Lesson 08 Demo 07

Creating a Kinesis Data Stream

Objective: To create a Kinesis Data Stream in Amazon Kinesis to set up a data stream, configure its capacity, and understand the concept of shards as a fundamental resource in Kinesis

Tools required: Amazon Workspaces

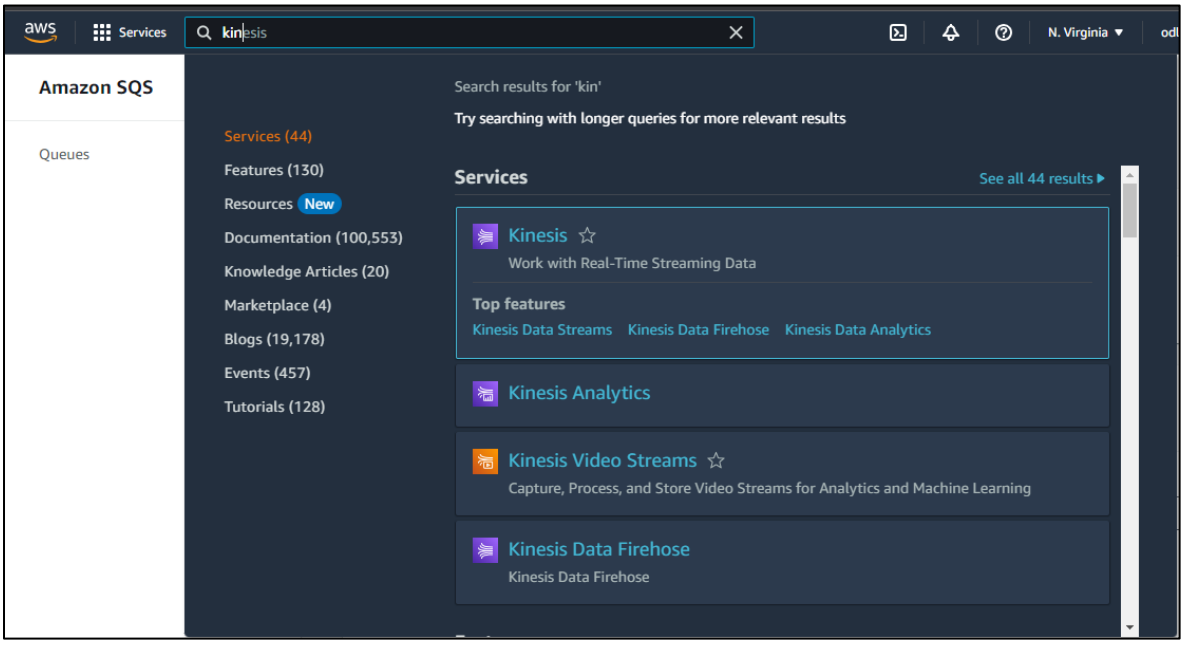
Prerequisites: AWS account

Steps to be followed:

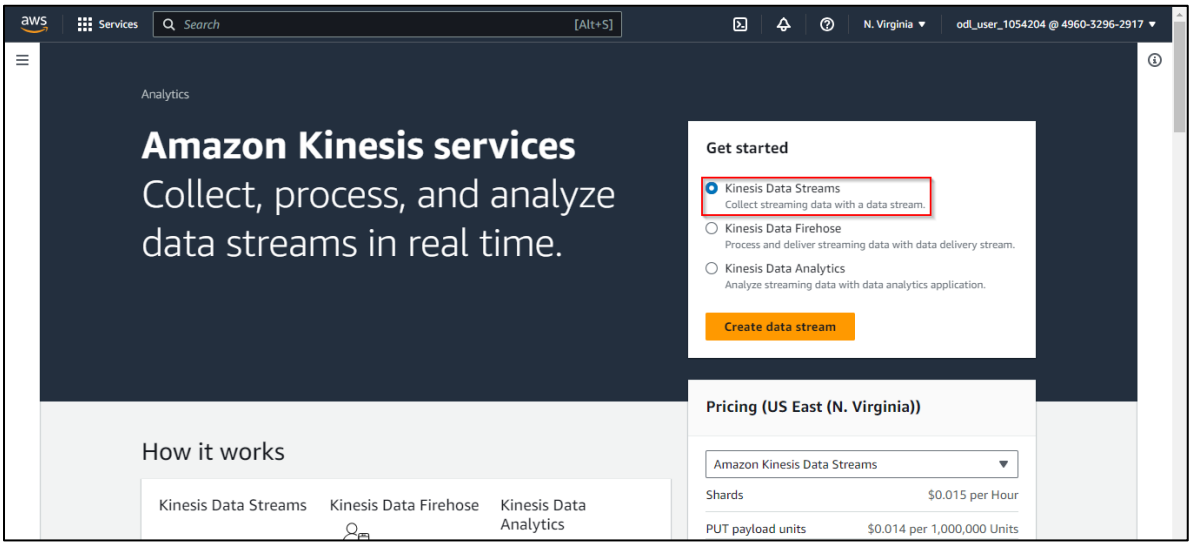
1. Configure a Kinesis Data Stream

Step 1: Configure a Kinesis Data Stream

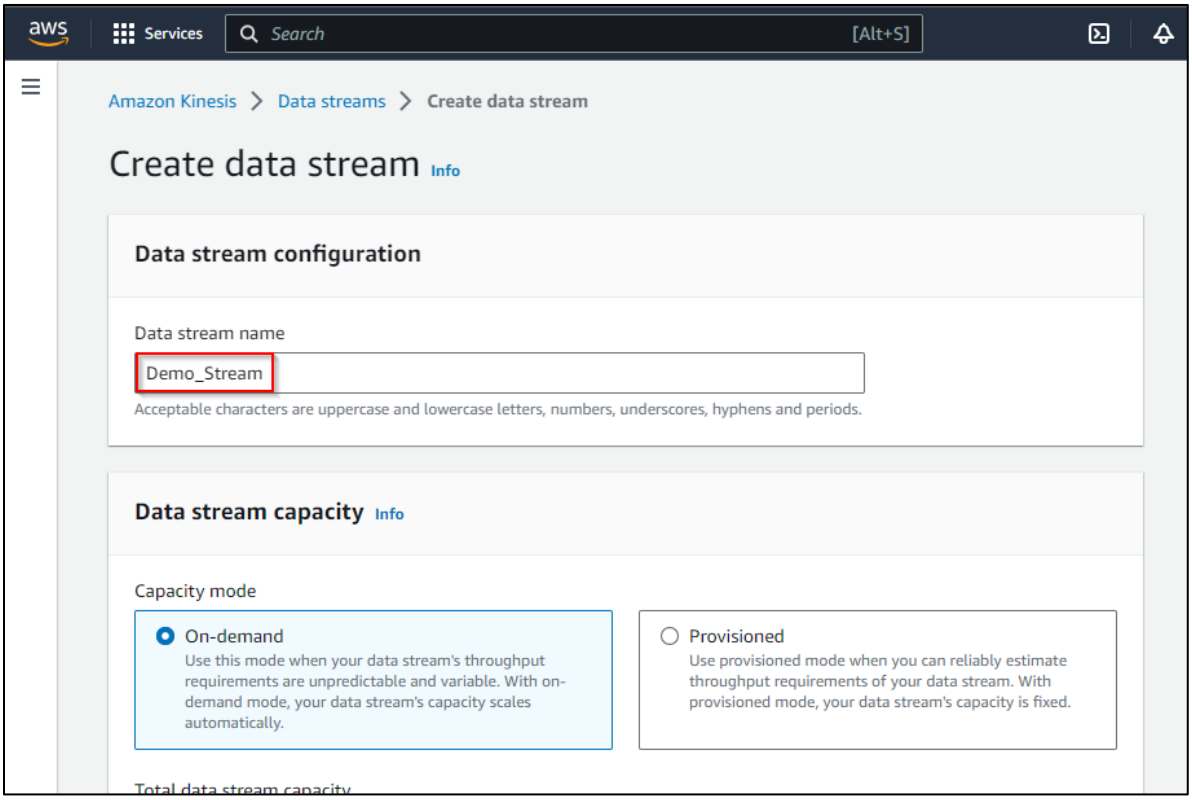
1.1 Navigate to the Amazon homepage, search for **Kinesis**, and select it



