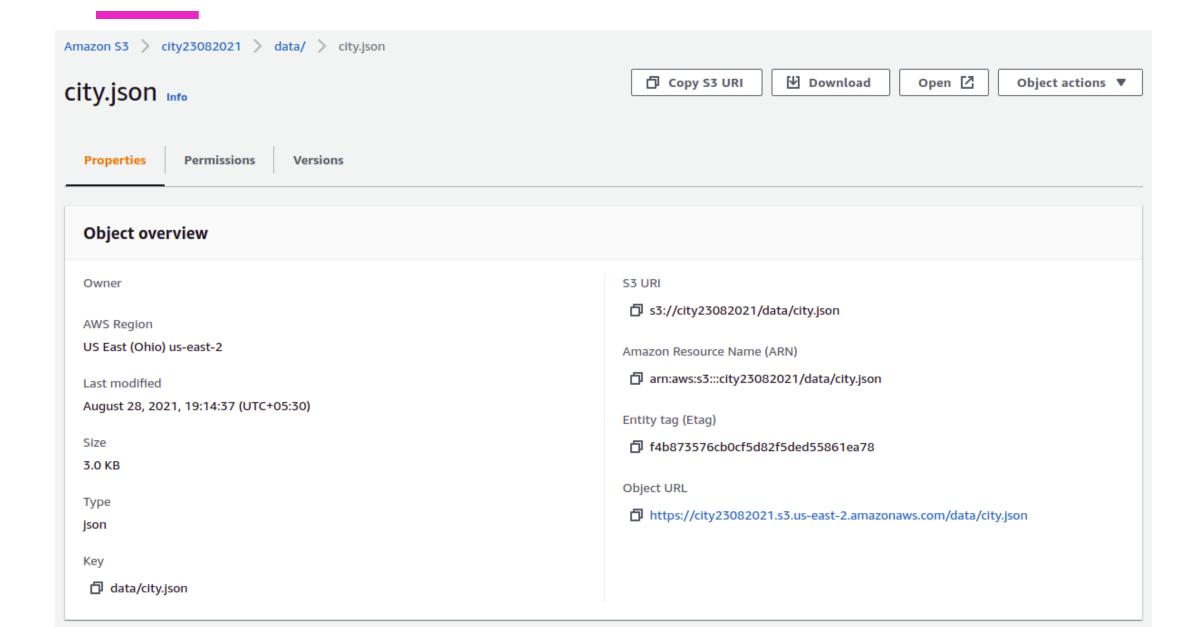
Automatic loading of JSON file from S3 to DynamoDB using Lambda function



