Teradata® Vantage 2.1 Release Summary

Deployment Platform: Teradata Vantage on Google Cloud

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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. Login
3. Search for KB0033995

Key Features

The global Vantage on Google Cloud 2.1 release includes highly anticipated features such as Native Object Store (NOS) support for Google Cloud Storage (GCS) that enable customers to derive immediate value from lower cost object store hosted CSV, JSON, and Parquet formatted data.

Key Features:

- Delivered as-a-service so that customers can focus on answers instead of managing the underlying infrastructure
- Advanced SQL Engine 17.00 with read-only NOS support for Google Cloud Storage (GCS)
- 99.9% availability SLA for the Advanced SQL Engine (up to 128 virtual machines)
- Global availability in the United States, Canada, United Kingdom, Germany, and Australia
- Virtual Private Network (VPN) connectivity with support of up to 3 Gbps per VPN tunnel (up to 30)
- Virtual Private Cloud (VPC) Network Peering with one or more customer VPCs
- Google Cloud Interconnect support via VPC Network Peering
- Viewpoint 16.50 for efficient management and monitoring of Vantage
- REST API endpoints for Vantage querying and triggering of scaling operations
- Add Vantage TCore with Scale Out/In, Up/Down, and control costs with Stop/Start
- QueryGrid 2.13 support for Teradata, Hive, and Spark Connectors
- Support for additional Teradata applications: Data Mover 17.00 and Data Lab 16.50
- Teradata Tools and Utilities (TTU) 17.00
- Teradata Parallel Transporter (TPT) Access Module for GCS (delivered with TTU)
- Teradata Connector for Hadoop (TDCH) support for Google Cloud Dataproc (Managed Hadoop and Spark)
- Automated backups with support for full, incremental, and partial conventional backups
- Console provides self-service and a single pane of glass for scaling, availability, metering and utilization charts across public cloud platforms
- Seamless elasticity with Elastic Performance on Demand (EPOD)
- Built to meet PCI DSS, SOC 1/2, ISO-27001 standards
- Helps customers meet privacy standard obligations such as GDPR, CCPA, and PIPEDA
- Column-level encryption and tokenization through a third-party partner

Fixed Issues

Server Management Software

Reference ID	Description
SM-30634	CVE-2020-11998 Apache ActiveMQ
SM-30151	CVE-2020-13692 PostgreSQL JDBC Driver
SM-29897	Address CVE-2020-1941 security risk **Workaround**: CMIC is a closed system and does not allow outside software to run on it. External access to the host OS is very controlled to specific IP addresses/users. **Deployments**: All
SM-29896	Address CVE-2020-9488 security risk **Workaround**: CMIC is a closed system and does not allow outside software to run on it. External access to the host OS is very controlled to specific IP addresses/users. **Deployments**: All

Known Issues

Teradata Data Migration

Reference ID	Description
TDM-6081	**Description**: Data Migration speed for large migrations could be paced by certain network limitations on Google Cloud Platform itself. **Workaround**: To minimize system downtimes during migration, instead of migrating large systems in one go, you may look into using alternate approaches like selective migrations in multiple sessions. Our Onboarding Specialists can provide customized solutions for you that will best suit your unique situation. Please consult your Onboarding Specialist to discuss your specific scenario. **Deployments**: Google Cloud

Vantage on Google Cloud

Reference ID	Description
GCP-1675	**Description**: Open issue regarding tactical query throughput when running mixed DSS, Tactical and NOS based workloads. The issue is being investigated. **Workaround**: Mitigation actions will be provided if and when available **Deployments**: Google Cloud

GCP-1602	**Description**: Initial Active Data Warehousing (ADW) testing that combines simple Single- and Multi-AMP Tactical queries with traditional Decision Support (DSS) type of queries has shown a greater percentage of Tactical queries that are considered outliers. 99.6% of the tactical queries complete in less than 1 second, but there are a significant number of queries that are taking longer than 30 seconds to complete. These are the outliers of concern. There are TASM rules limiting the DSS queries, but the IO associated with the DSS workload is still saturating the system. It is theorized that this is not allowing the Tactical queries to run without interference and is the source of the outliers. Testing is in progress to investigate the cause and propose appropriate corrections and mitigations. **Workaround**: Mitigation actions will be provided if and when available **Deployments**: Google Cloud
GCP-1585	**Description**: Backup jobs are failing when foreign tables with authorization are present. **Workaround**: If the customer uses the Invoker type Authorization object for using NOS then backups for the database may fail. It is advised the customer only uses Definer type NOS Authorization object. **Deployments**: Azure, AWS, IFX, VMware, Google Cloud.