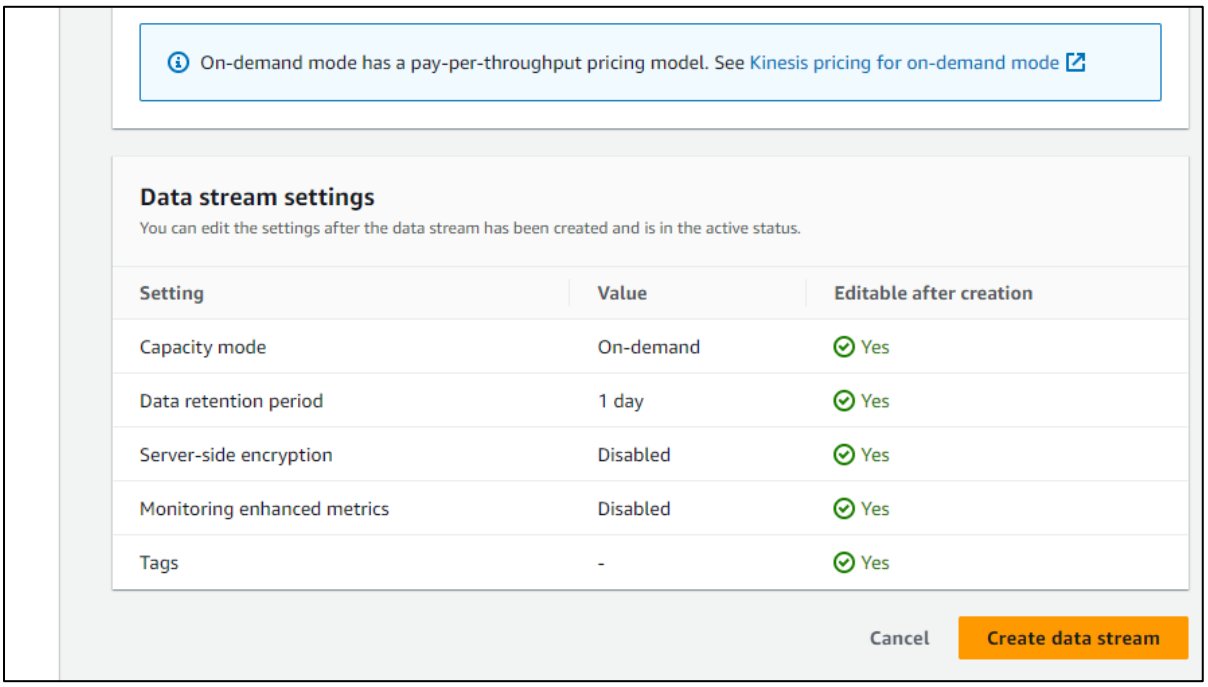
1.2 Click on **Kinesis Data Streams** and then select **Create data stream**

