



Dremio Cloud Next Gen

Shared Responsibility Model

Dremio Cloud Next Generation operates on a shared responsibility model to ensure an optimal customer experience and mutual partnership.

This Shared Responsibility Model provides customers with a robust data lakehouse platform while alleviating their operational burden, as Dremio operates and manages the environment.

This document:

- Summarizes the shared responsibility model to help better understand how to configure the Dremio environment for optimal operation.
- Details areas of ownership between Dremio and the customer in creating a production, enterprise-grade environment.

Please refer to the [Dremio documentation](#) and resources below for additional information. Dremio also offers a range of virtual and instructor-led training courses, as well as other educational resources. Contact your Dremio representative for further details.

Area	Dremio Responsibility	Customer Responsibility
Platform	Platform Services - Secure the Dremio platform. - Harden deployed images and operating systems. Maintain the platform with updated software and images. Managed Resources - Securely deploy and terminate Dremio-managed systems. - Track security configurations against industry standard baselines.	Customer Data and Systems - For any customer-provided storage and integrated sources, manage configurations, administration, subscriptions, and security. Adoption - Ensure use cases comply with documented service limits. Ensure datasets comply with supported file limits. - Integrate third-party services and clients using Dremio's REST API or other supported endpoints.
Network Connectivity	Network Communications - Deploy cloud security groups to isolate workloads and enhance security. - Use secure defaults for network access controls and security groups. - Network data transfers are end-to-end encrypted using TLS 1.2 or higher.	Data Access - Create or provide network resources as required for Dremio to access the Project/Catalog Store and Data sources. - Follow cloud provider best practices when creating and managing required networks, such as those from AWS and Azure. - Manage the security, bandwidth, and performance of networks connecting to Dremio.
Identity	Dremio Operations - Authenticate Dremio Cloud Next Gen personnel using industry best practices. Identity Management - Support industry-standard authentication and Single Sign-On (SSO) services, including OAuth 2.0 / OpenID Connect.	Identity Management - Configure integrated authentication (Active Directory or OpenID Connect) to centrally manage user accounts with strong password policies and SSO/multi-factor authentication (MFA). - Enable System for Cross-domain Identity Management (SCIM) with the Identity Provider (IDP). - Configure SSO IP allow lists to limit IDP access to Dremio and other authorized applications. - Apply the least-privilege principle to cross-account Identity and Access Management (IAM) roles, such as access to any customer-provided project store.

Area	Dremio Responsibility	Customer Responsibility
Access Control	Dremio Operations - Define Dremio operations employee privileges in a manner consistent with the principle of least privilege. - Limit access to systems processing customer data to employees with roles that warrant access. - Secure storage and policy enforcement of secrets scope. - Perform quarterly access reviews to maintain minimal access posture. Access Management - Provide role-based access privileges and data access policies to manage access to data and platform features with fine granularity.	Access Management - Manage users and roles, including the admin role. - Implement access management best practices, including regular user access audits, at least every 6 months.
Data	Data Security - Transmit customer content using TLS 1.2 or higher between the customer client and the Dremio platform. - Encrypt customer data at rest using AES-256-bit equivalent or higher. Data Access - Provide role-based access privileges and data access policies to manage access. Open Catalog - Provide an integrated lakehouse management catalog based on the Iceberg REST Catalog specification and Apache Polaris. Automatically optimize Iceberg tables in Open Catalog.	Data Governance - Utilize Dremio's role-based access control and data access policies to limit sensitive data access according to the least privilege principle. - Revise roles, policies, privileges, and dataset ownership with user onboarding and offboarding. - Construct an AI semantic layer following Dremio's best practices, including layer views into sub-layers, use roles for directory and dataset access, and leverage labels and wiki for dataset information. - Follow best practices in creating and using Iceberg, Delta Lake, and Parquet-based datasets. Data Security - Deploy and manage customer-owned encryption keys.

