TSDS Vendor SDK Installation Guide

SDK Version
2027.2.0
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OVERVIEW

The Software Development Kit (SDK) provides a fully functional set of resources for installation on local systems for the purpose of development and testing. This SDK includes the following:

- Ed-Fi ODS
- Ed-Fi Admin App
- Swagger
- WebApi

The Ed-Fi ODS and WebApi includes all the TEA defined extensions and pre-populated TEA descriptors, as well as applicable education organizations and courses specific to the Texas Student Data System (TSDS).

REQUIRED SOFTWARE

Docker is required to setup the environment.

DOCKER

Docker is an open platform for developing and running applications for the TSDS Upgrade project.

For installation refer to: https://docs.docker.com/get-docker/

- Docker Desktop for Windows
- Docker Desktop for Mac
- Docker Desktop for Linux

WINDOWS: For x64 machines, you may need to install the WSL2 Linux kernel update package below:

- https://docs.microsoft.com/en-us/windows/wsl/install-manual#step-4---download-the-linux-kernel-update-package

Compose plugin: You may need to install the docker compose CLI plugin below:

- https://docs.docker.com/compose/install/compose-plugin/

SETUP / CONFIGURATION

The following files are **required** and should reside in the same folder:

- docker-compose.yml
- settings.env

The following file is **optional** to assist with registration of multiple instances:

- registerOdsInstancesForAdminAppTest.csv

DOCKER-COMPOSE.YML

Download and save the **docker-compose.yml** file provided for the TSDS Upgrade Project.

For further information on Docker Compose, refer to: https://docs.docker.com/compose/.

LINUX: Open docker-compose.yml file in a text editor and change *WebApiVersionUrl* with *swagger service* and *ProductionApiUrl* with *adminapp* service by specifying the host's IP address respectively.

ENVIRONMENT FILE

Download and save the **settings.env** file provided for the TSDS Upgrade Project. This file contains the password for the database and all ports used by the WebApi, AdminApp, Swagger, and the database.

Open the file with a text editor and make any changes as necessary for local development.

REGISTER ODS INSTANCES

Download and save the **registerOdsInstancesForAdminAppTest.csv** file for the TSDS Upgrade Project.

This allows users to register **multiple instances in bulk** with the Ed-Fi ODS Admin App.

Open the file and make any changes as necessary for local development.

NOTE: A single instance can be registered manually through the Ed-Fi ODS Admin App with the need to import this .csv file.

SDK USAGE

RUNNING THE ENVIRONMENT

Start the Docker Desktop application.

To spin up the environment, open Command Prompt or PowerShell (Windows) or Terminal (MacOS/Linux) window in the folder that the docker-compose.yml and settings.env files reside.

Enter the following command:

docker compose -p tsds_ods_sdk_2027_2_0 --env-file ./settings.env up -d

It may take several minutes for the application to start after running the command.

NOTE: Do not close the terminal window or use CTL-c to interrupt the execution of the command while it is processing.

SERVICES

After verifying all containers are running in the Docker Desktop application, check the status of services by opening a web browser to the following:

NOTE: The following are the default port numbers. These can be modified in the settings.env file, but will need to be reflected in the database (see section below).

WINDOWS/MAC:

- WebAPI: http://localhost:27030/
- Swagger: http://localhost:27040/
- AdminApp: http://localhost:27050/

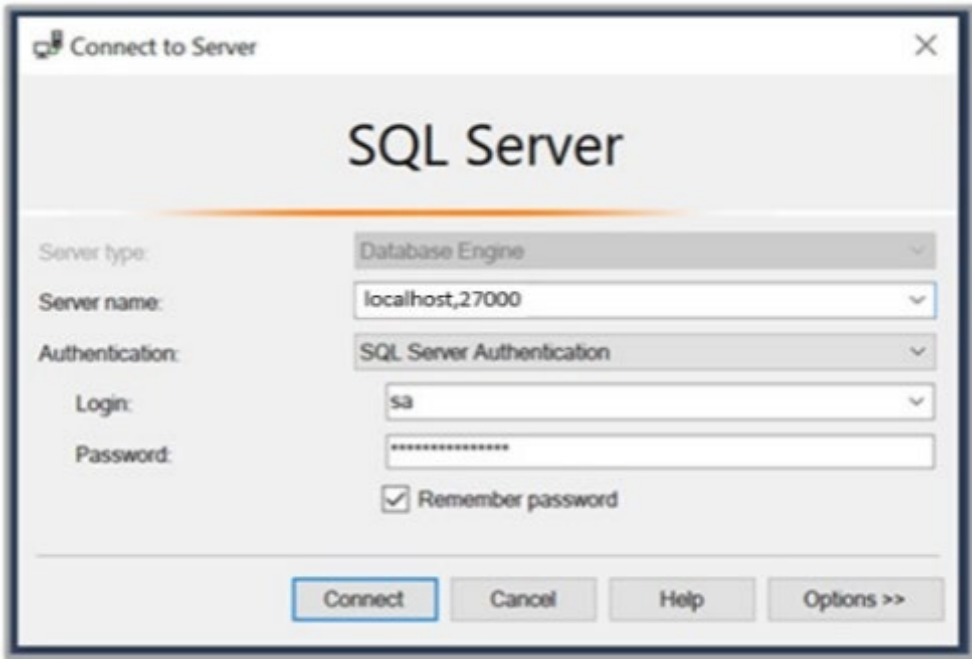
LINUX:

