TERADATA®

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# Teradata Express

## Installation and Configuration Guide

Release 16.00

B035-5948-126K

December 2016

TERADATA LABS®

# Table of Contents

# Preface

## Purpose

This guide explains how to install Teradata Express.

## Audience

Users of Teradata Express Virtual Machine (VM).

## Revision History

| Date | Description |
|---|---|
| December 2016 | Initial release |

## Additional Information

### *Related Links*

| URL | Description |
|---|---|
| www.teradata.com | External site for product, service, resource, support, and other customer information. |
| http://www.info.teradata.com | External site for published Teradata customer documentation. |
| https://tays.teradata.com | External site for access to the Teradata software server. Only accessible with an active service contract. |

## Product Safety Information

This document may contain information addressing product safety practices related to data or property damage, identified by the word *Notice*. A notice indicates a situation which, if not avoided, could result in damage to property, such as equipment or data, but not related to personal injury.

### *Example*

**Notice:**

Improper use of the Reconfiguration utility can result in data loss.

CHAPTER 1

# Overview

## Teradata Express Basics

Teradata Express 16.00 is a free, fully-operational Teradata Database 16.00 virtual machine (VM) image with 40 GB storage.

**Note:**

Teradata Express is an evaluation copy, intended for trial use, and therefore is not officially supported by Teradata Services.

## Requirements

The following are the minimum requirements to install Teradata Express:

| Requirements | Description |
|---|---|
| Hardware | 64-bit processor with VT Extensions |
| BIOS | Must be configured to support Virtualization |
| Space & RAM | Minimum 30GB free space and 4GB RAM |
| Image | Obtain the TDExpress16.0.0_SLES11 compressed file from Developer Exchange: Teradata Downloads.<br>• The image is a VMware Player virtual machine and includes Viewpoint.<br>• The image excludes Channel Connect and Teradata Virtual Storage (TVS).<br>Teradata disks in the VM image are files on the host system and TVS is disabled. |
| Database | The image contains one PE and two AMPs with two virtual disks that support 40 GB database size.<br>• 4GB RAM if Viewpoint is not running.<br>• 8GB RAM with Viewpoint running.<br>If only 4GB RAM is available, both Teradata Database and Viewpoint cannot be run at the same time. |
| VMware | VMware Player versions 6 or 7.<br>VMware Workstation Player 12.<br>VMware Player is free and can be downloaded from https://my.vmware.com/web/vmware/downloads. |

| Requirements | Description |
|---|---|
| Zip Software | The image was zipped using 7-zip.<br>7-zip is free and may be downloaded from http://7-zip.org/. |

CHAPTER 2

# Installing Teradata Express

## Downloading Teradata Express

1. [Optional] If it is not already installed, download and install VMware Player.
2. Open Teradata Downloads. Log in, if needed.
3. On the **Downloads** page, in the **Teradata Express** field, click **VMware**.
4. Download the **TDExpress16.0.0X_SLES11** compressed package.
5. Using a zip file extractor such as 7-Zip, extract the package to your VMware location.

## Adding Teradata Express to the VMware Player Inventory

1. Open the VMware Player.
2. Click the **Summary** tab.
3. Click **Add Virtual Machine to Inventory**.
4. Navigate to the folder where the Teradata Express image was downloaded.
5. Select the `.vmx` file and click **OK**.
   The `.vmx` filename appears highlighted in the VMware Player library pane.

## Starting Teradata Express

The Teradata Express image opens to the VMware desktop.

1. Click **Play Virtual Machine**.
   The Teradata database automatically starts after the image comes up.
2. Log on to Teradata Express:
   - Login: *root*
   - Password: *root*

## Testing the Installation

1. To confirm that the database has come up, type: `# pdestate -a`
   For example:

```
TDExpress16.0.0.x_Sles11:~ # pdestate -a
PDE state is RUN/STARTED.
```

```
DBS state is 5: Logons are enabled - The system is quiescent
TDExpress16.0.0.x_Sles11:~ #
```

2. From the VMware desktop, open the GNOME Terminal.
3. At the shell prompt, type `BTEQ`
4. At the login prompt:

   `.logon 127.0.0.1/dbc`
5. At the password prompt, type `dbc`.
   If successful, the BTEQ session reports that you are logged into BTEQ.
6. Run the SQL test script by typing the following:

   `select * from dbc.dbcinfo;`

   A successful test returns: `*** Query completed.`
7. To quit BTEQ, type `quit`.

