

PREPARING YOUR PROJECT FOR USING TDS

Exercise 01A | Enabling TDS through Tosca Server

Objective:

By the end of this exercise, you will be able to install and enable the Test Data Service (TDS) on the Tricentis Tosca Server.

Why is this important?

The Test Data Service (TDS) must be enabled to establish the TDS connection on the Tosca Server through its endpoint.

Instructions

1. To download "**Tosca Server**", go to the "**Tricentis Support Portal**" and click on "**Downloads**".

Make sure to download the version of the Tosca Server which matches the version of Tosca you are currently using.

Note: The TDS feature has been available from Tosca version 11.0 onwards.
2. Follow the step by step instructions on installing the "**Tosca Server**" via the "**InstallShield Wizard**" in the Knowledge Base article "Install Tosca Server" available in the "**Support Portal**":
https://documentation.tricentis.com/tosca/2320/en/content/tosca_server/tosca_server.htm

Throughout the InstallShield Wizard installation process, you will be directed to the "**Tricentis Tosca Feature Configuration**". Select the "**Test Data Service**" as the feature to be installed and deselect all other features.

Once "**Tosca Server**" is installed via the "**InstallShield Wizard**", the landing page of the "**Test Data Service**" will automatically launch with the icon of the "**Tosca Test Data Object Viewer**" visible.
3. To access this webpage, type the below **endpoint request** into the browser window:
http://<SERVER IP or localhost>:<port-number>

E.g. If you have to configure the Tosca Server locally on your system at port number 81, then the endpoint request would be: http://localhost:81
4. Verify that you are redirected to the landing page of the repositories where a default TDS repository named "**data**" is present.
5. Download the **Subset "TDS2_Base.tsu"** and save it to your local drive.
6. In Tosca Commander, create a new single user workspace named "**TestDataService**" and select the option "**Use workspace template**".
7. Navigate to where you saved "**TDS2_Base.tsu**" and select it to import the elements contained within that Subset into your workspace.
8. Click "**OK**" to finish creating the new Project.

Hints

- » If Tosca Server is already installed, make sure the Test Data Service is installed as a feature. If this feature is not installed, navigate to your Windows Control Panel, select "Tosca Server" and then right click on "Modify". It will then be possible to install the required feature on the Tosca Server.
- » It is not always mandatory to configure the TestDataService (TDS) at port number 81 on the Tosca Server. Any port that is available and unoccupied can be used.
- » Please contact your IT department to ensure that no firewall is blocking your configured port number for further communication between Tosca Commander and Tosca Server.

Exercise 01B | Creation of TDS Repository

Objective:

By the end of this exercise, you will be able to create a TDS repository to store and manage your test data.

Why is this important?

It is necessary to create a TDS repository in order to store and manage your test data in a centralized database.

Instructions

1. Open the "**Tosca Server**" URL (**http://<SERVER IP or Localhost>:<Port-number>**) in your browser.
i.e http://localhost:81

You will be navigated to the landing page of the "**Tosca Server**".
2. Click on the "**Test Data Object Viewer**" icon on the Tosca Server home page.

You will be navigated to the **Test Data Management** page, which displays all the repositories.
3. Click on "**Create Repository**".

Provide the necessary details below:
 4.
 - **Name** = TDS2
 - **Description** = This repository is created for the TDS2 certification course

Note: The "**Type**" and "**Location**" fields have default Values. There is no need to modify them.
5. Save your changes.

This will automatically direct you to the TDS2 repository that you just created.
6. By clicking on your newly created TDS2 repository on the "**Test Data Management**" page, you will be able to see all your test records in a table-like structure.

Hints

- » The necessary details required to create any TDS repository in Test Data Management should be:
 - Name** = Define a unique name for the new repository
 - Type** = Type of repository
 - Location** = Define the path to the location where the database will be saved .The default location is %PROGRAMDATA%\TestDataService\<reponame>.db
 - Description** = Enter a description of the new repository with a maximum of 200 characters
- » The database type **SQLite** is used for purposes of this training. In addition to this, it is also possible to create an **In Memory** repository type where test data is deposited temporarily in the computer's memory. Use the property **Location** for unique identification.

Exercise 01C | Connect to TDS Repository

Objective:

By the end of this exercise, you will be able to establish a connection between the TDS repository and the Tosca Client (Commander) through TDS Configurations.

Why is this important?

In order to manage the test data in the TDS repository, it is necessary to establish a connection between the database and the Tosca Client. This is achieved using TDS configurations in Tosca Commander.

Instructions

1. In your opened Project "**TestDataService**" in "**Tosca Commander**", navigate to the "**Configurations**" Folder by clicking on the "**Home**" ribbon and select "**Project**".
2. Navigate to "**TestDataService Configurations**". Drag and drop this "**Configurations**" onto the TestCases Root Folder and then switch to the "**Test configuration**" tab.
Define the values of the TDS Test configuration parameters as shown below:
3. **TestDataEndPoint** = http://localhost:81/TestDataService
TestDataRepository = TDS2
4. Save the changes.

Hints

- » **TestDataEndPoint** is the TDS endpoint request which was created in Exercise 01A. For your reference, it is (http://<SERVER IP or localhost>:<port-number>/TestDataObjectViewer)
- » **TestDataRepository** is the name of the repository which the user created in Exercise 01B.
- » If the user did not link any of the TDS configurations to the TestCase Root Folder, then the following exception will pop up: *"The Setting or TestConfigurationParameter 'TestDataEndpoint' was not found!"*
- » If the user entered an incorrect Value of the Configuration Parameter TestDataEndPoint, then the following exception will pop up: *"The server returned an error that could not be interpreted. Please make sure the endpoint specified in the test configuration parameter 'TestDataEndpoint' is reachable and the server is configured properly."*