**📊 Analytics**

**Mais cobrados:**

* ✅ **Amazon Athena** – consultas SQL em dados no S3 (serverless).
* ✅ **Amazon Kinesis** – ingestão em tempo real (Data Streams, Firehose).
* ✅ **Amazon OpenSearch Service** – busca e análise de logs (ex-Elasticsearch).
* ✅ **Amazon Redshift** – data warehouse.

**Menos comuns:**

* AWS Data Exchange, AWS Data Pipeline, AWS Lake Formation, MSK, QuickSight, Glue.

**🔗 Application Integration**

**Mais cobrados:**

* ✅ **Amazon SNS** – pub/sub, notificação simples.
* ✅ **Amazon SQS** – filas assíncronas desacoplando sistemas.
* ✅ **Amazon EventBridge** – eventos baseados em regra (serverless).
* ✅ **AWS Step Functions** – orquestração de funções Lambda e serviços.

**Menos cobrados:**

* AppFlow, AppSync, Amazon MQ.

**💰 AWS Cost Management**

**Mais cobrados:**

* ✅ **AWS Budgets** – definir alertas de custo.
* ✅ **AWS Cost Explorer** – análise de gastos e previsão.
* ✅ **Savings Plans** – economias em EC2, Lambda, Fargate.

**Menos cobrados:**

* AWS Cost and Usage Report (aparece mais em perguntas de billing avançadas).

**⚙️ Compute**

**Mais cobrados:**

* ✅ **Amazon EC2** – instâncias, tipos, AMIs, placement groups.
* ✅ **EC2 Auto Scaling** – elasticidade e alta disponibilidade.
* ✅ **AWS Elastic Beanstalk** – PaaS para aplicações web.
* ✅ **AWS Lambda** – execução serverless.

**Menos cobrados:**

* AWS Batch, Outposts, Serverless App Repo, Wavelength, VMware Cloud.

**🐳 Containers**

**Mais cobrados:**

* ✅ **Amazon ECS** – gerência de containers (usado com Fargate).
* ✅ **Amazon EKS** – Kubernetes gerenciado.
* ✅ **Amazon ECR** – repositório de imagens Docker.

**Menos cobrados:**

* ECS Anywhere, EKS Anywhere, EKS Distro.

**🛢️ Database**

**Mais cobrados:**

* ✅ **Amazon RDS** – bancos relacionais (MySQL, PostgreSQL etc).
* ✅ **Amazon Aurora** – alta performance, compatível com MySQL/Postgres.
* ✅ **Amazon DynamoDB** – NoSQL gerenciado, altamente escalável.
* ✅ **Amazon ElastiCache** – caching com Redis/Memcached.
* ✅ **Amazon Redshift** – warehouse (repetido acima).

**Menos cobrados:**

* DocumentDB, Neptune, Keyspaces, QLDB, Timestream.

**🛠️ Developer Tools**

**Mais cobrado:**

* ✅ **AWS X-Ray** – rastreamento de chamadas e análise de performance (com Lambda ou microserviços).

**🌐 Front-End Web and Mobile**

**Mais cobrado:**

* ✅ **Amazon API Gateway** – expõe APIs para apps, integra com Lambda e IAM.

**Menos cobrados:**

* Amplify, Device Farm, Pinpoint (aparecem em questões mais específicas).

**🤖 Machine Learning**

**Mais cobrado:**

* ✅ **Amazon SageMaker** – criação e deploy de modelos ML.
* ✅ **Amazon Rekognition** – visão computacional (reconhecimento facial etc).

**Menos cobrados:**

* Comprehend, Forecast, Polly, Textract, Translate, Lex, Kendra etc.

**🛡️ Management and Governance**

**Mais cobrados:**

* ✅ **AWS CloudFormation** – IaC para provisionamento automatizado.
* ✅ **AWS CloudTrail** – logs de ações e auditoria.
* ✅ **Amazon CloudWatch** – logs, métricas, alarmes.
* ✅ **AWS Config** – compliance e rastreamento de mudanças.
* ✅ **AWS Systems Manager** – gerenciamento de instâncias, parâmetros, patching.
* ✅ **AWS Trusted Advisor** – recomendações de boas práticas.
* ✅ **AWS Organizations** – controle multi-contas.

**Menos cobrados:**

* License Manager, ProtonALEATORIO
* , Grafana, Prometheus, Control Tower, Service Catalog.

**🎞️ Media Services**

**Pouco cobrados ou irrelevantes:**

* Elastic Transcoder, Kinesis Video Streams.

**🔄 Migration and Transfer**

**Mais cobrados:**

* ✅ **AWS Application Migration Service (CloudEndure)** – migração lift-and-shift.
* ✅ **AWS Database Migration Service (DMS)** – migração de bancos com pouco downtime.
* ✅ **AWS Snow Family** – movimentação de grandes volumes de dados.

**Menos cobrados:**

* DataSync, Migration Hub, Transfer Family, SMS, Application Discovery.

**🌍 Networking and Content Delivery**

**Mais cobrados:**

* ✅ **Amazon VPC** – redes, subnets, route tables, NACLs, SGs.
* ✅ **Elastic Load Balancing (ELB)** – distribuição de tráfego (ALB/NLB).
* ✅ **Amazon Route 53** – DNS com roteamento e health checks.
* ✅ **AWS Direct Connect** – link dedicado.
* ✅ **AWS VPN** – site-to-site, client VPN.
* ✅ **AWS Global Accelerator** – roteamento global otimizado.

**Menos cobrados:**

* PrivateLink, Transit Gateway (cai de vez em quando).

