

Lesson 04 Demo 09

Building a Glue Data Catalog

Objective: To create a Glue Data Catalog using AWS Glue for seamless organization and

efficient cataloging

Tools require: AWS Workspace

Prerequisites: AWS account

Steps to be followed:

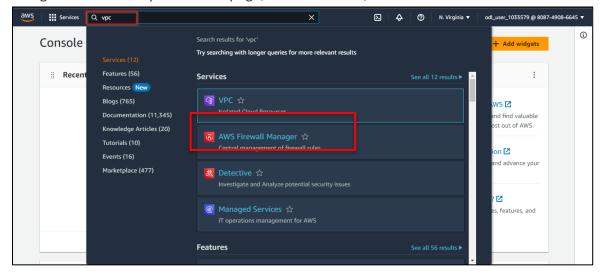
1. Create a VPC endpoint

2. Create a Glue Data Catalog

3. Add a data source to crawlers

Step 1: Create a VPC endpoint

1.1 Navigate to the AWS portal homepage, search for VPC, and click on it

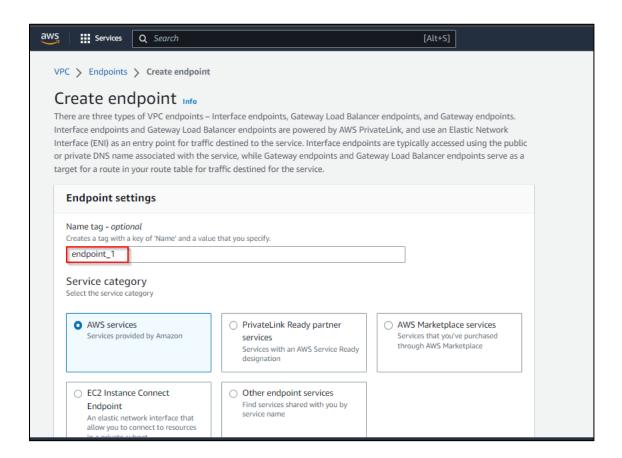




1.2 Click on Endpoints and then select Create endpoint

