

# AWS Services Overview

## Analytics

| AWS Services                  | Equivalents   | Quickie                         | Descriptions   |
|-------------------------------|---------------|---------------------------------|--|
| Amazon Athena                 |               | SQL on S3 data                  | An interactive query service that makes it easy to analyze data in Amazon S3 using standard SQL.   |
| Amazon EMR                    |               | Parallel processing of big data | Provides a managed Hadoop framework that makes it easy, fast, and cost-effective to process vast amounts of data across dynamically scalable Amazon EC2 instances.   |
| Amazon CloudSearch            |               | Create search application       | Set up, manage, and scale a search solution for your website or application.   |
| Amazon Elasticsearch Service  |               |                                 | Deploy, secure, operate, and scale Elasticsearch to search, analyze, and visualize data in real-time.  |
| Amazon Kinesis                |               |                                 | Collect, process, and analyze real-time, streaming data so you can get timely insights and react quickly to new information.   |
| Amazon Kinesis Data Firehose  |               |                                 | Capture, transform, and load streaming data into Amazon S3, Amazon Redshift, Amazon Elasticsearch Service, and Splunk  |
| Amazon Kinesis Data Analytics |               |                                 | Analyze streaming data, gain actionable insights, and respond to your business and customer needs in real time.  |
| Amazon Kinesis Data Streams   |               |                                 | Continuously capture gigabytes of data per second from hundreds of thousands of sources such as website clickstreams, database event streams, financial transactions, social media feeds, IT logs, and location-tracking events. |
| Amazon Kinesis Video Streams  |               |                                 | Securely stream video from connected devices to AWS for analytics, machine learning (ML), playback, and other processing.  |
| Amazon Redshift               |               | Data warehouse                  | Data warehouse that makes it simple and cost-effective to analyze all your data across your data warehouse and data lake.  |
| Amazon QuickSight             | Science Logic | Graph data                      | Cloud-powered business intelligence (BI) service that makes it easy for you to deliver insights to everyone in your organization.  |
| AWS Data Pipeline             |               |                                 | Process and move data between different AWS compute and storage services, as well as on premises data sources, at specified intervals.   |
| AWS Glue                      |               | Extract, Transform, Load (ETL)  | Fully managed extract, transform, and load (ETL) service that makes it easy for customers to prepare and load their data for analytics.  |

| AWS Services                             | Equivalents | Quickie | Descriptions  |
|--|-------------|---------|---|
| AWS Lake Formation                       |             |         | A data lake is a centralized, curated, and secured repository that stores all your data, both in its original form and prepared for analysis.   |
| Amazon Managed Streaming for Kafka (MSK) |             |         | Build and run applications that use Apache Kafka to process streaming data. Apache Kafka is an open-source platform for building real-time streaming data pipelines and applications. |

## Application Integration

| AWS Services       | Equivalents | Quickie                          | Descriptions  |
|--------------------|-------------|----------------------------------|---|
| AWS Step Functions |             | Stitch Lambda Functions together | You can design and run workflows that stitch together services such as AWS Lambda and Amazon ECS into feature-rich applications.                |
| Amazon MQ          |             |                                  | Message broker service for Apache ActiveMQ  |
| Amazon SQS         |             | Simple App Queue Services        | A fully managed message queuing service that enables you to decouple and scale microservices, distributed systems, and serverless applications. |
| Amazon SNS         |             | Email, SMS, mobile push          | Fully managed pub/sub messaging service   |
| Amazon SWF         |             |                                  | Build, run, and scale background jobs that have parallel or sequential steps.   |

## AR and VR

| AWS Services    | Equivalents | Quickie | Descriptions   |
|-----------------|-------------|---------|--|
| Amazon Sumerian |             | VR, AR  | Create and run virtual reality (VR), augmented reality (AR), and 3D applications |

## AWS Cost Management

| AWS Services                     | Equivalents | Quickie | Descriptions  |
|----------------------------------|-------------|---------|---|
| AWS Cost Explorer                |             |         | Visualize, understand, and manage your AWS costs and usage over time.   |
| AWS Budgets                      |             |         | Set custom budgets that alert you when your costs or usage exceed (or are forecasted to exceed) your budgeted amount. |
| AWS Cost & Usage Report          |             |         | A single location for accessing comprehensive information about your AWS costs and usage.                             |
| Reserved Instance (RI) Reporting |             |         | Visualize your RI data at an aggregate level or inspect a particular RI subscription.                                 |

