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Teradata® Vantage 2.2 Release Summary

Deployment Platforms: Teradata Vantage on AWS
Teradata Vantage on Azure
Teradata Vantage on IntelliFlex™

January 2021

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

Vantage on AWS/Azure/IFX 2.2.0.0 contains the following:

• New WRITE_OS table operator providing users the ability to directly write to object stores

Fixed Issues

Advanced SQL Engine

Reference ID	Description
SQLE-847	----------------------------TD17.05.00.00 OPNPDE-TVSA DRs-------------------- *** **************************** 17.05.00.00 created 10/12/20 ************************ *** OPNPDE: DR 194167 Priority 2 MergeArrayFreeMrgContext() function frees the allocated kernel memory using syskmemfree(), which intern calls vfree() to release vmalloc memory. Flood of these free requests from sleep able context creating the situation. DR 194251 Priority 2 start with debug test case in file sysdbgcmds.exp script of sdtplus test suite fails because dbs was not up within the expected timeout. DR 194257 Priority 2 Observed that set prompt test case was incorrectly passed before the prompt appeared.So,whenever the prompt did not appear before the next test case started executing it caused the next test case to fail. DR 194260 Priority 2 OPNPDE: Softlockup panic during huge page locking. DR 194285 Priority 2 Reshog GSCTOOLS parses "puma -T -A -I" command output for CPU and IO usage and it presents some overhead to run it. DR 194314 Priority 2 Database Node Panic in sch_boost_active with schstat EXTENDEDSTATS enabled DR 194320 Priority 2 Sometimes test case 0210 failing with timeout issues DR 194326 Priority 2 If rssdip.bteq file has 2 alter statements for ResUsuage tables and if the 1st ALTER succeeded and the 2nd ALTER failed for some reason, then running of DIPRUM will fail with 5628 error. DR 194371 Priority 3 Intermittent failure in SLG test with below error: Tests report "No PDE state found"

DR 194553 Priority 2

PSF CPU HL leads to Java UDF hang

DR 194560 Priority 2

TPA got restarted with 10121 event as tpasuspend got signal 12

DR 194569 Priority 2

Issue #1

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Add missing RSS metrics to opnpde for Write_NOS.

Issue #2

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TIME/TIMESTAMP precision value in Parquet Foreign Table is less than the precision value written to Parquet. Originally, decimal values would just get truncated to fit the Foreign Table, but after fix will return error.

Issue #3

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Additional changes for DBScontrol NOS fields 7-10.

Issue #4

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Increase the limit of input row size from 16,000,000 to 16,776,192 to match with the read side.

DR 194570 Priority 2

FD leaks in tpasuspend causing failure in subsequent file open operations.

TVSA:

DR 193769 Priority 2

We hit a segfault in ElasticTCoreAccess on startup, when elastic Tcore package are installed on a non-IFX system.

DR 194453 Priority 3

Devices with long name not display correctly in tvam.

DR 194470 Priority 2

After a node failed on Wells Fargo's system, the HSN was unable to join the configuration.

DR 194499 Priority 2

Causes I/O errors, FATAL vprocs, and the system going to DOWN/HARDSTOP during Teradata startup.

 ---------------------------TD17.05.00.00 TDGSS/teragssAdmin DRs--------------------

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 *************************** 17.05.00.00 created 10/12/20 ***********************

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DR 194130 Priority 2

Change Artifactory JSON template and Clearcase config spec for OpenSSL to 1.1.1g for server

DR 194567 Priority 3

Certlink is failing when integrating ldaps because the tool is using PDE perl and there is no PDE on Unity's system.

DR 194716 Priority 2

License files are missed in TDGSS package during build in GIT for 17.10 and 17.0.

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---------------------------TD17.05.00.00 TDBMS DRs-------------------------------
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**************************** 17.05.00.00 created 10/12/20 ************************
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DR 193724 Priority 2
The post_data_restore script reports a 3807 Object 'SystemFE.CDS_Exclusions' does not exist error during a migration from a pre-16.20.32.21 version to 16.20.32.21 or later using ARC.
DR 194476 Priority 2
Restart loop due to CI/CID mismatches during Fsys startup with SNAPMI feature enabled.
DR 194645 Priority 2
select query having From_Bytes() will never completes and aborting that session will be in aborting state, when below condition met-
1. From_Bytes() input column/string datatype is BLOB and it contains data > 65,535 bytes.
2. out_encoding is used as 'ASCII' or 'Base64M'.

