

1. Amazon EC2 (Elastic Compute Cloud)

- **Description:** Provides scalable virtual servers for compute capacity.
- **Uses:** Running applications on virtual servers.
- **Integrated with:** S3, RDS, Lambda.

2. Amazon S3 (Simple Storage Service)

- **Description:** Object storage service for storing and retrieving any amount of data.
- **Uses:** Backup and restore, disaster recovery.
- **Integrated with:** Lambda, EC2, Athena.

3. AWS Lambda

- **Description:** Serverless compute service that runs code in response to events.
- **Uses:** Real-time file processing, automated backups.
- **Integrated with:** S3, DynamoDB, API Gateway.

4. Amazon RDS (Relational Database Service)

- **Description:** Managed relational database service supporting several database engines.
- **Uses:** Web and mobile applications.
- **Integrated with:** EC2, VPC, CloudWatch.

5. Amazon DynamoDB

- **Description:** Fully managed NoSQL database service with predictable performance.
- **Uses:** Mobile apps, IoT applications.
- **Integrated with:** Lambda, S3, CloudWatch.

6. Amazon VPC (Virtual Private Cloud)

- **Description:** Provisions a logically isolated section of the AWS cloud.
- **Uses:** Secure network environment.
- **Integrated with:** EC2, RDS, ELB.

7. Amazon CloudFront

- **Description:** Content delivery network (CDN) service for low latency delivery.
- **Uses:** Website acceleration, video streaming.
- **Integrated with:** S3, EC2, Lambda@Edge.

8. AWS IAM (Identity and Access Management)

- **Description:** Manages access to AWS services and resources securely.
- **Uses:** Security management, access control.
- **Integrated with:** All AWS services.

9. Amazon EBS (Elastic Block Store)

- **Description:** Provides persistent block storage volumes for use with EC2 instances.
- **Uses:** Databases, file systems.
- **Integrated with:** EC2, RDS, ECS.

10. AWS CloudTrail

- **Description:** Tracks user activity and API usage for governance and compliance.
- **Uses:** Security analysis, resource change tracking.
- **Integrated with:** CloudWatch, S3, IAM.

11. Amazon CloudWatch

- **Description:** Monitoring and observability service for AWS resources and applications.
- **Uses:** System monitoring, log analytics.
- **Integrated with:** EC2, Lambda, RDS.

12. Amazon SNS (Simple Notification Service)

- **Description:** Managed messaging service for both A2A and A2P communication.
- **Uses:** Notification systems, alerting.
- **Integrated with:** Lambda, SQS, CloudWatch.

13. Amazon SQS (Simple Queue Service)

- **Description:** Fully managed message queuing service for decoupling microservices.
- **Uses:** Task queues, message buffering.
- **Integrated with:** Lambda, SNS, EC2.

14. AWS CloudFormation

- **Description:** Provides a common language to describe and provision AWS infrastructure.
- **Uses:** Infrastructure as Code (IaC), automated provisioning.
- **Integrated with:** EC2, VPC, IAM.

15. AWS KMS (Key Management Service)

- **Description:** Managed service for creating and controlling cryptographic keys.
- **Uses:** Data encryption, key management.
- **Integrated with:** S3, EBS, RDS.

16. AWS WAF (Web Application Firewall)

- **Description:** Protects web applications from common web exploits.
- **Uses:** Application security, DDoS protection.
- **Integrated with:** CloudFront, API Gateway, ALB.

17. Amazon Route 53

- **Description:** Scalable DNS web service.
- **Uses:** Domain registration, DNS routing.
- **Integrated with:** CloudFront, ELB, S3.

18. Amazon EKS (Elastic Kubernetes Service)

- **Description:** Managed service to run Kubernetes on AWS.
- **Uses:** Container orchestration, microservices management.
- **Integrated with:** EC2, IAM, VPC.

19. AWS Elastic Beanstalk

- **Description:** Service for deploying and scaling web applications.
- **Uses:** Application deployment, scaling.
- **Integrated with:** EC2, S3, RDS.

20. Amazon S3 Glacier

- **Description:** Secure, durable, and extremely low-cost cloud storage for data archiving and long-term backup.
- **Uses:** Data archiving, long-term backups.
- **Integrated with:** S3, Data Lifecycle Management.

21. AWS Snowball

- **Description:** Data transport solution that uses secure appliances to transfer large amounts of data into and out of AWS.
- **Uses:** Data migration, disaster recovery.
- **Integrated with:** S3, Glacier.

