

CIUDAD DE MÉXICO | 06 DE AGOSTO, 2025

AWS SUMMIT



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DEV301

Desplegar. Validar. Destruir. Repetir

Andres Moreno

(he/him)

Principal Software Architect

Caylent



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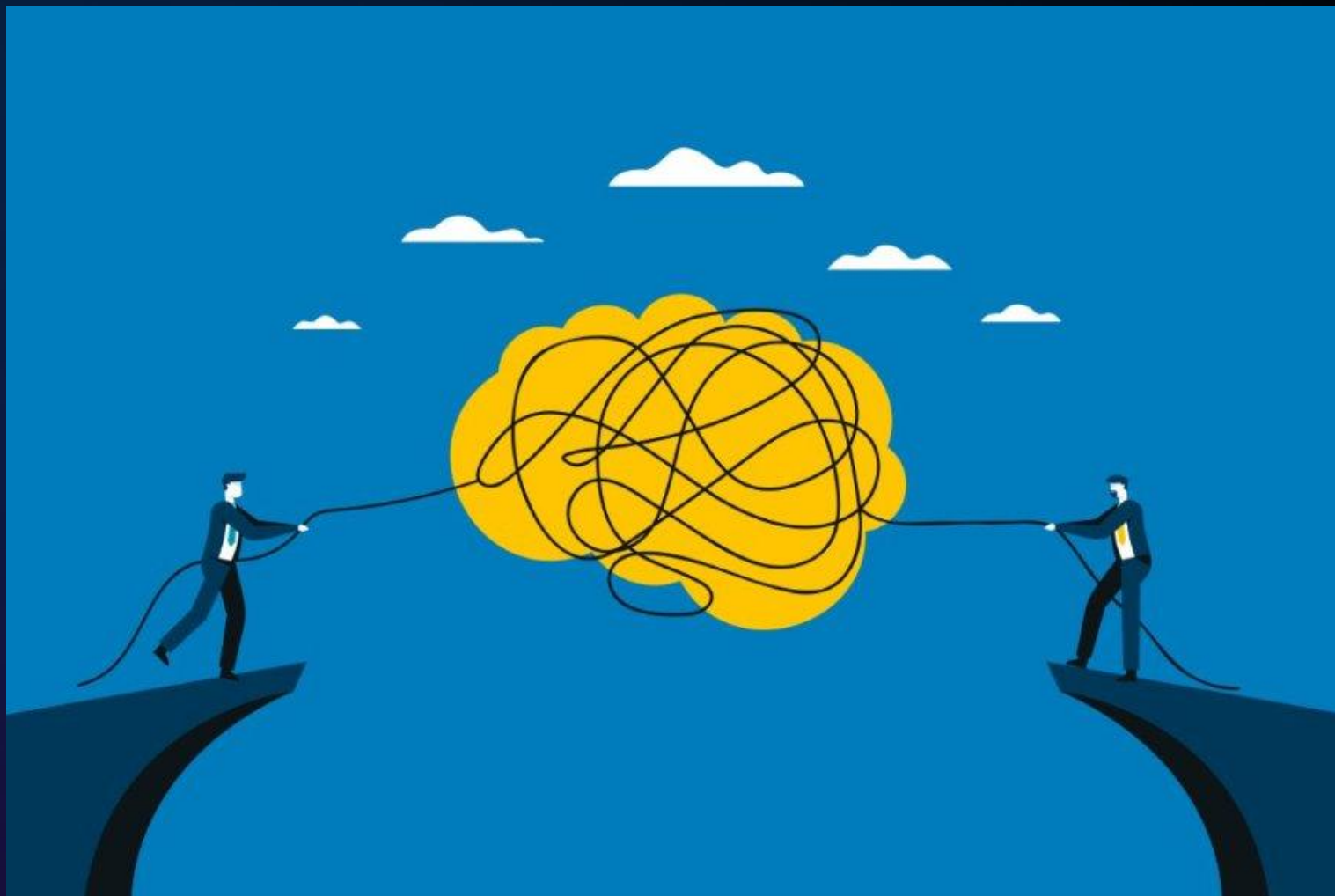
Problema



“Move your development environment towards the cloud,
do not try to move the cloud down to your dev
environment.”

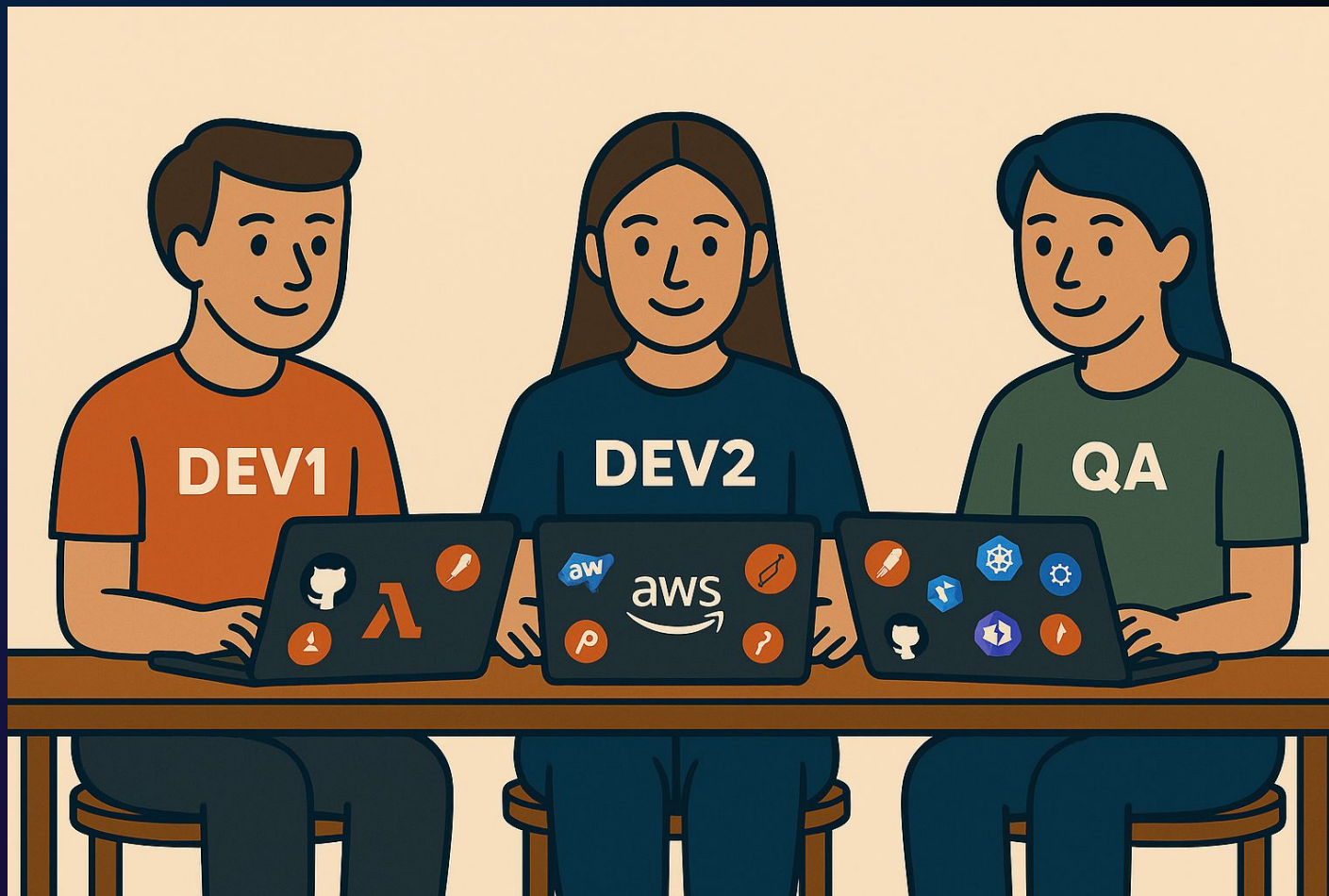
- Ben Kehoe

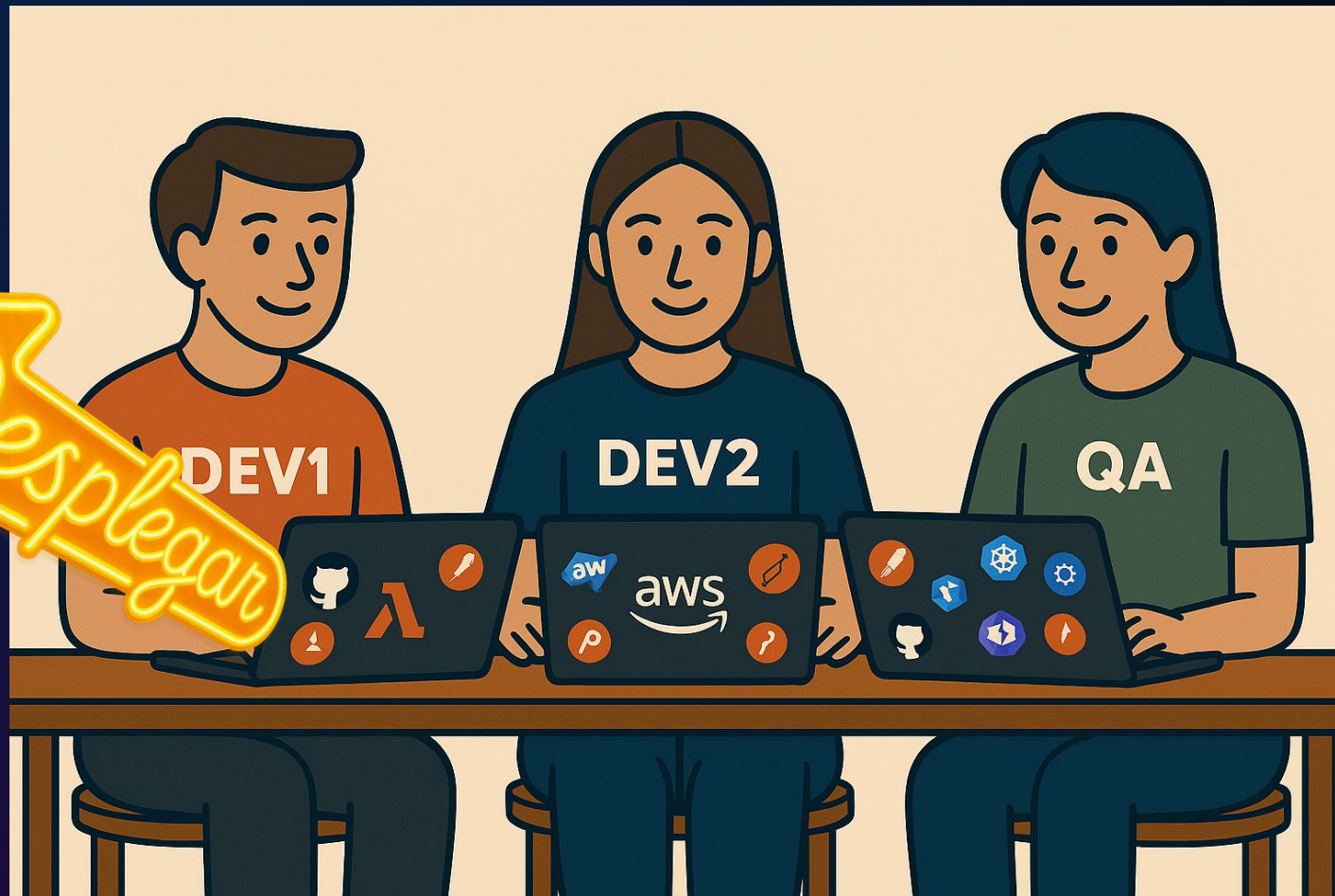
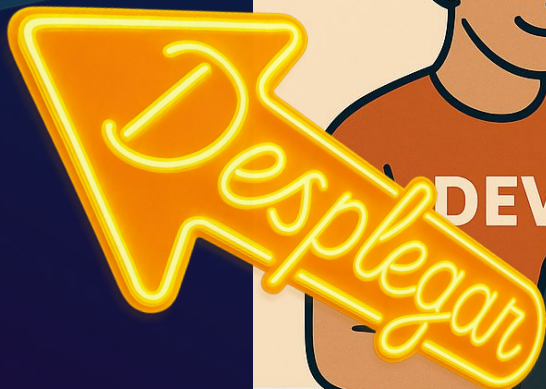


