PDTool Installer User Guide

An Open Source Asset for use with TIBCO® Data Virtualization

Project Name	AS Assets PDTool (Promotion and Deployment Tool)
Document Location	This document is only valid on the day it was printed. The source of the document will be found in the PDTool and PDToolRelease folder (https://github.com/TIBCOSoftware)
Purpose	User's Guide

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Revision History

Version	Date	Author	Comments
1.0	09/18/2015	Mike Tinius	Initial revision for Installer User Guide
4.0	12/14/2017	Mike Tinius	Initial revision with Tibco
4.1	05/29/2018	Mike Tinius	Removed reference to .compositesw folder.

Related Documents

Name	Author
PDTool Installer Admin Guide.pdf	Mike Tinius

Supported Versions

Name	Version
TIBCO® Data Virtualization	7.0.4 or later

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1 Introduction

Purpose

The User Guide provides a PDTool User with the steps to install PDTool on Windows using the PDTool Installer.

This is the part of PDTool that provides deployment and testing facilities. The other part of PDTool is called PDTool Studio and is focused on version control. PDTool operates with Data Virtualization (DV) 7.0.

What gets installed?

- PDTool 6.2 or PDTool7.0.0
- VCS Client if the Administrator chooses to pre-configure the \VCSClients folder

Where do the files get copied?

- Recommended default location: C:\Users\%USERNAME%\PDTool[6.2|7.0.0]_[NOVCS|TFS|SVN|GIT|P4|CVS]
    - E.g. C:\Users\user1\PDTool7.0.0_TFS
    - **\PDTool** – PDTool deployment directory
    - **\VCSClients** – Pre-configured VCS clients are optional if installed elsewhere.
        - **\SVN_client** – Subversion client
        - **\TFS_TEE_client** – Team Explorer Everywhere client
        - **\GIT_client** – Git client
        - **\P4_client** – Perforce client
        - **\CVS_client** – CVS client

Audience

This document is intended to provide guidance for the following users:

- Architects – who want to understand how PDTool is used with Data Virtualization.
- Developers – who want to deploy resources from a version control system (VCS) such as TFS or Subversion to a target DV server.
- Administrators – who need to manage setup and connection with the Data Virtualization environment.
- Operations personnel – who wants to encrypt a PDTool file which contains passwords.
- QA/Test personnel – who want to use PDTool Regression Module for testing but do not need to connect to a VCS.

Platform Support

The PDTool Installer is only supported on Windows.

References

Product references are shown below. Any references to CIS or DV refer to the current TIBCO® Data Virtualization.

- TIBCO® Data Virtualization was formerly known as
    - Cisco Data Virtualization (DV)
    - Composite Information Server (CIS)

2 PDTool (Deployment and Testing) Installer User Guide

Pre-Requisite Checklist

The following is a list the User will need to check before installing PDTool:

1. Network Connection:
   Each user must be connected to a network and have access to the VCS server.

2. JRE7 Installed:
   JRE 7 (1.7) must be pre-installed on the target computer before installing PDTool. Each user must perform this action.

   If DV Studio 7.0 is installed, it is possible to utilize that JRE: CIS_HOME\jre or you can use the one installed in the "C:\Program Files\Java\jre7".

3. Version Control System (VCS) Access:
   Each user must perform this action.

   The user must submit a request in advance to their organization to get access to a version control system (VCS) repository prior to installation of PDTool.

4. Pre-Configured PDTool Installer:
   The PDTool Administrator has "pre-configured" the PDTool Installer and provided the location of the zip file to the user.