22. Amazon Aurora

- **Description:** MySQL and PostgreSQL-compatible relational database built for the cloud.
- **Uses:** Enterprise applications, web applications.
- **Integrated with:** EC2, RDS, IAM.

23. AWS Elastic Load Balancing (ELB)

- **Description:** Automatically distributes incoming application traffic across multiple targets.
- **Uses:** High availability, fault tolerance.
- **Integrated with:** EC2, ECS, Lambda.

24. Amazon Kinesis

- **Description:** Real-time data streaming and analytics service.
- **Uses:** Real-time data analytics, log and event data collection.
- **Integrated with:** Lambda, S3, Redshift.

25. AWS Fargate

- **Description:** Serverless compute engine for containers that works with both Amazon ECS and EKS.
- **Uses:** Container deployment, microservices management.
- **Integrated with:** ECS, EKS, IAM.

26. AWS Config

- **Description:** Provides AWS resource inventory, configuration history, and configuration change notifications.
- **Uses:** Compliance auditing, security analysis.
- **Integrated with:** CloudTrail, CloudWatch, IAM.

27. AWS CodeCommit

- **Description:** Fully managed source control service that hosts secure Git repositories.
- **Uses:** Source control, code collaboration.
- **Integrated with:** CodePipeline, CodeBuild, Cloud9.

28. AWS CodePipeline

- **Description:** Continuous integration and delivery service for fast and reliable application and infrastructure updates.
- **Uses:** CI/CD automation, application deployment.
- **Integrated with:** CodeBuild, CodeDeploy, CloudFormation.

29. AWS CodeBuild

- **Description:** Fully managed build service that compiles source code, runs tests, and produces software packages.
- **Uses:** Continuous integration, build automation.
- **Integrated with:** CodePipeline, CodeCommit, CloudWatch.

30. AWS CodeDeploy

- **Description:** Automates code deployments to any instance, including EC2 instances and instances running on-premises.
- **Uses:** Application deployment, update management.
- **Integrated with:** EC2, Lambda, CodePipeline.

31. Amazon Athena

- **Description:** Interactive query service that makes it easy to analyze data in S3 using standard SQL.
- **Uses:** Data analysis, log analytics.
- **Integrated with:** S3, Glue, QuickSight.

32. AWS Glue

- **Description:** Fully managed extract, transform, and load (ETL) service that makes it easy to prepare and load data for analytics.
- **Uses:** Data preparation, ETL operations.
- **Integrated with:** S3, Redshift, Athena.

33. Amazon Redshift

- **Description:** Fast, scalable data warehouse that makes it simple and cost-effective to analyze all your data.
- **Uses:** Data warehousing, big data analytics.
- **Integrated with:** S3, Kinesis, Glue.

34. Amazon QuickSight

- **Description:** Business analytics service to deliver insights to everyone in your organization.
- **Uses:** Data visualization, business intelligence.
- **Integrated with:** Redshift, S3, Athena.

35. Amazon EMR (Elastic MapReduce)

- **Description:** Managed cluster platform that simplifies running big data frameworks.
- **Uses:** Big data processing, data analysis.
- **Integrated with:** S3, DynamoDB, CloudWatch.

36. Amazon Elasticsearch Service

- **Description:** Fully managed service that makes it easy to deploy, operate, and scale Elasticsearch for log analytics, full-text search, and more.
- **Uses:** Log analytics, search applications.
- **Integrated with:** Kinesis, CloudWatch, Lambda.

37. AWS Step Functions

- **Description:** Coordinates multiple AWS services into serverless workflows.
- **Uses:** Workflow automation, microservices orchestration.
- **Integrated with:** Lambda, EC2, ECS.

38. AWS AppSync

- **Description:** Managed service that uses GraphQL to make it easy for applications to get exactly the data they need.
- **Uses:** Real-time data applications, mobile apps.
- **Integrated with:** DynamoDB, Lambda, Cognito.

39. Amazon Cognito

- **Description:** Provides authentication, authorization, and user management for web and mobile apps.

40. AWS Cloud9

- **Description:** Cloud-based integrated development environment (IDE) that lets you write, run, and debug code with just a browser.
- **Uses:** Software development, collaborative coding.
- **Integrated with:** Lambda, EC2, CodeCommit.

41. AWS X-Ray

- **Description:** Helps developers analyze and debug production, distributed applications.
- **Uses:** Performance monitoring, troubleshooting.
- **Integrated with:** Lambda, EC2, Elastic Beanstalk.

42. AWS Service Catalog

- **Description:** Allows organizations to create and manage catalogs of IT services that are approved for use on AWS.
- **Uses:** IT service management, service governance.
- **Integrated with:** CloudFormation, IAM, CloudTrail.