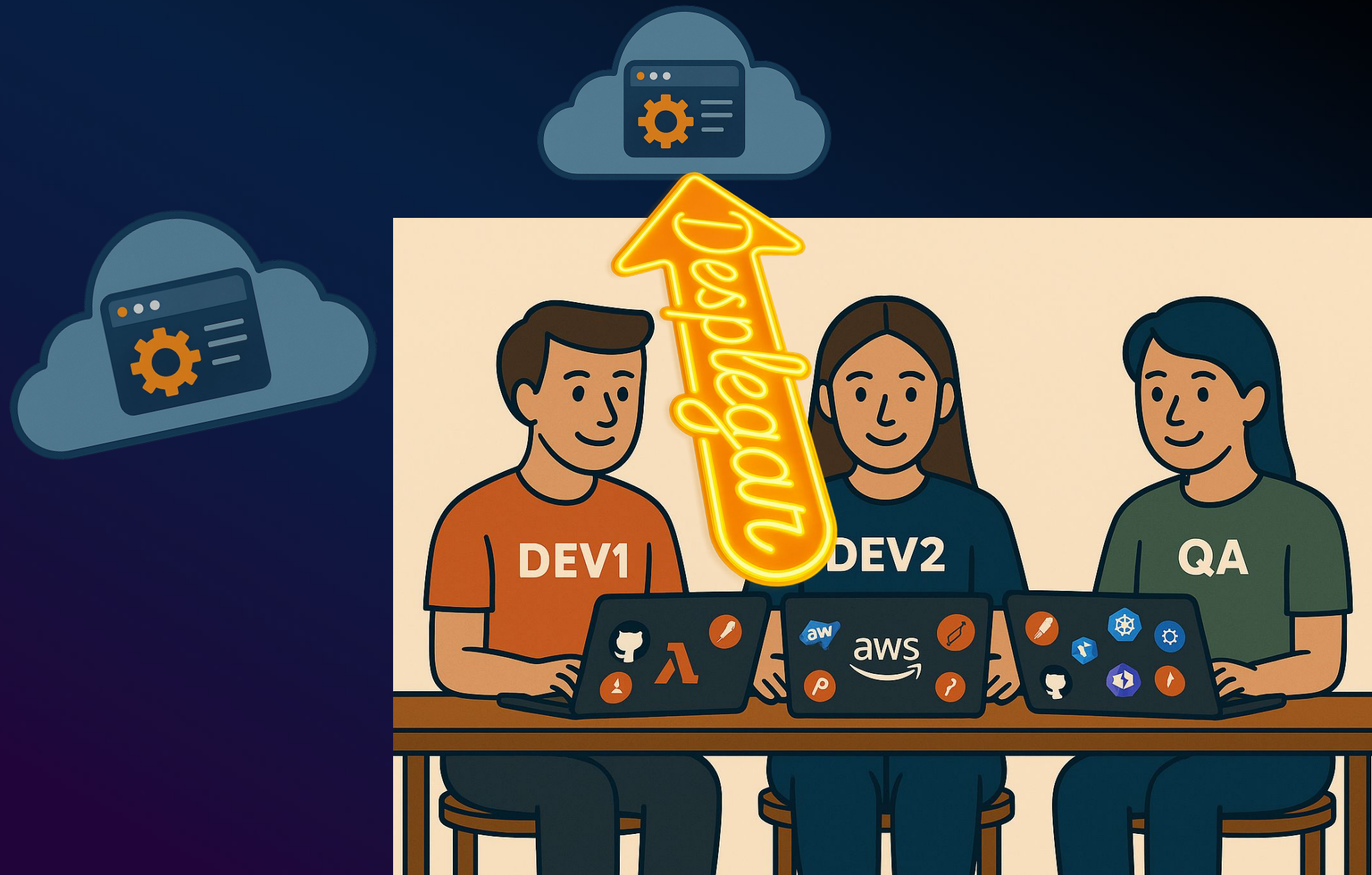


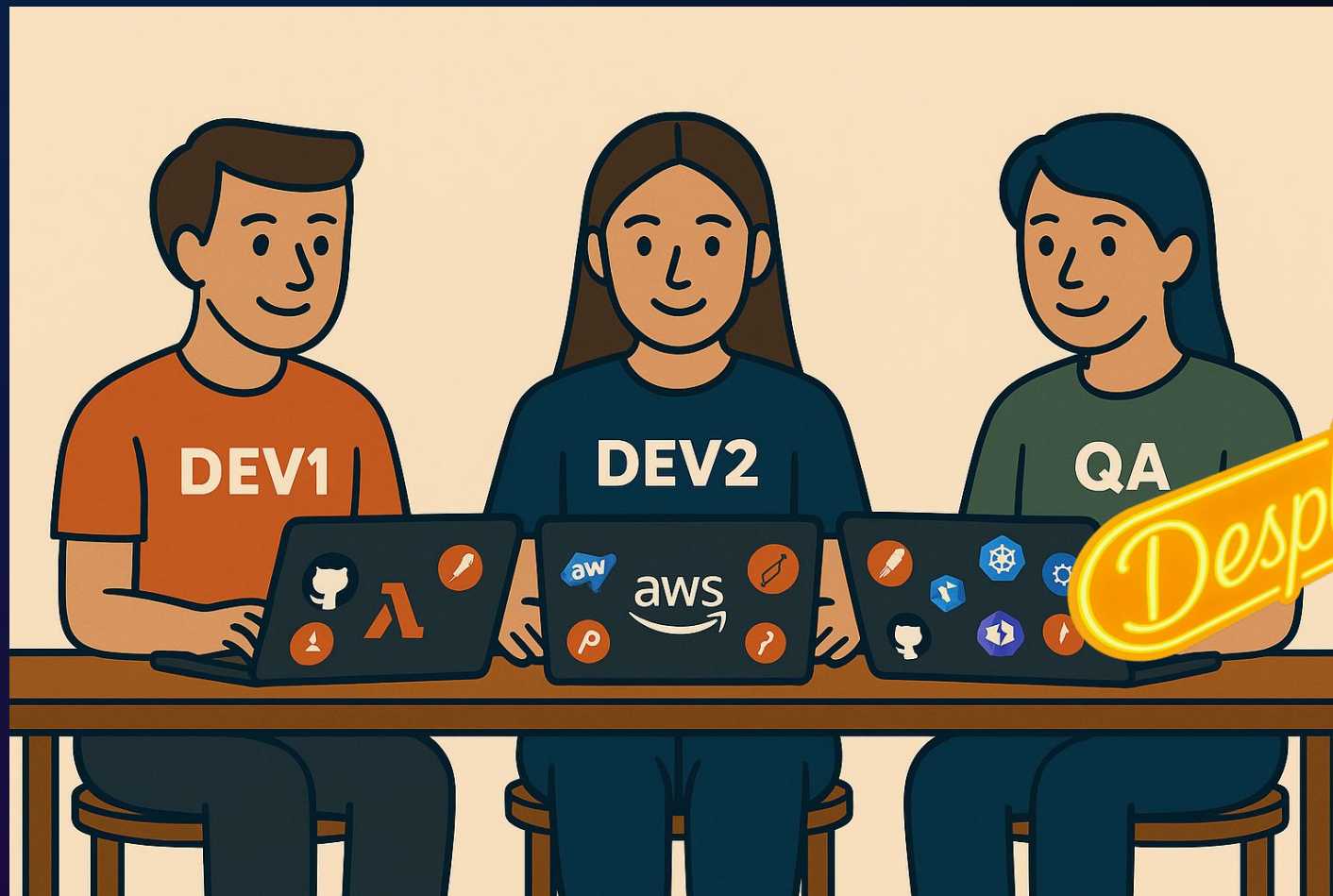
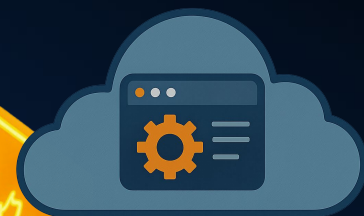
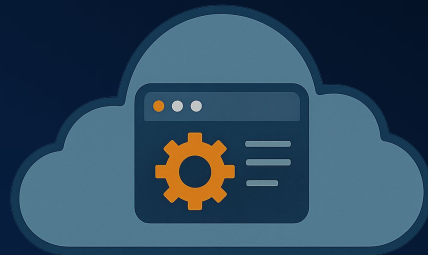
Soluciones