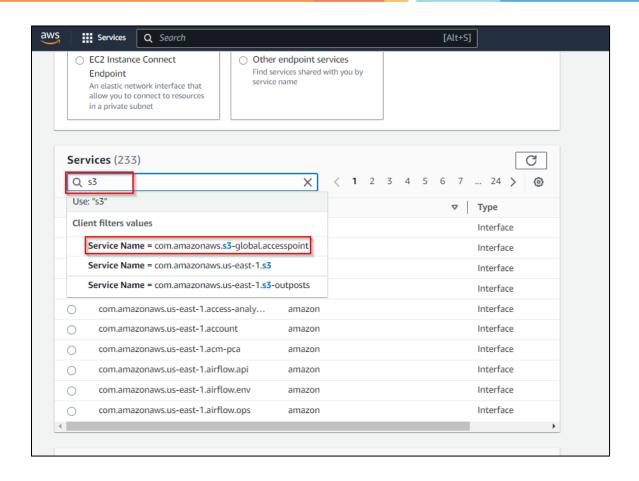


1.3 Enter endpoint_1 as the Name tag

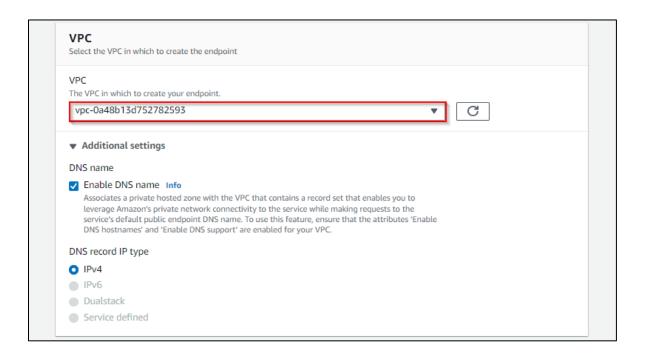


1.4 Under Services, enter s3 and choose s3-global.accesspoint

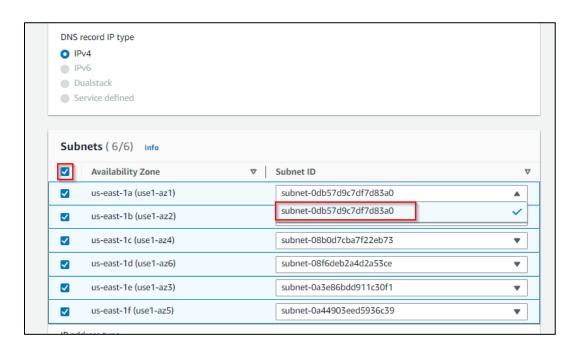






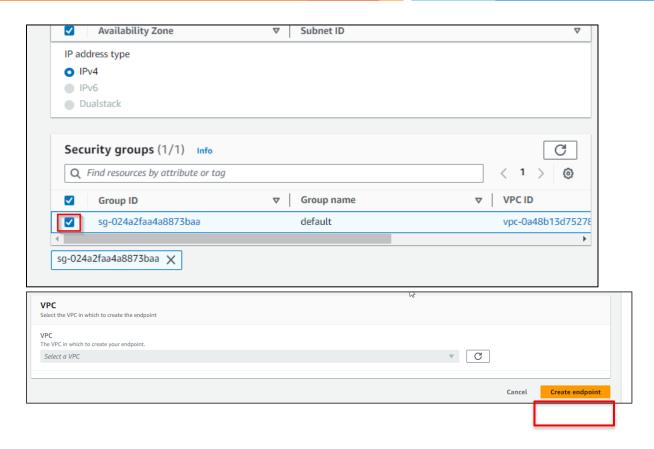


1.6 In **Subnets**, select the Availability Zone by clicking the checkbox next to it, and then click on the Subnet ID



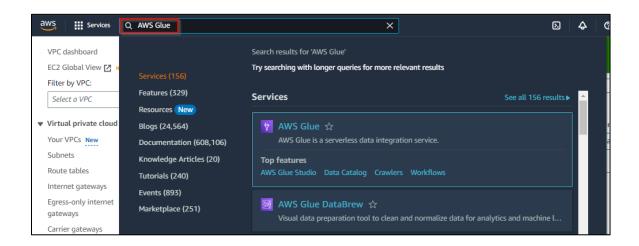
1.7 Select the appropriate Group ID under Security groups, and click on Create endpoint