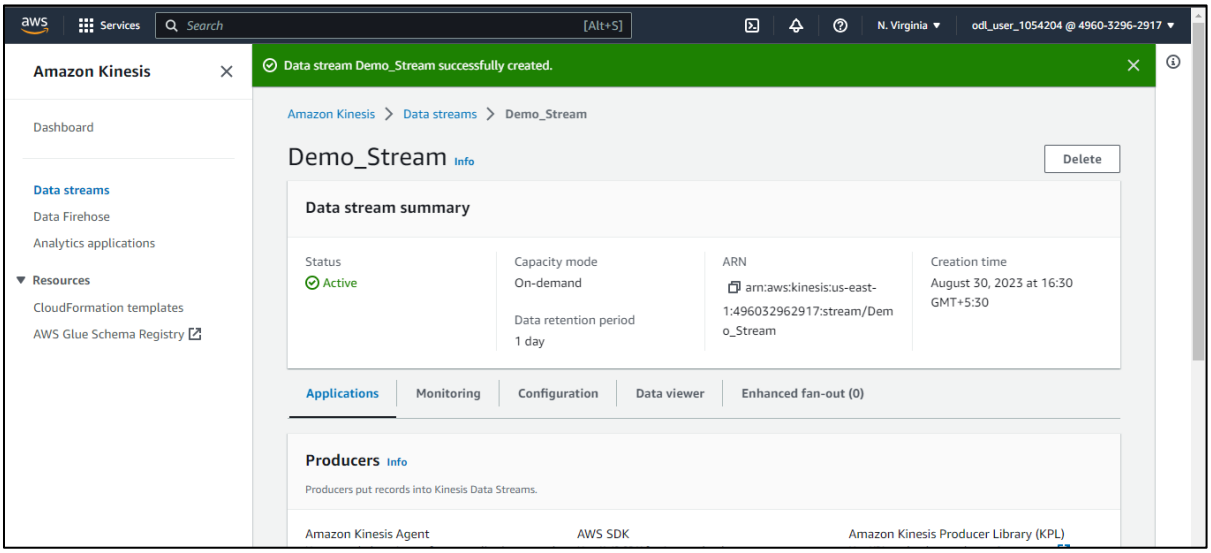


1.3 Name the data stream **Demo_Stream**



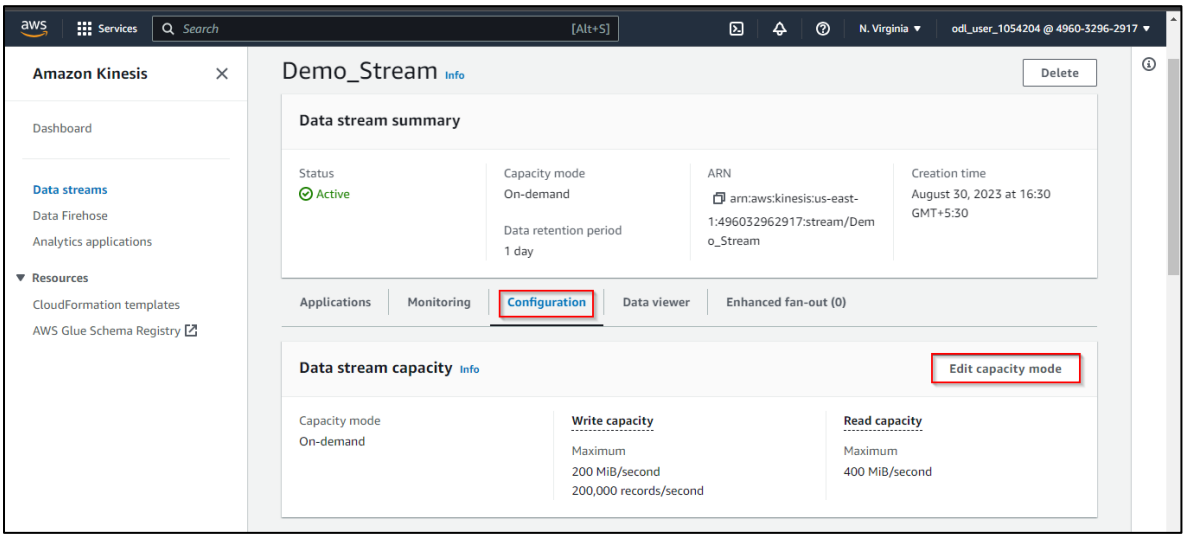
1.4 Click on the **Create data stream** button

