SNOWPARK CONTAINER SERVICES

Prerequisites: Basic knowledge of SQL, Foundational knowledge of databases and Snowflake.

Duration: 2 Days (8 Hrs./Day)

Course Objective: By the end of this course, learners will gain a comprehensive understanding of Snowpark Container Services. They will explore the fundamentals of containers, their use cases, and how they integrate with Snowflake. The course will cover container lifecycle management, including creation, variable management, and RBAC configuration. Learners will work with image repositories, compute pools, and service functions, emphasizing autoscaling and observability. Additionally, they will master cost management practices, ensuring efficient and effective container service deployment in Snowflake.

Lab Requirement: Koenig DC/Linux.

Module 1 - Overview of Snowpark Container Services

What is a Container?

Use Cases

How are Containers Used in Snowflake?

Module 2 - Container Lifecycle in Snowflake

Container Creation

Variable Management

Role-based Access Control (RBAC) Configuration

Module 3 - Snowflake Image Registry and Repository

Working with Image Repositories

Module 4 - Compute Pools Explained

Compute Pool Creation

Instance Family

Autoscaling Compute Pool Nodes

Compute Pool Lifecycle

Module 5 - Services and Service Functions

Creating Service Instances With Autoscaling

Public Endpoint Configuration

Updating Service Code

Module 6 - Application Observability

Managing Container Services

Accessing Container Logs

Using Event

A Guide to Common Errors and Their Resolution

Module 7 - Cost Management Considerations

Snowflake Recommended Cost Management Best Practices and Guidance

Spend Visibility

Setting Limits