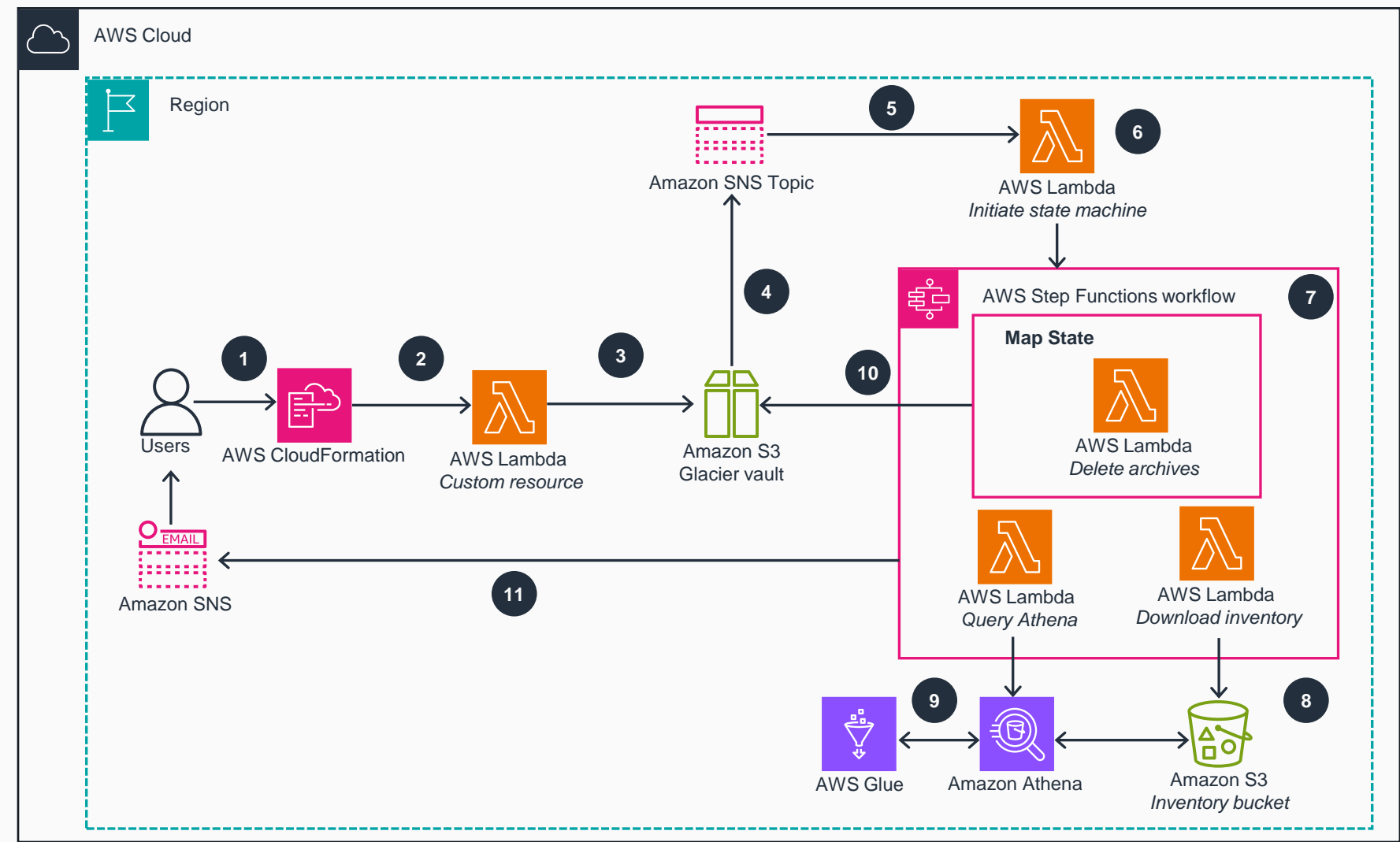


Guidance for Automated Deletion of Vault Archives in Amazon S3 Glacier

This architecture diagram shows an automated serverless workflow to delete all archives in an Amazon S3 Glacier vault.



- 1 The user deploys the template as a stack in the **AWS CloudFormation** console.
- 2 **CloudFormation** deploys the necessary resources, including custom **AWS Lambda** resources.
- 3 A custom **Lambda** resource function updates the **Amazon S3 Glacier** vault notification settings and initiates an inventory job request.
- 4 **S3 Glacier** vault posts a message to an **Amazon Simple Notification Service (Amazon SNS)** topic when the inventory retrieval job is completed.
- 5 The **Amazon SNS** topic invokes an *Initiate State Machine Lambda* function.
- 6 The function initiates the **AWS Step Functions** workflow and passes the **S3 Glacier** vault inventory information as input.
- 7 The **Step Functions** workflow orchestrates the process of downloading the inventory, splitting it into smaller chunks, iterating over the chunks, and deleting the archives.
- 8 An invoked **Lambda** function downloads the inventory to the **Amazon Simple Storage Service (Amazon S3)** bucket.
- 9 A **Lambda** function uses **AWS Glue** and **Amazon Athena** to query and split the large inventory manifest into smaller chunks, which are then fed into the Map state of the **Step Functions** workflow.
- 10 The Map state of the **Step Functions** workflow iterates over each chunk of the inventory manifest. It invokes a **Delete Archives AWS Lambda** function to submit a delete request for each archive.
- 11 Upon successful completion of the workflow, an email notification is sent to the email address provided by the user.