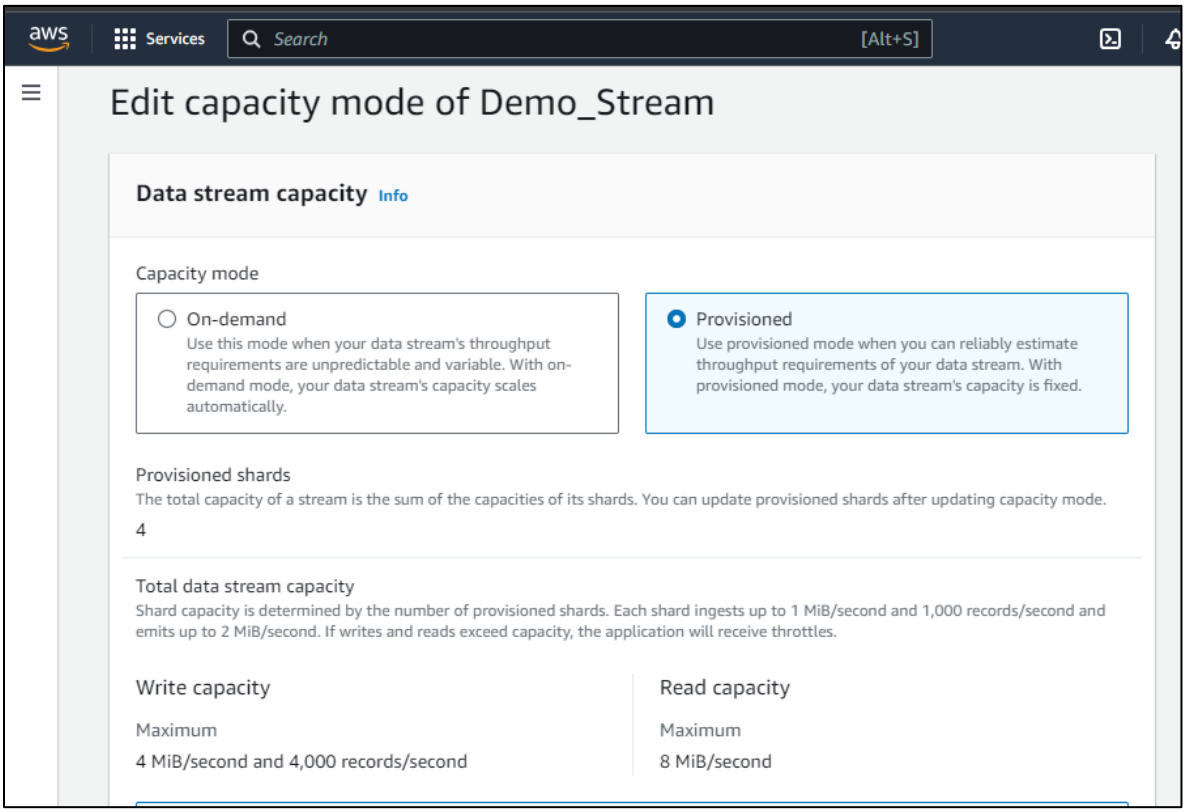




The data stream **Demo_Stream** has been successfully created.

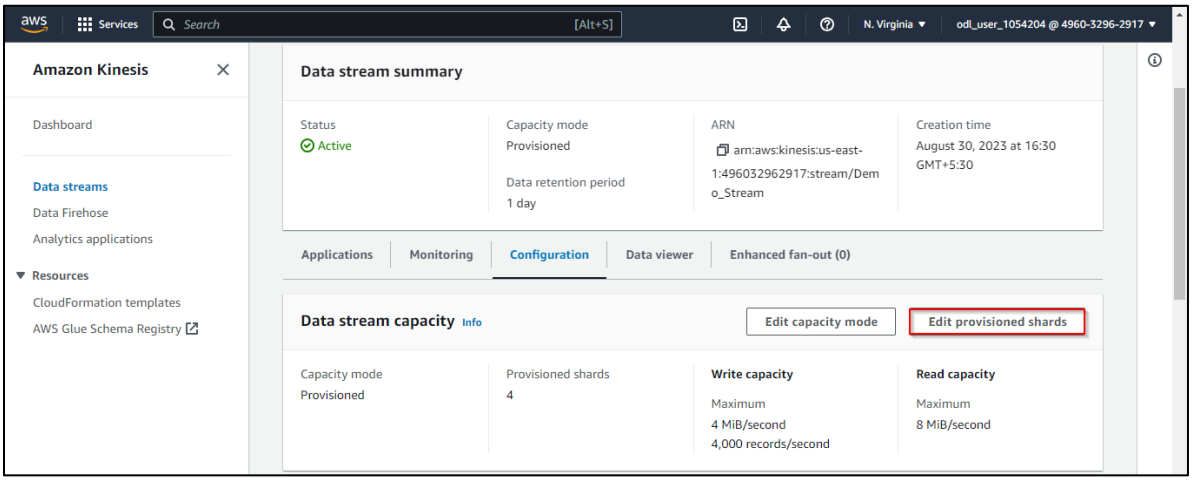
1.5 Navigate to **Configuration** and click **Edit capacity mode**