User Installation Procedure

1. Unzip the PDTool Installer Zip File:
   a. This is the package that the Administrator has "pre-configured" for the organization. Unzip to any directory on your windows machine e.g. [C:\Temp].
      i. PDTool6.2_installer.zip
      ii. PDTool7.0.0_installer.zip
   b. Use PKZip and select "Extract Here" which will extract the file to the C:\Temp directory as shown below. If you use the Windows "Extract All", then it is recommended to remove the trailing folder
      i. Location: C:\Temp\PDTool6.2_Installer
      ii. Location: C:\Temp\PDTool7.0_Installer

2. Install PDTool:
    a. *Purpose* – The purpose of this is to install the "pre-configure" batch files for your organization so that you have a consistent and uniform configuration across the developer and tester user base.
    b. *Location*
        a. [C:\Temp]\PDTool6.2_installer\installer
        b. [C:\Temp]\PDTool7.0.0_installer\installer
    c. ***For any VCS [TFS,SVN,GIT,P4,CVS] Execute***:
        - Edit: **PDTool-VCS.bat** and provide any default values that require modification. The variables should have been pre-configured by the PDTool administrator.
        - Execute by **double-clicking** on the following batch file from windows explorer**:**

            PDTool-VCS.bat

            - Acknowledge Open Source License
            - Follow the "Prompts" section below for detailed information.
    d. ***For non*-VCS Installation such as Regression testing**:
        - Edit: **PDTool-NOVCS.bat** and provide any default values that require modification. The variables should have been pre-configured by the PDTool administrator.
        - Execute by **double-clicking** on the following batch file from windows explorer**:**

            PDTool-NOVCS.bat

            - Acknowledge Open Source License
            - Follow the "Prompts" section below for detailed information.

3. User Prompts:
    a. *Purpose* – The user is prompted for the following parameters unless this information is provided as parameters on the command line. The ***default values are provided within the square brackets***. Press enter with no input to accept the default value or type your value and press enter.
    b. *Prompts:*

    Enter I_PDTOOL_INSTALL_SCRIPTS=[%DEF_PDTOOL_INSTALL_SCRIPTS%]:

        - Location of the PDTool installation scripts. E.g. C:\Temp\PDTool7.0.0_installer

    License Acknowledgement

- Use space bar to page through license
- Review and acknowledge the open source license [Y].

Enter I_JAVA_HOME=[%DEF_JAVA_HOME%]:

- I_JAVA_HOME=JRE7 home folder. E.g. C:\Program Files\Java\jre7

Enter I_PDTOOL_DESTINATION_HOME=[%DEF_PDTOOL_DESTINATION_HOME%]:

- I_PDTOOL_DESTINATION_HOME - The destination home folder for the PDTool installation and associated binaries.
- NOVCS: C:\Users\%USERNAME%\PDTool7.0.0_NOVCS
- TFS: C:\Users\%USERNAME%\PDTool7.0.0_TFS
- SVN: C:\Users\%USERNAME%\PDTool7.0.0_SVN
- GIT: C:\Users\%USERNAME%\PDTool7.0.0_GIT
- P4: C:\Users\%USERNAME%\PDTool7.0.0_P4
- CVS: C:\Users\%USERNAME%\PDTool7.0.0_CVS

Enter I_PDTOOL_DESTINATION_DIR=[%DEF_PDTOOL_DESTINATION_DIR%]:

- The destination directory name for the PDTool installation and associated binaries. e.g. PDTool7.0.0

Enter I_OVERWRITE_DECISION=[N]:

- This prompt only comes up when the target PDTool directory exists. It allows the user to decide whether they want to overwrite that directory or not. Enter Y to overwrite the existing directory.

Enter I_VCS_TYPE=[%DEF_VCS_TYPE%]:

- I_VCS_TYPE - The version control type [TFS|SVN|GIT|P4|CVS]

Enter I_VCS_HOME=[%DEF_VCS_HOME%]:

- This is the location of the VCS script executable. E.g. C:\Users\%USERNAME%\PDTool7.0.0_SVN\VCSClients\SVN_client

Enter I_VCS_REPOSITORY_URL=[%DEF_VCS_REPOSITORY_URL%]:

- Note: make sure the forward slashes are escaped with 4 slashes: https:////url
- TFS: The TFS repository URL pointing to the repository collection. e.g. http:////hostname.domain.com/tfs/DefaultCollection

