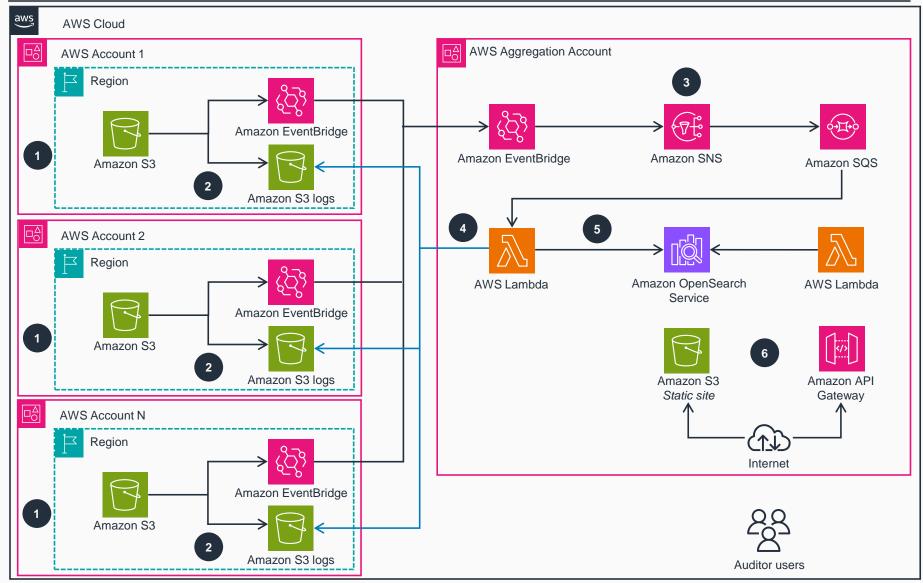
Guidance for Enterprise Search and Audit for Amazon S3

This architecture diagram allows customers to view activity and search object meta-data across multiple accounts, Regions, and S3 buckets within an organization or across linked accounts outside of an organization.



AWS Reference Architecture

- Any account (1, 2, or N) generates an event for Amazon Simple Storage Service (Amazon S3) operations, such as GET, PUT, DELETE, or storage tier updates.
- The event gets recorded in Amazon

 EventBridge and in an Amazon S3 logging
 bucket for the specific event source bucket.
- BeventBridge in the individual account (1, 2 or N) sends data to EventBridge in the AWS aggregation account, and the event is then forwarded to Amazon Simple Notification Service (Amazon SNS) which then distributes events to different Amazon Simple Queue Service (Amazon SQS).
- AWS Lambda functions process events from Amazon SQS in batches. Lambda functions create HEAD requests to the source bucket to get the metadata of each object. For GET requests, Lambda functions process log files from the logging buckets to record GET requests.
- All data is pushed to an Amazon OpenSearch Service cluster, which hosts metadata for all objects.
- An S3 static site hosts a React JavaScript site that allows authorized users to browse OpenSearch Service metadata through Amazon API Gateway and Lambda functions.