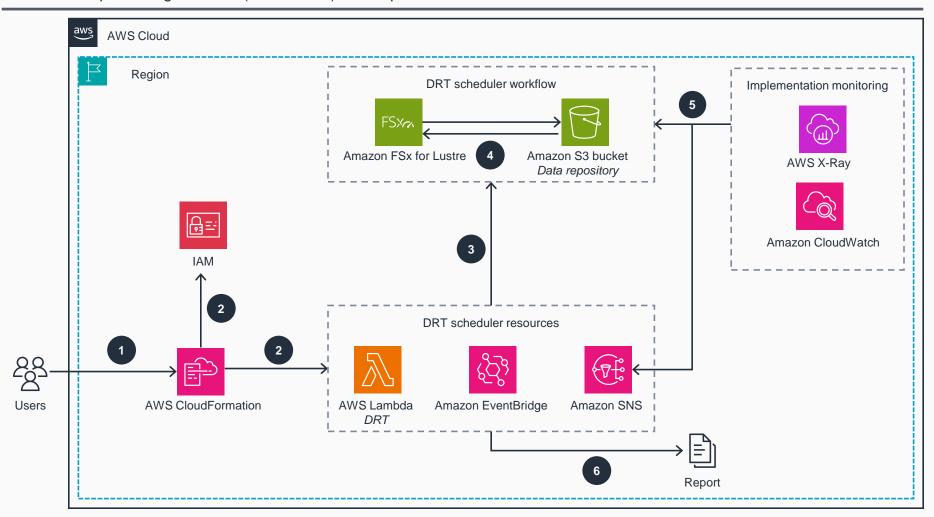
Guidance for Automating Data Repository Task Schedules with Amazon FSx for Lustre

This architecture diagram shows how to automate data synchronization between Amazon FSx for Lustre file systems and Amazon Simple Storage Service (Amazon S3) data repositories.



- Deploy this Guidance using AWS CloudFormation by creating a stack through the AWS Management Console.
- CloudFormation deploys resources, including AWS Lambda, AWS Identity and Access Management (IAM), Amazon EventBridge, and Amazon Simple Notification Service (Amazon SNS).
- Based upon your configuration when launching the CloudFormation template, the cron-based EventBridge schedule launches the data repository task (DRT) using the previously deployed Lambda function.
- The created DRT performs defined operations between the Amazon FSx for Lustre file system and its linked Amazon Simple Storage Service (Amazon S3) data repository.
- AWS X-Ray and Amazon CloudWatch monitor the implementation of the Lambda DRT function. Alarms send email notifications using Amazon SNS if errors are detected.
- Upon completion, the **Lambda** function creates a completion report. This is stored at the location specified by the value of the TaskCompletionReportPath parameter for the **CloudFormation** stack.