



What would you do if you knew?™

---

## **Teradata Express Installation and Configuration Guide**

Release 16.00  
B035-5948-126K  
December 2016



The product or products described in this book are licensed products of Teradata Corporation or its affiliates.

Teradata, Applications-Within, Aster, BYNET, Claraview, DecisionCast, Gridscale, MyCommerce, QueryGrid, SQL-MapReduce, Teradata Decision Experts, "Teradata Labs" logo, Teradata ServiceConnect, Teradata Source Experts, WebAnalyst, and Xkoto are trademarks or registered trademarks of Teradata Corporation or its affiliates in the United States and other countries.

Adaptec and SCSISelect are trademarks or registered trademarks of Adaptec, Inc.

Amazon Web Services, AWS, [any other AWS Marks used in such materials] are trademarks of Amazon.com, Inc. or its affiliates in the United States and/or other countries.

AMD Opteron and Opteron are trademarks of Advanced Micro Devices, Inc.

Apache, Apache Avro, Apache Hadoop, Apache Hive, Hadoop, and the yellow elephant logo are either registered trademarks or trademarks of the Apache Software Foundation in the United States and/or other countries.

Apple, Mac, and OS X all are registered trademarks of Apple Inc.

Axeda is a registered trademark of Axeda Corporation. Axeda Agents, Axeda Applications, Axeda Policy Manager, Axeda Enterprise, Axeda Access, Axeda Software Management, Axeda Service, Axeda ServiceLink, and Firewall-Friendly are trademarks and Maximum Results and Maximum Support are servicemarks of Axeda Corporation.

CENTOS is a trademark of Red Hat, Inc., registered in the U.S. and other countries.

Cloudera, CDH, [any other Cloudera Marks used in such materials] are trademarks or registered trademarks of Cloudera Inc. in the United States, and in jurisdictions throughout the world.

Data Domain, EMC, PowerPath, SRDF, and Symmetrix are registered trademarks of EMC Corporation.

GoldenGate is a trademark of Oracle.

Hewlett-Packard and HP are registered trademarks of Hewlett-Packard Company.

Hortonworks, the Hortonworks logo and other Hortonworks trademarks are trademarks of Hortonworks Inc. in the United States and other countries.

Intel, Pentium, and XEON are registered trademarks of Intel Corporation.

IBM, CICS, RACF, Tivoli, and z/OS are registered trademarks of International Business Machines Corporation.

Linux is a registered trademark of Linus Torvalds.

LSI is a registered trademark of LSI Corporation.

Microsoft, Active Directory, Windows, Windows NT, and Windows Server are registered trademarks of Microsoft Corporation in the United States and other countries.

NetVault is a trademark or registered trademark of Dell Inc. in the United States and/or other countries.

Novell and SUSE are registered trademarks of Novell, Inc., in the United States and other countries.

Oracle, Java, and Solaris are registered trademarks of Oracle and/or its affiliates.

QLogic and SANbox are trademarks or registered trademarks of QLogic Corporation.

Quantum and the Quantum logo are trademarks of Quantum Corporation, registered in the U.S.A. and other countries.

Red Hat is a trademark of Red Hat, Inc., registered in the U.S. and other countries. Used under license.

SAP is the trademark or registered trademark of SAP AG in Germany and in several other countries.

SAS and SAS/C are trademarks or registered trademarks of SAS Institute Inc.

Simba, the Simba logo, SimbaEngine, SimbaEngine C/S, SimbaExpress and SimbaLib are registered trademarks of Simba Technologies Inc.

SPARC is a registered trademark of SPARC International, Inc.

Symantec, NetBackup, and VERITAS are trademarks or registered trademarks of Symantec Corporation or its affiliates in the United States and other countries.

Unicode is a registered trademark of Unicode, Inc. in the United States and other countries.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Other product and company names mentioned herein may be the trademarks of their respective owners.

