Teradata® Vantage 2.3.3.0 Release Summary

Teradata Vantage™ is our flagship analytic platform offering, which evolved from our industry-leading Teradata® Database. Until references in content are updated to reflect this change, the term Teradata Database is synonymous with Teradata Vantage.

Advanced SQL Engine (was NewSQL Engine) is a core capability of Teradata Vantage, based on our best-in-class Teradata Database. Advanced SQL refers to the ability to run advanced analytic functions beyond that of standard SQL.

The following lists the fixed and known issues in this release. If you experience any of the following issues, open an incident with Teradata Customer Support and include the Reference ID in your description.

Compatibility Matrix

For component compatibility information:
 1. Go to support.teradata.com.
 2. Log in.
 3. Search for KB0027406.

Key Features

The Vantage on Cloud 2.3.3.0 release includes several new features that enables improved capability and enhanced customer experience some of which are highlighted below.

Vantage on Google Cloud and Azure platform:
1. Increased number of Access Module Processor (AMP) density options for each VM instances type supported for Vantage during initial provisioning - enabling greater cost efficiency and more performance.
2. Improvements to Mainframe Connectivity Use case allowing increased throughput performance allowing for most major production customer use-cases and seamless runtime operations such as during scaling operations.

Vantage on Azure (for our major, most-preferred offering):
1. Support for very larger scale production workloads with our 128-Node Vantage on Azure systems that provide 99.9% availability SLA.
2. Improvement to our Workload Management Capacity on Demand utility for Cloud that our customers can utilize to control the utilization of our Vantage system resources and adapt its performance as per the demand of their workloads in the Cloud.
3. Support for In-place permanent System Expansion for Vantage System - with improved CPU, Memory, parallel performance as well as IO throughput.

Vantage on Google Cloud:
1. Improvements to Node Failure Recovery mechanism to improve overall availability of the Vantage system.

Fixed Issues

PDE

Reference ID	Description
PDE-17036	**Description**: The upgrade addresses the following high (CVSS >=7.0) security risks: *CVE-2007-2877 The upgrade addresses the following medium (CVSS >=4.0) security risks: *CVE-2007-6067 *CVE-2007-4769 *CVE-2007-4772 **Workaround**: N/A **Deployments**: All

Platform Services Intelligent Monitoring

Reference ID	Description
PSIM-32461	CVE-2022-21724 PostgreSQL JDBC Driver

Advanced SQL Engine

Reference ID	Description
SQLE-2578	---------------------------------TD17.10.x PDE/TVSA DRs---------------------------------
	**
	**************************** 17.10.03.09 created 02/14/2022 *********************
	**
	TVSA:
	DR 196689 Priority 2
	This DR is to remove a workaround that was needed prior to DR195861 shipping.
	PDE:
	DR 195861 Priority 2
	Typical backtrace with 5149 error during DBS startup:
	#8 0x00007ffff6b68448 suterrcx() ../../amp/sut/suterrc.c:2398 (errcode=5149)
	#9 0x00007ffff5f161ac filabort() ../../fil/fil/filabort.c:1798
	#10 0x00007ffff5f05001 fssbuildwmi() ../../fil/fss/fssbuildwmi.c:531
	#11 0x00007ffff5e74382 idxbldfsys() ../../fil/idx/idxbldfsys.c:2523
	#12 0x00007ffff5e9ed39 fsustartmainentry() ../../fil/fsu/fsustart.c:268
	DR 196575 Priority 3
	Though pnet_realloc 2 gets passed but sometimes coredump gets created.

DR 196682 Priority 2

Excessive' logging of sch_ messages in syslog/DBC.SW_Event_Log

DR 196698 Priority 2

OPNPDE: New FSG flavor FSGINFODISCARDSPOOLCIS

DR 196889 Priority 2

Page fault at tdnrfcabort+0x228/0x720

DR 196927 Priority 2

security vulnerabilities in OPNPDE component reoprted for Tcl/Tk

-------------------------------TD17.10.x CADENCE TDBMS DRs---------------------------

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**************************** 17.10.03.09 created 02/14/2022 ********************

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DR 195861 Priority 2

Typical backtrace with 5149 error during DBS startup:

#8 0x00007ffff6b68448 suterrcx() ../../amp/sut/suterrc.c:2398 (errcode=5149)

#9 0x00007ffff5f161ac filabort() ../../fil/fil/filabort.c:1798

#10 0x00007ffff5f05001 fssbuildwmi() ../../fil/fss/fssbuildwmi.c:531

#11 0x00007ffff5e74382 idxbldfsys() ../../fil/idx/idxbldfsys.c:2523

#12 0x00007ffff5e9ed39 fsustartmainentry() ../../fil/fsu/fsustart.c:268

DR 195944 Priority 2

Incorrect row count estimations, even when collecting multi columns statistics.