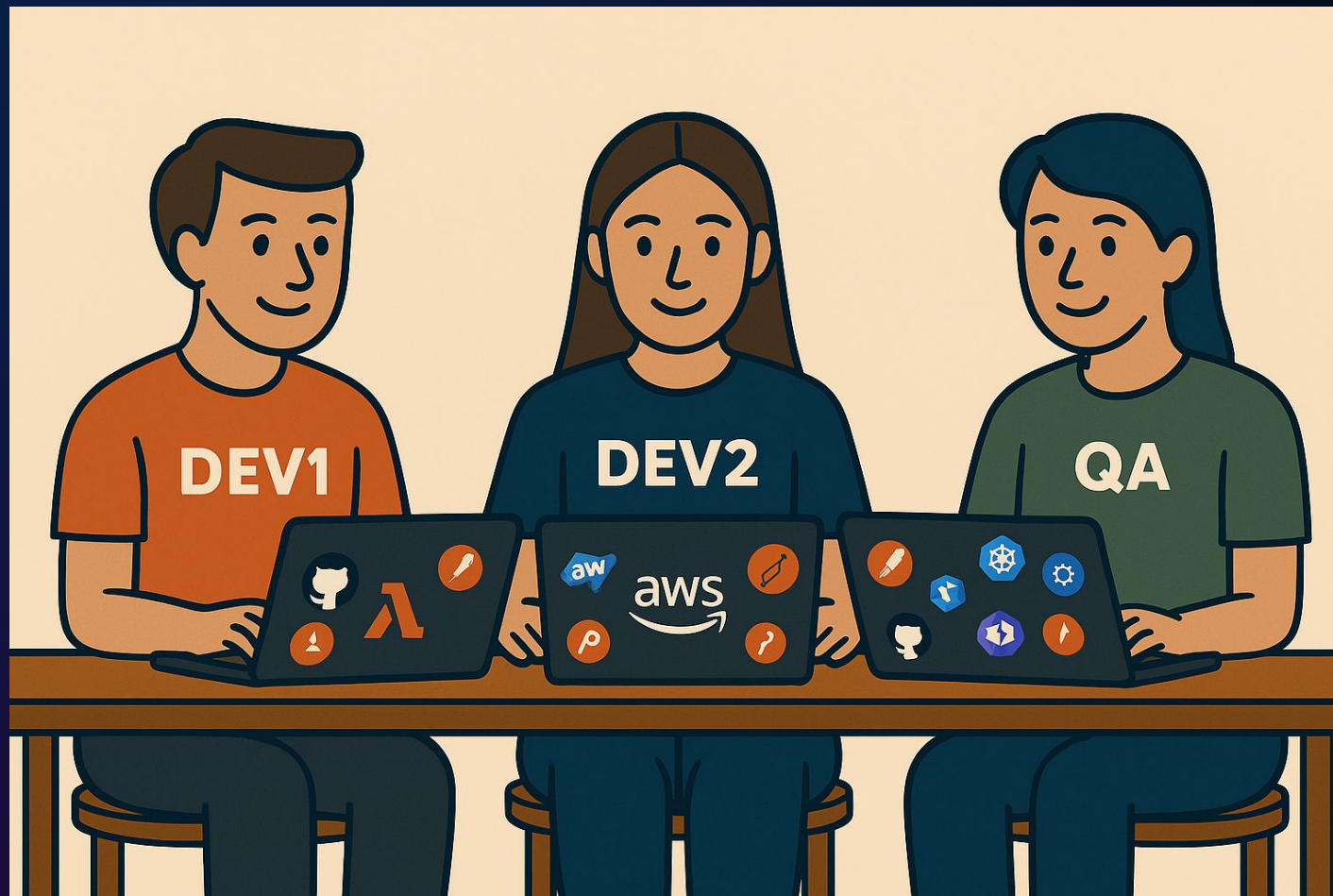
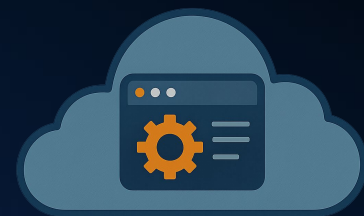
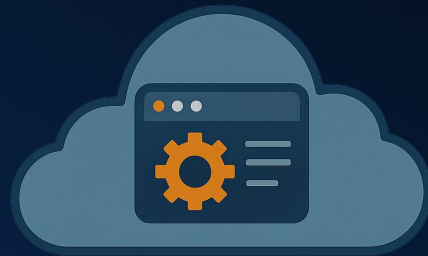


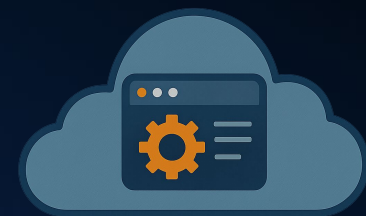
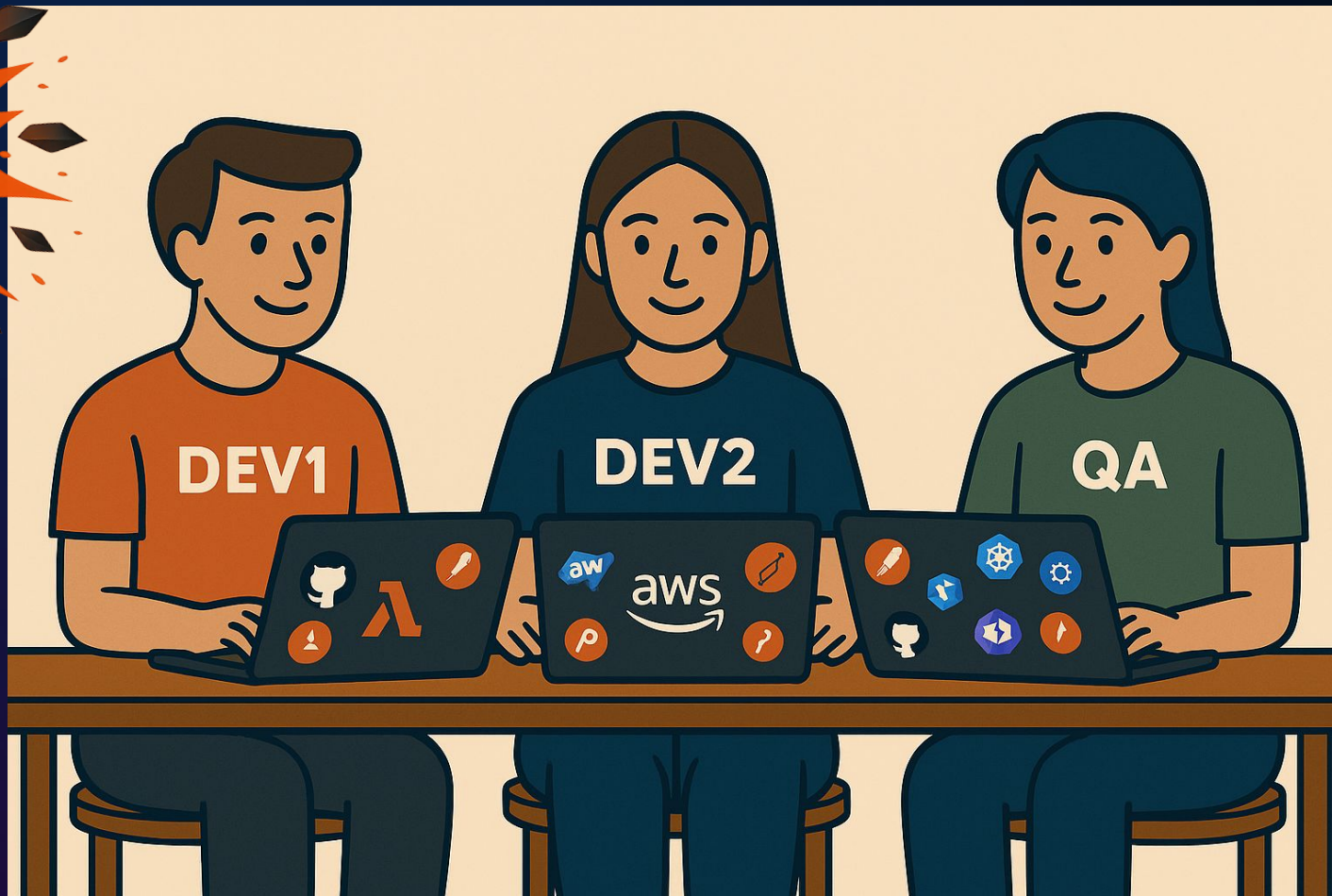
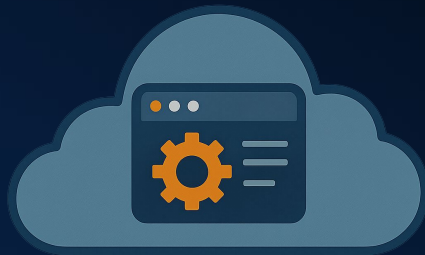