**🔐 Security, Identity, and Compliance**

**Mais cobrados:**

* ✅ **AWS IAM** – usuários, políticas, roles, permissões.
* ✅ **AWS KMS** – chaves gerenciadas, encriptação.
* ✅ **Amazon Cognito** – autenticação de usuários em apps.
* ✅ **AWS WAF** – proteção de apps web.
* ✅ **AWS Shield** – proteção contra DDoS.
* ✅ **AWS Secrets Manager** – armazenamento seguro de senhas.
* ✅ **Amazon GuardDuty** – detecção de ameaças.
* ✅ **AWS Organizations + SCPs** – controle de permissões em múltiplas contas.

**Menos cobrados:**

* CloudHSM, Macie, Directory Service, RAM, Detective, Artifact, Audit Manager.

**⚡ Serverless**

**Mais cobrados:**

* ✅ **AWS Lambda**
* ✅ **AWS AppSync** – aparece com GraphQL + DynamoDB.
* ✅ **AWS Fargate** – execução serverless de containers.

**💾 Storage**

**Mais cobrados:**

* ✅ **Amazon S3** – armazenar objetos, classes de storage, políticas, versionamento.
* ✅ **Amazon S3 Glacier** – arquivamento de longo prazo.
* ✅ **Amazon EBS** – volumes persistentes para EC2.
* ✅ **Amazon EFS** – sistema de arquivos para múltiplas instâncias.
* ✅ **AWS Backup** – centraliza políticas de backup.

**Menos cobrados:**

* FSx, Storage Gateway (aparecem de forma mais pontual).

**Analytics:**

Amazon Athena

AWS Data Exchange

AWS Data Pipeline

Amazon EMR

AWS Glue

Amazon Kinesis

AWS Lake Formation

Amazon Managed Streaming for Apache Kafka (Amazon MSK)

Amazon OpenSearch Service (Amazon Elasticsearch Service)

Amazon QuickSight

Amazon Redshift

**Application Integration:**

Amazon AppFlow

AWS AppSync

Amazon EventBridge (Amazon CloudWatch Events)

Amazon MQ

Amazon Simple Notification Service (Amazon SNS)

Amazon Simple Queue Service (Amazon SQS)

AWS Step Functions

**AWS Cost Management:**

AWS Budgets

AWS Cost and Usage Report

AWS Cost Explorer

Savings Plans

**Compute:**

AWS Batch

Amazon EC2

Amazon EC2 Auto Scaling

AWS Elastic Beanstalk

AWS Outposts

AWS Serverless Application Repository

VMware Cloud on AWS

AWS Wavelength

**Containers:**

Amazon Elastic Container Registry (Amazon ECR)

Amazon Elastic Container Service (Amazon ECS)

Amazon ECS Anywhere

Amazon Elastic Kubernetes Service (Amazon EKS)

Amazon EKS Anywhere

Amazon EKS Distro

**Database:**

Amazon Aurora

Amazon Aurora Serverless

Amazon DocumentDB (with MongoDB compatibility)

Amazon DynamoDB

Amazon ElastiCache

Amazon Keyspaces (for Apache Cassandra)

Amazon Neptune

Amazon Quantum Ledger Database (Amazon QLDB)

Amazon RDS

Amazon Redshift

Amazon Timestream

**Developer Tools:**

AWS X-Ray

Front-End Web and Mobile:

AWS Amplify

Amazon API Gateway

AWS Device Farm

Amazon Pinpoint

**Machine Learning:**

Amazon Comprehend

Amazon Forecast

Amazon Fraud Detector

Amazon Kendra

Amazon Lex

Amazon Polly

Amazon Rekognition

Amazon SageMaker

Amazon Textract

Amazon Transcribe

Amazon Translate

**Management and Governance:**

AWS Auto Scaling

AWS CloudFormation

AWS CloudTrail

Amazon CloudWatch

AWS Command Line Interface (AWS CLI)

AWS Compute Optimizer

AWS Config

AWS Control Tower

AWS License Manager

Amazon Managed Grafana

Amazon Managed Service for Prometheus

AWS Management Console

AWS Organizations

AWS Personal Health Dashboard

AWS Proton

AWS Service Catalog

AWS Systems Manager

AWS Trusted Advisor

AWS Well-Architected Tool

**Media Services:**

Amazon Elastic Transcoder

Amazon Kinesis Video Streams

**Migration and Transfer:**

AWS Application Discovery Service

AWS Application Migration Service (CloudEndure Migration)

AWS Database Migration Service (AWS DMS)

AWS DataSync

AWS Migration Hub

AWS Server Migration Service (AWS SMS)

AWS Snow Family

AWS Transfer Family

**Networking and Content Delivery:**

Amazon CloudFront

AWS Direct Connect

Elastic Load Balancing (ELB)

AWS Global Accelerator

AWS PrivateLink

Amazon Route 53

AWS Transit Gateway

Amazon VPC

AWS Virtual Private Network (AWS VPN)

**Security, Identity, and Compliance:**

AWS Artifact

AWS Audit Manager

AWS Certificate Manager (ACM)

AWS CloudHSM

Amazon Cognito

Amazon Detective

AWS Directory Service

AWS Firewall Manager

Amazon GuardDuty

AWS Identity and Access Management (IAM)

Amazon Inspector

AWS Key Management Service (AWS KMS)

Amazon Macie

AWS Network Firewall

AWS Resource Access Manager (AWS RAM)

AWS Secrets Manager

AWS Security Hub

AWS Shield

AWS Single Sign-On

AWS WAF

**Serverless:**

AWS AppSync

AWS Fargate

AWS Lambda

**Storage:**

AWS Backup

Amazon Elastic Block Store (Amazon EBS)

Amazon Elastic File System (Amazon EFS)

Amazon FSx (for all types)

Amazon S3

Amazon S3 Glacier

AWS Storage Gateway