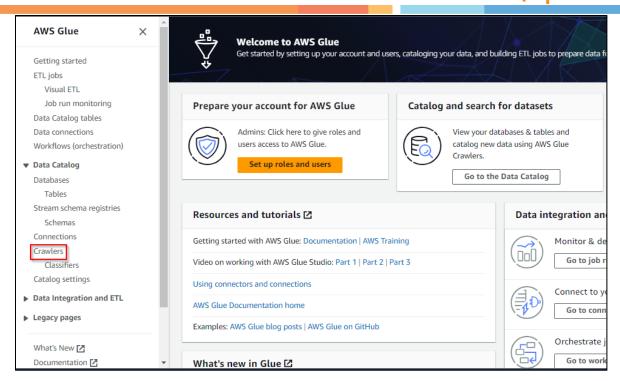
Step 2: Create a Glue Data Catalog

2.1 Navigate to the AWS portal homepage and search for AWS Glue

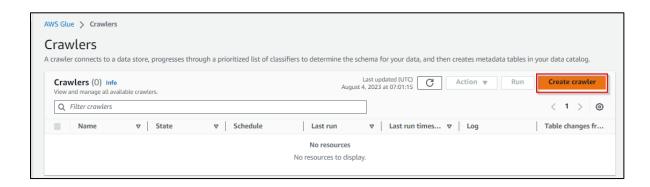


2.2 Click on Crawlers under Data Catalog



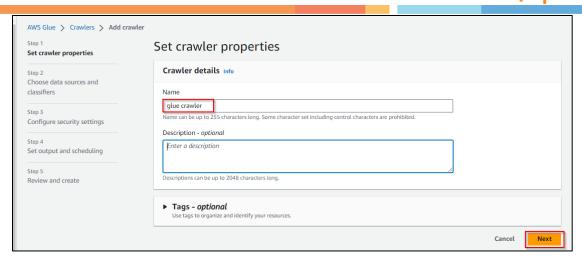


2.3 Select Create crawler

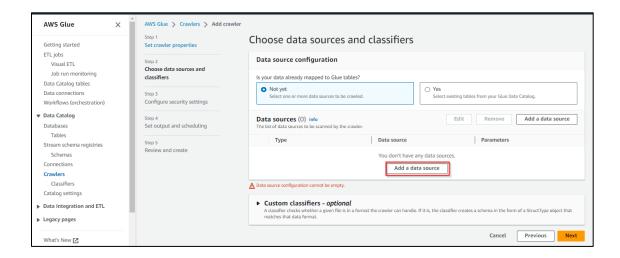


2.4 Enter the name as glue crawler and click Next



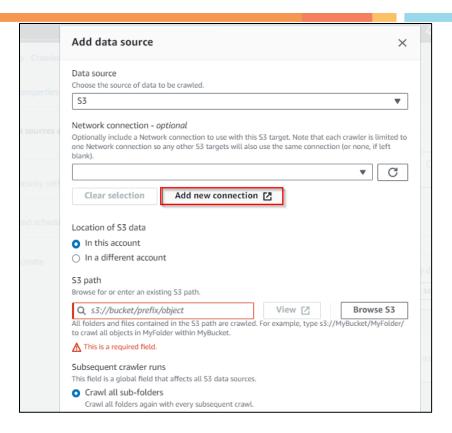


2.5 Click on Add a data source

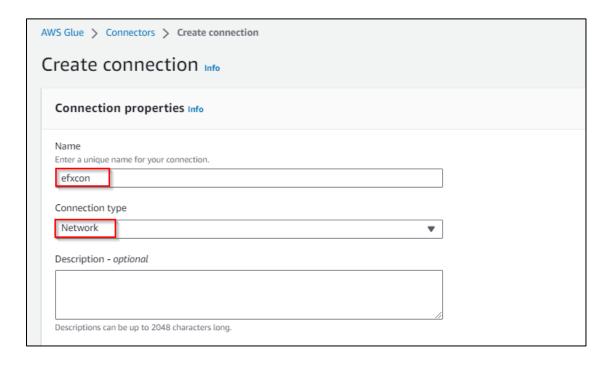


2.6 Click on Add new connection



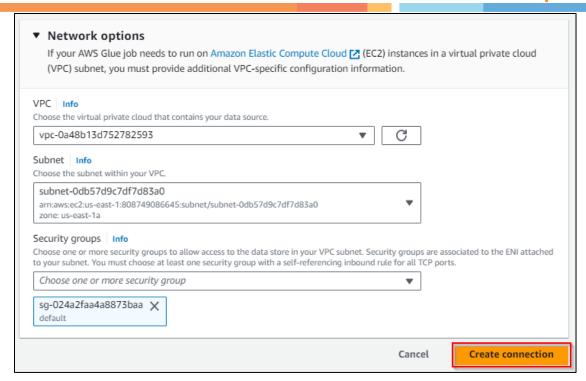


2.7 Enter the name as efxcon and select Network as the Connection type

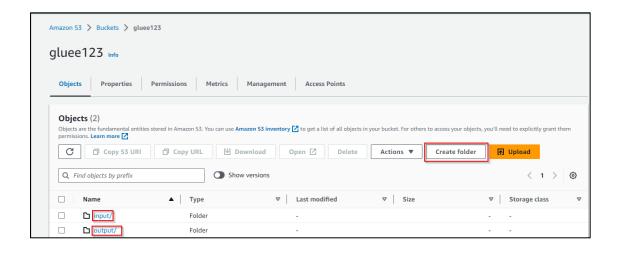


