# Integrate Teradata Database Server

## EventTracker

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**EventTracker**
8815 Centre Park Drive
Columbia MD 21045
www.eventtracker.com

# About the document

This guide provides instructions to configure Teradata Database Server to send the event logs to EventTracker Enterprise.

# Intended audience

Teradata Database Server Administrators, who wish to forward syslog events to EventTracker Manager.

# Scope

The configurations detailed in this guide are consistent with **EventTracker Enterprise version 7.X** or later, and **Teradata Database Server 12** or later.

# Table of Contents

# Pre-requisite

- EventTracker should be installed.
- Teradata Database Server 12 (or later) should be installed.

# Overview

In order to monitor Teradata Database 12 or later in EventTracker, you need to perform all the steps as below.

- Enable **Logging** on **Teradata Database Server**.
- Schedule **Bteq** scripts on **Teradata Database Server**.
- Verify **Teradata Database Server** Knowledge Pack in **EventTracker**.

# Enable logging to Database Server

1 Launch **Teradata Database**.

2 Run the **Begin Logging** and **Begin Query Logging** query to enable logging on Teradata.

The query for **Begin Logging** is

**BEGIN LOGGING WITH TEXT ON ALL**

The query for **Begin Query Logging** is

**BEGIN QUERY LOGGING ON ALL**

**NOTE:**

You can use these two queries in different ways on different objects using various keywords and clauses for user specific outputs. For more information on the syntax of these queries, refer to the following link

http://www.coffingdw.com/Teradata_DBA/teradata_dba/chapter_6___query_analysis_and_tools/begin_logging_statement.htm

# Schedule Bteq Scripts on Teradata Database

There are three types of logs that can be generated from Teradata Database Server using **Bteq** scripts. They are as follows:

- Access Logs.
- Event Logs.
- Database Query Logs (DBQL)

The following scripts need to be scheduled on Teradata Database Server to extract required data.

## For Access Log

.LOGON dbc, dbc

database dbc;

.SET WIDTH 3500;

.SET TITLEDASHES OFF;

.SET FORMAT OFF;

.SET FOLDLINE OFF;

.SET SEPARATOR ',';

.EXPORT REPORT FILE=Reportoutput.csv

Select LogonDate,LogonTime,TheDate,TheTime,(cast (LogicalHostID as smallint)),(cast (IFPNo as smallint)),(cast (SessionNo as integer)),(cast (UserId as byte(4))),(cast (UserName as varchar(40))),(cast (AccountName as varchar(100))),(cast (AccLogResult as character(1))),SeqInHash,(cast (AccessType as character(2))),(cast (Accesskind as byteint)),(cast (Frequency as character(1))),EventCount,(cast (OwnerName as varchar(40))),(cast

(DatabaseName as varchar(40))),(cast (TVMName as varchar(120))),(cast (ColumnName as varchar(120))),(cast (ObjectLevel as character(1))),(cast (ObjectId as byte(4))),(cast (ColumnId as smallint)),(cast (StatementKind as smallint)),(cast (StatementType as varchar(120))),(cast (StatementText as varchar(550))),(cast (QueryBand as varchar(550))),(cast (ProxyUser as varchar(60))),(cast (ConstraintId as byte(4))) from dbc.acclogtbl where LogonDate=Current_Date-1;

.EXPORT RESET

.Quit

.Logoff

# Configure Teradata Database to send logs to EventTracker

Transferring Teradata database logs to EventTracker server or by scheduling a task.

1. Create a log folder on any drive and transfer the logs manually.
2. In EventTracker Enterprise, click the **Admin** drop-down, select **Manager**.
3. Select **Direct Log Archiver/Netflow Receiver** tab.

