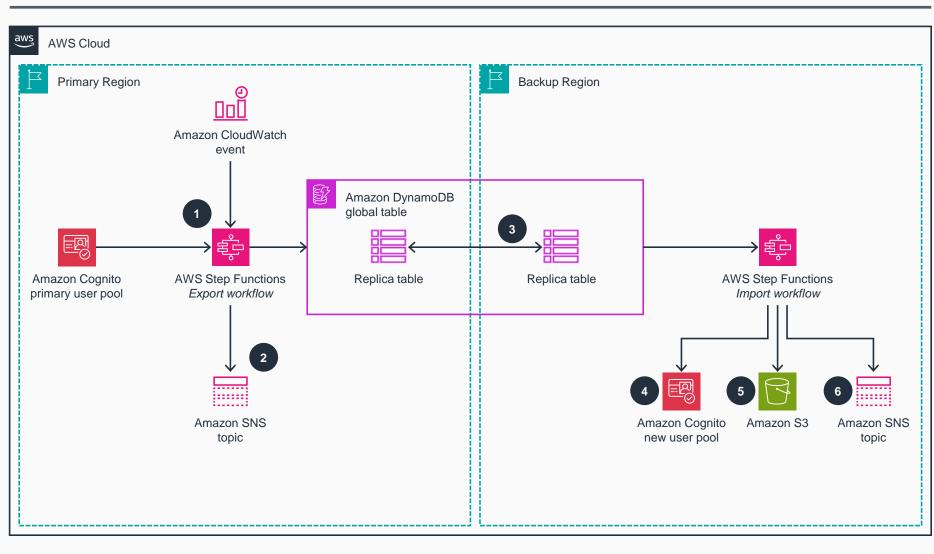# Guidance for User Profiles Export with Amazon Cognito

This architecture diagram shows how to export Amazon Cognito user information so that you can facilitate more complex user queries or provide resiliency in case of a regional failure or the accidental deletion of your users' profiles.

AWS Cloud

Primary Region

Amazon CloudWatch event

1

Amazon Cognito primary user pool

AWS Step Functions *Export workflow*

Amazon DynamoDB global table

Replica table

2

Amazon SNS topic

Backup Region

3

Replica table

AWS Step Functions *Import workflow*

4 Amazon Cognito new user pool

5 Amazon S3

6 Amazon SNS topic

1. In the primary AWS Region, an **Amazon CloudWatch** scheduled event invokes the **AWS Step Functions** export workflow, which examines the primary **Amazon Cognito** user pool. It stores user profiles, groups, and group membership information in the global table. *Note: This Guidance does not create the primary user pool.*

2. When the export workflow is complete, **Step Functions** sends a completion or error message to the **Amazon Simple Notification Service (Amazon SNS)** topic for logging or troubleshooting.

3. **Amazon DynamoDB** asynchronously replicates all data to the backup Region for added resiliency.

4. In your backup Region, use the same **Step Functions** import workflow as seen in Step 2 to import data from global table to populate a new, empty **Amazon Cognito** user pool. This enables you to easily recover user profiles, groups, and group memberships. *Note: This Guidance does not create the new user pool.*

5. A mapping comma-separated values (CSV) file uploads to the solution's **Amazon Simple Storage Service (Amazon S3)** bucket. This CSV file maps the line number reported by **Amazon Cognito** to the subattribute of the corresponding users for inclusion in the troubleshooting error message.

6. When the import workflow is complete, **Step Functions** sends a completion or error message to an **Amazon SNS** topic for logging or troubleshooting.

AWS Reference Architecture