**DevOps Estimation**

**Source Code Management & Branching Strategy:**

Setting up and configuring a version control system (e.g., Git): 2 days.

Defining branching strategy and workflow (e.g., GitFlow): 1 day.

Training the team on the chosen branching strategy: 1 day.

**Build Code:**

Configuring build automation tool (e.g., Jenkins): 2 days.

Writing build scripts and defining build steps: 3 days.

Setting up build agents or containers: 2 days.

**Code Quality, Code Coverage & Publish Reports:**

Configuring code quality tools (e.g., SonarQube): 1 day.

Integrating code coverage tools: 1 day.

Generating and publishing reports: 1 day.

**Publish Build Artifacts:**

Configuring artifact repositories (e.g., Nexus, JFrog Artifactory): 0.5-1 day.

Setting up artifact publishing scripts: 1 day.

**Docker Image Creation and Publishing in ECR:**

Creating Dockerfiles and defining build processes: 2 days.

Configuring Docker build and push scripts: 2 days.

Setting up and configuring Amazon Elastic Container Registry (ECR): 1 day.

**Deploy to AWS ECS (DEV):**

Configuring AWS Elastic Container Service (ECS): 1 day.

Writing deployment scripts or configuration files (e.g., AWS CloudFormation, AWS CDK): 2-3 days.

Setting up deployment pipelines: 2 days.

**Release Promotion to Next Environments:**

Configuring environment-specific deployment configurations: 0.5-1 day per environment.

Defining release promotion process and strategies: 0.5-1 day.

**IAM and Related Components Pipeline via AWS CDK:**

Setting up AWS Identity and Access Management (IAM) roles and policies: 2 days.

Writing infrastructure-as-code (IaC) using AWS CDK: days.

Configuring CI/CD pipelines for managing IAM-related components: 2-3 days.

**Enabling AWS CloudWatch Monitoring:**

Configuring CloudWatch agents and metrics: 1 day.

Defining monitoring dashboards and alarms: 2 days.

Setting up logging and log aggregation: 2 day.