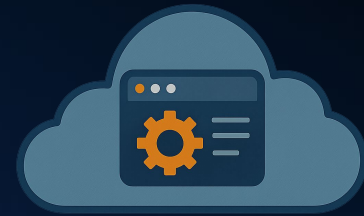


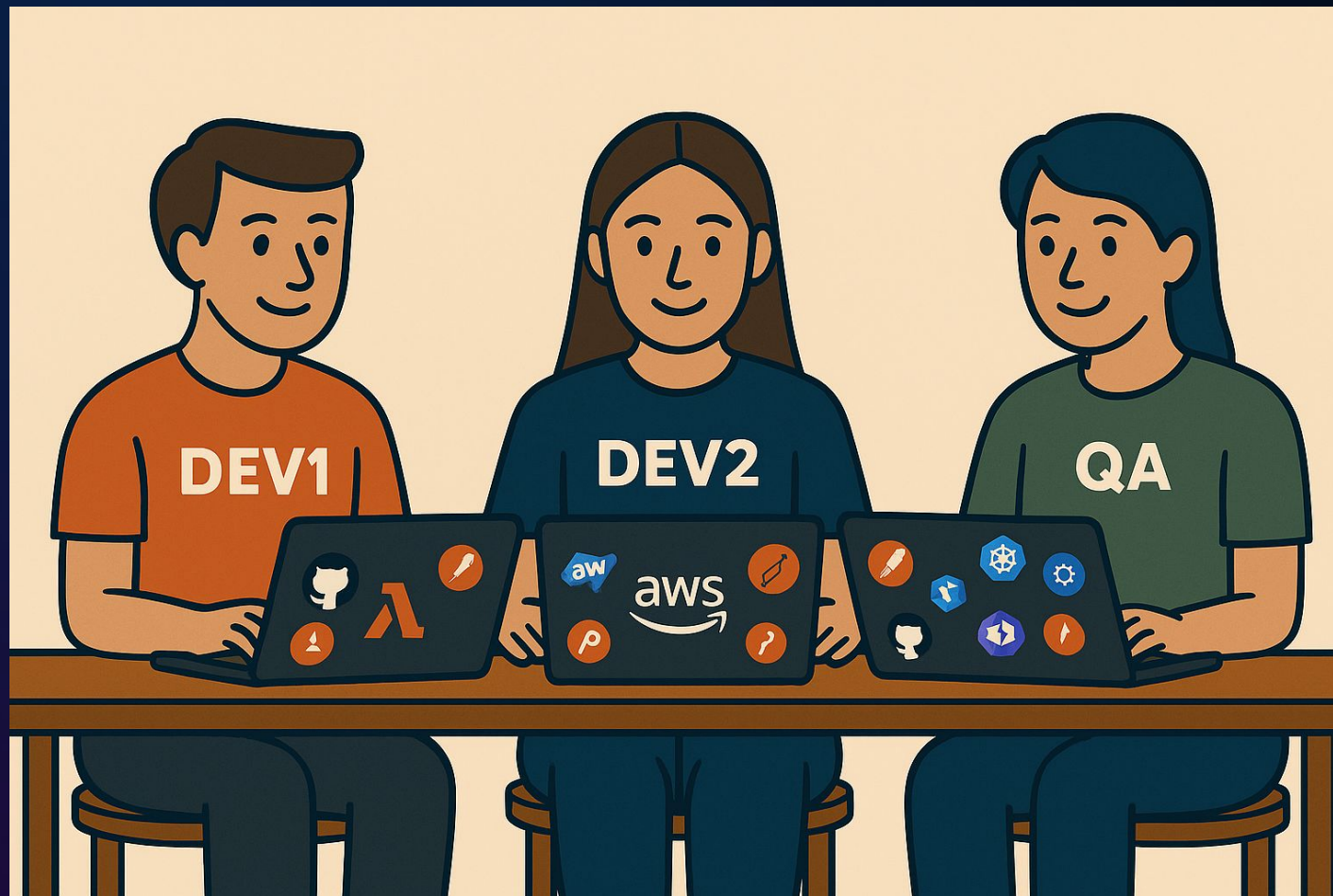


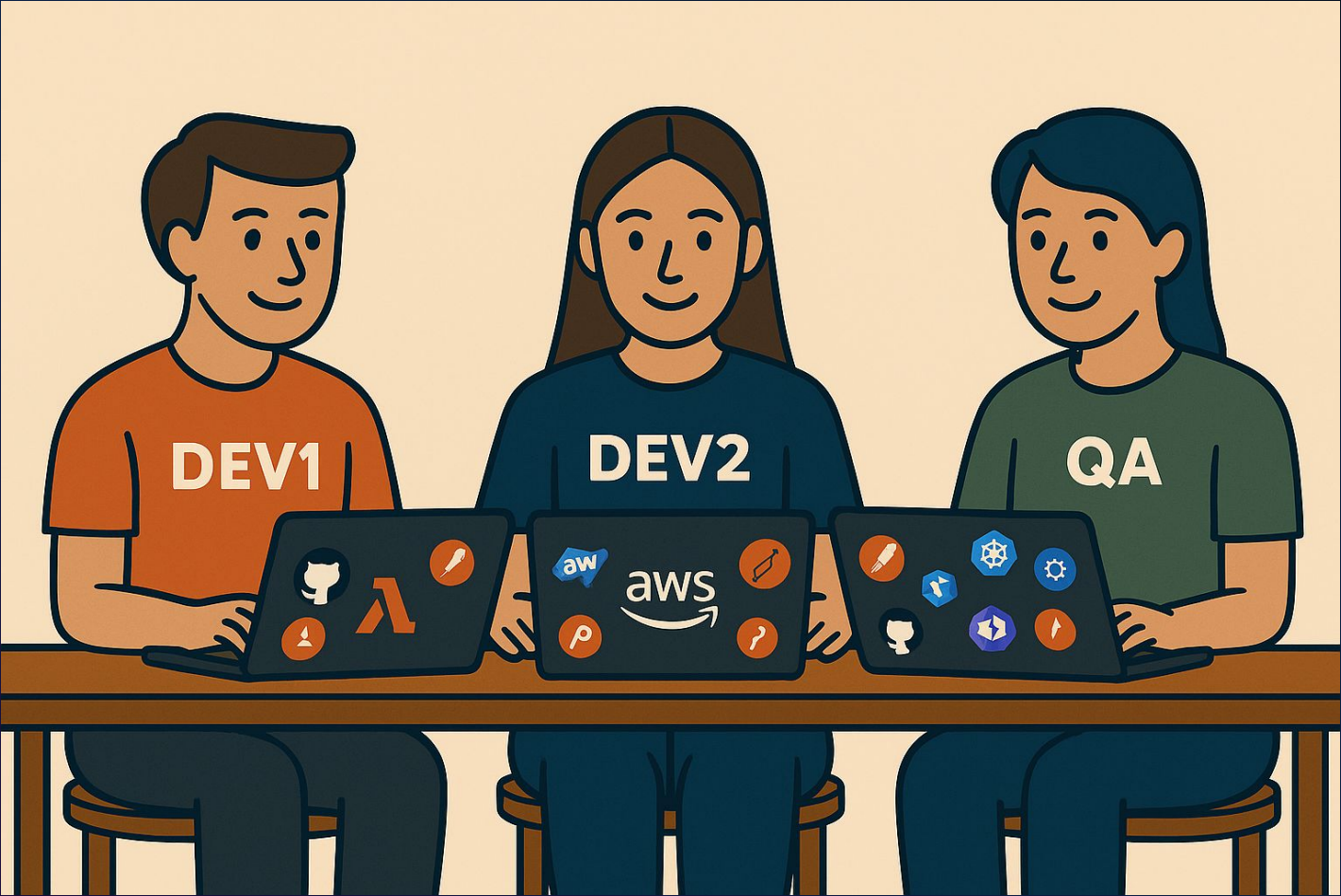




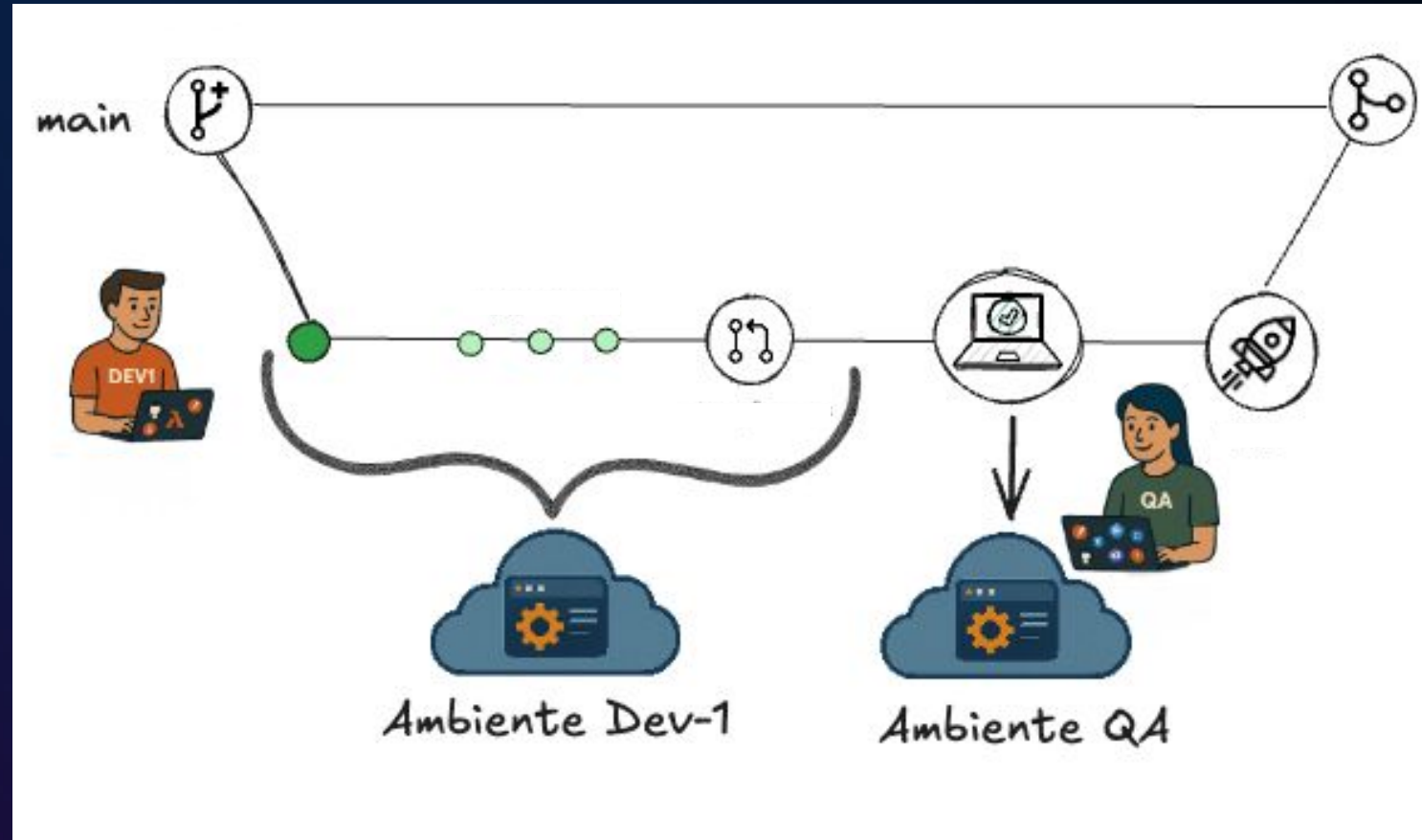


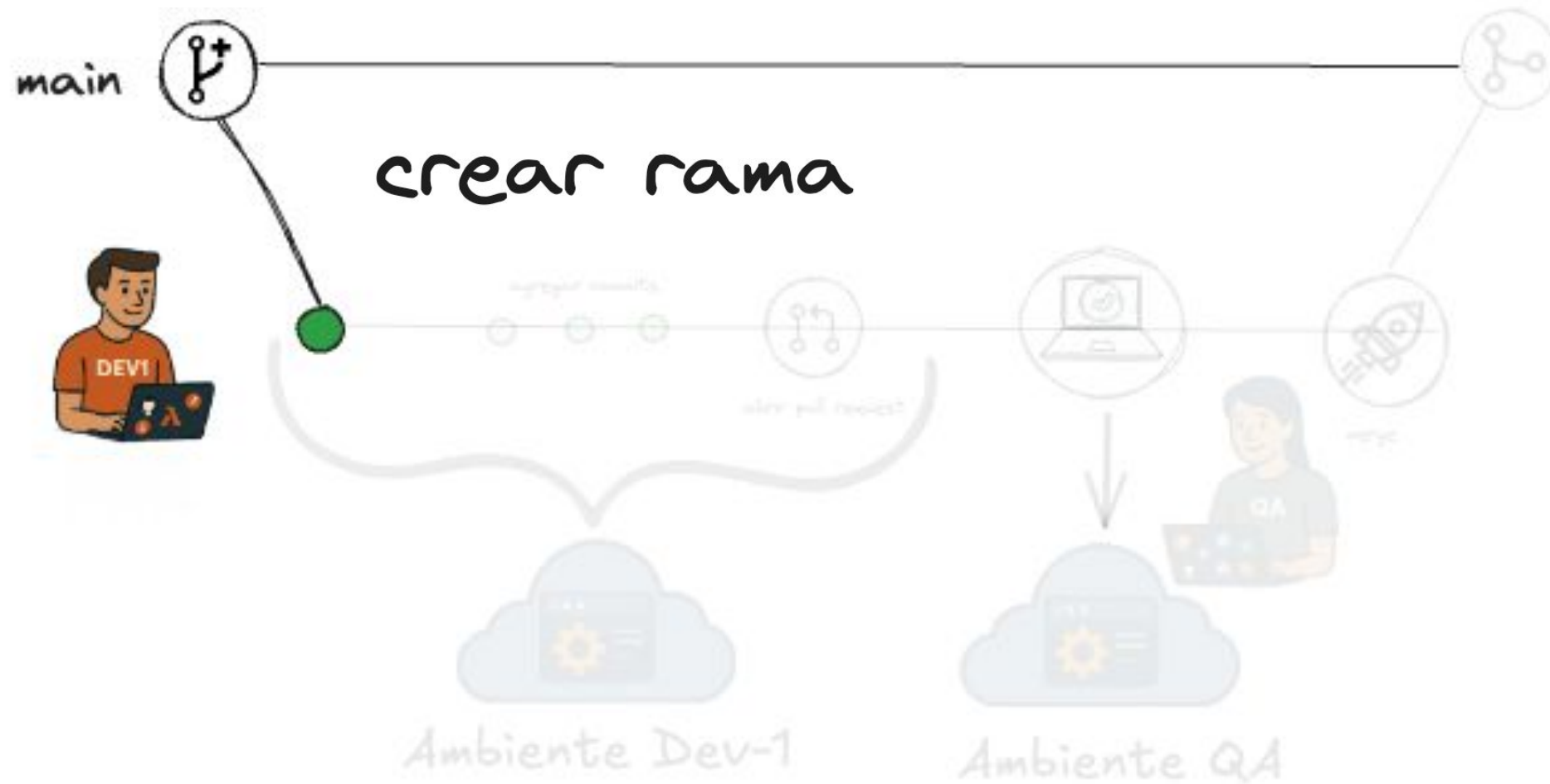


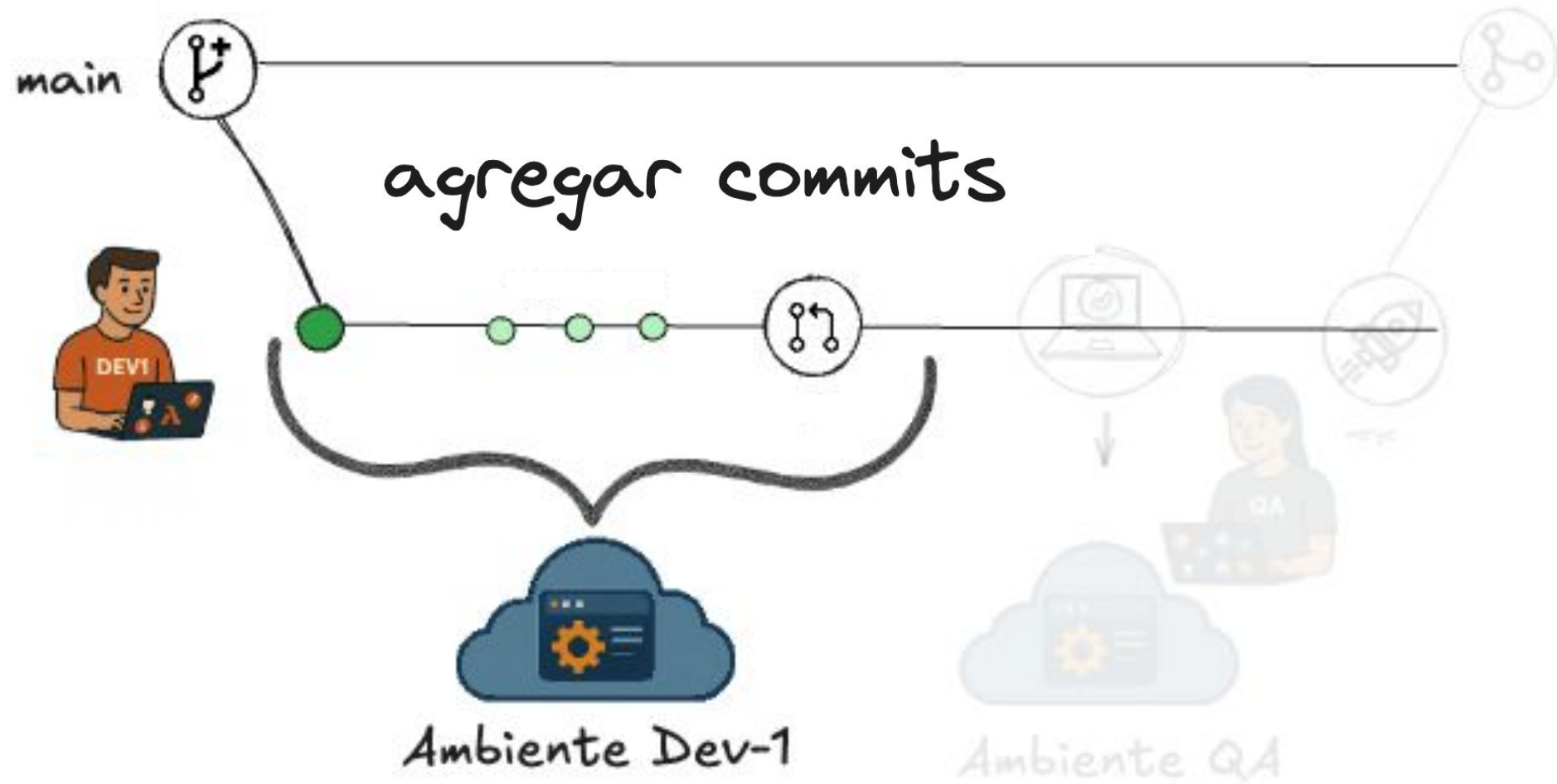


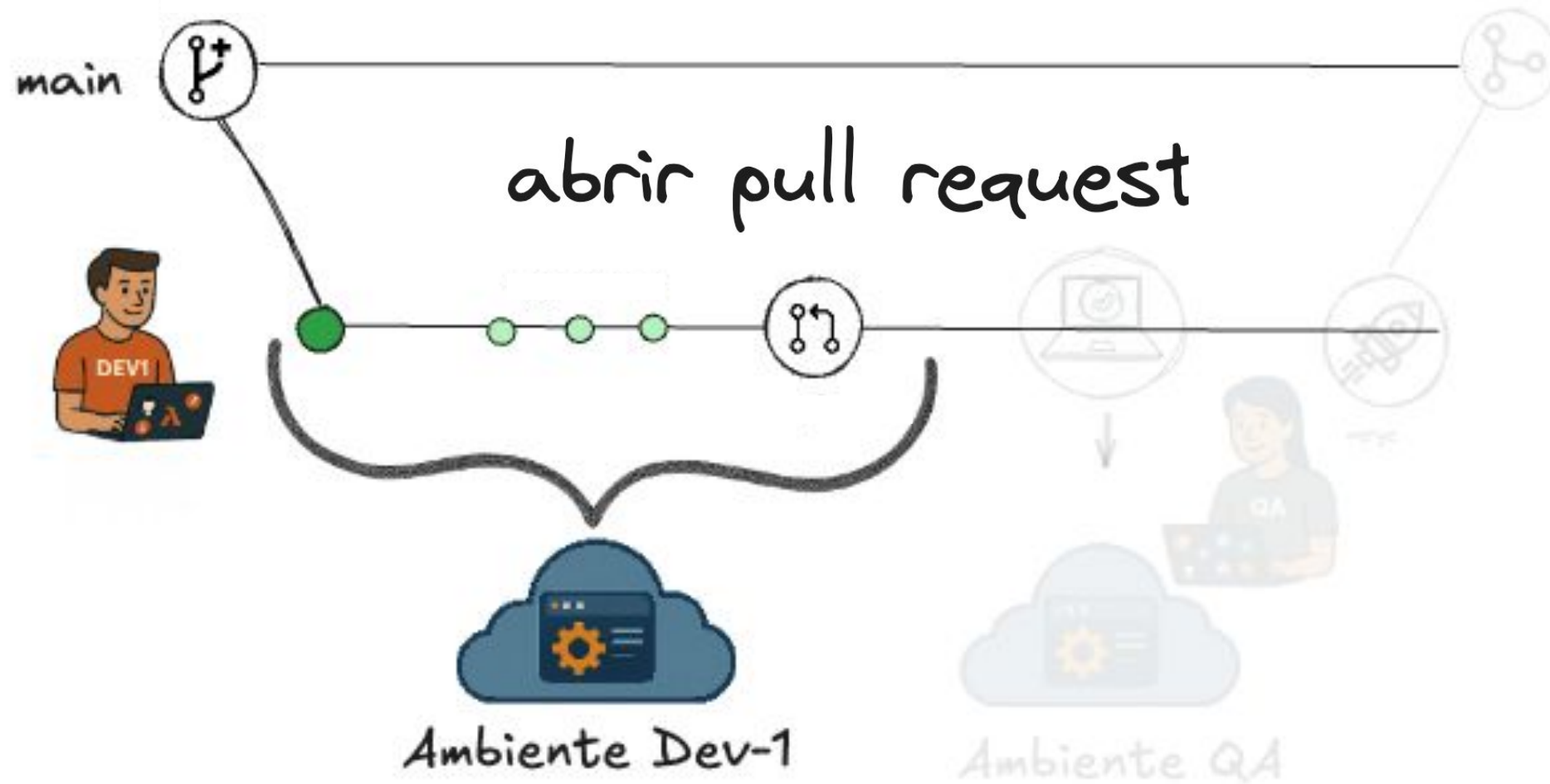


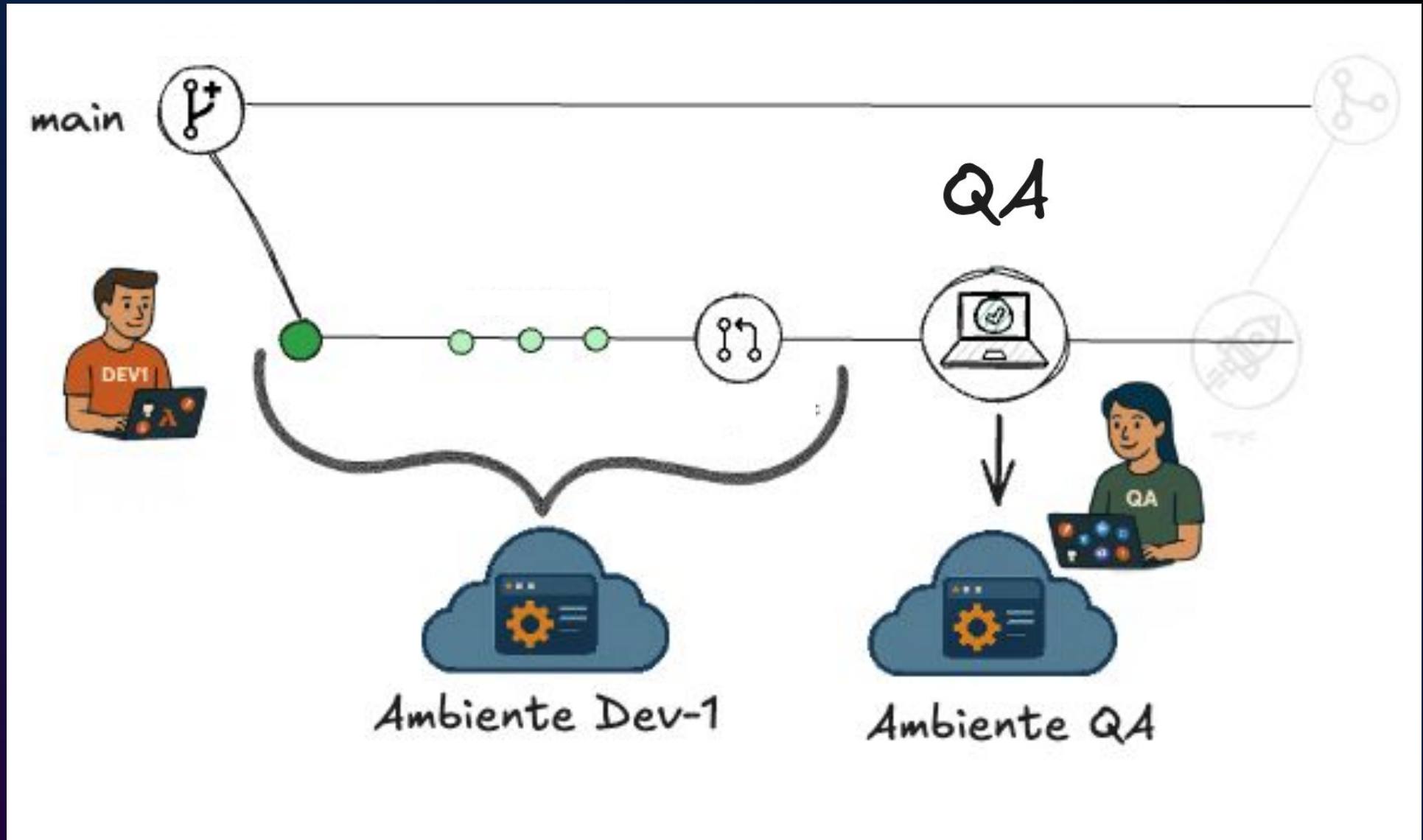
Flujo

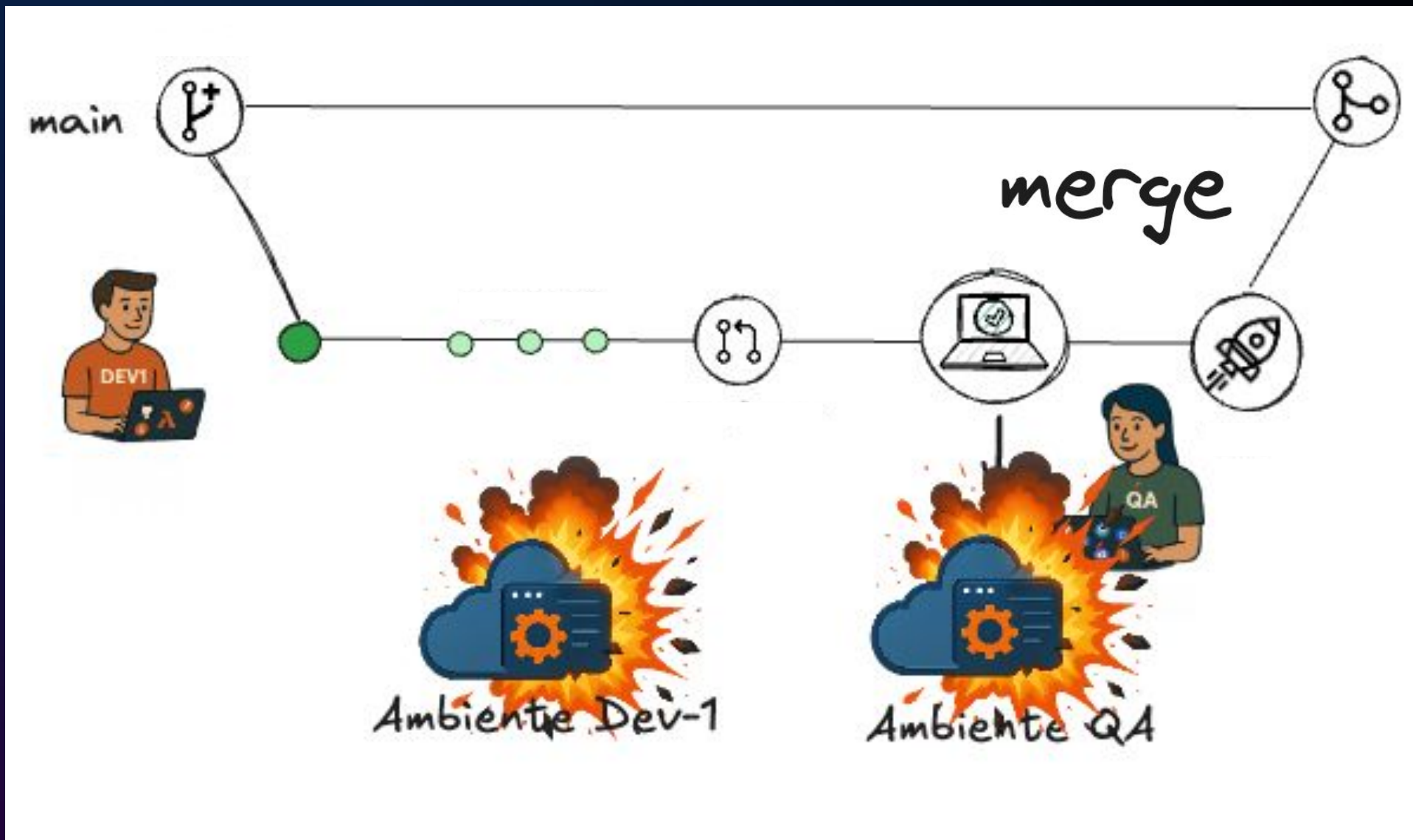








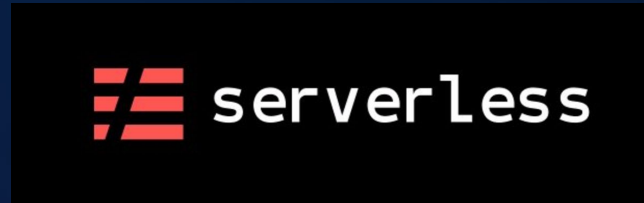




Herramientas



Infraestructura como código



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Despliegue



Infraestructura como código



AWS SAM

Despliegue



Repositorio



<https://github.com/andmoredev/aws-summit-2025>