43. AWS Systems Manager

- **Description:** Provides operational insights and management of AWS resources.
- **Uses:** Resource management, automation.
- **Integrated with:** EC2, RDS, S3.

44. Amazon WorkSpaces

- **Description:** Managed, secure cloud desktop service.
- **Uses:** Virtual desktops, remote work.
- **Integrated with:** Active Directory, S3, VPC.

45. Amazon AppStream 2.0

- **Description:** Fully managed application streaming service.
- **Uses:** Application delivery, remote software access.
- **Integrated with:** VPC, IAM, S3.

46. AWS Directory Service

- **Description:** Enables you to run Microsoft Active Directory (AD) as a managed service.
- **Uses:** Directory management, user authentication.
- **Integrated with:** WorkSpaces, RDS, EC2.

47. Amazon Polly

- **Description:** Turns text into lifelike speech.
- **Uses:** Text-to-speech applications, voice-enabled apps.
- **Integrated with:** S3, Lambda, IoT.

48. Amazon Rekognition

- **Description:** Analyzes images and videos to detect objects, scenes, and faces.
- **Uses:** Image and video analysis, facial recognition.
- **Integrated with:** S3, Lambda, SageMaker.

49. Amazon Comprehend

- **Description:** Natural language processing (NLP) service that uses machine learning to find insights and relationships in text.
- **Uses:** Text analysis, sentiment analysis.
- **Integrated with:** S3, Lambda, Glue.

50. Amazon Translate

- **Description:** Neural machine translation service.
- **Uses:** Language translation, content localization.
- **Integrated with:** S3, Lambda, Polly.

51. Amazon Lex

- **Description:** Service for building conversational interfaces into any application using voice and text.
- **Uses:** Chatbots, voice assistants.
- **Integrated with:** Lambda, Polly, Connect.

52. Amazon Connect

- **Description:** Cloud-based contact center service.
- **Uses:** Customer support, call centers.
- **Integrated with:** Lex, Lambda, S3.

53. AWS Batch

- **Description:** Enables you to easily and efficiently run hundreds of thousands of batch computing jobs.
- **Uses:** Batch processing, large-scale computational jobs.
- **Integrated with:** EC2, ECS, S3.

54. AWS IoT Core

- **Description:** Managed cloud service that lets connected devices easily and securely interact with cloud applications and other devices.
- **Uses:** IoT applications, device management.
- **Integrated with:** Lambda, DynamoDB, Kinesis.

55. AWS Greengrass

- **Description:** Extends AWS to edge devices so they can act locally on the data they generate while still using the cloud for management.
- **Uses:** Edge computing, IoT applications.
- **Integrated with:** IoT Core, Lambda, SageMaker.

56. Amazon SageMaker

- **Description:** Fully managed service that provides every developer and data scientist with the ability to build, train, and deploy machine learning models quickly.
- **Uses:** Machine learning, data science.
- **Integrated with:** S3, EC2, Lambda.

57. Amazon Forecast

- **Description:** Fully managed service that uses machine learning to deliver highly accurate forecasts.
- **Uses:** Time series forecasting, business planning.
- **Integrated with:** S3, SageMaker, Glue.

58. AWS DeepRacer

- **Description:** Autonomous 1/18th scale race car driven by reinforcement learning, enabling you to get started with machine learning in a fun and engaging way.
- **Uses:** Machine learning, educational purposes.
- **Integrated with:** SageMaker, CloudWatch, S3.

59. AWS Ground Station

- **Description:** Fully managed service that lets you control satellite communications, process data, and scale operations.
- **Uses:** Satellite communications, data processing.
- **Integrated with:** S3, EC2, VPC.

60. AWS Control Tower

- **Description:** Provides the easiest way to set up and govern a secure, multi-account AWS environment.
- **Uses:** Governance, multi-account management.
- **Integrated with:** Organizations, CloudFormation, Service Catalog.

61. AWS Trusted Advisor

- **Description:** Online resource to help you reduce cost, increase performance, and improve security by optimizing your AWS environment.
- **Uses:** Cost optimization, security recommendations.
- **Integrated with:** IAM, CloudTrail, Support.

62. AWS Personal Health Dashboard

- **Description:** Provides alerts and remediation guidance when AWS is experiencing events that may impact you.
- **Uses:** Service health monitoring, incident management.
- **Integrated with:** CloudWatch, SNS, Support.

63. AWS Artifact

- **Description:** Provides on-demand access to AWS's security and compliance documents.
- **Uses:** Compliance management, audit support.
- **Integrated with:** IAM, Compliance Center, Security Hub.