# Teradata QueryGrid

To obtain Teradata QueryGrid, contact your Teradata account executive, or contact Teradata directly:

http://www.teradata.com/contact
866-548-8348 (U.S. only)
+1 937-242-4030 (worldwide)

To install and configure the software, use the appropriate installation guide for the Teradata QueryGrid connector.

CHAPTER 3

# Monitoring Teradata Express with Viewpoint

## Logging into Teradata Viewpoint from Teradata Express

### *Prerequisite*

Confirm the system has at least 8GB of RAM.

Enable Network Address Translation (NAT) port forwarding to access Viewpoint from outside the VM. See your VMware professional for assistance, if needed.

1. From the VMware desktop, open Viewpoint.
2. From the VMware desktop, open the Firefox browser.
3. In Firefox,do one of the following:

| Option | Description |
|---|---|
| **Connect to Viewpoint from the virtual machine** | Type `http://localhost:9080` or `https://localhost:9443` |
| **Connect Viewpoint from host system (the system where the virtual machine is running)** | **a.** Configure the virtual machine manager network settings to map port 80 on the guest system to port 80 on the host system.<br>**b.** Type `http://localhost` |

4. Log on to Teradata Viewpoint:
   - Login: *admin*
   - Password: *teradata*
5. From the Teradata Viewpoint portal page, click  .
6. Open the **Monitored Systems** portlet.
7. Click  next to **Systems** and select **Add Teradata System**.
8. Enter a system nickname.
9. [Optional] Select the **Enable system** check box.
   After it is enabled, the system starts collecting data.
10. Enter the TDPID `localhost`.
11. For the tdwm user, enter the password *tdwmadmin*.
12. For the Teradata Viewpoint user, enter a login name and password.

You also have the option to specify an account string, authentication, add more logins, test that the login settings are correct, and grant access to a Teradata Database system.

**Note:**

Be sure to add any login IDs used for Teradata Viewpoint data collection to the system-level bypass, which is described in the Workload Designer portlet documentation.

13. [Optional] Click **Test** to verify that the login settings are correct.

    If the operation is successful, ✔ appears. If the operation fails, ⚠ appears. If you receive an error, verify that the login credentials are valid and the host can be reached.

14. [Optional] Under **Authentication Options**, select a check box to specify which authentication mechanisms will be available in the portlets that require them.

15. [Optional] Under **Character Set**, select default character sets and enter a **JDBC Flag** value:

    - Select a character set from the **Session** menu.
    - Select a character set from the **Monitor** menu.
    - Enter a **JDBC Flag** value.

16. Select a time zone from the list.

    This should be the time zone used for DBQL logging. Time zones shown in the list are relative to Greenwich Mean Time (GMT) and include a reference location. The Teradata Viewpoint application server time zone is the default.

17. [Optional] Under **Collectors**, select the check box to activate all data collectors except Elastic Limit, Elastic Usage, Virtual Storage, and Stats Manager so they can collect data points on this system.

    The data collectors can be enabled and configured individually in **Data Collectors**. The **Elastic Performance** portlet uses the Elastic Limit and Elastic Usage data collectors to display data. The **TVS Monitor** portlet uses the Virtual Storage data collector. The **Stats Manager** portlet uses the Stats Manager data collector to display data, and is available for systems running Teradata Database 14.10 or later.

18. [Optional] Under **Enhanced TASM Functions**, select the check box to activate the workload management features available with your TASM license in SLES 11.

    After it is enabled, the **(For SLES 11 systems only)** comment no longer displays.

19. Click **Apply**.

    If the operation is successful, ✔ appears. If the operation fails, ⚠ appears. If you receive an error, verify that the settings are correct and try again.