**The information contained in this document is provided on an "as-is" basis, without warranty of any kind, either express or implied, including the implied warranties of merchantability, fitness for a particular purpose, or non-infringement. Some jurisdictions do not allow the exclusion of implied warranties, so the above exclusion may not apply to you. In no event will Teradata Corporation be liable for any indirect, direct, special, incidental, or consequential damages, including lost profits or lost savings, even if expressly advised of the possibility of such damages.**

The information contained in this document may contain references or cross-references to features, functions, products, or services that are not announced or available in your country. Such references do not imply that Teradata Corporation intends to announce such features, functions, products, or services in your country. Please consult your local Teradata Corporation representative for those features, functions, products, or services available in your country.

Information contained in this document may contain technical inaccuracies or typographical errors. Information may be changed or updated without notice. Teradata Corporation may also make improvements or changes in the products or services described in this information at any time without notice.

To maintain the quality of our products and services, we would like your comments on the accuracy, clarity, organization, and value of this document. Please e-mail: [teradata-books@lists.teradata.com](mailto:teradata-books@lists.teradata.com)

Any comments or materials (collectively referred to as "Feedback") sent to Teradata Corporation will be deemed non-confidential. Teradata Corporation will have no obligation of any kind with respect to Feedback and will be free to use, reproduce, disclose, exhibit, display, transform, create derivative works of, and distribute the Feedback and derivative works thereof without limitation on a royalty-free basis. Further, Teradata Corporation will be free to use any ideas, concepts, know-how, or techniques contained in such Feedback for any purpose whatsoever, including developing, manufacturing, or marketing products or services incorporating Feedback.

**Copyright © 2016 by Teradata. All Rights Reserved.**

# Table of Contents

---

<b>Preface</b>	5
Purpose	5
Audience	5
Revision History	5
Additional Information	5
Product Safety Information	5

---

<b>Chapter 1: Overview</b>	7
Teradata Express Basics	7
Requirements	7

---

<b>Chapter 2: Installing Teradata Express</b>	9
Downloading Teradata Express	9
Adding Teradata Express to the VMware Player Inventory	9
Starting Teradata Express	9
Testing the Installation	9
Teradata QueryGrid	10

---

<b>Chapter 3: Monitoring Teradata Express with Viewpoint</b>	11
Logging into Teradata Viewpoint from Teradata Express	11



# 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
<a href="http://www.teradata.com">www.teradata.com</a>	External site for product, service, resource, support, and other customer information.
<a href="http://www.info.teradata.com">http://www.info.teradata.com</a>	External site for published Teradata customer documentation.
<a href="https://tays.teradata.com">https://tays.teradata.com</a>	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.



## 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	<p>Obtain the TDEExpress16.0.0_SLES11 compressed file from Developer Exchange: <a href="#">Teradata Downloads</a>.</p> <ul style="list-style-type: none"><li>• The image is a VMware Player virtual machine and includes Viewpoint.</li><li>• The image excludes Channel Connect and Teradata Virtual Storage (TVS). Teradata disks in the VM image are files on the host system and TVS is disabled.</li></ul>
Database	<p>The image contains one PE and two AMPs with two virtual disks that support 40 GB database size.</p> <ul style="list-style-type: none"><li>• 4GB RAM if Viewpoint is not running.</li><li>• 8GB RAM with Viewpoint running.</li></ul> <p>If only 4GB RAM is available, both Teradata Database and Viewpoint cannot be run at the same time.</p>
VMware	<p>VMware Player versions 6 or 7. VMware Workstation Player 12.</p> <p>VMware Player is free and can be downloaded from <a href="https://my.vmware.com/web/vmware/downloads">https://my.vmware.com/web/vmware/downloads</a>.</p>

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



## 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 <code>http://localhost:9080</code> or <code>https://localhost:9443</code>
Connect Viewpoint from host system (the system where the virtual machine is running)	<ol style="list-style-type: none"><li>a. Configure the virtual machine manager network settings to map port 80 on the guest system to port 80 on the host system.</li><li>b. Type <code>http://localhost</code></li></ol>



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.