DR 194649 Priority 2
DSA restore job may cause error 10808 during DSA checkpoint processing
DR 194694 Priority 2
Whenever a query needs multiple access rights and also needs a constraint access. If any of the access-rights checks got failed, the correct error will not be reported. Only Failure 5611 The user does not have CONSTRAINT ASSIGNMENT right will be reported even thought the user has the constraint access.
DR 194703 Priority 2
The node on which DSMAIN listener is running, over the time with running DSA jobs, most of the memory will be consumed by DSMAIN listener.
DR 194717 Priority 2 If there are many SJIs on the source systems, migration will take time in post script as SJIs are recreated during post script phase.
DR 194723 Priority 2
TDWM settings are not applicable when TASM is disabled on the system. So, max parallel build option is not applicable when TASM is disabled.
DR 194724 Priority 2
With ALTER Table MAP and TBBLC as FALSE, we do not generate and redistribute HeatMAP which may affect the DATA Temperature.
DR 194729 Priority 2 User installed scripts not running when secure zones is enabled.
DR 194733 Priority 1 Wrong result could happen for query with conditions on DATE column and using EXTRACT, and a join index with conditions on DATE column is picked.

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--------------------------------TD17.05.00.00 TCHN DRs----------------------------
*********************************************************************************
**************************** 17.05.00.00 created 10/12/20 ************************
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```

DR 194718 Priority 2
TCHN-40 : failure to handle short writev()
DR 194719 Priority 2
TCHN-38: Bteq Export regression introduced after applying the fix for DR 190384

Operating Systems

Reference ID	Description
OSEDEV-10796	Dynaswap can enter a CPU bound loop which locks out handling of softirq kernal threads. This can result in Lost IO panics and ethernet driver timeouts. **Deployments**: All

Server Management Software

Reference ID	Description
SM-30807	CVE-2020-26217 Xstream
SM-30701	CVE-2017-7525 & CVE-2017-16085 Jackson-databind

Known Issues

Multi-tenant Ecosystem

Reference ID	Description
ECS-3264	**Description**: Syntax error returned by File Upload **Workaround**: Ensure the database and table names do not have protected characters (e.g. -) and do not start with numerals. **Deployments**: All
ECS-3263	**Description**: Incorrect error message thrown when the endpoint is to a valid system but an invalid database **Workaround**: When receiving this error, verify whether the database has adequate space and if necessary expand the database capacity. **Deployments**: All

Native Object Store

Reference ID	Description
NOS-5473	**Description**: All AMP WRITE NOS query on Row Table is treated as group-AMP query and TDWMAllAmpFlag is updated as NULL. This will cause TASM to incorrectly classify these queries as non ALL AMP. **Workaround**: There are two ways to workaround the issue by either using a system throttle or workload. Please see Knowledge Article KB0036037. **Platform**: 17.05 Write NOS
NOS-4929	**Description**: WRITE_NOS: Observed error in function WRITE_NOS: UnknownERROR When using Ceph storage, it is possible for the server to be overloaded causing the UnknownError to be returned. **Workaround**: Check Ceph storage for degraded status and fix the degraded issue. Reducing the load on the storage may also help. Lastly, if available, upgrading to a later version of the NOS connector package may also help resolve the issue. **Platform**: 17.05 Write NOS with Ceph storage

Advanced SQL Engine Analytic Functions

Reference ID	Description
TDAF-4433	**Description**: Text Field Analyzer parameter 'extendedunicodeanalysis' is ignored and the Unicode Analysis Matrix is not created. **Workaround**: None. **Platform**: All
TDAF-4423	**Description**: If 'scoreandevaluate' option is used when scoring a single node decision tree you may get a null pointer exception. **Workaround**: When scoring a decision tree, just use score or evaluate instead of score and evaluate, or build a more complex model. **Platform**: All
TDAF-4422	**Description**: Decision Tree fails with null pointer exception when dependent variable has null values. **Workaround**: Remove null values, possibly with Variable Transformation, creating a new input table. **Platform**: All

Teradata AppCenter

Reference ID	Description
UDAPP-9765	Rook alerts are getting fired on a system that does not have rook
UDAPP-8972	AppCenter App-service has code to retrieve encryption/decryption key form consul. But the call to consul goes over HTTP. Coverity has recently marked it as high impact and is fixed in AppCenter 2.x
UDAPP-8661	**Description**: Customer will need to delete the malformed prometheus data to resolve errors in thanos compactor **Workaround**: Remove the corrupted blocks and restart thanos compactor.
UDAPP-8648	**Description**: Ambassador needs to be restarted once new certificates are installed. This issue is intermittent. **Workaround**: Restart ambassador pods, only If the the browser does not show updated certificates after install.
UDAPP-8270	**Description**: Scheduled and Manual backups fail if Postgres data size is very large. If node does not have twice the space that Postgres has, backup fails with OOM or Pod Evicted. **Workaround**: Free up space in /var/lib/docker mount on machine where backup pods run. The space in this folder must be twice the size of the Postgres data.
UDAPP-7192	**Description**: Service accounts in AppCenter are not backed up by Scheduled or Manual backup. **Workaround**: Manually recreate all service accounts in AppCenter after restore.