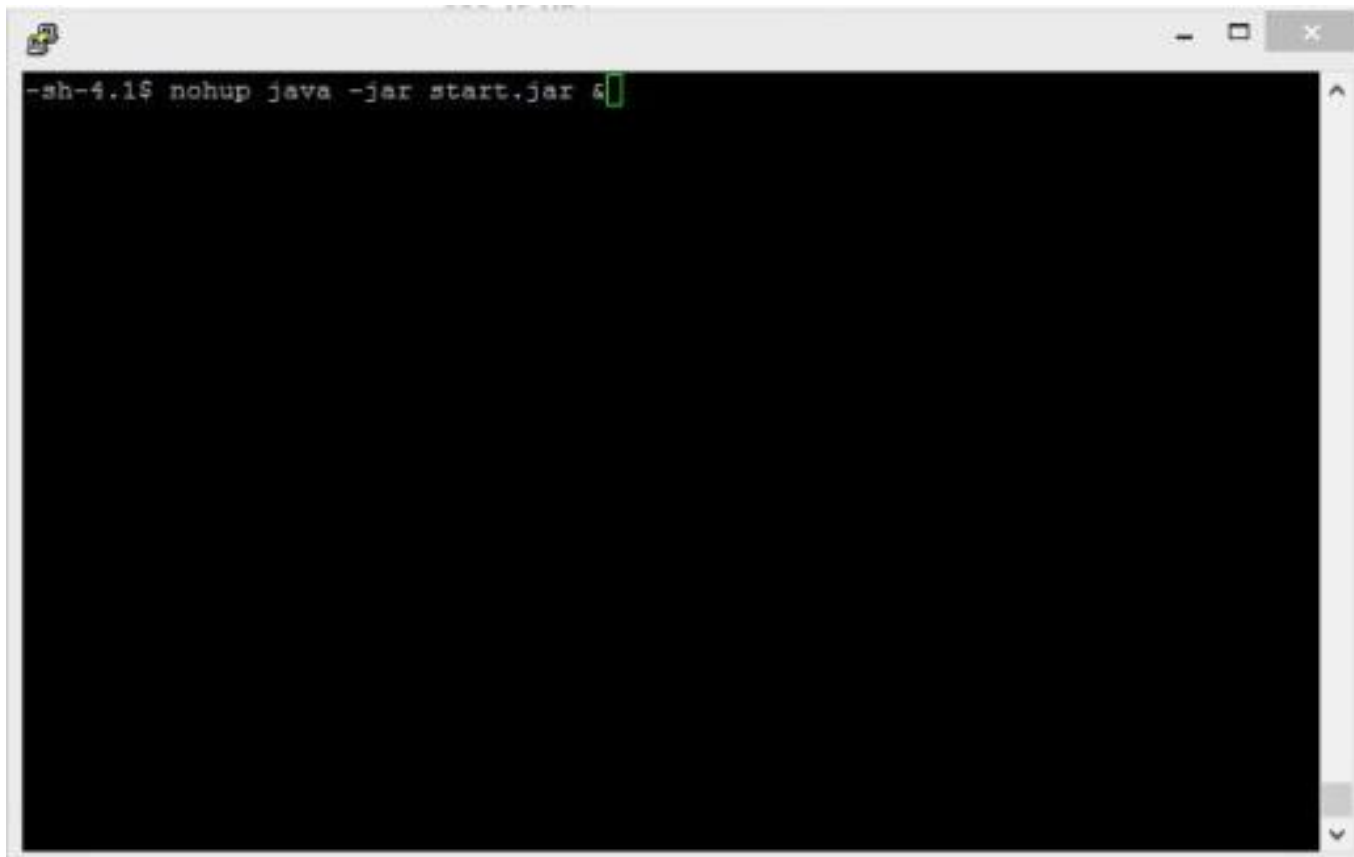


This Solr will run until you close your command line interface or you press `Ctrl + C`.

