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SnowPro Advanced Certification Training: Administrator

5 days (35 hours)

Overview

SnowPro Advanced: Administrator prepares you to master Snowflake administration, warehouse management, resource monitoring, and access controls in a demanding production environment. You'll develop the essential skills needed to manage costs, secure operations, and ensure the reliability of the platform.

This SnowPro Advanced: Administrator training course allows you to go beyond the fundamentals to address advanced topics related to operating a Snowflake account. You'll delve deeper into the administration, monitoring, and optimization mechanisms required for a professional environment.

You will learn how to configure and govern virtual warehouses, set up resource monitors, manage privileges, monitor usage, and apply best practices for operational management. The goal is to make you self-sufficient in using the key Snowflake administration tools.

By the end of the training, you will be able to better control credit consumption, organize access, manage computing resources, and prepare a more robust environment for business and analytical use cases.

This training also covers useful practices for preparing for the SnowPro Advanced: Administrator exam, with an approach focused on real-world use cases, practical operations, and sustainable skill development.

Like all our training courses, this one will introduce you to **the latest stable version** of the technology and its new features.

Objectives

- Understand the Snowflake administration architecture and the responsibilities of the ACCOUNTADMIN role.
- Manage virtual warehouses and master their activation, monitoring, and sizing.
- Set up resource monitors to control credit consumption and reduce cost overruns.
- Administer privileges, roles, and access as part of operational governance.
- Use monitoring views and commands to analyze account usage, resources, and status.
- Effectively prepare for the SnowPro Advanced: Administrator exam through targeted practical exercises.

Target Audience

- Snowflake Administrator
- Data Platform Administrator
- Data Engineer
- Cloud Data Architect
- BI Manager

Prerequisites

- Proficiency in the fundamentals of Snowflake and its main objects.
- Knowledge of SQL administration and role management concepts.
- Previous experience with virtual warehouses and query execution.
- Understanding of access governance and cost monitoring principles.
- Experience working with a cloud data environment in a professional setting.

Technical Prerequisites

- A recent computer with sufficient memory to comfortably run Snowflake and a modern browser.
- A stable Wi-Fi or Ethernet connection for accessing the console and exercises.
- An up-to-date browser, such as Chrome, Edge, or Firefox.
- A microphone and headset if the training is being taken remotely.
- Access to a Snowflake training environment or a demo account, if provided by the training provider.

Curriculum for our SnowPro Advanced Certification: Administrator training

[Day 1 - Morning]

Fundamentals of Snowflake Administration

- Review of the Snowflake service model and an administrator's responsibilities.
- Overview of operational objects, accounts, roles, warehouses, and associated resources.
- Exploration of governance, security, costs, and availability in an advanced context.
- Understanding the scope covered by the SnowPro Advanced: Administrator certification.
- Identifying basic commands and views useful for managing the account.
- Hands-on workshop: mapping the architecture of a Snowflake account and linking each object to its operational use.

[Day 1 - Afternoon]

Accounts, Roles, and Access

- Analysis of the role-based access control model.
- Distinguishing between system roles, custom roles, and administrative delegations.
- Managing privileges on administrative objects and computing resources.
- Best practices for limiting excessive access and securing sensitive operations.
- Understanding the operational impacts of improper privilege assignment.
- Hands-on workshop: Designing a role hierarchy and assigning the necessary privileges to multiple administrative profiles.

[Day 2 - Morning]

Virtual Warehouses and Query Execution

- How a virtual warehouse works and its role in query execution.
- Activating, stopping, resuming, and assigning a warehouse to a session.
- Selecting size, configuration, and operating strategy based on usage.
- Understanding the impact on performance and credit consumption.
- Monitoring the status of warehouses using dedicated commands and views.
- Hands-on workshop: Administering multiple warehouses, testing their activation, and observing their effects on typical queries.

[Day 2 - Afternoon] Cost

Control

- Principles of credit consumption in Snowflake.
- The role of resource monitors in preventing budget overruns.
- Difference between account monitors and warehouse monitors.
- Thresholds, associated actions, and resource suspension logic.
- Reading overage events and monitoring notifications.
- Hands-on workshop: Create a resource monitor and set alert thresholds tailored to team usage.

[Day 3 - Morning]

Advanced Resource Monitor Management

- Creating and modifying monitors via the interface and SQL.
- Assigning a monitor to one or more warehouses as needed.
- Monitoring quotas, consumed credits, and reset periods.
- Analyzing cases where costs may be partially influenced by cloud services.
- Using the SHOW and ALTER commands to manage monitors.
- Hands-on workshop: Configuring credit monitoring for multiple warehouses and interpreting the results.

[Day 3 - Afternoon]

Monitoring and Observability

- Using account usage views to monitor administrative objects.
- Interpreting metrics useful for diagnosing usage patterns and anomalies.
- Distinguishing between operational monitoring and historical analysis.
- Identifying relevant information for an operational audit.
- Developing a monitoring routine for Snowflake administrators.
- Hands-on workshop: Creating an administrative monitoring dashboard using available monitoring views.

[Day 4 - Morning]

Object and Command Administration

- Review of key commands related to warehouses and resource monitors.
- Analysis of creation, modification, query, and deletion operations.
- Managing dependencies between administrative objects and computing resources.
- Best practices for naming, traceability, and maintenance.
- Development of a reproducible and documented administration strategy.
- Hands-on workshop: executing a series of administration commands to create, modify, and manage Snowflake objects.

[Day 4 - Afternoon]

Security and Operational Governance

- Strengthening governance around access and responsibilities.
- Managing administrative privileges using the principle of least privilege.
- Controlling notifications and resource monitoring processes.
- Anticipating the impact of misconfigured monitoring on operations.
- Balancing security, costs, and service continuity.
- Hands-on workshop: auditing an access configuration and proposing corrections to reduce operational risk.

[Day 5 - Morning]

Operational use cases

- Analysis of administration scenarios encountered in production.
- Balancing performance, cost, and operational simplicity.
- Managing common incidents related to warehouses and quotas.
- Diagnosing access errors and consumption issues.
- Systematic exam preparation with a focus on critical topics.
- Hands-on workshop: resolving a comprehensive operational case involving access, warehouses, and the resource monitor.

[Day 5 - Afternoon]

Review and exam preparation

- Structured review of key concepts covered during the training.
- Review of essential commands, objects, and administration mechanisms.
- Clarification of key points frequently tested on the exam.
- Contextualization of best practices in governance and oversight.
- Study tips and strategies for answering certification exam questions.
- Hands-on workshop: Take a practice quiz and address any weaknesses before the SnowPro Advanced: Administrator exam.

Target Audience

This training is intended for both individuals and companies—large or small—seeking to train their teams in new advanced IT technologies or to acquire specific industry knowledge or modern methodologies.

Pre-training Assessment

The pre-training assessment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency in various types of technologies, as well as their expectations and personal goals for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could pose challenges for monitoring and ensuring the smooth running of the training session.

Teaching Methods

Hands-On Training: 60% Practical, 40% Theoretical. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the instructor—supported by examples and reflection sessions—and group work.

Assessment

At the end of the session, a multiple-choice quiz is administered to verify that participants have successfully acquired the skills.

Certification

A certificate will be issued to each trainee who has completed the entire training program.