

|  |
| --- |
| Subject  Data Driven Testing Framework demo |
| EPM-SPI |

| Related Artifacts | |
| --- | --- |
| Ref. | Name |
|  |  |
|  |  |

|  |  |
| --- | --- |
| Abbreviations and Acronyms | |
| DDT | [Data Driven Testing](https://ctc-customs.atlassian.net/wiki/pages/viewpage.action?pageId=45318221) |
| SoapUI | The web service testing application for service-oriented architectures (SOA) and representational state transfers (REST) |
| SoapUI project | In SoapUI, work is organized into projects, which are displayed under the root node in the workspace navigator. A project can contain any number of functional tests, load tests and service simulations required for testing purposes. |
| DDT Framework Library | Library of scrips created on Groovy to improve testing process of [DDT](https://ctc-customs.atlassian.net/wiki/pages/viewpage.action?pageId=45318221) in SoapUI |
| DDT Framework Plugin | Plugin for SoapUI developed with DDT Framework Library which adds the test data descriptions to the Test Suite Log during test execution and add user cookies to request if it required |

Contents

[1 description 4](#_Toc454892068)

[2 SoapUI Tool Installed & Configured 4](#_Toc454892069)

[3 Demo DDTF Service Run 4](#_Toc454892070)

[3.1 Install & Configure Apache Tomcat 4](#_Toc454892071)

[3.1.1 Download & Install Tomcat 4](#_Toc454892072)

[3.1.2 Configure Tomcat Users 5](#_Toc454892073)

[3.1.3 Create SetEnv-bat 6](#_Toc454892074)

[3.2 Deploy Demo DDTF Service 7](#_Toc454892075)

[4 Demo DDTF Project Copied 7](#_Toc454892076)

[5 Run Demonstration 8](#_Toc454892077)

[Appendix A. Troubleshooting 9](#_Toc454892078)

# description

This document describes steps to run demo DDT Framework project.

Following points are required to to be resolved to run Demo DDT Framework project:

* SoapUI tool is installed on workstation and is configured correctly to work with DDT Framework
* Demo DDTF service is run
* Demo DDTF project is copied on workstation
* Run demonstration via SoapUI

# SoapUI Tool Installed & Configured

Preparing SoapUI tool to run Demo DDT Framework project includes following steps:

* Install Java (if it’s still not done)
* install & configure SoapUI (if it’s still not done)
* equip SoapUI with DDT Framework Library, DDT Framework Plugin (if it’s still not done)

Please refer to EPM-SPI\_DDT\_Framework\_User\_Guide.docx document for details

# Demo DDTF Service Run

Following steps are required to run Demo DDTF service on workstation:

* Install & Configure Apache Tomcat (if it’s still not done)
* Deploy Demo DDTF service on the tomcat

## Install & Configure Apache Tomcat

To get general information about installing and configuring Apache tomcat application server please refer to <http://tomcat.apache.org/>

General steps:

* Download Tomcat (usually in zip-archive) and unpack it on workstation
* Configure required users
* (recommended) create and configure ../bin/setenv.bat

**Recommendations**: Do not install apache tomcat on System driver

**Info**: Apache Tomcat 8.0.28 has been successfully used

### Download & Install Tomcat

It’s recommended for new comers to download an archive that contains installer for Windows, for example ‘32-bit/64-bit Windows Service Installer’, from the resource <http://tomcat.apache.org/>

Windows Service Installer is exe-archive that is simply installed after downloading by double clicking on it. Please follow the instructions during unpacking. It’s recommended do not install tomcat server on System driver. Please remember default ports configurations