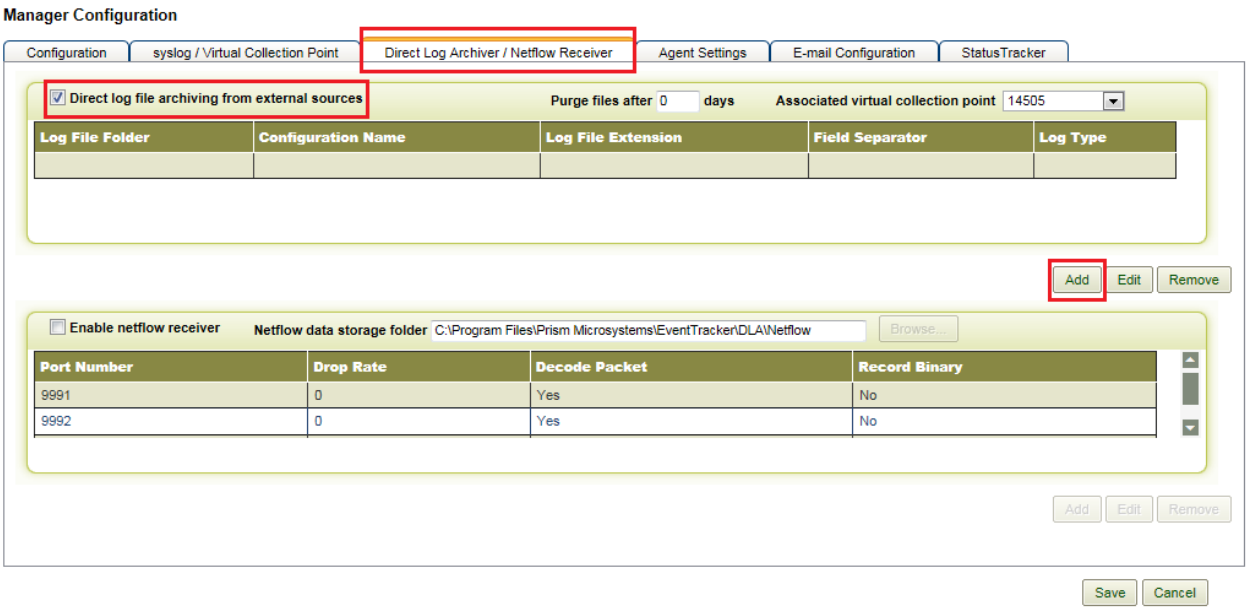


Figure 1

4. Select **Direct log file archiving from external resources** option.

5. Click the **Add** button.

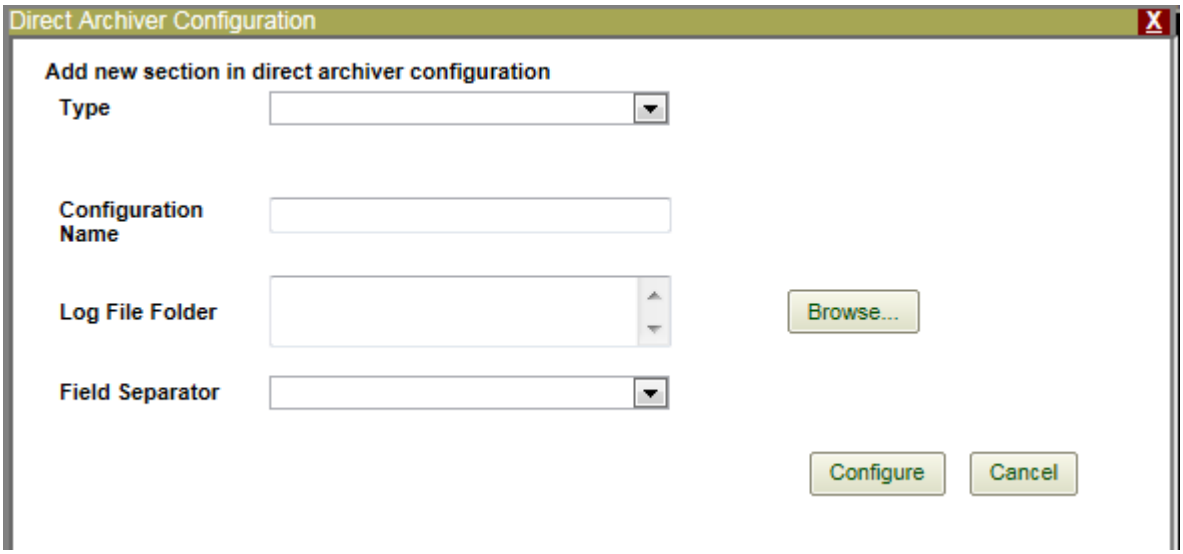


Figure 2

6. Select/enter the appropriate fields. Enter the correct path of the **Log File Folder**.

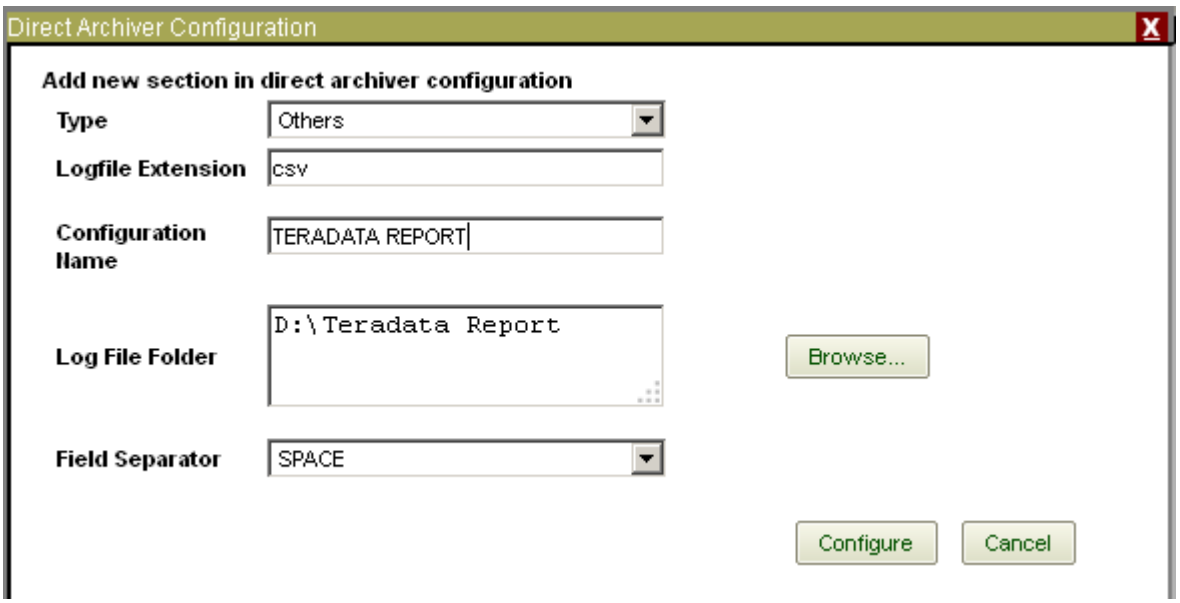


Figure 3

7. Click **Configure**.
8. Select/enter the appropriate fields.

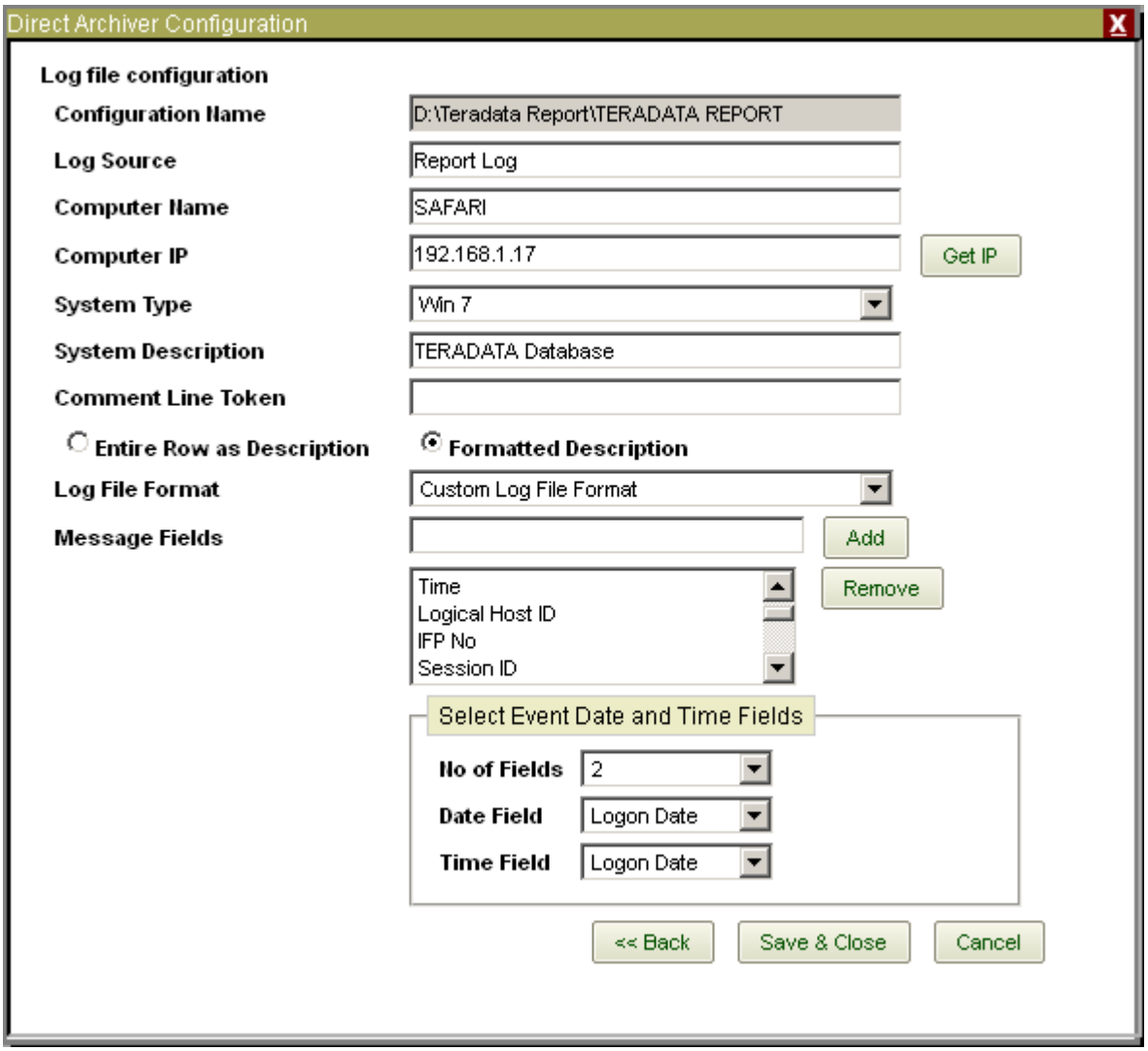


Figure 4

9. Click **Save &Close** button.

# For Event Log

.LOGON dbc,dbc

database dbc;

.SET WIDTH 3500;

.SET TITLEDASHES OFF;

.SET FORMAT OFF;

.SET FOLDLINE OFF;

.SET SEPARATOR ',';

.EXPORT REPORT FILE=eventlog.csv

Select DateFld,TimeFld,(cast (UserName as varchar(40))),(cast (AccountName as varchar(40))),(cast (Event as character(12))),(cast (SessionNo as integer)),logondate,LogonTime,(cast (ClientTcpPortNumber as integer)),(cast (clienttdhostname as varchar(40))),(cast (clientsystemuserid as varchar(40))),(cast (Authuser as varcharr(200))) from dbc.eventlog where DateFld=Current_Date-1;

.EXPORT RESET

.Quit

.Logoff

# Configure Teradata Database to send event logs to EventTracker

Transferring Teradata database Event logs to EventTracker server or by scheduling a task.

1. Create a log folder on any drive and transfer the logs manually.
2. In EventTracker Enterprise, click the **Admin** drop-down, select **Manager**.
3. Select **Direct Log Archiver/Netflow Receiver** tab.