## Blockchain

| AWS Services              | Equivalents | Quickie    | Descriptions   |
|---------------------------|-------------|------------|--|
| Amazon Managed Blockchain |             | Blockchain | Create and manage scalable blockchain networks using the popular open source frameworks Hyperledger Fabric and Ethereum. |

## Business Applications

| AWS Services       | Equivalents    | Quickie                           | Descriptions  |
|--------------------|----------------|-----------------------------------|---|
| Alexa for Business |                | Voice Commands                    | Use Alexa as their intelligent assistant to be more productive in meeting rooms, at their desks, and even with the Alexa devices they already have at home. |
| Amazon WorkDocs    | Sharepoint     | Document sharing/repository       | Enterprise storage and sharing service with strong administrative controls and feedback capabilities that improve user productivity.                        |
| Amazon WorkMail    | Gmail, Webmail | Email (IMAP) and calendar service | Managed business email and calendar service with support for existing desktop and mobile email client applications.   |
| Amazon Chime       | WebEx, MS Team | Collab, Meeting, video bridge, IM | Online meetings, video conferencing, calls, chat, and to share content, both inside and outside your organization.  |

## Compute

| AWS Services                      | Equivalents | Quickie        | Descriptions  |
|-----------------------------------|-------------|----------------|---|
| Amazon EC2                        | VMWare      | VM             | Provides secure, resizable compute capacity in the cloud.   |
| Amazon EC2 Auto Scaling           |             | Auto Scale Out | Automatically add or remove EC2 instances according to conditions you define.   |
| Amazon Elastic Container Registry |             |                | Fully-managed Docker container registry that makes it easy for developers to store, manage, and deploy Docker container images.           |
| Amazon Elastic Container Service  | Docker      | Docker         | Container orchestration service that supports Docker containers and allows you to easily run and scale containerized applications on AWS. |

| <b>AWS Services</b>                             | <b>Equivalents</b> | <b>Quickie</b>                                  | <b>Descriptions</b>   |
|---|--------------------|---|---|
| Amazon Elastic Container Service for Kubernetes | Docker             | Kubernetes                                      | Deploy, manage, and scale containerized applications using Kubernetes on AWS.   |
| Amazon Lightsail                                |                    | VM + OS + Apps                                  | Launch and manage a virtual private server with AWS.  |
| AWS Batch                                       |                    |   | Enables developers, scientists, and engineers to easily and efficiently run hundreds of thousands of batch computing jobs on AWS.   |
| AWS Elastic Beanstalk                           |                    | Orchestration tools<br>EC2, Load Balancer, Apps | Service for deploying and scaling web applications and services developed with Java, .NET, PHP, Node.js, Python, Ruby, Go, and Docker on familiar servers such as Apache, Nginx, Passenger, and Internet Information Services (IIS) |
| AWS Fargate                                     |                    |   | Run containers without having to manage servers or clusters.  |
| AWS Lambda                                      |                    | Serverless, FaaS                                | Lets you run code without provisioning or managing servers.   |
| AWS Serverless Application Repository           |                    |   | Enables you to quickly deploy code samples, components, and complete applications for common use cases such as web and mobile back-ends, event and data processing, logging, monitoring, IoT, and more.                             |
| AWS Outposts                                    |                    |   | Bring native AWS services, infrastructure, and operating models to virtually any data center, co-location space, or on-premises facility  |
| VMware Cloud on AWS                             |                    | VMWare on AWS                                   | Allows organizations to seamlessly migrate and extend their on-premises VMware vSphere-based environments to the AWS Cloud running on next generation Amazon Elastic Compute Cloud (Amazon EC2) bare metal infrastructure.          |

## Customer Engagement

| <b>AWS Services</b> | <b>Equivalents</b> | <b>Quickie</b> | <b>Descriptions</b>   |
|---------------------|--------------------|----------------|---|
| Amazon Connect      | IPScope            | Contact Centre | Self-service, cloud-based contact center service that makes it easy for any business to deliver better customer service at lower cost.                  |
| Amazon SES          |                    | SMTP           | Cloud-based email sending service designed to help digital marketers and application developers send marketing, notification, and transactional emails. |

