on <u>September 23, 2023</u>



Setup Elasticsearch in Windows

2:23

Table of Contents

Prerequisites

- Elasticsearch database introduction and terminology
- In this post we will setup a simple single-node
 Elasticsearch database in windows using the
 Elasticsearch zip file
- Elasticsearch database can be installed to run as a windows service like any other database like Oracle or PostgreSQL

Step 1 - Download Elasticsearch

 Extract the Elasticsearch folder and place in C drive. For example C:\elasticsearch-8.10.2

Run Elasticsearch from command line (not recommended)

- Open a command prompt in the Elasticsearch folder
- Run Elasticsearch using the command
 .\bin\elasticsearch.bat
- Closing the command line will stop Elasticsearch. Hence it is recommended to run Elasticsearch as a windows service

2:23

Step 2 - Run Elasticsearch as a windows background service

- Open a command prompt in the Elasticsearch folder
- Run the command .\bin\elasticsearch-service.bat install to install the Elasticsearch windows service
- Run the command .\bin\elasticsearch-service.bat
 start to start the Elasticsearch database
- Run the command .\bin\elasticsearch-service.bat stop to stop the database if required
- Run the command .\bin\elasticsearch-service.bat
 remove to uninstall the database service if required

- Open a command prompt in the Elasticsearch folder
- Run the command .\bin\elasticsearch-resetpassword.bat -i -u elastic and reset the password of elastic user

Step 4 - Check if Elasticsearch is running

- Go to a web browser and open the URL https://localhost:9200
- Enter the username and password of the *elastic* user
- Elasticsearch database details should be displayed. This
 means that the database is running with the desired
 elastic user credentials

Change the folder where data is stored

- By default Elasticsearch data is stored in the data folder of Elasticsearch folder
- Additional data folders or modification of existing data folder can be done using the elasticsearch.yml file
- Open elasticsearch.yml file in the config folder of Elasticsearch folder
- Search for path.data and set it to a single data folder or multiple data folder paths. For example, you can write path.data: "C:\elasticsearch-8.10.2\data" or

2:23

Set the memory limit of Elasticsearch windows service

- By default only 1 GB is allotted to elasticsearch windows service which can result in errors while running multiple queries or large data queries.
- The memory limit of elasticsearch windows service can be increased for this purpose
- Open a command prompt in the Elasticsearch folder
- Run the command .\bin\elasticsearch-service.bat manager . A configuration window will appear
- Go to *Java* tab and set the initial and maximum memory pool values to higher values, say 10 GB (=10240 MB)

Disable HTTPS (Optional)

- Open elasticsearch.yml file in the config folder of Elasticsearch folder
- In the xpack.security.http.ssl section, set enabled:
 false to disable HTTPS

Restrict Elasticsearch access to remote connections (Optional)

2:23

Set http.host: localhost to disable remote http
 connections to Elasticsearch. If required LAN IP address
 can also be used in http.host to restrict the access to only
 LAN

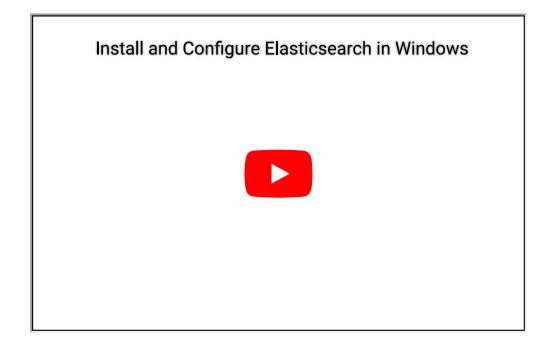
Change the Elasticsearch port (Optional)

- By default Elasticsearch runs on port 9200
- Open elasticsearch.yml file in the config folder of Elasticsearch folder
- Change http.port to the desired value if required

2:23

Video

Video for this post can be found here



References

/current/zip-windows.html

- Elasticsearch configuration official docs –
 https://www.elastic.co/guide/en/elasticsearch/reference/current/settings.html
- difference between http.host and network.host in
 Elasticsearch configuration –
 https://discuss.elastic.co/t/difference-between network-host-transport-host-and-http-host settings/308215/2





AUTOMATION DATABASE ELASTICSEARCH LEARNING SERVER SETUP

TAMING PYTHON TAMING PYTHON SKILL TUTORIAL WINDOWS

Location: MUMBAI, MAHARASHTRA, INDIA



To leave a comment, click the button below to sign in with Google.

SIGN IN WITH GOOGLE

YouTube Channel

Popular Posts

Taming python Table of Contents

<u>Setup SFTP server and SFTP client in Windows using OpenSSH server and WinSCP</u>

Install python packages offline without internet

Setup python on Linux in Windows using WSL and VS Code

Run a python Flask server as a windows background service using nssm

Run flask application over HTTPS

<u>Draw Rectangle, Polyline, Polygon in python folium</u>

Setup Apache web server in windows using Apache Lounge

Elasticsearch database introduction and terminology

B Powered by Blogger

LearningSoftware