2.8 Configure the Network options as shown, and then click **Create connection**



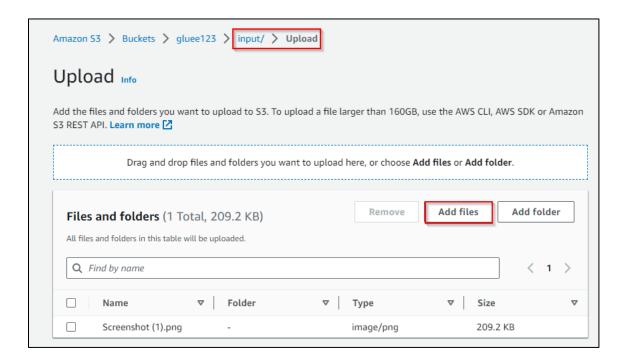


2.9 Create an S3 bucket named gluee123 and input and output folders within it

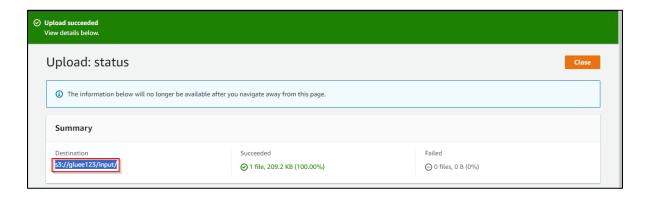


2.10 Navigate to the input folder, and either drag and drop or click Add files to upload an image



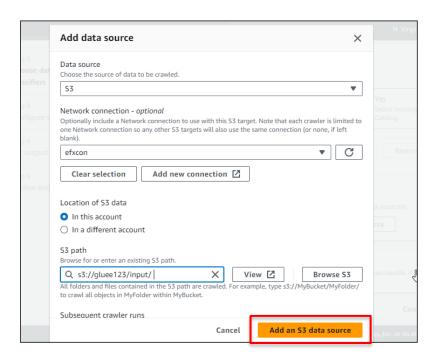


2.11 Copy the Destination path for use in the S3 path



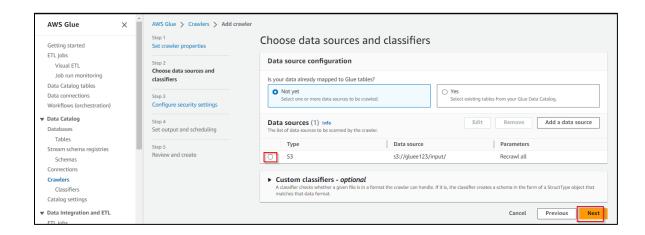


2.12 Paste the S3 path location as shown, and then click on **Add an S3 data source** in the **Add data source** tab



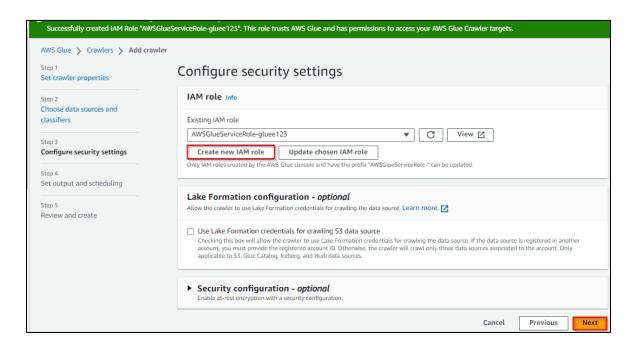
Step 3: Add a data source to Crawlers

3.1 Select **S3** type and click **Next**

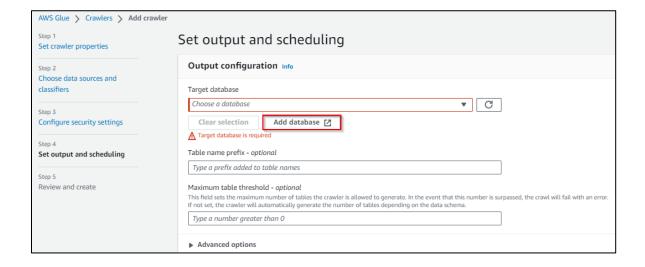