## Database

| AWS Services                          | Equivalents | Quickie                                       | Descriptions  |
|---------------------------------------|-------------|---|---|
| Amazon Aurora                         | Oracle      | Contact Centre                                | MySQL and PostgreSQL compatible relational database engine that combines the speed and availability of high-end commercial databases with the simplicity and cost-effectiveness of open source databases. |
| Amazon RDS                            |             | MySQL, PostgreSQL SQL Server, Oracle, MariaDB | Set up, operate, and scale a relational database in the cloud.  |
| Amazon RDS on VMWare                  |             | On Premise RDS                                | Deploy managed databases in on-premises VMware environments using the Amazon RDS technology   |
| Amazon DynamoDB                       |             | NoSQL   | Key-value and document database that delivers single digit millisecond performance at any scale.  |
| Amazon ElastiCache                    |             | Store Web Session data                        | Deploy, operate, and scale an in-memory cache in the cloud.   |
| Amazon Neptune                        |             |   | Fully-managed graph database service that makes it easy to build and run applications that work with highly connected datasets.   |
| Amazon Quantum Ledger Database (QLDB) |             | Data change history immutable                 | Fully managed ledger database that provides a transparent, immutable, and cryptographically verifiable transaction log owned by a central trusted authority.  |
| Amazon Timestream                     |             | IOT   | Fully managed time series database service for IoT - data that measures how things change over time   |

## Desktop and App Streaming

| AWS Services         | Equivalents | Quickie | Descriptions   |
|----------------------|-------------|---------|--|
| Amazon WorkSpaces    | VDI         | VDI     | Fully managed, secure cloud desktop service.   |
| Amazon AppStream 2.0 | Citrix      | Citrix  | Centrally manage your desktop applications on AppStream 2.0 and securely deliver them to any computer. |

## Developer Tools

| AWS Services   | Equivalents | Quickie | Descriptions   |
|----------------|-------------|---------|--|
| AWS CodeCommit |             | Git-hub | Fully-managed source control service that hosts secure Git-based repositories. |

| AWS Services     | Equivalents | Quickie             | Descriptions   |
|------------------|-------------|---------------------|--|
| AWS CodeBuild    |             | Compiler            | Fully managed build service that compiles source code, runs tests, and produces software packages that are ready to deploy.                            |
| AWS CodeDeploy   |             |                     | Automates code deployments to any instance, including EC2 instances and instances running on premises.   |
| AWS CodePipeline |             | Build, Test, Deploy | Fully managed continuous delivery service that helps you automate your release pipelines for fast and reliable application and infrastructure updates. |
| AWS CodeStar     |             |                     | Provides a unified user interface, enabling you to easily manage your software development activities in one place.                                    |
| Amazon Corretto  |             |                     | No-cost, multiplatform, production-ready distribution of the Open Java Development Kit (OpenJDK).  |
| AWS Cloud9       |             | Lambda IDE          | Cloud-based integrated development environment (IDE) that lets you write, run, and debug your code with just a browser.                                |
| AWS X-Ray        |             | Debug               | Analyze and debug distributed applications in production or under development, such as those built using a microservices architecture.                 |

## Game Tech

| AWS Services      | Equivalents | Quickie | Descriptions  |
|-------------------|-------------|---------|---|
| Amazon GameLift   |             |         | Managed service for deploying, operating, and scaling dedicated game servers for session-based multiplayer games.   |
| Amazon Lumberyard |             |         | A free, cross-platform, 3D game engine for you to create the highest-quality games, connect your games to the vast compute and storage of the AWS Cloud, and engage fans on Twitch. |

