Deploy DataParrots Web Application on CentOS 7

Follow these instructions to deploy DataParrots Web Application on Cent OS 7 with the zip file.

Contents

Prerequisites

1. Download and Install Python3.9.x (https://www.python.org/ftp/python/3.9.18/Python-3.9.18.tgz)
2. Download and install nginx (https://nginx.org/download/nginx-1.24.0.tar.gz)
3. Install Microsoft ODBC Driver 17 for SQL Server (Linux)
   Step 1:
   ```
   curl https://packages.microsoft.com/config/rhel/7/prod.repo | sudo tee /etc/yum.repos.d/mssql-release.repo
   ```
   Step 2:
   ```
   sudo yum remove unixODBC-utf16 unixODBC-utf16-devel #to avoid conflicts
   ```
   Step 3:
   ```
   sudo ACCEPT_EULA=Y yum install -y msodbcsql17
   ```
   Step 4:
   ```
   sudo ACCEPT_EULA=Y yum install -y mssql-tools
   ```
   Step 5:
   ```
   echo 'export PATH="$PATH:/opt/mssql-tools/bin"' >> ~/.bashrc
   ```
   Step 6:
   ```
   source ~/.bashrc
   ```
   Step 7:
   ```
   sudo yum install -y unixODBC-devel
   ```

4. Uninstall MariaDB (Note: CentOS 7 installs mariadb by default, it conflicts with mysql-devel driver)
   To check currently installed mariadb:
   ```
   rpm -qa | grep mariadb
   ```
   To force uninstall of mariadb:
   ```
   rpm -e --nodeps mariadb-libs-xxxxx-1.el7.x86_64
   ```

5. Install mysql-devel
   Step 1:

```
wget https://dev.mysql.com/get/Downloads/MySQL-8.2/mysql-8.2.0-1.el7.x86_64.rpm-bundle.tar
```

Step 2:

```
tar -xf mysql-8.2.0-1.el7.x86_64.rpm-bundle.tar
```

Step 3:

```
rpm -ivh mysql-community-client-plugins-8.2.0-1.el7.x86_64.rpm
```

Step 4:

```
rpm -ivh mysql-community-common-8.2.0-1.el7.x86_64.rpm
```

Step 5:

```
rpm -ivh mysql-community-libs-8.2.0-1.el7.x86_64.rpm
```

Step 6:

```
rpm -ivh mysql-community-client-8.2.0-1.el7.x86_64.rpm
```

Step 7:

```
rpm -ivh mysql-community-libs-compat-8.2.0-1.el7.x86_64.rpm
```

Step 8:

```
rpm -ivh mysql-community-devel-8.2.0-1.el7.x86_64.rpm
```

Install DataParrots Web Application

1. Download DataParrots Web Application tar file

   Step 1: Upload the downloaded dataparrots.tar to the server

   Step 2: Extract the content (Default to /dataparrots)

   ```
   tar -xf dataparrots.tar
   ```

2. Install Python libraries dependencies

   Step 1:

   ```
   cd /dataparrots/dataparrots_backend
   ```

   Step 2:

   ```
   pip install -r requirements.txt
   ```

Configure DataParrots Web Application

1. Modify .env file in the home directory (Default: /dataparrots/dataparrots_backend/conf/.env)

API_USER_NAME	The account name registered with dataparrots.com. The account name and password are used to authenticate against web services at api.dataparrots.com.
API_PASSWORD	The account password registered with dataparrots.com. The account name and password are used to authenticate against web services at api.dataparrots.com.
LOCAL_DOMAIN	The domain name or IP address to access DataParrots Web Application
SECRET_KEY	Any string. It is an encryption key used for internal communications

2. Modify nginx configuration file"nginx.conf", make sure the highlighted entries are correct.

   Then restart nginx.

```
server {
    listen       80;
    server_name  localhost;
    location /api/ {
        proxy_pass http://127.0.0.1:8081;
    }
    location / {
        root  /dataparrots/dataparrots_frontend;
        index  index.html index.htm;
    }
    error_page   500 502 503 504  /50x.html;
    location = /50x.html {
        root   html;
    }
}
```

Start DataParrots Web Application

1. Execute /dataparrots/start.sh
2. Login to DataParrots Web Application as "admin", default password is "admin"
   a. Change "admin" password
   b. Edit "admin" user's email address. This email must be valid. It will be used as verification in case you lose your password.