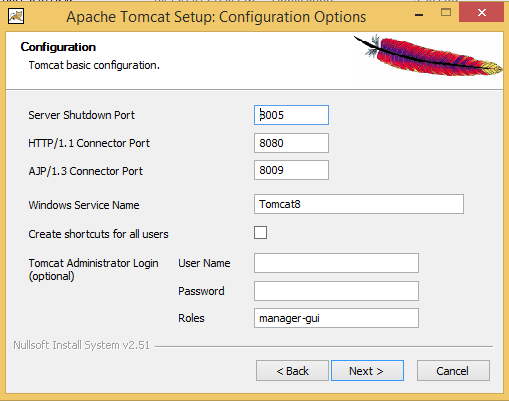


Figure 1 Default ports settings

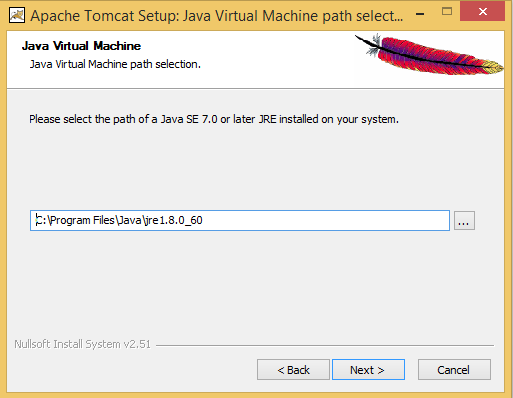


Figure 2 Path to Java

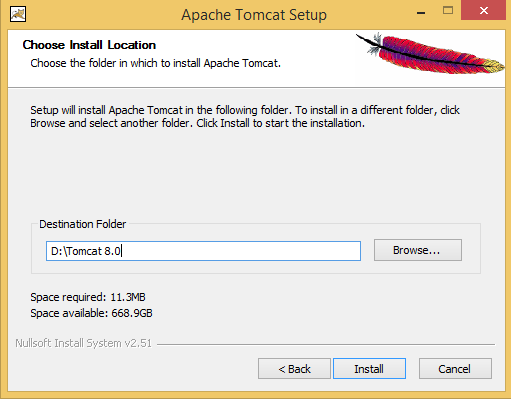


Figure 3 Destination folder (…<tomcat\_folder>…)

### Configure Tomcat Users

Tomcat users are usually configured via ...<tomcat\_folder>…/conf/tomcat-users.xml. It should contain following roles for a user:

<role rolename="admin"/>

<role rolename="manager-gui"/>

<role rolename="tomcat"/>

<role rolename="manager-script"/>

<user username="tomcat" password="tomcat" roles="admin,tomcat,manager-script,manager-gui"/>

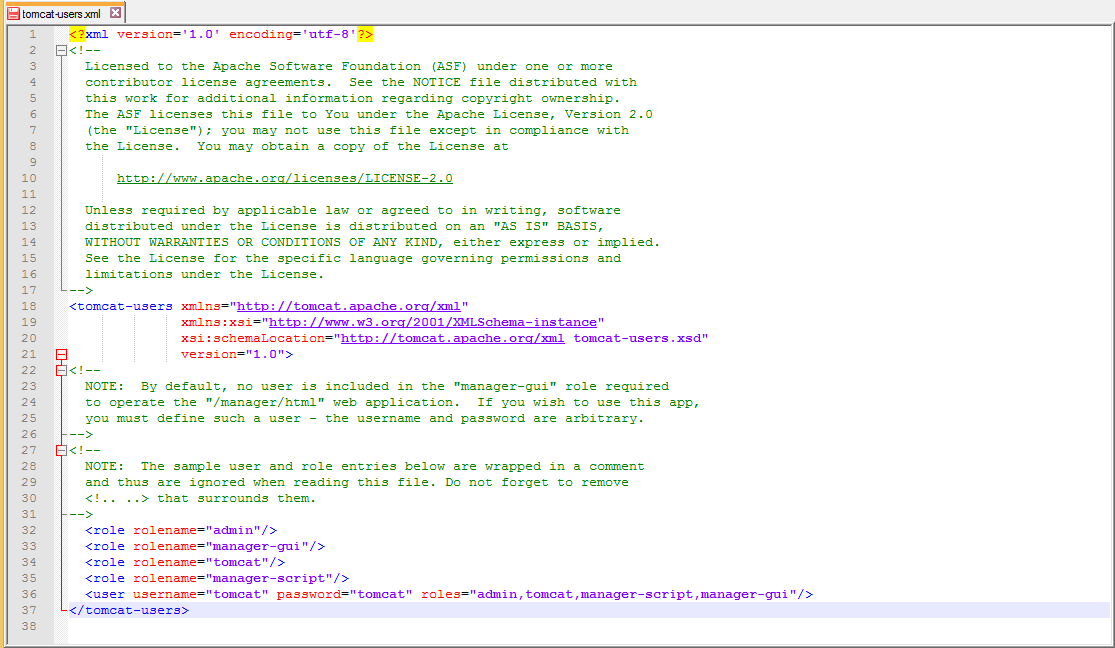


Figure 4 Example of tomcat-users.xml file

### Create SetEnv-bat

In case you have got installed several Java, several tomcat-servers on your workstation it’s recommended to create and configure …<tomcat\_folder>…/bin/setenv.bat. It can contain following code ofr example:

@echo off

set "CURR\_DIR=%cd%"

pushd ..

set "PRNT\_DIR=%cd%"

popd

set "JAVA\_HOME=%ProgramFiles%\Java\jdk1.8.0\_60"

set "CATALINA\_HOME=%PRNT\_DIR%"

set JAVA\_OPTS=%JAVA\_OPTS%

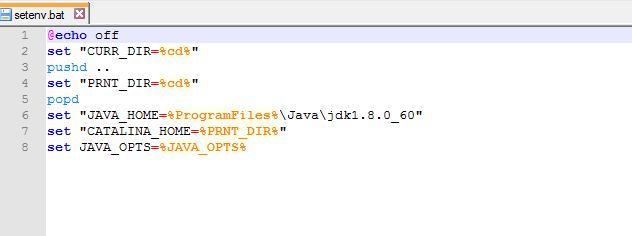


Figure 5 Example of setenv.bat file

## Deploy Demo DDTF Service

Take ddtf.zip from <https://gitbud.epam.com/aleksei_galkin/ddt-framework/tree/master/docs/examples/demo> ( or from local copy …<ddt-framework\_folder>…/docs/examples/demo folder) and unzip ddtf.war in …<tomcat\_folder>…/webapps tomcat server folder. Start tomcat server after that (via …<tomcat\_folder>…/bin/startup.bat for example). Demo DDTF service should be automatically deployed during tomcat server starting to …<tomcat\_folder>…/webapps/ddtf path

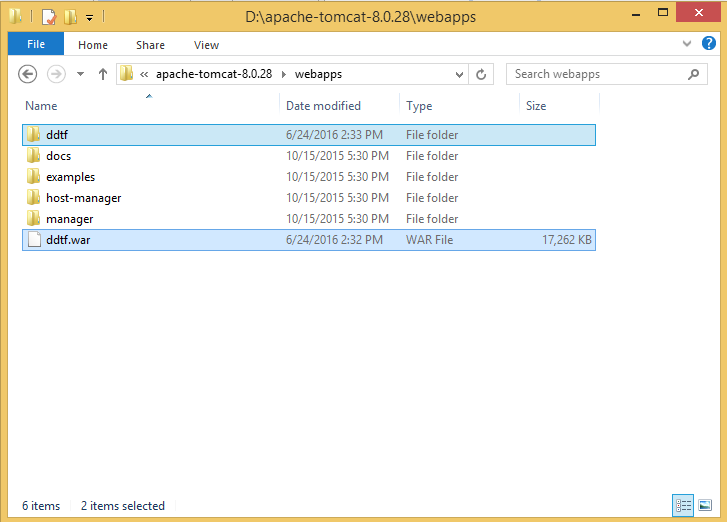


Figure 6 Copied and Deployed DDTF service on tomcat server

# Demo DDTF Project Copied

Demo DDTF project is kept in …<ddt-framework\_folder>…/docs/examples/demo folder of DDT Framework library package placed in GIT repository <https://gitbud.epam.com/aleksei_galkin/ddt-framework.git>. Preparation of Demo DDTF project for execution on workstation includes following steps:

* Copy …<ddt-framework\_folder>…/docs/examples/demo folder on workstation
* Import Demo-DDTF-project (../docs/examples/demo/Demo-DDTF-project.xml) in current SoapUI workspace

Please refer to <https://www.soapui.org/> and EPM-SPI\_DDT\_Framework\_User\_Guide.docx document for hints and help

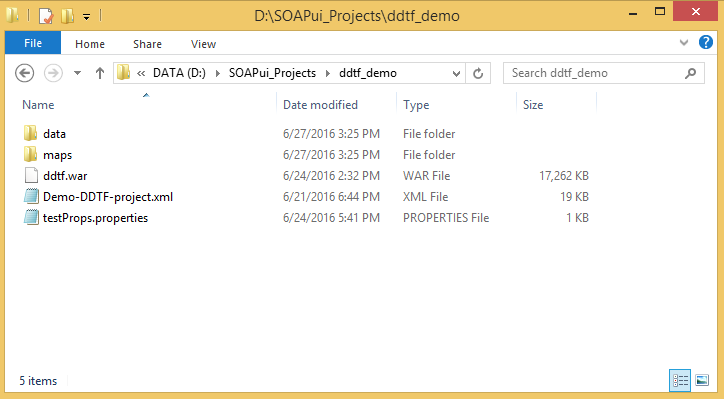


Figure 7 Copied Demo folder on workstation

# Run Demonstration

Go to SoapUI, open TestSuite of DEMO DDTF Project and run it.