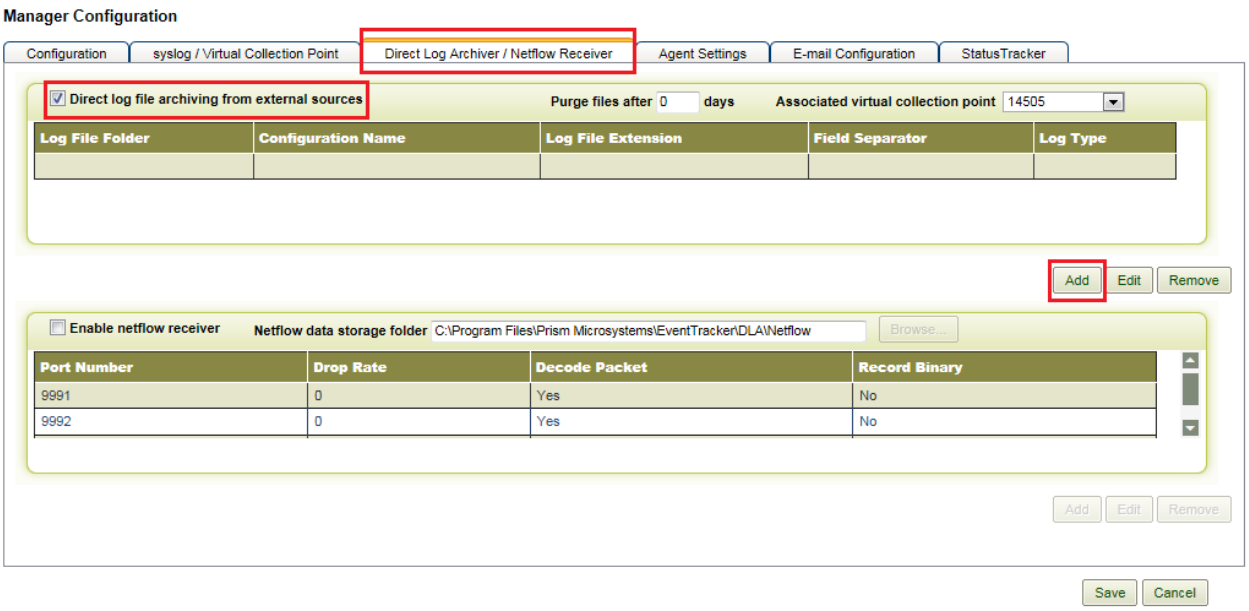


Figure 5

4. Select **Direct log file archiving from external resources** option.
5. Click the **Add** button.

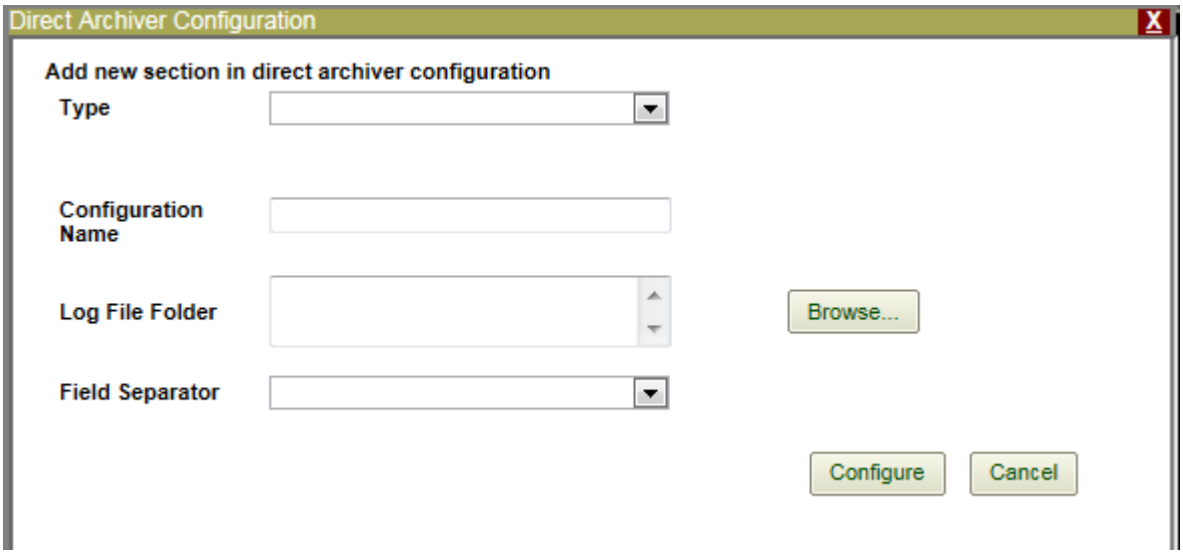


Figure 6

6. Select/enter the appropriate fields. Enter the correct path of the **Log File Folder**.

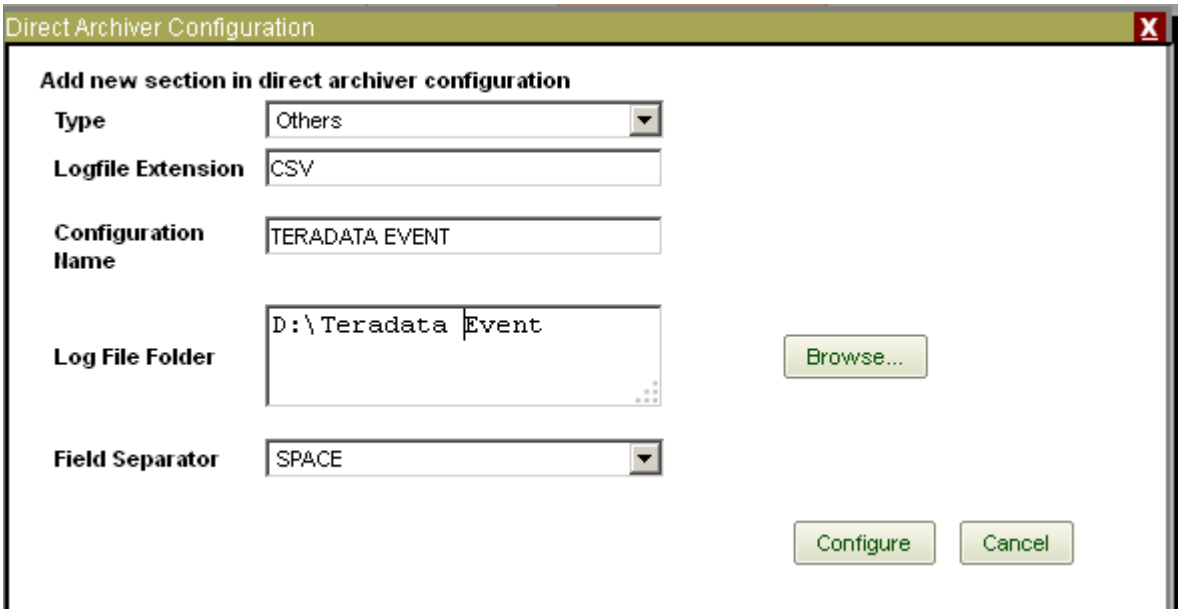


Figure 7

7. Click **Configure**.
8. Select/enter the appropriate fields.

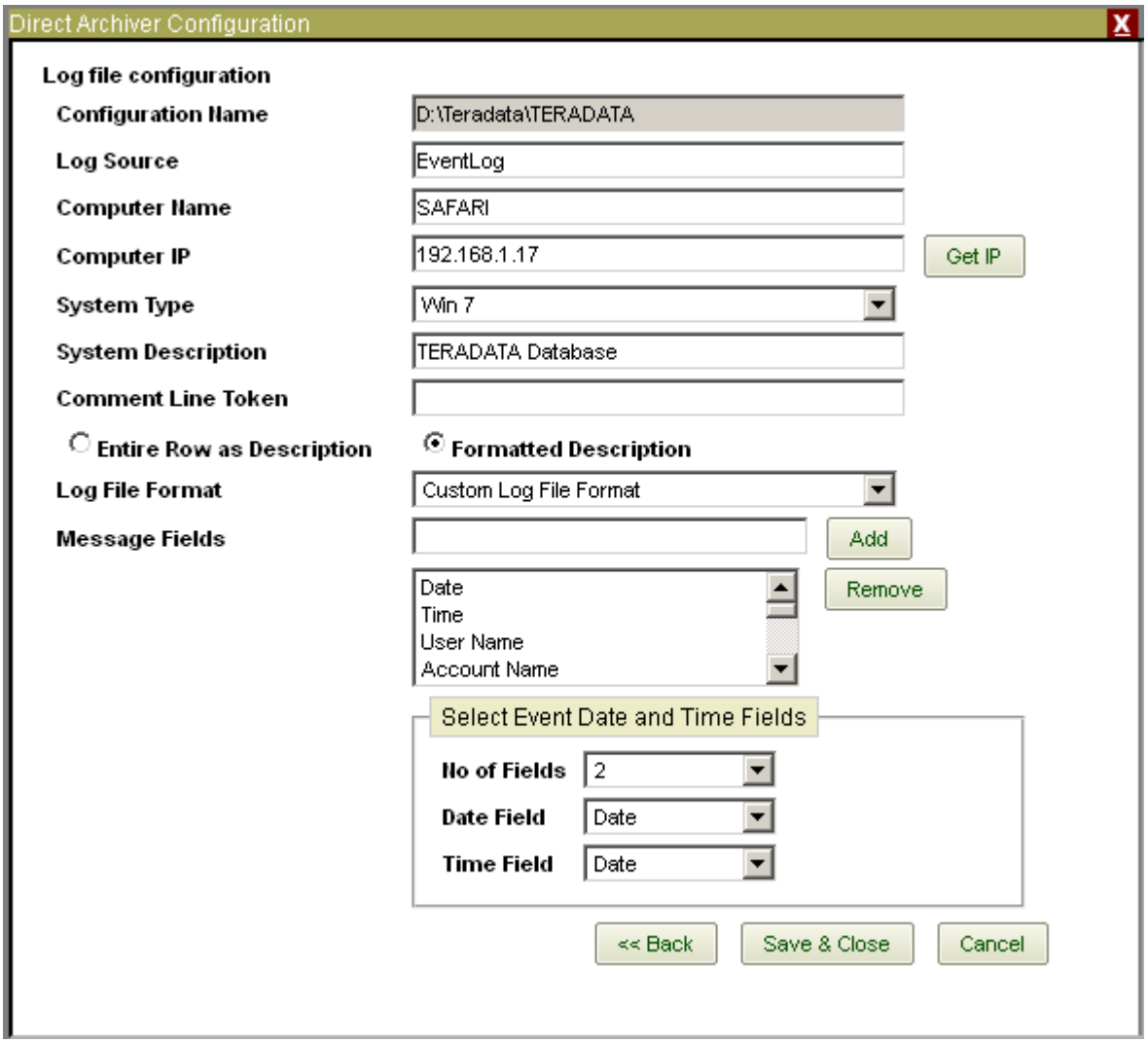


Figure 8

9. Click **Save &Close** button.

# For Database Query Log (DBQL)

.LOGON dbc,dbc

database dbc;

.SET WIDTH 3500;

.SET TITLEDASHES OFF;

.SET FORMAT OFF;

.SET FOLDLINE OFF;

.SET SEPARATOR ',';

.EXPORT REPORT FILE=dbqlog.csv

Select (cast (QueryID as decimal(18, 0))),(cast (UserID as byte(4))),(cast (AccString as varchar(128))),(cast (ExpandAccString as varchar(128))),(cast (SessionID as integer)),(cast (LogonDateTime as timestamp(2))),(cast (StartTime as timestamp(2))),(cast (FirstStepTime as timestamp(2))),(cast (FirstRespTime as timestamp(2))),(cast (ErrorCode as integer)),(cast (ErrorText as varchar(1024))),(cast (AbortFlag as character(1))),(cast (StatementType as character(20))),(cast (QueryText as varchar(10000))),(cast (UserName as varchar(40))),(cast (DefaultDatabase as varchar(40))),(cast (StatementGroup as varchar(120))),(cast (KeepFlag as character(1))),(cast (QueryRedriven as character(1))) from dbc.dbqlogtbl where LogonDateTime=Current_Date-1;

.EXPORT RESET

.Quit

.Logoff

# Configure Teradata Database to send DBQ logs to EventTracker

Transferring Teradata database DBQ logs to EventTracker server or by scheduling a task.

1. Create a log folder on any drive and transfer the logs manually.
2. In EventTracker Enterprise, click the **Admin** drop-down, select **Manager**.
3. Select **Direct Log Archiver/Netflow Receiver** tab.