DR 196286 Priority 2

2509 crash loop in transaction recovery after restarting DBS while parallel

table rebuild is running in background mode with LOG INTO option.

DR 196330 Priority 2

    Incorrect size calculation causes Ferret to build Datablocks with slightly lower row-

    counts which typically leads to greater total number of DB's for the same subtable.

    Because Space Accounting necessarily includes Datablock overhead in its space

    calculations, the aditional Datablocks would cause greater PERM space requirements.

DR 196421 Priority 2

    Even after DSA job completed/failed, the phase status may shown as INPROGRESS in

    export_job_status output

DR 196553 Priority 2

    DSA restore job may get hung, show wrong job status, crash DBS with AJSE

    enabled

DR 196754 Priority 2

    Simple SELECT with TOP clause, involving STATS and UDT column (like JSON) causes error 3610.

DR 196761 Priority 2

    Database restart 10322 with 7487 Segmentation Violations snapshots due to memory corruption

    caused by left-over spool.

DR 196762 Priority 2

    In-correctly 3523 table level access right failure may occur when we need only

    column level access right when CTAS query executed and having outer join and

    subquery. And subquery contains count(*) along with expression/upper/lower in

    the select list .

DR 196798 Priority 2

    3610/pardie occurs for INS SEL query if target is child table, and SEL refers

    foreign server object.

DR 196821 Priority 2

    Execution plan with more than 32767 steps causes SegV 10416 and incorrect results

DR 196826 Priority 2

    While running rebuild in parallel mode, if there is a timing window in which the target table

header could be inserted by rebuild of worktable and then while rebuild of target table is

trying to insert the header again. Thus we will get ERRFILDUPROWID(5005- A duplicate row-id has

been detected) error along with DBS restart.

DR 196828 Priority 2

    System is hung due to group subsystem resource leakage for spare map tables.

DR 196839 Priority 2

    When using a profile where password maxchar < minchar, modify user (no password option

    specified) or modify database commands fail with 5654 error.

DR 196852 Priority 2

    SESSION_TOKEN value of create/replace authorization statement is visible in DBQL

logs. It should actually be masked like password for create user.

    There are 4 problems with the current DR.

    Case#1 : SESSION_TOKEN is not masked for Create/Replace Authorization SQL Statement.

    Case#2 : For READ_NOS Table operator SESSION_TOKEN is not masked whenever

        SESSION_TOKEN NVP is given with READ_NOS.

    Case#3 : For WRITE_NOS Table operator ACCESS_KEY and SESSION_TOKEN is not masked

        whenever they are provided as NVP.

    Case#4 : For READ_NOS/WRITE_NOS Table operator ACCESS_KEY and SESSION_TOKEN is not

        masked whenever AUTHORIZATION details are provided as JSON string.

DR 196854 Priority 2

>DR 196854 Priority 2

We could see the 5016 restart, if TabHdr in mgctbhdrf5() is not initialized properly.

DR 196859 Priority 1

SQL involving

1.Join between PPI tables tables on PI-columns

2.NUSI access path for left table

3.sliding window inclusive merge join

may cause incorrect results.

DR 196872 Priority 2

Query failing with 3610 when Session_token is not part of authorization.

DR 196874 Priority 2

Error 3704 may get for the following cases.

>> View/Macro created with foreign table operator function and subquery of

foreign table operator contains horizontal tab(\t).

>> select/execute on view/macro run for the above created view/macro.

>> system is kanji enabled and having Unicode charset.

>> view created through SQLA/JDBC .

DR 196887 Priority 1

Incorrect results or SegV may happen for select on CP table with VLC aware bulk evaluation.

DR 196892 Priority 2

GIVE query fails with Error 9932 if

1. FROM and TO are in same zone.

2. FROM Database has any child DB and in same zone

DR 196917 Priority 2

Update logback-classic-1.2.2.jar and logack-core-1.2.2.jar to 1.2.10 versions

| SQLE-2160 | **Description**: The upgrade addresses the following high (CVSS >=7.0) security risks:
* CVE-2021-42550
Workaround: N/A
Deployments: All |

Telemetry Collection and Analytics

Reference ID	Description
TCAWORK-4156	Remediated CVE-2021-28165 by upgrading the Jetty version in TCA.

Known Issues

Viewpoint DSA Development

Reference ID	Description
VPDSA-758 (AWS)	On viewpoint upgrade, bar portlet rpm is not automatically deployed.
VPDSA-757 (GC)	On viewpoint upgrade, bar portlet rpm is not automatically deployed.