**ChatGPT said:**

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Here is a comprehensive list of the AWS services that are typically covered in the **AWS Certified Cloud Practitioner (CLF-C02)** exam:

**1. Compute**

* **Amazon EC2** (Elastic Compute Cloud)
* **AWS Lambda**
* **Amazon Lightsail**
* **Amazon Elastic Beanstalk**
* **AWS Batch**
* **AWS Serverless Application Model (SAM)**

**2. Storage**

* **Amazon S3** (Simple Storage Service)
* **Amazon EBS** (Elastic Block Store)
* **Amazon EFS** (Elastic File System)
* **Amazon Glacier** (Archive storage)
* **AWS Snowball**
* **AWS Storage Gateway**

**3. Databases**

* **Amazon RDS** (Relational Database Service)
* **Amazon DynamoDB** (NoSQL database)
* **Amazon Redshift** (Data Warehousing)
* **Amazon Aurora** (Relational database with high performance)
* **Amazon ElastiCache** (In-memory data store)

**4. Networking and Content Delivery**

* **Amazon VPC** (Virtual Private Cloud)
* **Amazon Route 53** (DNS Service)
* **Amazon CloudFront** (Content Delivery Network)
* **Elastic Load Balancing (ELB)**
* **AWS Direct Connect**
* **Amazon API Gateway**
* **AWS Transit Gateway**
* **AWS Global Accelerator**

**5. Security, Identity, and Compliance**

* **AWS IAM** (Identity and Access Management)
* **AWS Cognito** (User authentication and management)
* **AWS KMS** (Key Management Service)
* **AWS Shield** (DDoS Protection)
* **AWS WAF** (Web Application Firewall)
* **AWS Secrets Manager**
* **AWS Config**
* **AWS Artifact** (Compliance reports)
* **AWS Macie** (Data security and privacy)

**6. Application Integration**

* **Amazon SQS** (Simple Queue Service)
* **Amazon SNS** (Simple Notification Service)
* **AWS Step Functions**
* **Amazon EventBridge** (Event Bus Service)
* **Amazon MQ** (Managed Message Broker)
* **AWS AppSync** (GraphQL API management)

**7. Management and Governance**

* **AWS CloudTrail** (API call monitoring)
* **AWS CloudWatch** (Monitoring and Logging)
* **AWS Systems Manager**
* **AWS Config** (Resource tracking)
* **AWS Trusted Advisor** (Best practices and recommendations)
* **AWS License Manager**
* **AWS Organizations**
* **AWS Control Tower** (Governance setup for multi-account AWS environment)

**8. Developer Tools**

* **AWS CodeCommit** (Git-based version control)
* **AWS CodeBuild** (Build automation)
* **AWS CodeDeploy** (Automated application deployment)
* **AWS CodePipeline** (CI/CD pipeline)
* **AWS Cloud9** (Cloud-based integrated development environment)
* **AWS X-Ray** (Distributed tracing for apps)

**9. Machine Learning**

* **Amazon SageMaker** (Machine Learning model building and training)
* **Amazon Rekognition** (Image and video analysis)
* **Amazon Polly** (Text-to-speech)
* **Amazon Comprehend** (Natural Language Processing)
* **Amazon Lex** (Build conversational interfaces)
* **Amazon Translate** (Language translation)
* **Amazon Personalize** (Personalized recommendation models)
* **Amazon Forecast** (Time series forecasting)

**10. Analytics**

* **Amazon QuickSight** (Business Intelligence and Analytics)
* **Amazon EMR** (Big Data processing)
* **AWS Glue** (Data integration and ETL)
* **Amazon Kinesis** (Real-time data streaming)
* **Amazon Athena** (Query S3 data using SQL)
* **AWS Data Pipeline** (Data workflow orchestration)
* **Amazon Redshift** (Data warehousing and analytics)
* **AWS Lake Formation** (Data lake management)

**11. Cost and Billing**

* **AWS Cost Explorer** (Cost and usage analysis)
* **AWS Budgets** (Set custom cost and usage budgets)
* **AWS Cost and Usage Report** (Detailed cost reports)
* **AWS Trusted Advisor** (Cost optimization recommendations)
* **AWS Pricing Calculator** (Estimate AWS costs)

**12. Migration & Transfer**

* **AWS Migration Hub** (Track migration progress)
* **AWS Database Migration Service (DMS)** (Database migration)
* **AWS Server Migration Service (SMS)** (Server migration)
* **AWS Snowball** (Data transfer appliance)
* **AWS Transfer Family** (Managed file transfer)

These services encompass the broad spectrum of topics you need to be familiar with for the **AWS CLF-C02** exam. The focus is on understanding basic use cases, benefits, and key features of these services, rather than deep technical knowledge.

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