Infraestructura como código

```
1  AWSTemplateFormatVersion: 2010-09-09
2  Description: aws-summit-mx
3  Transform:
4    - AWS::Serverless-2016-10-31
5
6  Globals:
7    Function:
8      Tracing: Active
9      Timeout: 10
10     Runtime: nodejs22.x
11     MemorySize: 128
12     Handler: index.handler
13     Architectures:
14       - arm64
15
16  Resources:
17    DynamoDBTable:
18      Type: AWS::DynamoDB::Table
19      DeletionPolicy: Delete
20      UpdateReplacePolicy: Delete
21      Properties:
22        BillingMode: PAY_PER_REQUEST
23        KeySchema:
24          - AttributeName: pk
25            KeyType: HASH
26        AttributeDefinitions:
27          - AttributeName: pk
28            AttributeType: S
29
```

```
30  Api:
31    Type: AWS::Serverless::Api
32    Properties:
33      StageName: api
34      DefinitionBody:
35        Fn::Transform:
36          Name: AWS::Include
37          Parameters:
38            Location: ./openapi.yaml
39
40  EchoFunction:
41    Type: AWS::Serverless::Function
42    Properties:
43      CodeUri: src/functions/echo
44      Events:
45        EchoEvent:
46          Type: Api
47          Properties:
48            RestApiId: !Ref Api
49            Path: /echo
50            Method: POST
51    Environment:
52      Variables:
53        TABLE_NAME: !Ref DynamoDBTable
```