64. AWS Shield

- **Description:** Managed DDoS protection service that safeguards applications running on AWS.
- **Uses:** DDoS protection, application security.
- **Integrated with:** CloudFront, Route 53, ELB.

65. AWS Firewall Manager

- **Description:** Security management service that allows you to centrally configure and manage firewall rules across your accounts and applications in AWS Organizations.
- **Uses:** Security policy management, firewall rule management.
- **Integrated with:** WAF, Shield, Organizations.

66. AWS Organizations

- **Description:** Allows you to centrally manage and govern your environment as you grow and scale your AWS resources.
- **Uses:** Account management, consolidated billing.
- **Integrated with:** IAM, Control Tower, CloudFormation.

67. AWS License Manager

- **Description:** Makes it easier to manage your software licenses from vendors like Microsoft, SAP, Oracle, and IBM across AWS and your on-premises environments.
- **Uses:** License tracking, compliance management.
- **Integrated with:** Systems Manager, Service Catalog, Organizations.

68. AWS Backup

- **Description:** Centralized backup service to automate and manage backups across AWS services.
- **Uses:** Data backup, disaster recovery.
- **Integrated with:** EC2, RDS, DynamoDB.

69. AWS DataSync

- **Description:** Data transfer service that simplifies, automates, and accelerates moving data between on-premises storage and AWS.
- **Uses:** Data migration, backup.
- **Integrated with:** S3, EFS, FSx.

70. AWS Transfer Family

- **Description:** Fully managed support for file transfers directly into and out of Amazon S3.
- **Uses:** File transfers, secure data exchange.
- **Integrated with:** S3, IAM, CloudWatch.

71. AWS Managed Blockchain

- **Description:** Fully managed service that makes it easy to create and manage scalable blockchain networks using the popular open-source frameworks Hyperledger Fabric and Ethereum.
- **Uses:** Blockchain applications, transaction recording.
- **Integrated with:** S3, CloudWatch, IAM.

72. AWS Outposts

- **Description:** Fully managed service that extends AWS infrastructure, services, APIs, and tools to any data center, co-location space, or on-premises facility.
- **Uses:** Hybrid cloud, local compute.
- **Integrated with:** EC2, EBS, RDS.

73. Amazon Macie

- **Description:** Security service that uses machine learning to automatically discover, classify, and protect sensitive data in AWS.
- **Uses:** Data security, sensitive data discovery.
- **Integrated with:** S3, CloudWatch, IAM.

74. AWS Elemental Media Services

- **Description:** Suite of services for processing and delivering broadcast and over-the-top video.
- **Uses:** Video processing, live streaming.
- **Integrated with:** S3, CloudFront, Lambda.

75. AWS RoboMaker

- **Description:** Service that makes it easy to develop, test, and deploy intelligent robotics applications at scale.
- **Uses:** Robotics development, simulation.
- **Integrated with:** S3, EC2, SageMaker.

76. Amazon WorkDocs

- **Description:** Secure content creation, storage, and collaboration service.
- **Uses:** Document collaboration, file storage.
- **Integrated with:** IAM, WorkSpaces, S3.

77. Amazon WorkMail

- **Description:** Secure, managed business email and calendaring service.
- **Uses:** Business email, calendaring.
- **Integrated with:** WorkDocs, IAM, KMS.

78. AWS Data Pipeline

- **Description:** Web service that helps you reliably process and move data between different AWS compute and storage services.
- **Uses:** Data processing, ETL workflows.
- **Integrated with:** S3, RDS, Redshift.

79. Amazon Neptune

- **Description:** Fully managed graph database service.
- **Uses:** Social networking, recommendation engines.
- **Integrated with:** Lambda, S3, EC2.

80. AWS Transit Gateway

- **Description:** Service that enables customers to connect their Amazon VPCs and their on-premises networks to a single gateway.
- **Uses:** Network connectivity, data transfer.
- **Integrated with:** VPC, Direct Connect, CloudWatch.

81. AWS Direct Connect

- **Description:** Provides a dedicated network connection from your premises to AWS.
- **Uses:** Hybrid cloud, network optimization.
- **Integrated with:** VPC, Transit Gateway, EC2.

82. AWS Global Accelerator

- **Description:** Networking service that improves the availability and performance of your applications with global users.
- **Uses:** Network acceleration, traffic management.
- **Integrated with:** EC2, ALB, NLB.