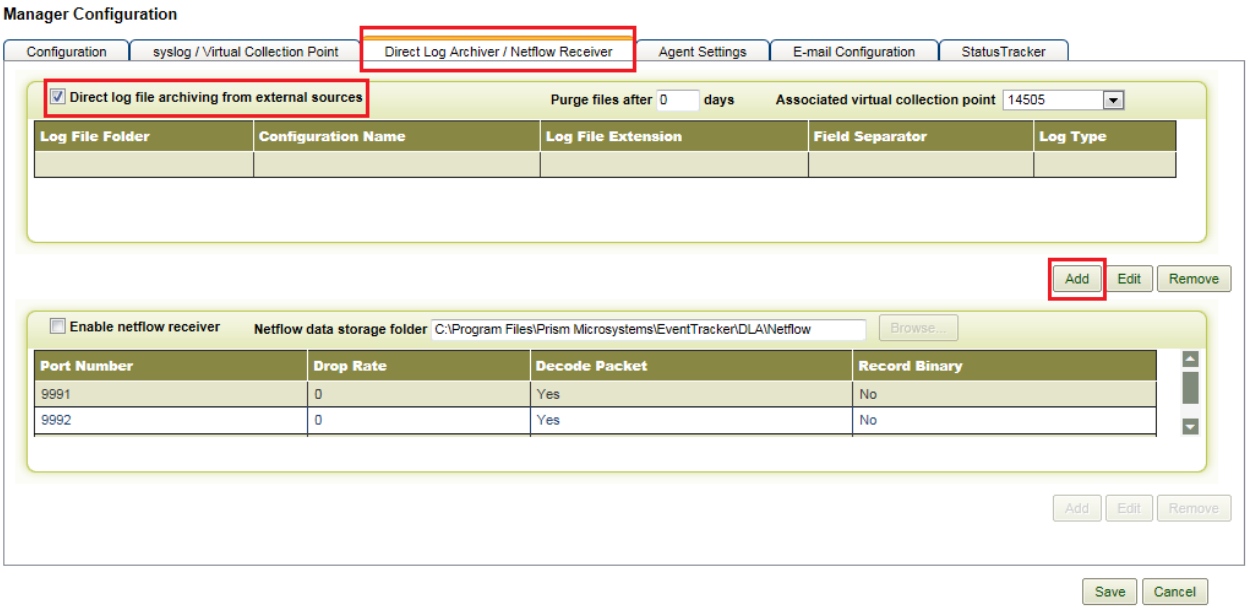


Figure 9

4. Select **Direct log file archiving from external resources** option.
5. Click the **Add** button.

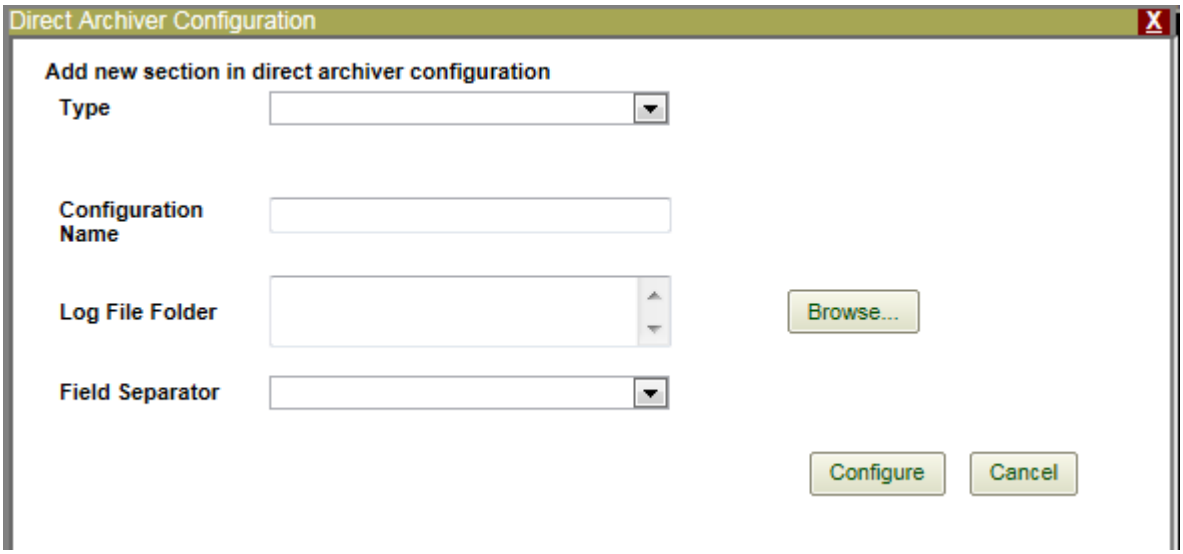


Figure 10

6. Select/enter the appropriate fields. Enter the correct path of the **Log File Folder**.

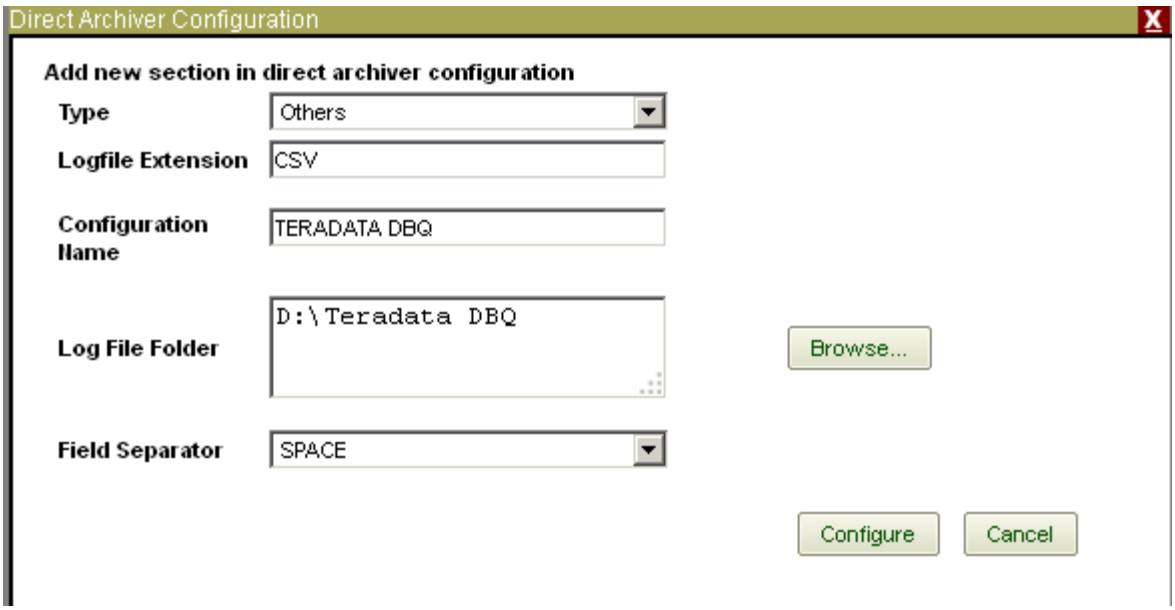


Figure 11

7. Click **Configure**.
8. Select/enter the appropriate fields.

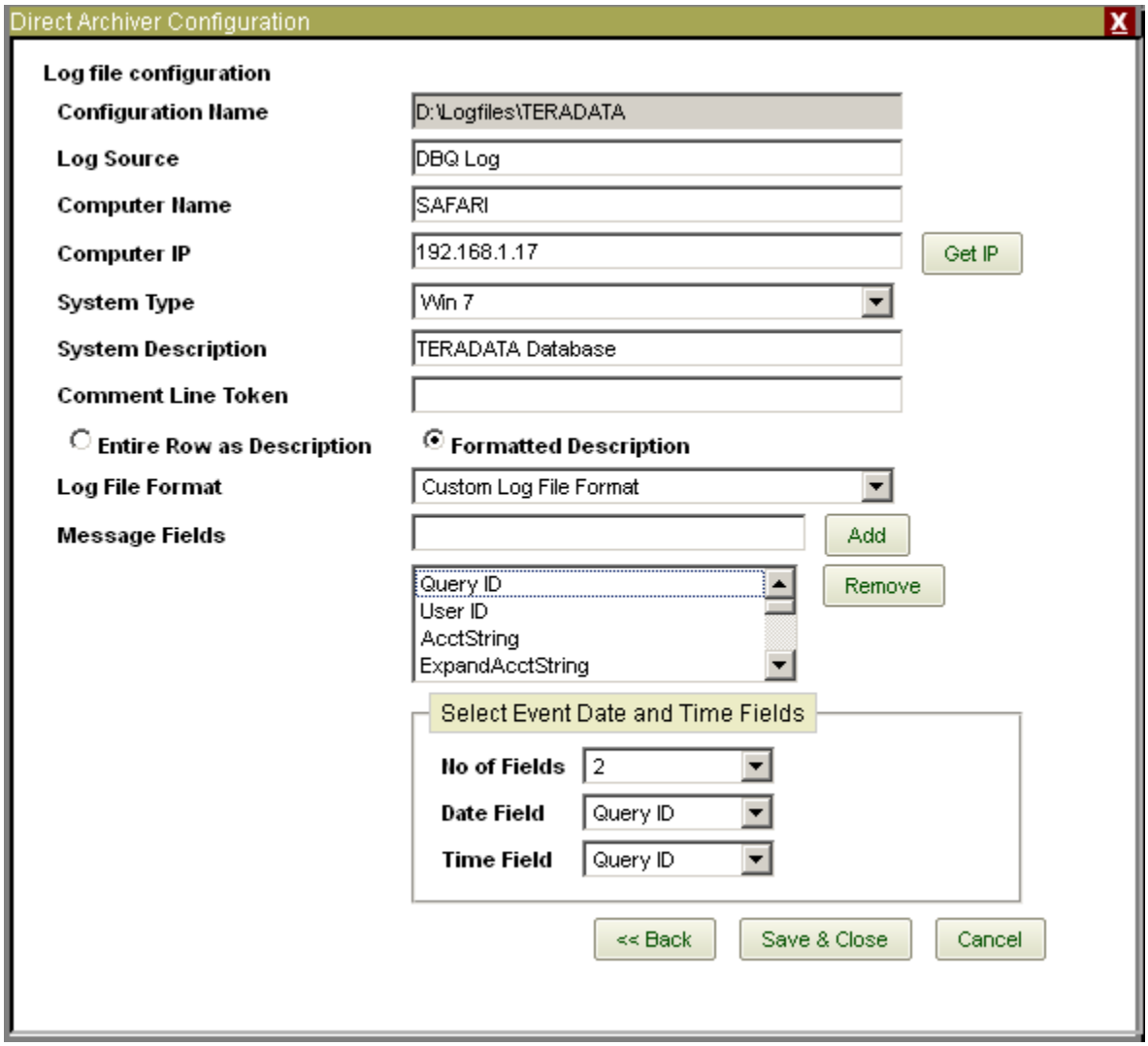


Figure 12

9. Click **Save &Close** button.

# Verify Teradata Database Server knowledge pack in EventTracker

1. Logon to Event Tracker Enterprise.
2. Click the **Admin** dropdown, and then click **Category**.
3. In the **Category Tree**, expand **Teradata** group folder to see the categories.

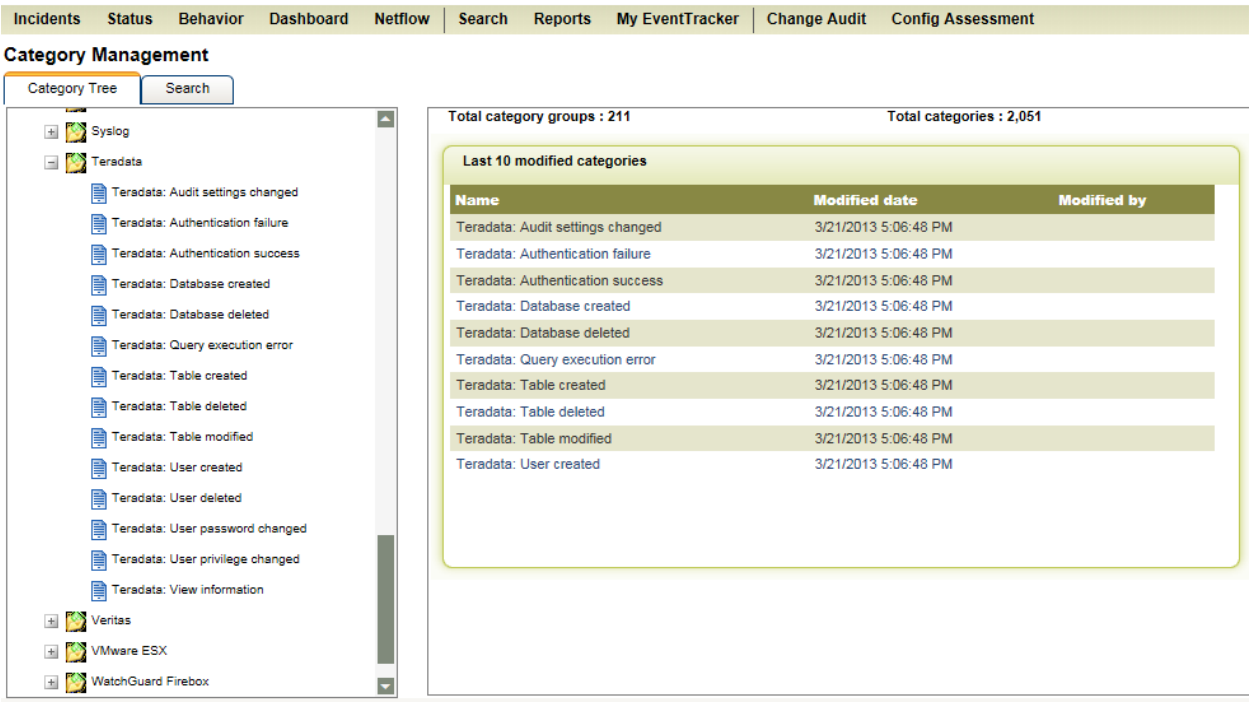


Figure 13

# Sample Analysis Report

## Teradata-Audit Setting Changes Report

### User Selection

**From Date: 12/15/2012 2:44:02 PM**

**To Date: 3/15/2013 2:44:02 PM**

**Refine: Match In Event Description = Statement Type: "Begin/End DBQL"**

**Event ID = 3230**

**Filter: None**

**Categories Selected: N/A**

**Computers Selected: TERADATADBQL-DLA**

**Description: None**

### Detail1

| LogTime | Database User | DB Account | Error Code | Error | Statement Group | Detailed Query |
