

Solr

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Solr Installation in Linux

Application URL : <http://192.168.1.208:8983/solr>

User Name : administrator

Installing process.

```
cd ~/
```

```
wget https://downloads.apache.org/lucene/solr/8.9.0/solr-8.9.0.tgz
```

```
wget https://downloads.apache.org/lucene/solr/8.9.0/solr-8.9.0.tgz.asc
```

```
wget https://downloads.apache.org/lucene/solr/8.9.0/solr-8.9.0.tgz.sha512
```

```
install
```

```
tar xzf solr-8.9.0.tgz
```

```
cd ~/solr-8.9.0/bin
```

```
sudo ./install_solr_service.sh ~/solr-8.9.0.tgz
```

```
sudo systemctl stop solr  
sudo systemctl start solr  
sudo systemctl status solr
```

```
sudo systemctl enable solr  
sudo systemctl restart solr  
sudo systemctl status solr
```

Creating the first core

```
su - solr -c "/opt/solr-8.9.0/bin/solr create -c testcol1 -n data_driven_schema_configs"
```

stop the solr

```
systemctl stop solr
```

```
sudo su
```

```
sudo chmod -R 777 /var/solr/
```

```
sudo chmod -R 777 /opt/solr/
```

use the Core ftp to upload mysql jdbc drive to **/opt/solr/dist**

DATA OF CORES

All the data resides in **/var/solr/data/YOURCORE/conf**

go to the respective core and follow the steps

```
systemctl stop solr
```

1. Create file db-data-config.xml

```
<dataConfig>
  <dataSource type="JdbcDataSource"
    driver="com.mysql.jdbc.Driver"
    url="jdbc:mysql://192.168.204.100:3306/basket_prod?serverTimezone=UTC&tinyInt1isBit=false"
    user="bruneiprod"
    password="5exA8IYAHeva"/>
  <document>
    ☐☐<entity name="Products" pk="ItemID" query="SELECT ItemID, CategoryID, ItemName, Description, Features,
    Specifications, CategoryName, NetAmount, StockInHand, ImageUpdaloading, VatIncluded, AmountIncludingVat,
    Discount, CompanyID, CompanyDisplayName, Flag FROM basket_prod.solr_itemload">
    ☐☐☐<field column="ItemID" name="ItemID"/>
    ☐☐☐<field column="CategoryID" name="CategoryID"/>
```

```

<field column="ItemName" name="ItemName"/>
<field column="Description" name="Description"/>
<field column="Features" name="Features"/>
<field column="Specifications" name="Specifications"/>
<field column="CategoryName" name="CategoryName"/>
<field column="NetAmount" name="NetAmount"/>
<field column="StockInHand" name="StockInHand"/>
<field column="ImageUpdaloading" name="ImageUpdaloading"/>
<field column="VatIncluded" name="VatIncluded"/>
<field column="AmountIncludingVat" name="AmountIncludingVat"/>
<field column="Discount" name="Discount"/>
<field column="CompanyID" name="CompanyID"/>
<field column="CompanyDisplayName" name="CompanyDisplayName"/>
<field column="Flag" name="Flag"/>
</entity>
</document>
</dataConfig>

```

Edit Managed Schema and add the fields that you want to load at the end of the file before **</schema>**

```

<field name="ItemID" type="string" indexed="true" stored="true" multiValued="false"/>
<field name="CategoryID" type="string" indexed="true" stored="true" multiValued="false"/>
<field name="ItemName" type="text_general" multiValued="false"/>
<field name="Description" type="text_general" multiValued="false"/>
<field name="Features" type="text_general" multiValued="false"/>
<field name="Specifications" type="text_general" multiValued="false"/>
<field name="CategoryName" type="string" stored="true" multiValued="false"/>
<field name="NetAmount" type="string" stored="true" multiValued="false"/>
<field name="StockInHand" type="string" stored="true" multiValued="false"/>
<field name="ImageUpdaloading" type="string" stored="true" multiValued="false"/>
<field name="VatIncluded" type="string" stored="true" multiValued="false"/>
<field name="AmountIncludingVat" type="string" stored="true" multiValued="false"/>
<field name="Discount" type="string" stored="true" multiValued="false"/>
<field name="CompanyID" type="string" stored="true" multiValued="false"/>
<field name="CompanyDisplayName" type="string" stored="true" multiValued="false"/>
<field name="Flag" type="string" stored="true" multiValued="false"/>

```

Edit solrconfig.xml add at the bottom

```
<requestHandler name="/dataimport" class="solr.DataImportHandler">
  <lst name="defaults">
    <str name="config">db-data-config.xml</str>
  </lst>
</requestHandler>

<lib dir="${solr.install.dir:../../../../dist/" regex="solr-dataimporthandler-.*\.jar" />
<lib dir="${solr.install.dir:../../../../dist/" regex="mysql-connector-java-5.1.23-bin.jar" />
```

```
systemctl start solr
```

Solr Installation and make it as Window service

Check Solr Status

```
E:\Solr\solr-8.8.2>bin\solr.cmd status
```

Start Solr

```
E:\Solr\solr-8.8.2>bin\solr.cmd start
```

Import Data From CSV

```
E:\Solr\solr-8.8.2>java -jar -Dc=barcode -Dauto example\exampledocs\post.jar  
example\exampledocs\product1.csv
```

*****IMP Links*****

https://solr.apache.org/guide/6_6/post-tool.html

<https://www.progress.com/tutorials/jdbc/import-sql-server-data-into-apache-solr-using-data-import-handler-via-jdbc#:~:text=Importing%20the%20Data,-Start%20Apache%20Solr&text=Go%20to%20browser%20and%20open,a%20view%20as%20shown%20below.>

<https://www.cdata.com/kb/tech/mysql-jdbc-apache-solr.rst>

http://localhost:8983/solr/demo/select?facet=true&f.price.facet.range.start=0&f.price.facet.range.end=10&f.price.facet.range.gap=1&facet.range=price&q=*:*

Install Solr as service in Windows

I took the article from following link all credit goes to author of this article, I have personally tried to run this on window server 2019 and we achieved what we want in no time.

<https://norconex.com/how-to-run-solr5-as-a-service-on-windows/>

<https://nssm.cc/download>

File System Setup

Taking Solr 8 as an example, first, extract Solr and NSSM to the following path on your file system (adapt paths as necessary).

C:\Program Files\solr-5.0.0

C:\Program Files\nssm

Setting up Solr as a service

On the command line, type the following:

```
"c:\Program Files\nssm\win64\nssm" install solr
```

Fill out the path to the **solr.cmd** script, and the startup directory should be filled in automatically. Don't forget to input the **-f (foreground)** parameter so that NSSM can kill it when it needs to be stopped or restarted.

Application tab on NSSM Service Editor screen capture to show path to Solr start script

The following step is optional, but I prefer having a clean and descriptive name in my Windows Service Manager. Under the details tab, fill out the Display name and Description.

Details tab for NSSM service installer for setting up Solr 5 as a service on Microsoft Windows

Click on Install service.

NSSM confirmation box saying "Solr5" installed successfully

Check that the service is running.

Microsoft Windows Component Services Running Solr 5

Go to your favorite web browser and make sure Solr is up and running.

Solr 5 running as a service on Microsoft Windows

Conclusion

I spent a few hours finding this simple solution, and I hope this tutorial will help you set up Solr as a Microsoft Windows service in no time. I invite you to view the `solr.cmd` file content to find the parameters that will help you customize your Solr setup. For instance, while looking inside this file, I realized there I needed to add the `-f` parameter to run Solr in the foreground. That was key to get it running the way I needed it.