83. AWS Resource Access Manager (RAM)

- **Description:** Enables you to share your AWS resources with any AWS account or within your AWS Organization.
- **Uses:** Resource sharing, multi-account management.
- **Integrated with:** VPC, Transit Gateway, EC2.

84. Amazon FSx for Windows File Server

- **Description:** Fully managed Windows file system.
- **Uses:** File storage, Windows applications.
- **Integrated with:** AD, VPC, IAM.

85. Amazon FSx for Lustre

- **Description:** Fully managed service that provides scalable, high-performance file storage for compute workloads.
- **Uses:** High-performance computing, big data.
- **Integrated with:** EC2, S3, VPC.

86. AWS Storage Gateway

- **Description:** Hybrid cloud storage service that gives you on-premises access to virtually unlimited cloud storage.
- **Uses:** Data backup, disaster recovery.
- **Integrated with:** S3, EBS, Glacier.

87. AWS App Mesh

- **Description:** Service mesh that provides application-level networking to make it easy for your services to communicate with each other.
- **Uses:** Microservices management, service communication.
- **Integrated with:** ECS, EKS, EC2.

88. AWS CodeArtifact

- **Description:** Fully managed artifact repository service that makes it easy for organizations to securely store, publish, and share software packages.
- **Uses:** Dependency management, package distribution.
- **Integrated with:** CodeBuild, CodePipeline, CodeCommit.

89. AWS Cost Explorer

- **Description:** Tool that enables you to view and analyze your costs and usage.
- **Uses:** Cost management, budgeting.
- **Integrated with:** Budgets, Billing Console, Cost and Usage Reports.

90. AWS Budgets

- **Description:** Allows you to set custom cost and usage budgets and receive alerts when you exceed them.
- **Uses:** Cost management, financial planning.
- **Integrated with:** Cost Explorer, Billing Console, SNS.

91. Amazon Detective

- **Description:** Service that makes it easy to analyze, investigate, and quickly identify the root cause of potential security issues or suspicious activities.
- **Uses:** Security investigations, threat analysis.
- **Integrated with:** GuardDuty, CloudTrail, VPC Flow Logs.

92. Amazon GuardDuty

- **Description:** Threat detection service that continuously monitors for malicious activity and unauthorized behavior.
- **Uses:** Threat detection, security monitoring.
- **Integrated with:** CloudTrail, VPC Flow Logs, DNS Logs.

93. AWS Security Hub

- **Description:** Provides a comprehensive view of your high-priority security alerts and compliance status across AWS accounts.
- **Uses:** Security management, compliance.
- **Integrated with:** GuardDuty, Inspector, IAM.

94. AWS IoT Greengrass

- **Description:** Extends AWS to edge devices so they can act locally on the data they generate.
- **Uses:** Edge computing, IoT applications.
- **Integrated with:** Lambda, IoT Core, SageMaker.

95. Amazon EventBridge

- **Description:** Serverless event bus service that makes it easy to connect applications using data from your own applications, SaaS, and AWS services.
- **Uses:** Event-driven applications, real-time data integration.
- **Integrated with:** Lambda, Step Functions, SNS.

96. AWS CloudHSM

- **Description:** Hardware security module service that enables you to easily generate and use your own encryption keys on the AWS Cloud.
- **Uses:** Data encryption, key management.
- **Integrated with:** KMS, IAM, VPC.

97. Amazon EC2 Auto Scaling

- **Description:** Ensures you have the correct number of Amazon EC2 instances available to handle the load for your application.
- **Uses:** High availability, scaling applications.
- **Integrated with:** EC2, CloudWatch, ELB.

98. AWS Step Functions

- **Description:** Lets you coordinate multiple AWS services into serverless workflows.
- **Uses:** Workflow automation, orchestration.
- **Integrated with:** Lambda, ECS, Glue.

99. AWS Glue DataBrew

- **Description:** Visual data preparation tool that makes it easy for data analysts and data scientists to clean and normalize data.
- **Uses:** Data preparation, data transformation.
- **Integrated with:** S3, Redshift, Glue.

100. AWS Fault Injection Simulator

- **Description:** Fully managed service for running fault injection experiments on AWS.
- **Uses:** Chaos engineering, resiliency testing.
- **Integrated with:** EC2, RDS, EKS.

101. AWS Launch Wizard - **Description:** Guides you through the sizing, configuration, and deployment of Microsoft applications.

- **Uses:** Application deployment, infrastructure setup.
- **Integrated with:** EC2, RDS, Active Directory.

102. Amazon Textract –

Description: Automatically extracts text and data from scanned documents.

- **Uses:** Document processing, data extraction.
- **Integrated with:** S3, Lambda, Comprehend.