|---|---|---|---|---|---|---|
| 03/12/2013 12:34:20 PM | "DBC" | "DBC" | "3725" | "Statement not allowed for an ANSI session." | "Other" | "BEGIN QUERY LOGGING ON all;" |
| 03/12/2013 12:34:20 PM | "DBC" | "DBC" | "3725" | "Statement not allowed for an ANSI session." | "Other" | "begin query logging on dbc;" |
| 03/12/2013 12:34:20 PM | "DBC" | "DBC" | "3725" | "Statement not allowed for an ANSI session." | "Other" | "begin query logging on dbc;" |
| 03/12/2013 12:34:20 PM | "DBC" | "DBC" | "3725" | "Statement not allowed for an ANSI session." | "Other" | "begin query logging on dbc;" |
| 03/12/2013 12:34:20 PM | "DBC" | "DBC" | "3725" | "Statement not allowed for an ANSI session." | "Other" | "begin query logging on dbc;" |
| 03/12/2013 12:34:20 PM | "DBC" | "DBC" | "3725" | "Statement not allowed for an ANSI session." | "Other" | "begin query logging with sql on DBC;" |
| 03/12/2013 12:34:20 PM | "DBC" | "DBC" | "3725" | "Statement not allowed for an ANSI session." | "Other" | "begin query logging with sql on all;" |

