

JEDx Collector – Quickstart

High-level summary of the collector SAM template for quick reference.

Key Parameters

Parameter	Purpose
Prefix	Prefixes all resource names (enables per-env deploys)

Key Components

- API Gateway (JedxCollectorApi) with Cognito authorizer
- Lambdas: JedxCollectorApiFunction, JedxCollectorRecordApiFunction, JedxCarRecordsApiFunction, JedxCarUserApiFunction, CollectorValidationFunction
- Kinesis stream (JedxCollectorInputStream) for decoupled ingestion
- S3 buckets: JedxCollectorBucket (success), JedxCollectorErrorBucket (errors)
- DynamoDB table: JedxCollectorTable (pk+sk, PAY_PER_REQUEST)

Data Flow

- 1) Client → API Gateway → JedxCollectorApiFunction
- 2) JedxCollectorApiFunction → Kinesis (JedxCollectorInputStream)
- 3) CollectorValidationFunction (Kinesis consumer) → writes to S3 success/error + DynamoDB
- 4) Record endpoints (Record/Records/User) read/write S3 and DynamoDB as appropriate

Suggestions

- Add DLQ/retries for Kinesis consumer if needed
- Narrow IAM permissions to least privilege