Código función Lambda

```
export const handler = initializePowertools(async (event) => {
  try {
    const input = JSON.parse(event.body);

    const putItemCommand = new PutItemCommand({
      TableName: process.env.TABLE_NAME,
      Item: marshall({
        pk: ulid(),
        data: JSON.stringify(input)
      })
    });

    await dynamoDBClient.send(putItemCommand);

    return getResponse(200, {
      input
    });
  } catch (err) {
    logger.error(err, err.stack);
    return getResponse(500, { message: 'Something went wrong!' });
  }
});
```

GitHub Workflow – Preparar

```
prepare-deployment:
  name: Prepare Deployment
  runs-on: ubuntu-latest
  outputs:
    env_descriptor: ${ steps.prepare-parameters.outputs.env_descriptor }
  steps:
    - name: Prepare parameters
      id: prepare-parameters
      run: |
        # Extract the Jira number from the branch to be used as the logical environment for temporary environments.
        JIRA_NUMBER=$(echo "${ env.FULL_BRANCH_NAME }" | grep -oE '${ env.JIRA_PREFIX }-[0-9]+' || true)
        if [ -z "$JIRA_NUMBER" ]; then
          echo "No JIRA number found, generating random environment name..."
          HASH=$(echo -n "${ env.FULL_BRANCH_NAME }" | shasum | cut -c1-6)
          JIRA_NUMBER="env-${HASH}"
        fi
        ENV_DESCRIPTOR="$JIRA_NUMBER"

        echo "ENV_DESCRIPTOR=$ENV_DESCRIPTOR" >> $GITHUB_ENV
        echo "# RUN METADATA" >> $GITHUB_STEP_SUMMARY
        echo "* Environment Descriptor - $ENV_DESCRIPTOR" >> $GITHUB_STEP_SUMMARY

        echo "env_descriptor=$ENV_DESCRIPTOR" >> $GITHUB_OUTPUT
```

GitHub Workflow - Deplegar

```
- name: SAM Build and Deploy
  run: |
    npm install -g esbuild
    npm ci

    sam --info

    sam build --config-file samconfig.ci.toml

    sam deploy \
      --config-file samconfig.ci.toml \
      --config-env api \
      --s3-bucket ${ secrets.ARTIFACTS_BUCKET_NAME } \
      --no-fail-on-empty-changeset \
      --role-arn ${ secrets.CLOUDFORMATION_EXECUTION_ROLE }
```

GitHub Workflow - Destruir

```
cleanup-resources:
  name: Delete Sandbox Resources
  needs: [prepare-destruction]
  runs-on: ubuntu-latest
  environment: sandbox
  steps:
    - uses: actions/checkout@v4
      with:
        fetch-depth: 1

    - name: Configure AWS
      uses: aws-actions/configure-aws-credentials@v4
      with:
        aws-region: ${vars.AWS_REGION}
        role-to-assume: ${secrets.PIPELINE_EXECUTION_ROLE}
        role-session-name: cleanup-stack
        role-duration-seconds: 3600
        role-skip-session-tagging: true

    - name: Delete Stack
      run: |
        sam delete \
          --stack-name ${needs.prepare-destruction.outputs.env_descriptor} \
          --region ${vars.AWS_REGION} \
          --no-prompts
```

aws-community-day-2025

Public

Pin

Watch 0

Fork 0

Star 0

main

1 Branch

0 Tags

Go to file

Add file

<> Code

About

andmoredev

CLEANUP

23c3c67 · now

38 Commits

.github	FIX FULL BRANCH NAME	4 minutes ago
portman	first commit	last week
src/functions	CLEANUP	now
.gitignore	first commit	last week
.spectral.yaml	first commit	last week
eslint.config.mjs	fix eslint and change jira prefix	3 days ago
openapi.yaml	first commit	last week
package-lock.json	Merge branch 'main' into ANDMORE-1-community-day-d...	37 minutes ago
package.json	chore(deps): bump @aws-sdk/client-dynamodb	11 hours ago

About

No description, website, or topics provided.

Activity

0 stars

0 watching

0 forks

Releases

No releases published

Create a new release

Packages

No packages published

Publish your first package

Puntos de atención





Recursos Costosos y Lentos de Provisionar



Amazon Managed Streaming
for Apache Kafka
(Amazon MSK)



Amazon Elastic Kubernetes
Service (Amazon EKS)