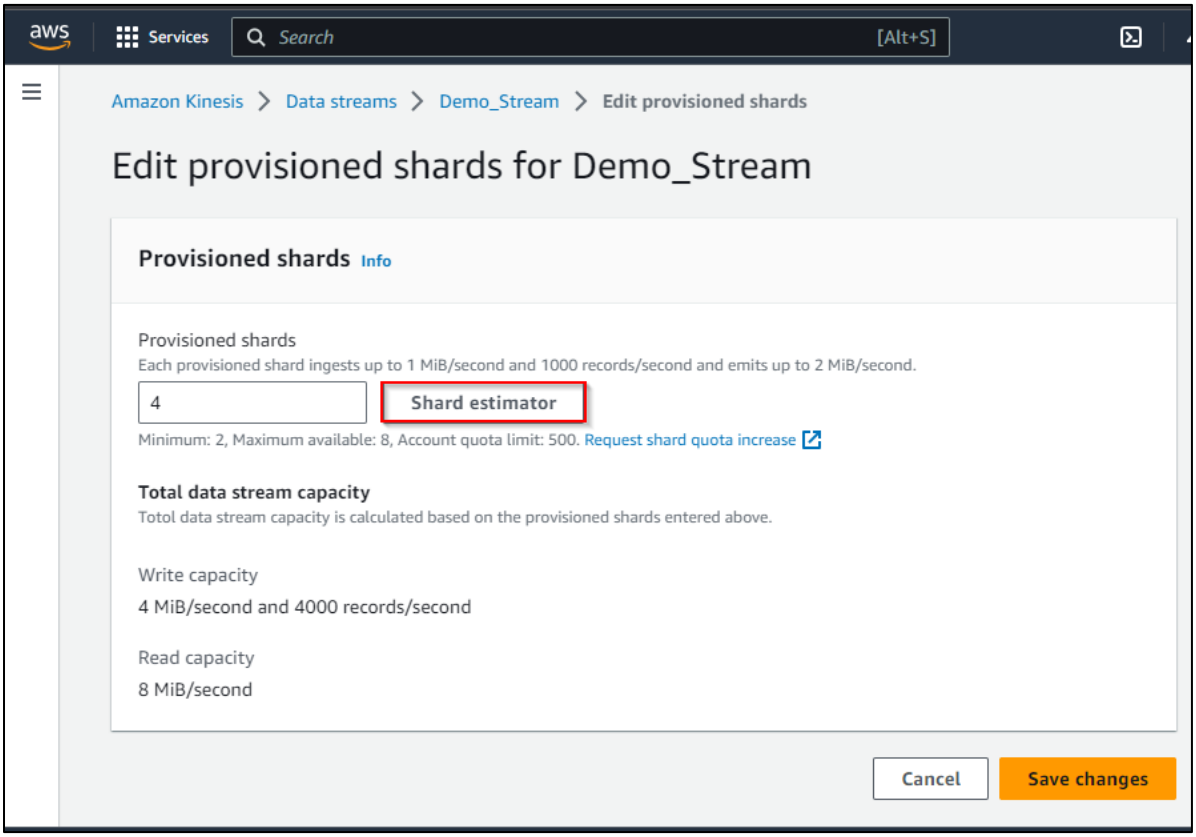


Under Capacity mode, if the user clicks on **Provisioned**, the user should enter the number of Provisioned and the number of shards to see the total data stream capacity.

