

SAP-C02 Service Map

Quick service-to-purpose map for the AWS services that appear most often in SAP-C02 scenarios.

BEST FOR	Last review before mini test or app session
FOCUS	Service selection by category and architectural role
USE WITH	Cheat Sheet + Quick Summary

1. Compute and integration

EC2 — full control compute for custom OS and deep tuning.

Lambda — event-driven code with no server management.

ECS / EKS / Fargate — container orchestration choices by control and operations model.

Step Functions — stateful workflow orchestration across services.

EventBridge / SNS / SQS — routing, pub-sub, and decoupled queueing.

2. Storage and databases

S3 — object storage, data lake, archive workflows, static assets.

EBS / EFS / FSx — block, shared file, and specialized file systems.

RDS / Aurora — managed relational engines for transactional workloads.

DynamoDB — key-value at scale with single-digit millisecond access.

Redshift / OpenSearch — analytics warehouse vs search/log analytics platform.

3. Network and delivery

VPC — isolation boundary for AWS networking.

Transit Gateway — central network hub across VPCs and on-prem.

Direct Connect / VPN — dedicated private link vs internet-based encrypted tunnel.

Route 53 — DNS plus health checks and routing policies.

CloudFront / Global Accelerator — edge cache vs global front door.

4. Identity, security, and operations

IAM / IAM Identity Center — workload permissions vs workforce access.

KMS / Secrets Manager — encryption keys and secret lifecycle.

CloudTrail / Config / Security Hub — audit, compliance, and findings aggregation.

CloudWatch / X-Ray — metrics, logs, alarms, traces, service maps.

Organizations / Control Tower — multi-account governance and landing zones.