S3 file loaded in bucket

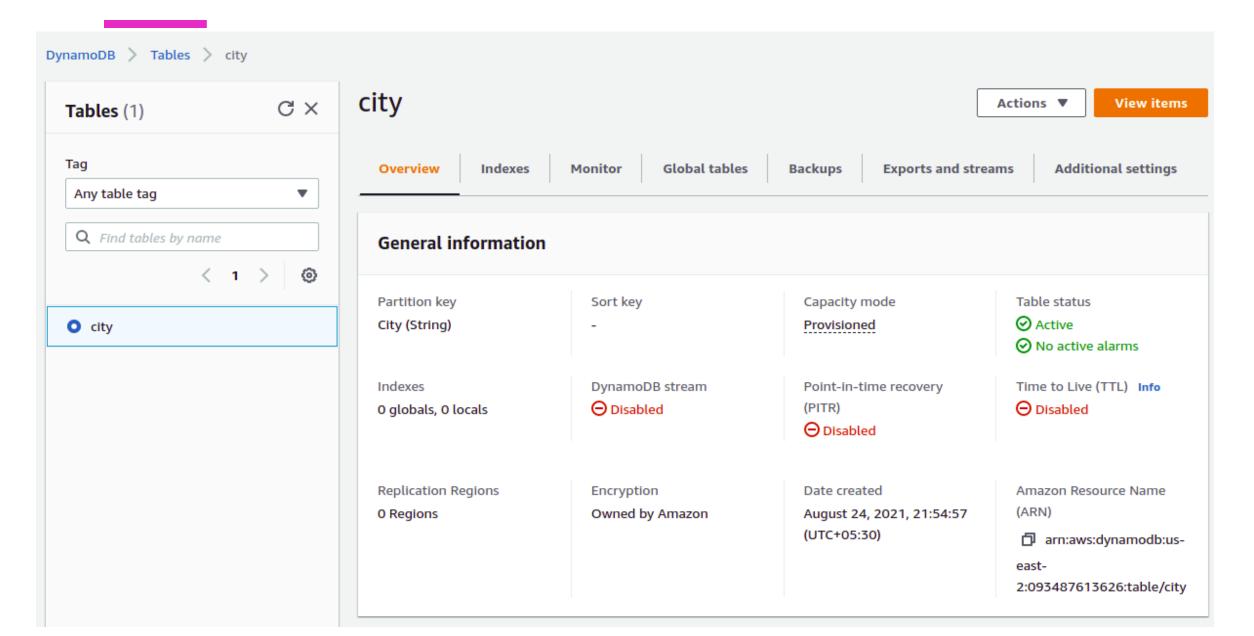


City.json file

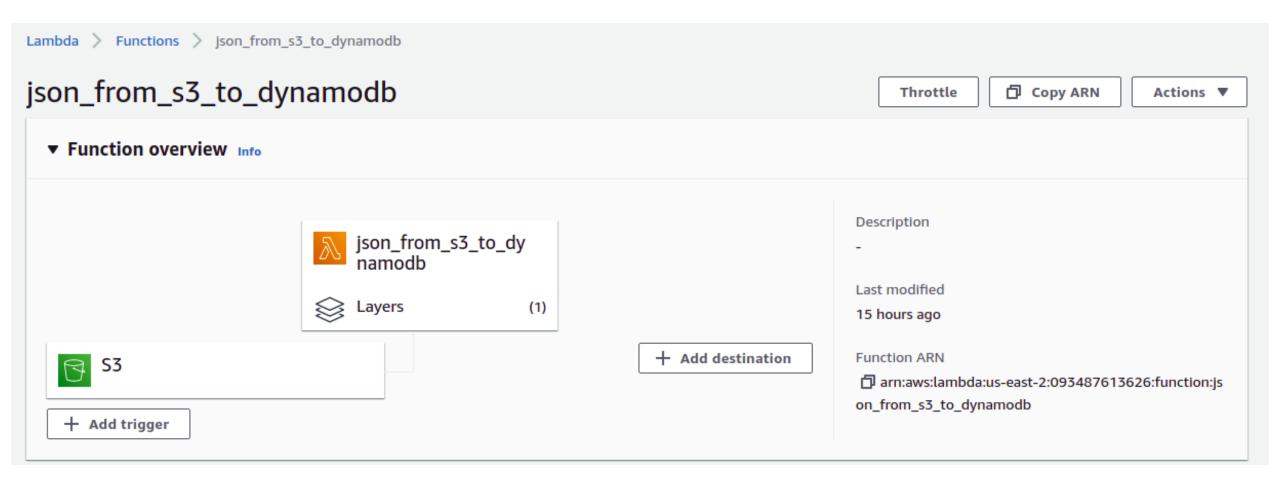
city.json

```
"LatD": 41,
 "LatM": 5,
 "LatS": 59,
 "NS": "N",
 "LonD": 80,
 "LonM": 39,
 "LonS": 0,
 "EW": "W",
 "City": "Youngstown",
 "State": "OH"
},
 "LatD": 42,
 "LatM": 52,
 "LatS": 48,
 "NS": "N",
 "LonD": 97,
 "LonM": 23,
 "LonS": 23,
 "EW": "W",
 "City": "Yankton",
 "State": "SD"
},
 "LatD": 46,
 "LatM": 35,
 "LatS": 59,
 "NS": "N",
 "LonD": 120,
 "LonM": 30,
 "LonS": 36,
 "EW": "W",
 "City" · "Vakima"
```