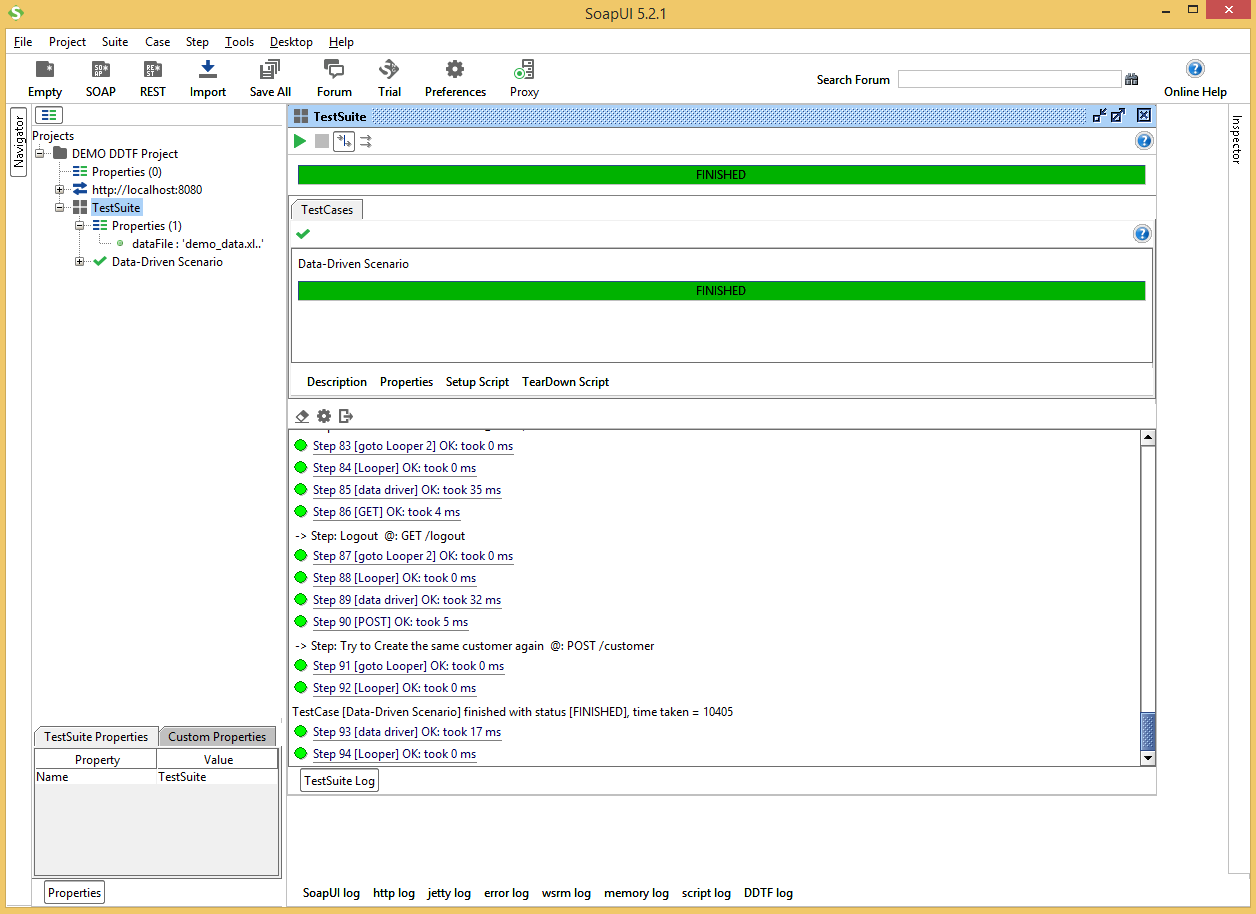


Figure 8 View of executed demo project

1. Troubleshooting

This chapter contains the list of known troubles that may occur during DDT Framework DEMO installation & execution.

| REVISION HISTORY | | | | | |
| --- | --- | --- | --- | --- | --- |
| Ver. | Description of Change | Author | Date | Approved | |
| Name | Effective Date |
| n.n |  |  | dd-mmm-yyyy |  | dd-mmm-yyyy |
|  |  |  |  |  |  |
|  |  |  |  |  |  |