## Internet of Things (IoT)

| AWS Services    | Equivalents | Quickie            | Descriptions  |
|-----------------|-------------|--------------------|---|
| AWS IoT Core    |             |                    | Managed cloud service that lets connected devices easily and securely interact with cloud applications and other devices.               |
| Amazon FreeRTOS |             | Microcontroller OS | An operating system for microcontrollers that makes small, low-power edge devices easy to program, deploy, secure, connect, and manage. |

| <b>AWS Services</b>        | <b>Equivalents</b> | <b>Quickie</b>         | <b>Descriptions</b>   |
|----------------------------|--------------------|------------------------|---|
| AWS IoT Greengrass         |                    |                        | Extends AWS to devices so they can act locally on the data they generate, while still using the cloud for management, analytics, and durable storage. |
| AWS IoT 1-Click            |                    |                        | A service that enables simple devices to trigger AWS Lambda functions that can execute an action.   |
| AWS IoT Analytics          |                    |                        | A fully-managed service that makes it easy to run and operationalize sophisticated analytics on massive volumes of IoT data                           |
| AWS IoT Button             |                    | IOT Device             | A programmable button based on the Amazon Dash Button hardware.   |
| AWS IoT Device Defender    |                    |                        | A fully managed service that helps you secure your fleet of IoT devices.  |
| AWS IoT Device Management  |                    |                        | Securely onboard, organize, monitor, and remotely manage IoT devices at scale.  |
| AWS IoT Events             |                    |                        | A fully managed IoT service that makes it easy to detect and respond to events from IoT sensors and applications.                                     |
| AWS IoT SiteWise           |                    |                        | A managed service that makes it easy to collect and organize data from industrial equipment at scale.   |
| AWS IoT Things Graph       |                    |                        | A service that makes it easy to visually connect different devices and web services to build IoT applications.  |
| AWS Partner Device Catalog |                    | Catalog of Sensors/IOT | Helps you find devices and hardware to help you explore, build, and go to market with your IoT solutions.   |

## Machine Learning

| <b>AWS Services</b>           | <b>Equivalents</b> | <b>Quickie</b> | <b>Descriptions</b>   |
|-------------------------------|--------------------|----------------|---|
| Amazon SageMaker              |                    |                | A fully-managed platform that enables developers and data scientists to quickly and easily build, train, and deploy machine learning models at any scale. |
| Amazon SageMaker Ground Truth |                    |                | Build highly accurate training datasets for machine learning quickly.   |
| Amazon Comprehend             |                    |                | A natural language processing (NLP) service that uses machine learning to find insights and relationships in text   |

| <b>AWS Services</b>       | <b>Equivalents</b> | <b>Quickie</b>           | <b>Descriptions</b>   |
|---------------------------|--------------------|--------------------------|---|
| Amazon Lex                |                    | Speech recognition       | A service for building conversational interfaces into any application using voice and text.   |
| Amazon Polly              |                    | Text to Speech           | A service that turns text into lifelike speech  |
| Amazon Rekognition        |                    | Image object Recognition | Add image analysis to your applications.  |
| Amazon Translate          |                    | Language Translation     | A neural machine translation service that delivers fast, high-quality, and affordable language translation.   |
| Amazon Transcribe         |                    | Audio to Text            | An automatic speech recognition (ASR) service that makes it easy for developers to add speech-to-text capability to their applications.                   |
| Amazon Elastic Inference  |                    |                          | Attach low-cost GPU-powered acceleration to Amazon EC2 and Amazon SageMaker instances to reduce the cost of running deep learning inference by up to 75%. |
| Amazon Forecast           |                    | Forecast                 | A fully managed service that uses machine learning to deliver highly accurate forecasts.  |
| Amazon Textract           |                    | OCR                      | A service that automatically extracts text and data from scanned documents.   |
| Amazon Personalize        |                    |                          | A machine learning service that makes it easy for developers to create individualized recommendations for customers using their applications              |
| Amazon Deep Learning AMIs |                    |                          | Provide machine learning practitioners and researchers with the infrastructure and tools to accelerate deep learning in the cloud, at any scale.          |
| AWS DeepLens              |                    | Video Camera             | A fully programmable video camera, tutorials, code, and pre-trained models designed to expand deep learning skills.                                       |
| AWS DeepRacer             |                    | Model Car                | A 1/18th scale race car which gives you an interesting and fun way to get started with reinforcement learning (RL)  |
| Apache MXNet on AWS       |                    |                          | A fast and scalable training and inference framework with an easy-to-use, concise API for machine learning.   |
| TensorFlow on AWS         |                    |                          | Enables developers to quickly and easily get started with deep learning in the cloud.   |
| AWS Inferentia            |                    |                          | A machine learning inference chip designed to deliver high performance at low cost.   |

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Last update: **2024/02/23 07:03**