DynamoDB Table



Lambda Function Overview



Lambda Function Layers and Runtime settings



Pandas library resource for layer 1



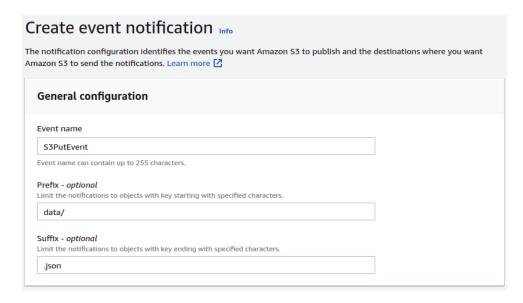
Bucket property setup

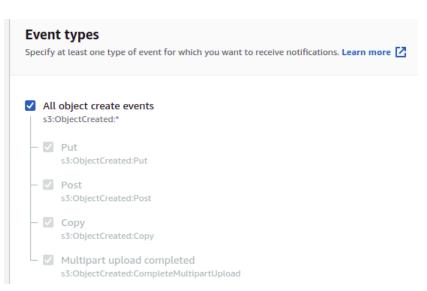


Under property tab setup Event notification



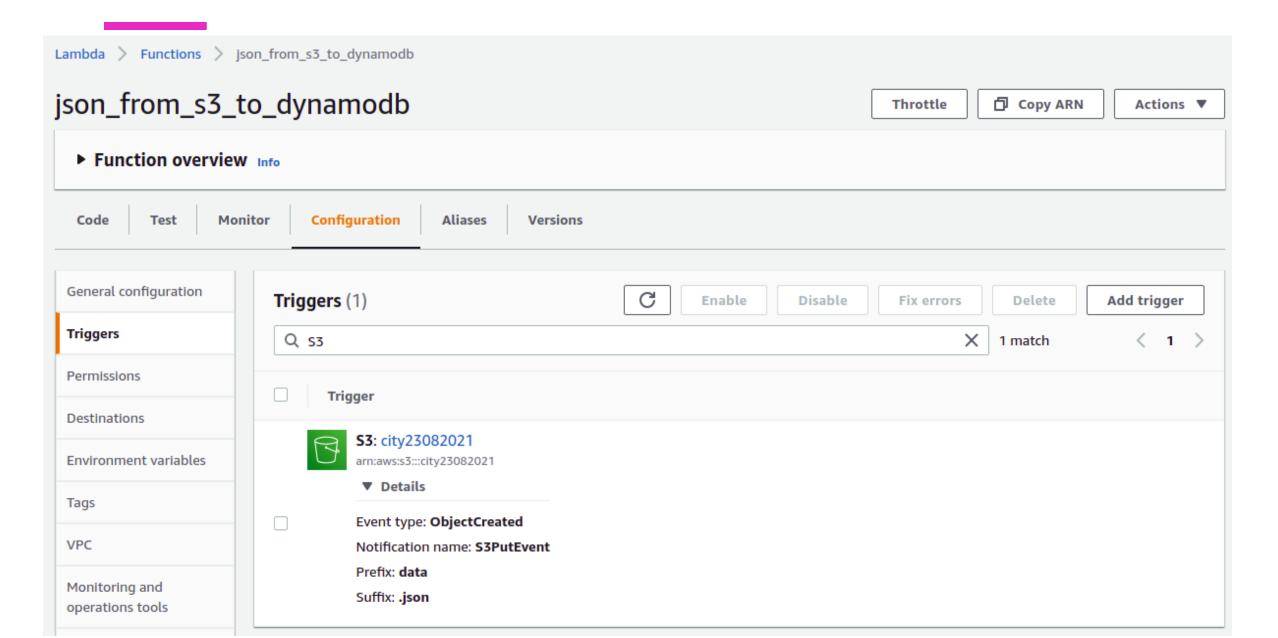
S3 Create Event Notification



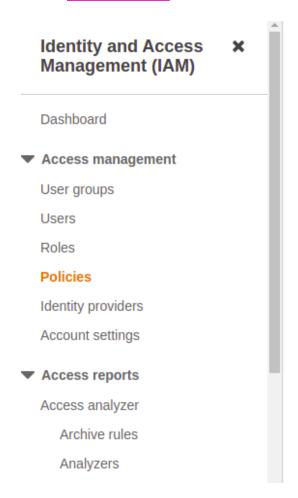


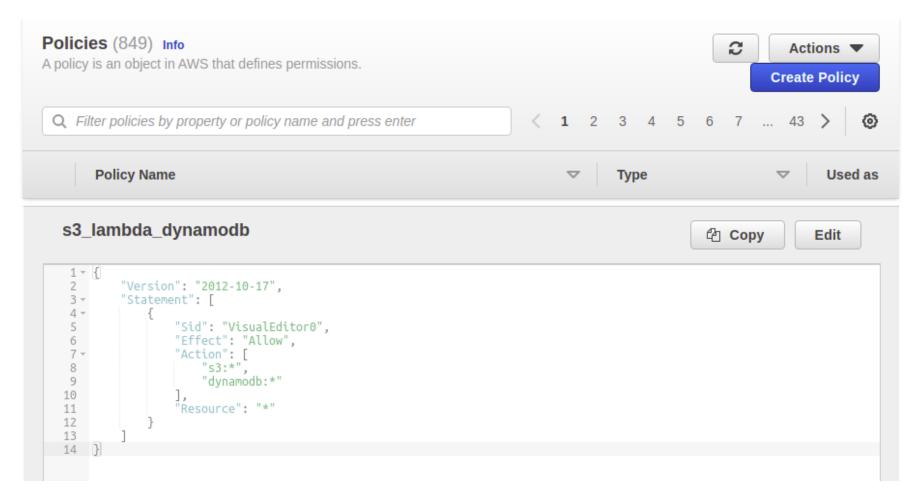
Destination Choose a destination to publish the event. Learn more Lambda function Run a Lambda function script based on S3 events. SNS topic Send notifications to email, SMS, or an HTTP