SNOWFLAKE SECURITY

TWO-DAY COURSE

26B12

OVERVIEW

Snowflake Security is a two-day, hands-on, instructor-led course that teaches you how to design, implement, and operate a secure Snowflake environment at scale. Through lectures, guided demos, and practical labs, you'll build a defense-in-depth approach across identity, access, and monitoring, using native Snowflake capabilities and recommended best practices.

ACQUIRED SKILLS

- Implement least-privilege role-based access control (RBAC) with secure role hierarchies and grant patterns.
- Integrate enterprise identity (SSO/MFA) and automate user/role lifecycle via System for Cross-domain Identity Management (SCIM).
- Enforce network security for data ingress/egress, including network policies, private connectivity, and secure stages/Snowpipe.
- Build monitoring and audit workflows using Access History/ACCOUNT_USAGE with alerts and operational procedures.

WHO SHOULD ATTEND

- Security Engineers
- Data Platform Engineers
- Data Architects
- Snowflake Administrators

PREREQUISITES

- Recommended completion of the "Snowflake Multi-Factor Authentication (MFA) Essentials" free on-demand course.
- Completion of "Snowflake Foundations" one-day course or equivalent Snowflake knowledge.
- Working knowledge of SQL and basic Snowflake objects (databases, schemas, roles).
- Familiarity with enterprise identity (SSO/MFA) concepts is helpful.
- Experience with enterprise cloud solutions is beneficial.

DELIVERY FORMAT

Instructor-led Public or Private classes are available.

TOPICS COVERED

Security Overview

- Snowflake Security Architecture
- Security Mindset
- Key Security Elements: Separation of Duty and Least Privilege

Authentication

- Security Integrations
- Authentication Methods
- Workload Identity Federation
- Authentication Policies
- Multi-factor Authentication (MFA)
- Password Policies
- User Management Lifecycle
- Federated Authentication

Authorization

- Role-based Access Control (RBAC)
- Role Hierarchy
- Role Types
- Database Roles
- Application Roles
- Organization Users
- User-based Access Control (UBAC)
- Managed Access Schemas

Data Governance Security Policies: Configuration and Deployment

- Row Access Policies
- Data Masking Policies
- Projection Policies
- Data Governance Policy Deployment Strategies: Centralized vs. Decentralized
- Agile Data Management and Security Policies

Access

- Network Access
- Snowflake-managed Network Rules
- Private Connectivity
- External Access
- Connectors and Snowpipe

Data Security

- Encryption
- Snowflake Backups
- Limiting Data Exfiltration
- Data Retention and Lifecycle
- Storage Lifecycle Policies

Auditing and Compliance

- Data Compliance Policies Overview
- Trust Center
- Auditing Access History
- Traces and Logs
- Exporting Logs (for SIEM Tools)

Snowflake Offering-Specific Considerations

- Secrets
- Cortex AI

Snowflake Security Tooling