# DOP-C02 Service Map

Quick service-to-purpose map for AWS DevOps Engineer Professional revision.

| BEST FOR | FOCUS | USE WITH |
|---|---|---|
| Mapping service names to real exam use cases | Delivery stack, runtime targets, fleet ops, and security | Cheat Sheet + Quick Summary |

## 1. Delivery and developer tools

**CodeCommit/Connections** - Source integration for pipeline triggers and reviews.
**CodePipeline** - Stage orchestration across build, test, approval, and deploy.
**CodeBuild** - Managed builds, tests, scans, and package creation.
**CodeDeploy** - In-place or blue/green deployments for EC2, Lambda, and ECS.
**CloudFormation** - Baseline IaC engine for repeatable environments.

## 2. Runtime and release targets

**Lambda** - Serverless release target with versions, aliases, and traffic shifting.
**ECS** - Managed container scheduler integrated tightly with AWS services.
**EKS** - Kubernetes platform for teams that need Kubernetes-native controls.
**EC2 + Auto Scaling** - Classic mutable or immutable host-based workloads.
**Elastic Beanstalk** - Higher-level app platform for simpler managed deployments.

## 3. Operations and fleet control

**Systems Manager** - Run commands, automate patching, manage sessions and parameters.
**CloudWatch** - Metrics, logs, alarms, dashboards, and synthetic checks.
**CloudTrail** - API activity history for audit and investigation.
**Config** - Resource compliance state and change tracking.
**EventBridge** - Event routing for automation and response workflows.

## 4. Security and shared services

**IAM** - Role-based access for pipelines, workloads, and operators.
**KMS** - Encryption keys for data, artifacts, and secret protection.
**Secrets Manager** - Secret storage and rotation for apps and automation.
**S3** - Artifact storage, logs, backups, and static distribution.
**SNS/SQS** - Notifications and decoupled event handling in ops flows.