Cleanup / Teardown Steps – Serverless Backend API

Purpose

These steps ensure **all AWS resources created for the Serverless Backend API are deleted properly** to avoid unwanted costs. This section is important for **production hygiene, cost control, and interview documentation**.

1️⃣ Delete CloudFormation Stack (Recommended)

> **Best practice:** Always delete resources using CloudFormation if they were created using CloudFormation.

Steps

1. Open **AWS Console → CloudFormation**
2. Select the stack used for this project (e.g., `serverless-products-api`)
3. Click **Delete**
4. Confirm deletion

⏳ Wait until stack status shows **DELETE_COMPLETE**

📏 *Screenshot*: CloudFormation stack deletion in progress

What This Deletes Automatically

- DynamoDB table (`Products`)
- Lambda functions
- IAM role & policies
- API Gateway REST API
- API Gateway deployment & stage

2️⃣ Verify DynamoDB Table Deletion

Steps

1. Go to **DynamoDB → Tables**
2. Confirm `Products` table is **no longer present**

📏 *Screenshot*: DynamoDB tables list (no Products table)

🔍If table still exists, delete it manually: - Select table → Delete → Confirm

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3️⃣ Verify Lambda Functions Cleanup

Steps

1. Open **AWS Lambda → Functions**
2. Ensure the following functions are deleted:
3. `AddProductFunction`
4. `GetProductFunction`
5. `ListProductsFunction`

📏*Screenshot*: Lambda function list (functions removed)

🔍If any function exists: - Open function → Delete → Confirm

4️⃣ Verify IAM Role Cleanup

Steps

1. Go to **IAM → Roles**
2. Search for the Lambda execution role created by CloudFormation
3. Confirm the role is deleted

📏*Screenshot*: IAM roles list

🔍If role exists: - Open role → Delete role

5️⃣ Verify API Gateway Cleanup

Steps

1. Go to **API Gateway → APIs**
2. Ensure `ProductsApi` does not exist

📏*Screenshot*: API Gateway API list

🔍If API exists: - Select API → Actions → Delete

6️⃣ CloudWatch Logs Cleanup (Optional but Recommended)

Lambda logs may **remain even after deleting functions**.

Steps

1. Go to **CloudWatch → Log groups**
2. Delete log groups related to:
3. `/aws/lambda/AddProductFunction`
4. `/aws/lambda/GetProductFunction`
5. `/aws/lambda/ListProductsFunction`

📏*Screenshot*: CloudWatch log groups deletion

7️⃣ Final Cost Validation

Steps

1. Go to **AWS Billing → Cost Explorer**
2. Filter by:
3. Service: Lambda
4. DynamoDB
5. API Gateway
6. Confirm **no ongoing charges**

📏*Screenshot*: Cost Explorer filtered view

8️⃣ Interview-Ready Cleanup Explanation

> **How to explain cleanup in an interview:**

"Since all resources were provisioned using CloudFormation, I performed a clean teardown by deleting the CloudFormation stack, which automatically removed Lambda functions, DynamoDB tables, API Gateway resources, and IAM roles. I also manually verified CloudWatch log groups and checked the billing dashboard to ensure no residual costs."

9️⃣ Best Practices Followed

- Infrastructure as Code lifecycle management
- Cost optimization
- Security hygiene (IAM cleanup)
- Production-grade teardown process

✅Cleanup Completed

All resources related to the Serverless Backend API have been successfully removed, ensuring **zero ongoing cost and a clean AWS account state**.