- Use the host IP address specified in the **settings.env** file.

DATABASE:

To access the SDK database:

- Open Microsoft SQL Server Management Studio or any database client that supports SQL Server
- Enter the host as **localhost,27000**
- Select "**SQL Server Authentication**" from the "**Authentication**" drop down
- Enter "**sa**" for login
- Enter the password is specified on the **settings.env** file.



TEARING DOWN THE ENVIRONMENT

To tear down the environment, open Command Prompt or PowerShell (Windows) or Terminal (MacOS/Linux) window in the folder that the docker-compose.yml and settings.env files reside.

Enter the following command:

docker compose -p tsds_ods_sdk_2027_2_0 --env-file ./settings.env down -v

NOTE: If -d has been specified during Running the Environment then you will need to open another command line window, change the current directory into the folder, and enter the above command

This will not delete the data in the SQL Server database, unless **-v** is specified.

ED-FI ODS/API SWAGGER

To access the swagger endpoint for the ODS/API, navigate to the target school year endpoint.

- 2027 School Year: http://localhost:27040
- Click the green "**Authorize**" button..

NOTE: If the port number has been changed, please change 27040 to what is specified in the settings.env file

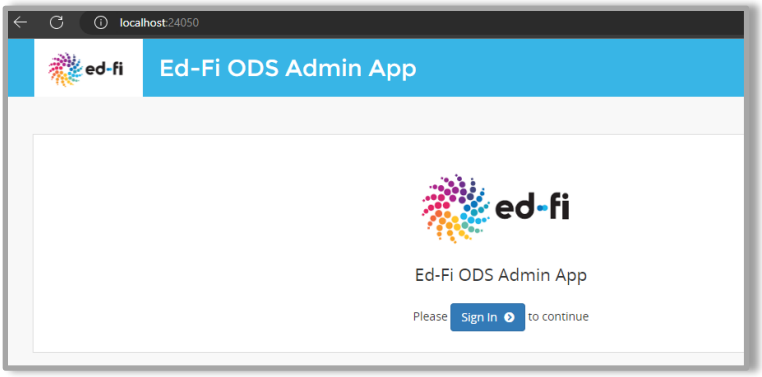
ED-FI ODS ADMIN APP

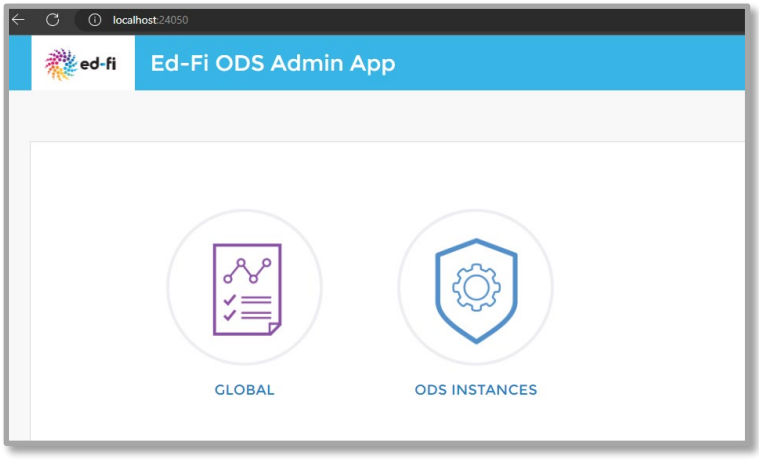
To access the Ed-Fi ODS Admin App, navigate to the following URL: http://localhost:27050

NOTE: If the port number has been changed, please change 27050 to what is specified in the settings.env file