endpoint. SQS queue Send notifications to an SQS queue to be read by a server. Specify Lambda function Choose from your Lambda functions Enter Lambda function ARN Lambda function json_from_s3_to_dynamodb

S3 Event notification configuration sets Lambda trigger



AIM Policy to access S3 and DynamoDB

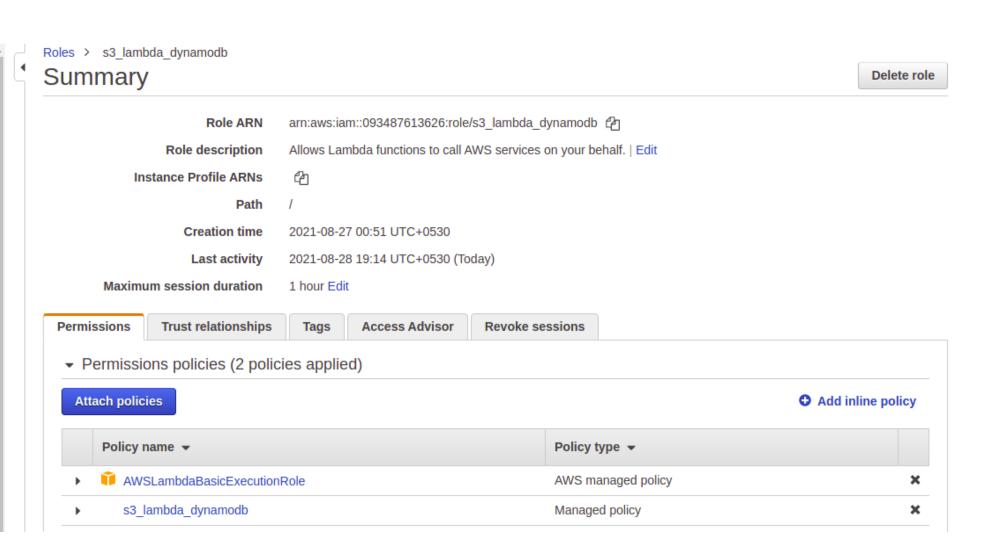




AIM Role for using Policy

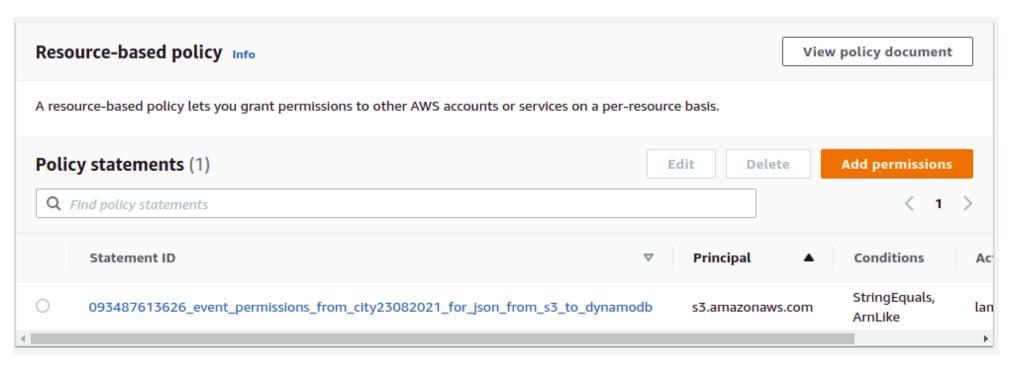
Identity and Access Management (IAM) Dashboard Access management User groups Users Roles Policies Identity providers Account settings ▼ Access reports Access analyzer Archive rules Analyzers Settings Credential report