- SVN: The subversion repository path at trunk or any folder designation within trunk. e.g. https:////svn.hostname.com/svnrepos/myrepo/trunk/main

Enter I_VCS_PROJECT_ROOT=[%DEF_VCS_PROJECT_ROOT%]:

- E.g. TFS: Rel
- E.g. SVN: cis_objects

Enter I_RELEASE_FOLDER=[%DEF_RELEASE_FOLDER%]:

- Example: RELEASE_FOLDER=20150918

Enter I_VCS_USERNAME=[%USERNAME%]:

- This is your user name regardless of whether it is TFS or Subversion and is used to connect to the VCS repository. The user must submit a request to get access to a repository prior to installation of PDTool.

Enter I_VCS_DOMAIN=[%DEF_VCS_DOMAIN%]:

- When using TFS, include the VCS domain such as “@CORP”. The result for the I_VCS_USERNAME would look like “username@CORP”. When using subversion, leave the domain blank. The I_VCS_DOMAIN will be automatically appended to I_VCS_USERNAME.

Enter I_VCS_PASSWORD=<type-your-vcs-password>

- This is your VCS password which will be encrypted.

Enter I_WORKSPACE_NAME=[%DEF_VCS_WORKSPACE_NAME%]:

- The PDTool VCS workspace name is derived from the VCS username and Release folder so that it is unique across usernames and releases.

Enter I_CIS_USERNAME=[%USERNAME%]:

- This is your user name regardless that will be used to connect to DV.

Enter I_CIS_DOMAIN=[%DEF_CIS_DOMAIN%]:

- This is the DV domain which is used by the I_CIS_USERNAME to connect to DV. E.g. ldap or composite

Enter I_CIS_PASSWORD=<type-your-cis-password>

- This is your password which will be encrypted.

Enter I_CONFIG_PROPERTY_FILE=[%DEF_CONFIG_PROPERTY_FILE%]

- This is the default PDTool configuration property file that the user will use to set the context of which DV server to connect to.

The variables are displayed

Enter I_VARS_DECISION [Y or N] – If “Y”, then installation commences. If “N” then the user is prompted for the variables again.

Confirmation of the network drive letter is provided

Existing PDTOOL_SUBSTITUTE_DRIVE=<drive_letter>:

PDTool network substitute drive letter.

Objective: Used to shorten the overall path to workspace folder mainly for TFS.

Do you want to use the substitute drive letter="<drive_letter>:" [Y or N]:

Installation proceeds after this point.

4. What Gets Executed?

a. Copy source files to destination folder
b. For TFS only, TFS eula –accept
c. Encrypt passwords: C:\Users\%USERNAME%\PDTool<ver>_<vcs>\setMyPrePDToolVars.bat
d. Initialize workspace (requires the VCS credentials and repository URL). Note: This does not get executed for PDTool-NOVCS.bat

5. Managing Errors:

a. If there are any errors reported in the scripts especially during workspace initialization, try removing the workspace directory and then re-execute the installation script.
b. If there is an error while trying to create a substitute drive then first trying removing the substitute drive which was identified as available in the script. net use <drive>: /DELETE

6. Verify Installation:

a. If I_CONFIGURE_VCS=Y

   Verify that the workspace was created properly C:\Users\%USERNAME%\PDTool7.0.0_TFS\PDTool\%I_VCS_PROJECT_ROOT%\%I_RELEASE_FOLDER%

b. If I_CONFIGURE_VCS=N

   The user will need to configure a Regression Module test and execute to verify.

FINISHED

3 Conclusion

Concluding Remarks

The Promotion and Deployment Tool is a set of pre-built modules intended to provide a turn-key experience for promoting DV resources from one DV instance to another. The user only requires system administration skills to operate and support. The code is transparent to operations engineers resulting in better supportability. It is easy for users to swap in different implementations of a module using the Spring framework and configuration files.

How you can help!

Build a module and donate the code back to Professional Services for the advancement of the "***Promotion and Deployment Tool***".