| | | | | | | |
|---|---|---|---|---|---|---|
| 03/12/2013 12:34:20 PM | "DBC" | "DBC" | "3725" | "Statement not allowed for an ANSI session." | "Other" | "begin query logging on dbc;" |
| 03/12/2013 12:34:20 PM | dbc;" | "DBC" | "3725" | "Statement not allowed for an ANSI session." | "DBC" | "begin query logging on dbc |
| 03/12/2013 12:34:20 PM | "DBC" | "DBC" | "3725" | "Statement not allowed for an ANSI session." | "Other" | "BEGIN QUERY LOGGING ON all;" |
| 03/12/2013 12:34:20 PM | "DBC" | "DBC" | "0" | "NULL" | "Other" | "begin query logging on dbc;" |
| 03/12/2013 12:34:20 PM | "DBC" | "DBC" | "3725" | "Statement not allowed for an ANSI session." | "Other" | "BEGIN QUERY LOGGING ON all;" |
| 03/12/2013 12:34:20 PM | "DBC" | "DBC" | "3725" | "Statement not allowed for an ANSI session." | "Other" | "BEGIN QUERY LOGGING WITH SQL ON ALL;" |
| 03/12/2013 12:34:20 PM | "DBC" | "DBC" | "3725" | "Statement not allowed for an ANSI session." | "Other" | "BEGIN QUERY LOGGING WITH SQL ON ALL;" |
| 03/12/2013 12:34:20 PM | "DBC" | "DBC" | "3725" | "Statement not allowed for an ANSI session." | "Other" | "Begin query logging on all;" |
| 03/12/2013 12:34:20 PM | "DBC" | "DBC" | "3725" | "Statement not allowed for an ANSI session." | "Other" | "Begin query logging on all;" |
| 03/12/2013 12:34:20 PM | "DBC" | "DBC" | "3725" | "Statement not allowed for an ANSI session." | "Other" | "begin query logging on dbc;" |
| 03/12/2013 12:34:20 PM | "DBC" | "DBC" | "3725" | "Statement not allowed for an ANSI session." | "Other" | "begin query logging on dbc;" |
| 03/12/2013 12:34:20 PM | "DBC" | "DBC" | "3725" | "Statement not allowed for an ANSI session." | "Other" | "BEGIN QUERY LOGGING ON all;" |

# Teradata Authentication Success Report

## User Selection

**From Date: 12/15/2012 2:46:31 PM**

**To Date: 3/15/2013 2:46:31 PM**

**Limit Time Range: None**

**Refine: Match In Event Description = Event: Logon**

**Event ID = 3230**

**Filter: None**

**Categories Selected: N/A**

**Computers Selected: TERADATAEVENTS-DLA**

**Description: None**

## Detail1

| LogTime | Database User | Database User ID | Authenticated User | Host Name | Database Account |
|---|---|---|---|---|---|
| 03/12/2013 12:34:17 PM | DBC | | DBC | DBC | DBC |
| 03/12/2013 12:34:17 PM | DBC | root | DBC | localhost;localhost/127.0.0.1:1025 | DBC |
| 03/12/2013 12:34:17 PM | DBC | | DBC | DBC | DBC |
| 03/12/2013 12:34:17 PM | TEST | root | TEST | localhost;localhost/127.0.0.1:1025 | DBC |
| 03/12/2013 12:34:17 PM | DBC | | DBC | DBC | DBC |
| 03/12/2013 12:34:17 PM | DBC | root | DBC | localhost;localhost/127.0.0.1:1025 | DBC |
| 03/12/2013 12:34:17 PM | DBC | | DBC | DBC | DBC |

| | | | | | |
|---|---|---|---|---|---|
| 03/12/2013 12:34:17 PM | DBC | | DBC | DBC | DBC |
| 03/12/2013 12:34:17 PM | DBC | | DBC | DBC | DBC |
| 03/12/2013 12:34:17 PM | DBC | | DBC | DBC | DBC |
| 03/12/2013 12:34:17 PM | DBC | | DBC | DBC | DBC |
| 03/12/2013 12:34:17 PM | DBC | root | DBC | localhost;localhost/127.0.0.1:1025 | DBC |
| 03/12/2013 12:34:17 PM | DBC | | DBC | DBC | DBC |
| 03/12/2013 12:34:17 PM | DBC | | DBC | DBC | DBC |
| 03/12/2013 12:34:17 PM | DBC | | DBC | DBC | DBC |
| 03/12/2013 12:34:17 PM | DBC | | DBC | DBC | DBC |
| 03/12/2013 12:34:17 PM | DBC | | DBC | DBC | DBC |
| 03/12/2013 12:34:17 PM | DBC | root | DBC | localhost;localhost/127.0.0.1:1025 | DBC |
| 03/12/2013 12:34:17 PM | DBC | root | DBC | localhost;localhost/127.0.0.1:1025 | DBC |
| 03/12/2013 12:34:17 PM | DBC | | DBC | | DBC |
| 03/12/2013 12:34:17 PM | DBC | | DBC | DBC | DBC |
| 03/12/2013 12:34:17 PM | DBC | | DBC | DBC | DBC |
| 03/12/2013 12:34:17 PM | DBC | | DBC | DBC | DBC |
| 03/12/2013 12:34:17 PM | DBC | root | DBC | localhost;localhost/127.0.0.1:1025 | DBC |
| 03/12/2013 12:34:17 PM | DBC | | DBC | DBC | DBC |
| 03/12/2013 12:34:17 PM | DBC | root | DBC | localhost;localhost/127.0.0.1:1025 | DBC |

| | | | | | |
|---|---|---|---|---|---|
| 03/12/2013 12:34:17 PM | DBC | root | DBC | localhost;localhost/127.0.0.1:1025 | DBC |
| 03/12/2013 12:34:17 PM | DBC | root | DBC | localhost;localhost/127.0.0.1:1025 | DBC |
| 03/12/2013 12:34:17 PM | DBC | | DBC | DBC | DBC |
| 03/12/2013 12:34:17 PM | DBC | | DBC | DBC | DBC |
| 03/12/2013 12:34:17 PM | DBC | | DBC | DBC | DBC |
| 03/12/2013 12:34:17 PM | DBC | | DBC | DBC | DBC |
| 03/12/2013 12:34:17 PM | DBC | | DBC | DBC | DBC |
| 03/12/2013 12:34:17 PM | DBC | root | DBC | localhost;localhost/127.0.0.1:1025 | DBC |