USERNAME & PASSWORD

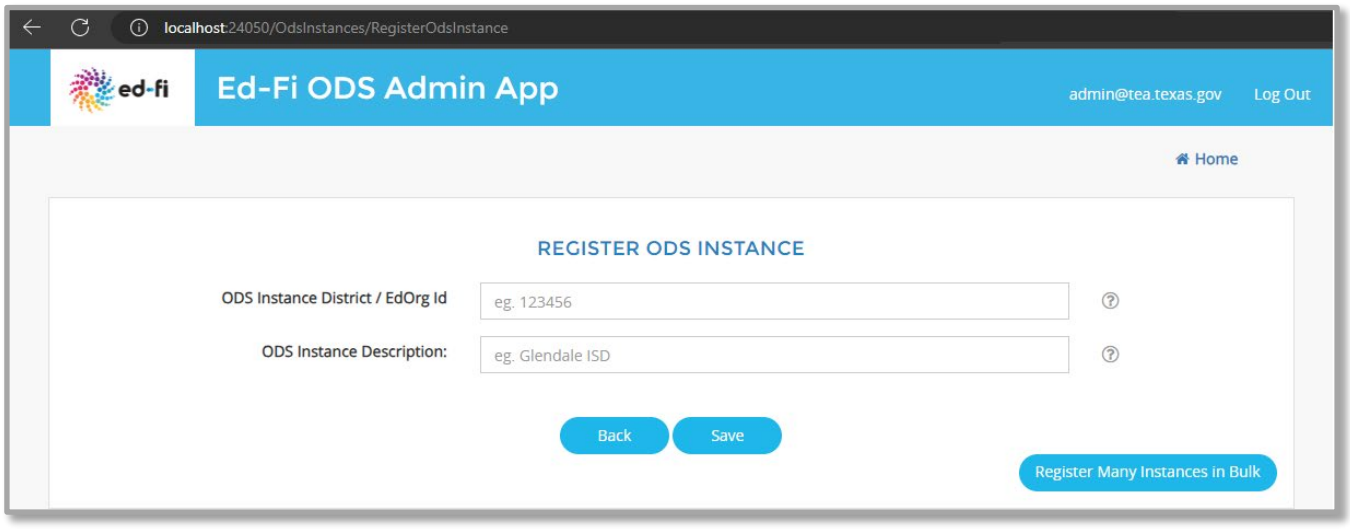
Username: admin@tea.texas.gov **Password**: Testing@1





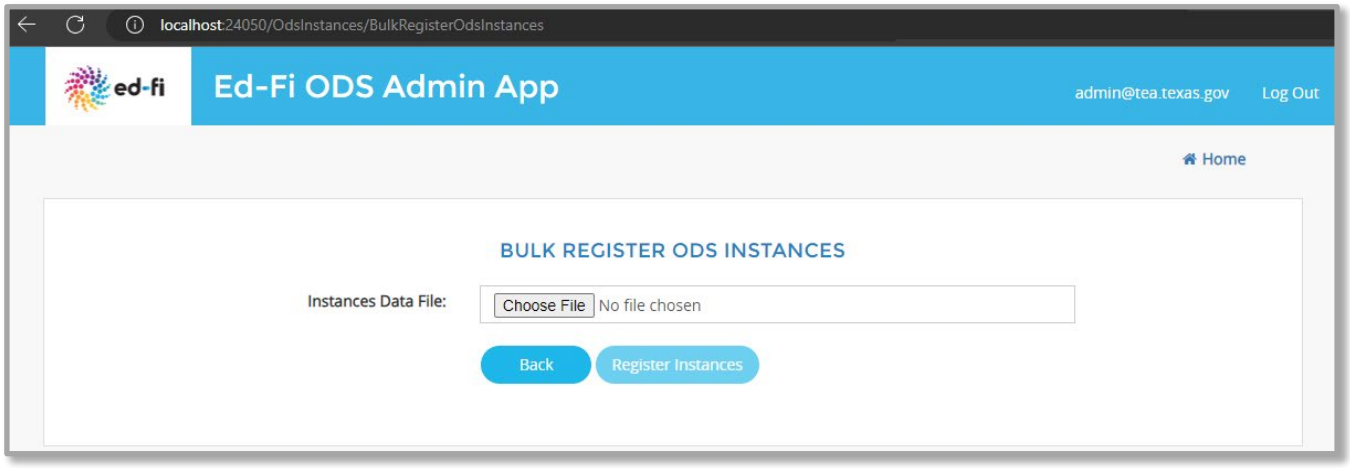
ODS INSTANCES

To register a single instance through the Ed-Fi ODS Admin App, select **ODS INSTANCES** and then select **Register A New Instance**.



To register multiple instances in bulk through the Ed-Fi ODS Admin App, select **ODS INSTANCES** and then select **Register Many Instances in Bulk**.

Modify and utilize the provided registerOdsInstancesForAdminAppTest .csv file as needed. Select **Chose File** to upload. Select **Register Instances** and wait to process. Confirmation messages will be shown if successful.



TECHNICAL SUPPORT

Please contact TSDSCustomerSupport@tea.texas.gov for technical assistance and support.