Amazon ElastiCache



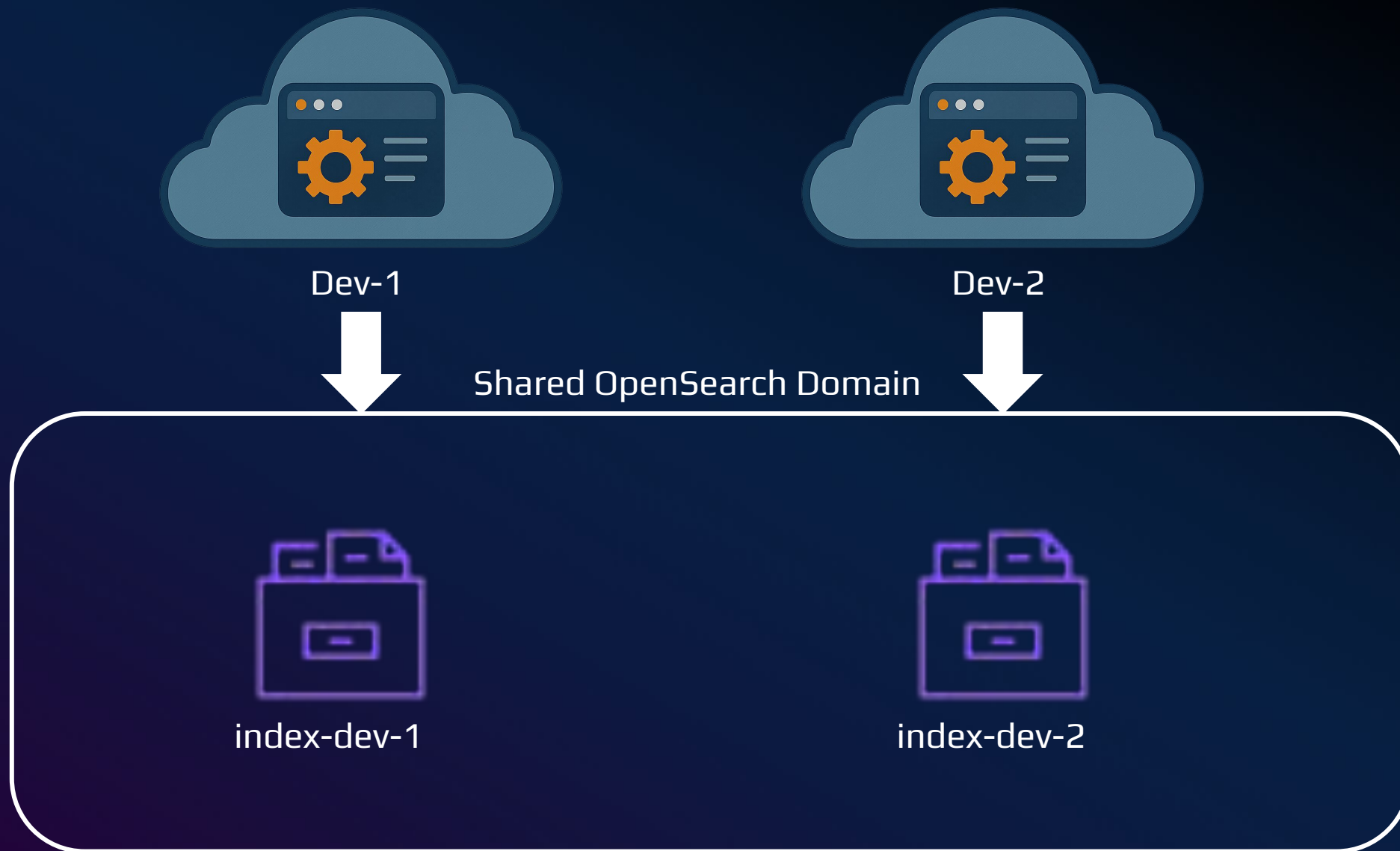
Amazon OpenSearch Service

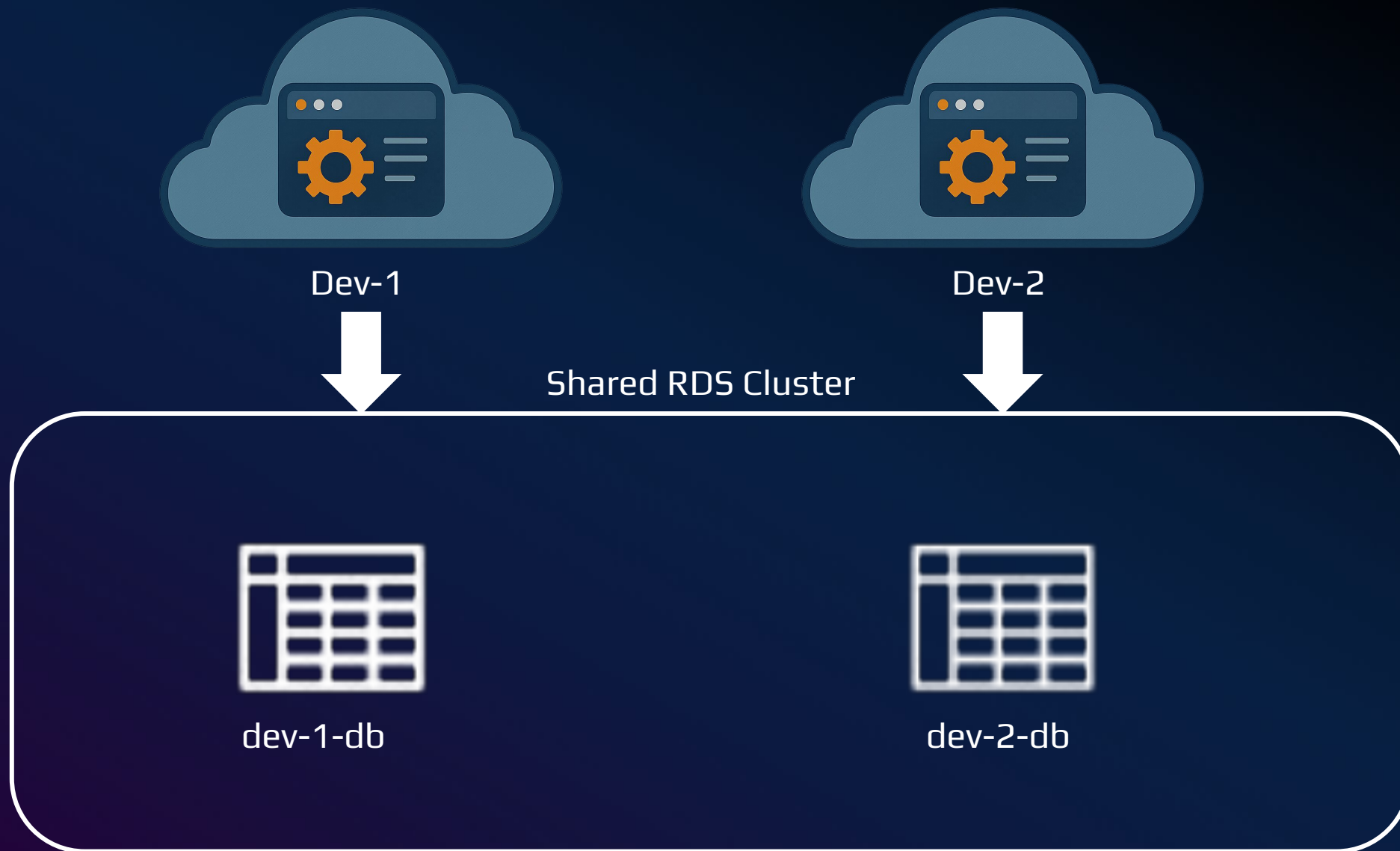


Elastic Load Balancing

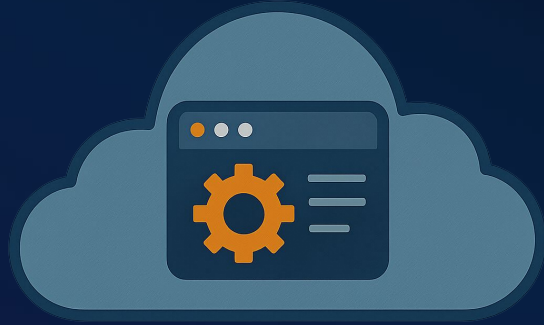


Amazon Relational Database
Service (Amazon RDS)

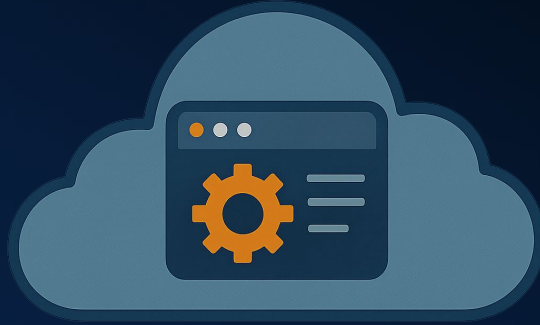




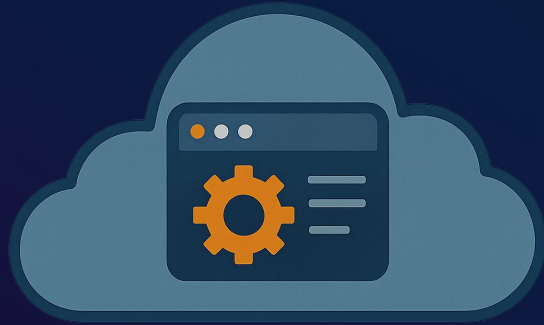
Multiples Microservicios



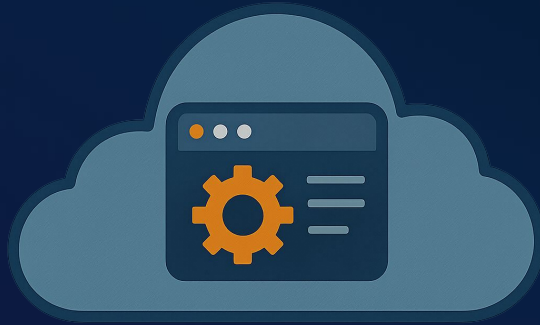
Servicio A



Servicio B

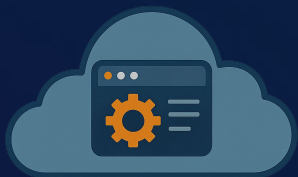


Servicio C

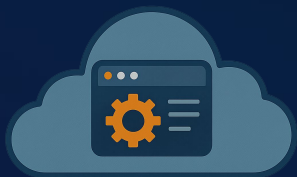


Servicio D

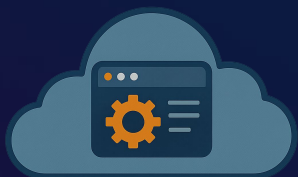
Ambiente 1



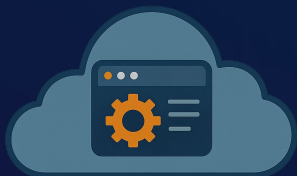
Servicio A



Servicio B

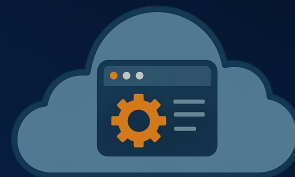


Servicio C

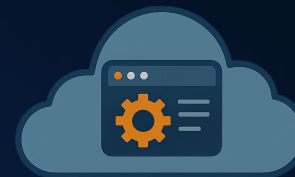


Servicio D

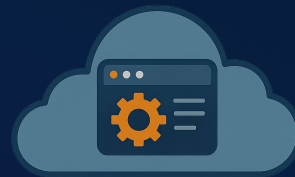
Ambiente 2



Servicio A



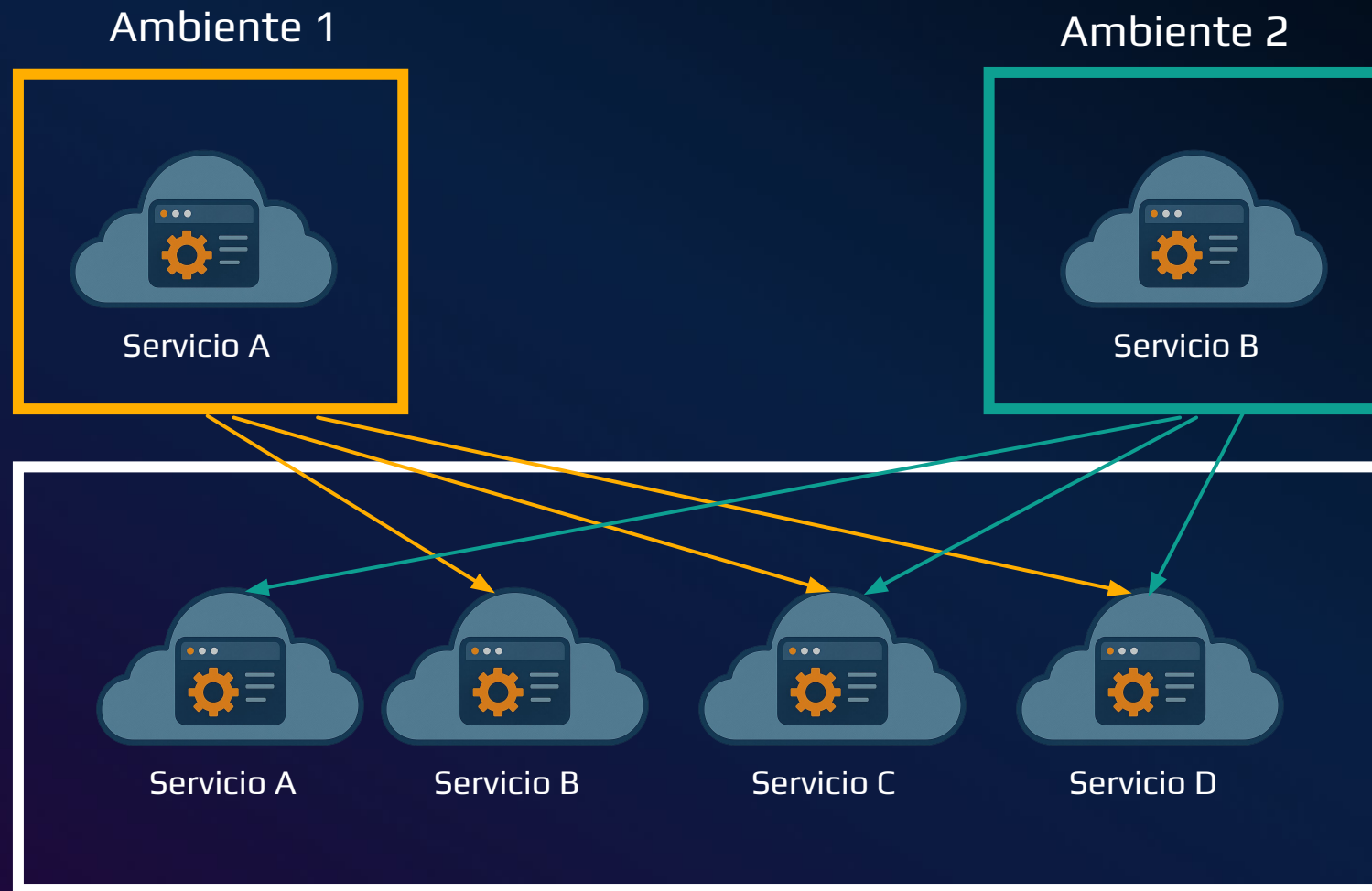
Servicio B



Servicio C



Servicio D



¡Gracias!

Andres Moreno

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Complete la encuesta de la sesión en la aplicación móvil