3.2 Create a new IAM role named gluee123, and click Next

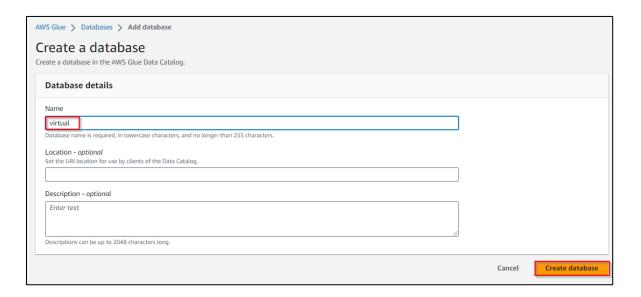


3.3 Click on Add database

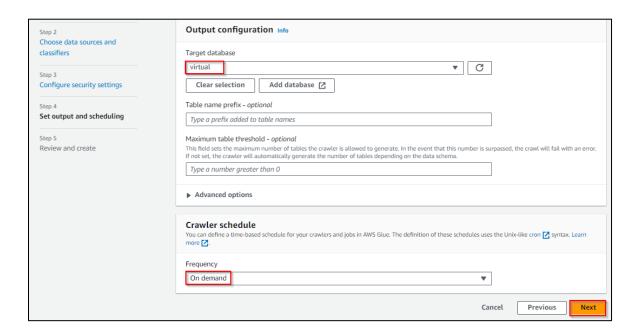




3.4 Name it virtual, and create the database

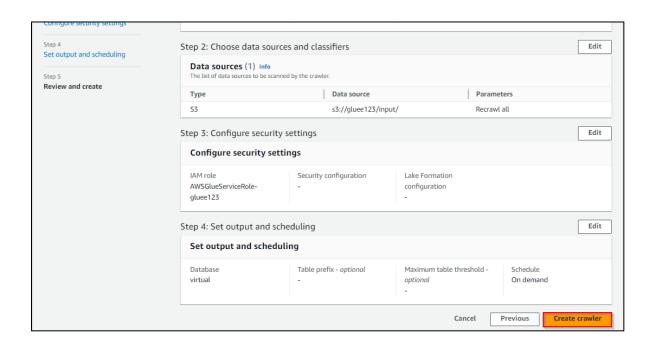


3.5 Select **virtual** from the database options, set the Frequency to **On demand**, and then click on **Next**



3.6 Review the settings and create the crawler by clicking Create crawler

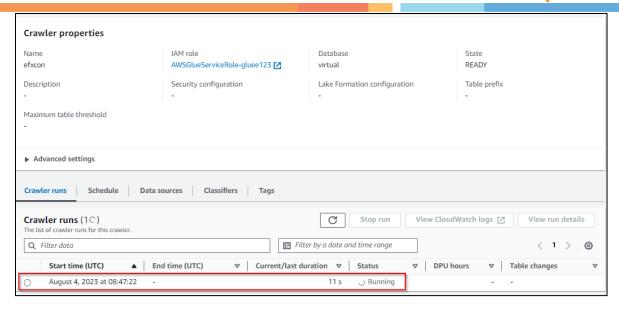


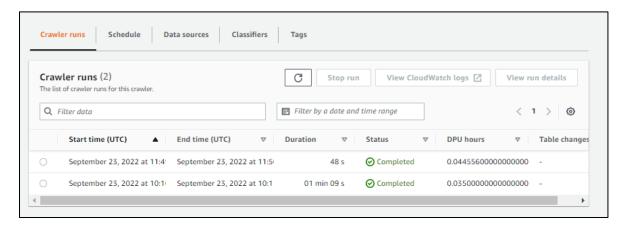


3.7 Click Run crawler









By following these steps, you have successfully set up a Glue Data Catalog, enhancing data management proficiency within your AWS environment.