

# 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