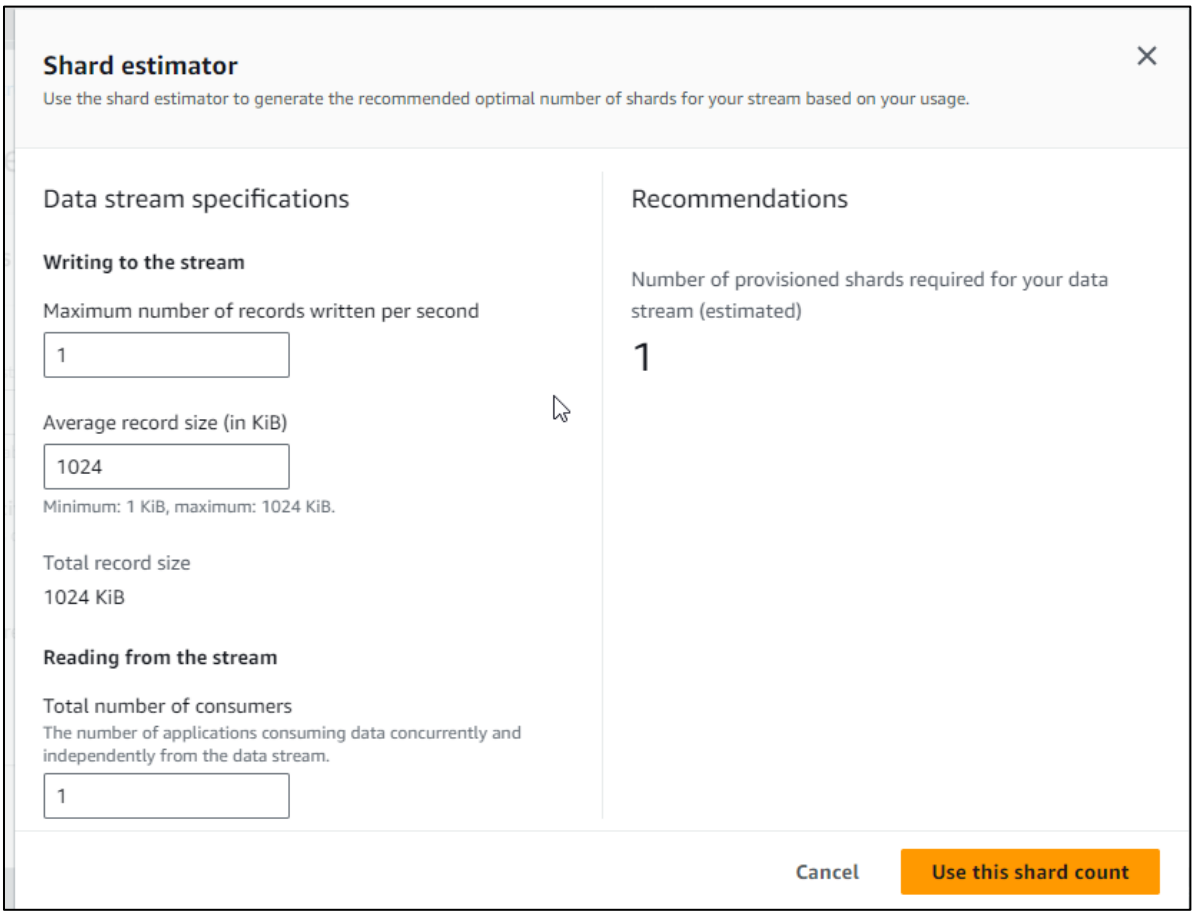
1.6 Click on the **Edit provisioned shards** button



1.7 Click on the **Shard estimator** button



The total capacity of a Kinesis Data Stream is calculated by summing the capacities of its individual shards. By entering the number of provisioned shards, participants can understand the concept of data stream capacity.



Following these steps, you have successfully created a Kinesis Data Stream, configured its capacity, and gained insights into allocating shards for stream processing.