

AWS Backend Developer Developer Test

Goal

Build a small, production-ready project that demonstrates your ability to work with AWS, backend code, and data workflows.

Task

Write a script (in any programming language you consider best suited for the task) that:

- Reads events from DynamoDB for the past hour.
- Groups the events by `clientId`.
- Stores each group in **a separate pre-existing S3 bucket per client**.

File format: JSON or CSV, filename pattern `events-YYYY-MM-DD-HH.json` (or `.csv`).

DynamoDB Structure

You can assume that the DynamoDB table contains items with the following structure:

```
```json
{
 "eventId": "string",
 "clientId": "string",
 "params": ["... "],
 "time": "2025-01-01T12:00:00Z"
}```
```

## Requirements

- Treat this as if you were delivering a production-ready project.
- Provide a clear README.md that includes:
  - Setup & configuration instructions.
  - IAM permissions required (principle of least privilege).
  - A short explanatory note: what you would still add or improve before running this in a real production system.
  - Comments on scalability, extensions, or possible future improvements are optional. Code should remain simple.
- You may use AI tools as part of your workflow.

## Evaluation Criteria

- Code quality, structure, and readability.
- Correctness of logic (grouping and storing per client).
- Documentation clarity and completeness.
- Production mindset: how close is this to being safely deployed?

## Deliverables

- GitHub repo with source code of the solution.
- README.md with setup/configuration details and explanatory notes.
- Any additional files or scripts required to run the project.

Any questions: do not hesitate to ask ***ksenia.sukhova@asaods.com***.