

Most Enterprises Think Their Data is Protected. It's Not. Teradata Can Help.

Expert Protection for Enterprise Data

The cloud has revolutionized how organizations gather, store, process, manage, and get value from their data. Enterprises want cloud-native as-a-service offerings, yet executives may also have anxiety about entrusting IT resources and administration to a partner.

Relax. Teradata is on top of it. We recognize and respect these concerns. In fact, we treat security as the number one priority for all Teradata Vantage in the Cloud offerings. We employ industry best practices and empower an experienced team of cloud, security, and database experts to keep threats at bay.

As-a-Service Delivery

The Teradata Cloud Operations team manages performance, security, availability, and operations of customers' Vantage in the Cloud environments. The primary benefit for customers is that internal teams can focus on answers, not IT. Attributes include:

Security		Provides peace of mind via encryption, audited compliance, and other robust security controls
Consistency		Uses the same Vantage software deployed everywhere
Scalability		Delivers the ability to quickly adjust performance and cost as needed
Transparency		Simplifies budgeting via predictable prices and no hidden fees

Teradata Cloud Operations does not have visibility or access to customer data – nor is customer data ever transferred across country borders.

Strict Access Control

As part of our strict access control policy, Teradata assigns a risk designation to every Cloud Operations position and establishes screening criteria for individuals. They include:

- Administrator logging
- Background checks
- Codes of conduct
- Confidentiality agreements

The Cloud Operations team also enforces password complexity, stores and transmits only encrypted password representations, and sets minimum and maximum lifetime restrictions on those passwords. All remote access is encrypted using FIPS 140-2 validated cryptographic modules. Multi-Factor Authentication (MFA) is required for any remote administrative access.

Active Directory Authentication

Each Vantage in the Cloud environment is Lightweight Directory Access Protocol (LDAP)-ready. Alternatively, customers may choose to use Kerberos single sign-on (SSO) database authentication, Federated Services SSO configurable with MFA for authentication into the database, or the Cloud Active Directory to authenticate users. When using LDAP, users must be created in Vantage with usernames that match domain/directory usernames.

Vantage in the Cloud Uses Single-Tenant Subscriptions

- Cloud resources are not shared with other customers
- Helps with security, performance, and reliability

Vantage User Roles

The Vantage platform and data stored in as-a-service systems are accessible only by individual user IDs that are assigned to each customer's designated users. User IDs and role membership are two key methods for securing customers' data within the platform. Vantage role-based access control (RBAC) can also provide fine-grained access using built-in Teradata Secure Zones and Row/Column Level Security.

Two-Tiered Defense Plan

Vantage in the Cloud includes two layers of network security. The first layer consists of ingress and egress filtering control lists applied to internet border gateway routers. These lists are configured as "deny-by default" and strictly limit connectivity to whitelisted IPs. Enterprise-grade application firewalls make up the second layer of defense.

Teradata also configures network connections to terminate at cloud firewalls and sets Access Control Lists (ACLs) to define which traffic may be transported across tunnels, and which may be encrypted. Any traffic not matching an "approved traffic" ACL is blocked.

Strong Data Encryption

All customer data is encrypted at rest on storage array drives and cloud object stores. For data in motion, Teradata can enable encryption for all network and client/server connectivity. Enhanced security options allow row and column encryption.

Open-Source Security Policy

Teradata Cloud Operations maintains an Open-Source Security Policy that is reviewed annually. A list of all code libraries required for execution is identified and a report of all entries in the National Vulnerability Database (NVD) for the software is provided. The availability of patches for all Moderate, Critical, and High-Risk vulnerabilities identified in the NVD report is documented, and these patches are applied to the software.

Vigilant Security Monitoring

To facilitate detection of cyberattacks and policy violations, the security monitoring process intelligently scans for, collects, and correlates relevant security events. Network devices such as border gateway routers and firewalls send intrusion events to the Security Information and Event Monitoring (SIEM) system, which is calibrated to respond according to the type of event detected.

Audited Compliance for Peace of Mind

The delivery architecture for Vantage in the Cloud is designed to comply with rigorous multi-national standards. These offers are audited periodically for compliance with important standards, including:



HIPAA: Health Insurance Portability and Accountability Act



ISO/IEC 27001: International Standards Organization Information Security Management System (ISMS)



PCI: Payment Card Industry



SOC 1 and 2: Service Organization Controls

Such audits help customers meet their associated privacy responsibilities such as the California Consumer Protection Act (CCPA) and General Data Protection Regulation (GDPR).

About Teradata

Teradata is the connected multi-cloud data platform for enterprise analytics, solving data challenges from start to scale. Our industry-leading platform helps organizations turn data into their greatest asset, unlocking value and effectively delivering business outcomes. See how at [Teradata.com](https://www.teradata.com).

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