Area	Dremio Responsibility	Customer Responsibility
Jobs & Query Execution	Engine Autoscaling - Automatically scale engines based on the customer's configuration parameters. Engine replicas are started and stopped as needed, based on monitoring query load and engine replica health of the engine replicas. Query Management - Show a consolidated view of jobs and job details, configurable to include a variety of job states and statuses. - Provide job routing configurations to determine which engine to use for a given query. - Include a query profile for each query showing a runtime breakdown, reflections used, and other query performance information.	Engine Management - Apply workload management rules and engine configurations to provide all jobs and job types with appropriately sized and configured engines. Many workloads include extremely high-cost queries and significant workload variance; plan for these queries in engines and routing configurations. - Periodically ensure engines and workload routing rules are appropriate for query workloads. Query Management - Periodically review query performance and take action to improve performance. Use Dremio raw or visual profiles to understand runtime behavior and pinpoint bottlenecks. - Utilize the Dremio job overview and raw, and visual profiles to understand performance factors.
Metadata	Metadata Configuration Enable data source configuration of metadata collection and refresh.	Metadata Management - Periodically optimize the metadata refresh process. Define and tune engines, routing configurations, and refresh rates appropriate for the metadata refresh workload. - Configure metadata expiration to minimize inline metadata refresh due to potential negative query performance impact. - Refresh metadata on demand using Dremio SQL commands when required.
Reflections	Reflection Definition - A reflection is an optimized materialization of source data or a query, similar to a materialized view. - Dremio's query optimizer can accelerate queries against tables or views by using one or more reflections to partially or entirely satisfy the query, rather than processing the raw data in the underlying data source. - Create and manage reflections autonomously based on query workloads from qualifying sources.	Manual Reflection Management - Create manual reflections for non-qualifying sources. - Utilize best practices in managing the lifecycle of manually created reflections.

Area	Dremio Responsibility	Customer Responsibility
Monitoring	Security Monitoring • Deploy security detection capabilities, including those provided natively by cloud service providers. • Maintain an intrusion detection system across computing resources. • Implement an incident response framework to manage and mitigate the impact of unplanned security events. • Notify customers of security breaches in accordance with data protection laws and customer agreements. Audit & Query History • Generate an audit and query history that tracks the platform; make history available through system tables.	Query & Audit History • Periodically review workload sizes, characteristics, and historical trends; configure any required changes in engine resources or routing configuration.
Availability	Platform Availability • Maintain the availability and security of the Dremio platform. • Provide continuous service status on status.dremio.com, including customer notifications of service interruptions. For further information, see the Dremio Cloud Next Gen Terms of Service. Disaster Recovery • Provide resilience to zonal failures for the Dremio platform compute and services. • Review Business Continuity and Disaster Recovery plans annually; conduct Business Continuity and Disaster Recovery drills annually. • Conduct periodic backups of the Dremio platform, configuration, and metadata.	Disaster Recovery • Customers requiring backup, high availability (HA), or disaster recovery (DR) capabilities for data and other customer-owned resources should use customer-provided storage and implement appropriate processes for those resources.

Area	Dremio Responsibility	Customer Responsibility
Platform Security	Vulnerability Management • Maintain a vulnerability management program, as outlined in the Dremio Vulnerability Management Policy. • Publish an updated list of security fixes and responses to security vulnerabilities impacting Dremio through the supply chain under the Dremio Cloud Next Gen Changelog. Application Security • Follow the Secure Software Development Lifecycle and utilize tooling to detect vulnerabilities, including Static Analysis and Security Tooling (SAST), open source software scanning, and AML scanning. • Conduct third-party penetration tests at least annually. • Periodically review cryptographic standards to select and update technologies and ciphers per assessed risk and market acceptance of new standards. Service Management • Build and manage infrastructure using infrastructure as code. The cloud production infrastructure is regularly monitored for compliance violations and security anti-patterns using Cloud Infrastructure Security Posture Management (CISPM).	Operational Best Practices • Minimize the number of Dremio administrators; grant selected workgroup users the Dremio administrative privileges required by workgroup teams. Additional admin information is available in the support knowledge base.
Compliance	Standards & Compliance • Maintain independent third-party audits, standards, and certifications of compliance: ◦ ISO 27001 ◦ SOC 2 Type II ◦ HIPAA • Adhere to privacy regulations such as GDPR and CCPA.	Adherence to Standards • When processing sensitive data such as PII or PHI, adhere to relevant privacy regulations, including the GDPR, CCPA, or HIPAA. • Comply with applicable laws and regulations.