Organization activity



Using Policy in Lambda function



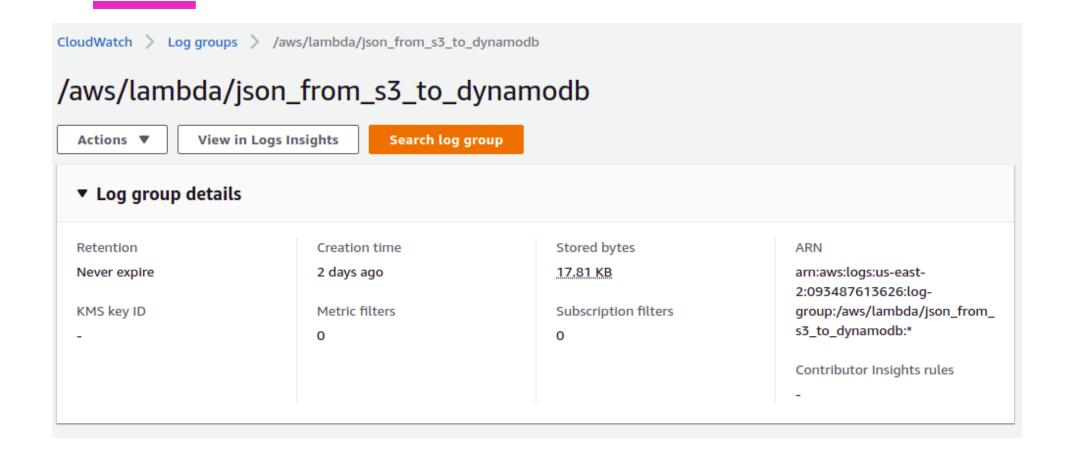


Policy statement

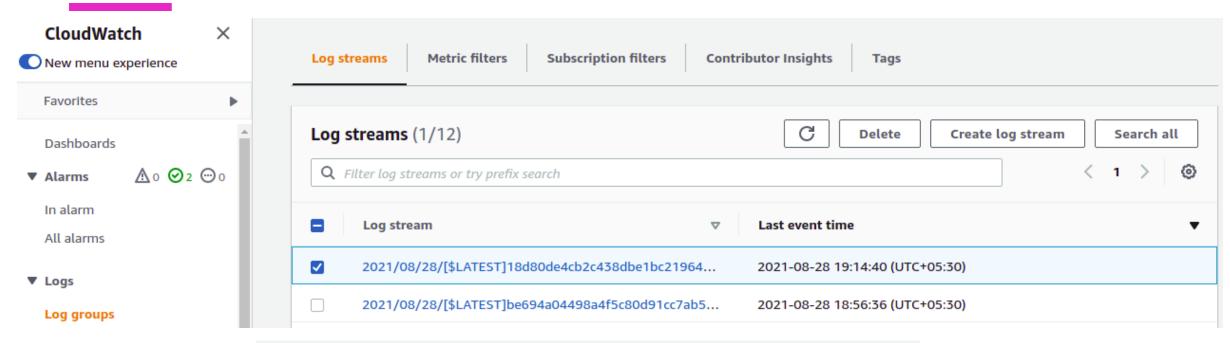
Policy statement details

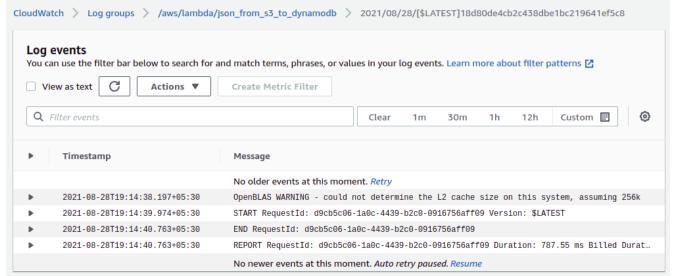
```
Statement ID
093487613626_event_permissions_from_city23082021_for_json_from_s3_to_dynamodb
Principal
s3.amazonaws.com
Effect
Allow
Action
lambda:InvokeFunction
Conditions
  "StringEquals": {
   "AWS:SourceAccount": "093487613626"
  "ArnLike": {
   "AWS:SourceArn": "arn:aws:s3:::city23082021"
```

Cloudwatch log group



Cloudwatch logs on uploading file city.json





DynamoDB table items added by lambda function