2nd Way of Installation

For this way, we need a different starting command. Position yourself into example directory like we have discussed earlier and execute this command:

“nohup java -jar start.jar”



```
-sh-4.1$ nohup java -jar start.jar &
```

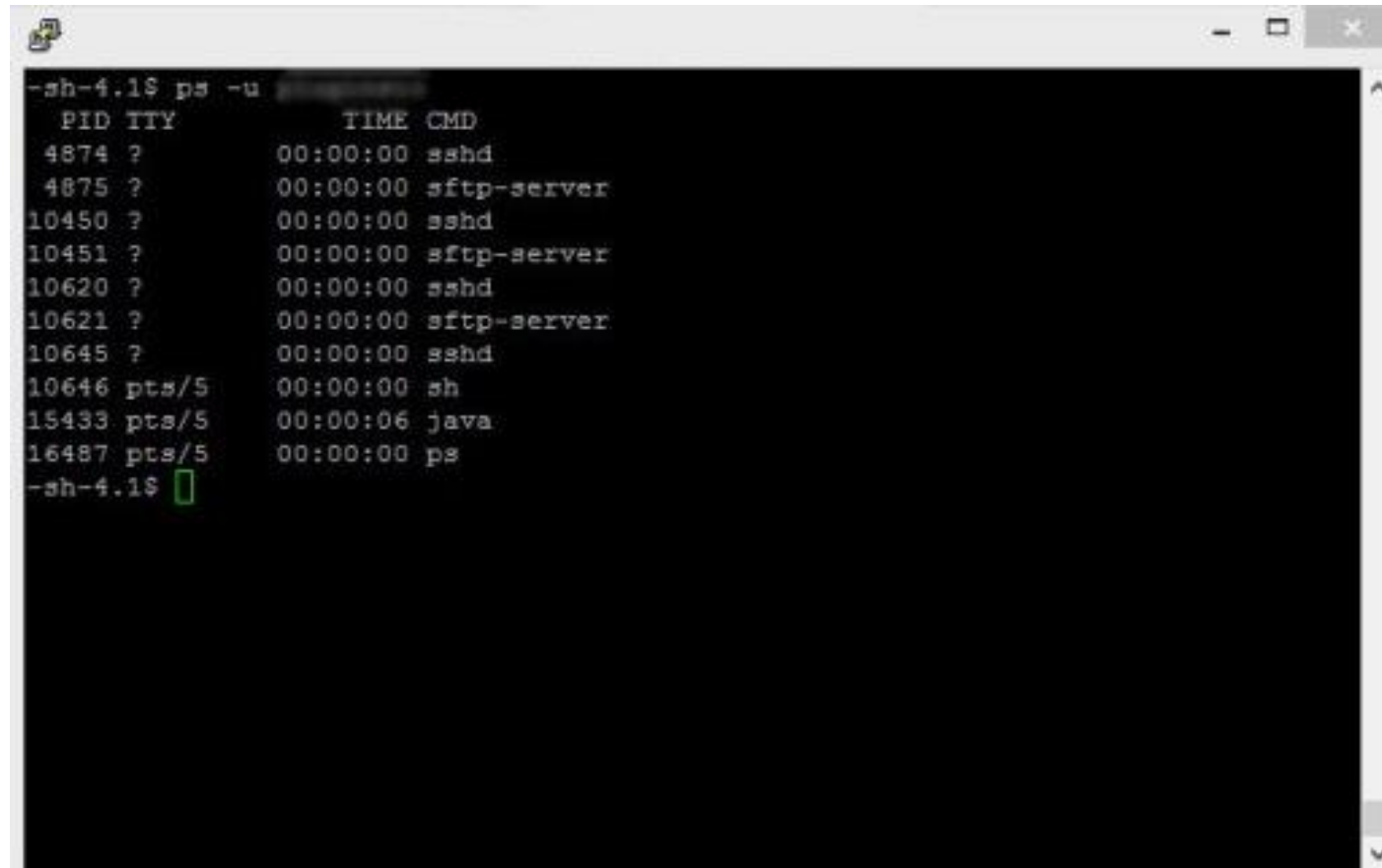
2nd Way of Installation

Running this command lets you to run Solr in background and now you can close your command line or press Ctrl + C, and your Solr will continue running until we kill the process. How to do that? We will show you in the next steps: For listing all processes from one user execute this command:

ps -u user (user is your username which you used in connection).

After that you will get a list of processes under your username:

2nd Way of Installation



```
-sh-4.1$ ps -u
  PID TTY          TIME CMD
  4874 ?            00:00:00 sshd
  4875 ?            00:00:00 sftp-server
 10450 ?            00:00:00 sshd
 10451 ?            00:00:00 sftp-server
 10620 ?            00:00:00 sshd
 10621 ?            00:00:00 sftp-server
 10645 ?            00:00:00 sshd
 10646 pts/5        00:00:00 sh
 15433 pts/5        00:00:06 java
 16487 pts/5        00:00:00 ps
-sh-4.1$
```

Now you can see my java process is under number 15433. We will use that number and execute command to kill process: **kill 15433**

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