



## Top 30 most popular AWS cloud services and their benefits

#	AWS service
1	<b>EC2 - compute cloud service:</b> <ul style="list-style-type: none"><li>- quickly scales up or down to match changing business needs without having to worry about investing in new hardware</li><li>- choose from a variety of instance types and configurations</li><li>- reduces the financial burden associated with maintaining in-house data centers</li><li>- reduces the risk of downtime and enabling start-ups to focus on developing their products and services</li><li>- robust security features</li><li>- integrates seamlessly with other services</li></ul>
2	<b>S3 - object storage service:</b> <ul style="list-style-type: none"><li>- scales storage needs up or down to match changing business requirements</li><li>- reduces costs associated with maintaining traditional storage solutions</li><li>- ensures that critical business data is always accessible</li><li>- server-side encryption, access controls, and auditing capabilities</li><li>- stores and serves static assets as well as dynamically generated content without having to worry about infrastructure management</li><li>- keeps track of changes made to the data over time</li></ul>
3	<b>Aurora - relational database service that scales automatically:</b> <ul style="list-style-type: none"><li>- high performance similar to that of commercial databases</li><li>- scales databases up or down as needed, without having to worry about purchasing new hardware</li><li>- highly available and durable</li><li>- robust security features</li><li>- manages databases without having to worry about database administration tasks</li><li>- automated patching and maintenance</li><li>- easily sets up data backup and recovery processes</li><li>- reduces costs associated with maintaining traditional databases</li></ul>



## Top 30 most popular AWS cloud services and their benefits

#	AWS service
4	<b>DynamoDB - fully managed and serverless NoSQL database service:</b> <ul style="list-style-type: none"><li>- high performance with fast query execution and low latency</li><li>- flexible schema allowing start-ups to easily adapt their data model as needed</li><li>- highly available uptime</li><li>- robust security features, including encryption at rest and in transit, access controls, and auditing capabilities, to protect sensitive data</li><li>- retrieves data quickly making it suitable for applications that require real-time data processing</li><li>- supports complex data models, including nested documents and arrays, making it suitable for applications that require flexible data structures</li></ul>
5	<b>RDS - managed relational database service supporting a variety of engines:</b> <ul style="list-style-type: none"><li>- don't have to manage servers or infrastructure, freeing up resources for development and growth</li><li>- high availability, ensuring that critical business data is always accessible</li><li>- robust security features</li><li>- reduce costs associated with maintaining traditional databases</li><li>- supports multiple database engines, making it suitable for applications that require specific databases</li><li>- regular backups of the database</li></ul>
6	<b>Lambda - serverless and event-driven computing service:</b> <ul style="list-style-type: none"><li>- only pay for the compute time used</li><li>- reduces upfront costs and minimizes financial risk</li><li>- automatically scales to handle changes in workload, eliminating the need for manual scaling</li><li>- don't have to manage servers, operating systems, or middleware</li><li>- can quickly deploy and test serverless functions without worrying about provisioning, configuring, or maintaining servers</li><li>- particularly well-suited for small, short-lived tasks</li></ul>



## Top 30 most popular AWS cloud services and their benefits

#	AWS service
7	<b>VPC - virtual private cloud networking service:</b> <ul style="list-style-type: none"><li>- fine-grained control over network security, including the ability to create subnets, route tables, and security groups</li><li>- provides isolation between resources</li><li>- can scale networking infrastructure up or down as needed, without having to provision new hardware or software</li><li>- reduces costs associated with maintaining traditional networking infrastructure, including power, cooling, and maintenance</li><li>- can create a network that is isolated from the public internet, reducing exposure to security threats and ensuring data confidentiality</li></ul>
8	<b>CloudFront - content delivery network service:</b> <ul style="list-style-type: none"><li>- delivers content faster and more reliably, improving user experience and engagement</li><li>- automatically scales to handle changes in traffic</li><li>- distributes content across multiple geographic locations, reducing latency and increasing accessibility for users worldwide</li><li>- reduces the distance between users and the origin server</li><li>- pay for the bandwidth used, eliminating the need for expensive hardware</li><li>- advanced security features to protect sensitive data</li></ul>
9	<b>Elastic Beanstalk - service for deploying and scaling web applications and services:</b> <ul style="list-style-type: none"><li>- quickly deploy web applications to production without needing to manage servers, scaling, or maintenance</li><li>- supports serverless architectures, allowing start-ups to focus on writing code and deploying it to a scalable platform</li><li>- automatically scales the number of instances based on traffic demand, ensuring that applications are always responsive and efficient</li></ul>



## Top 30 most popular AWS cloud services and their benefits

#	AWS service
10	<b>EC2 Auto-scaling - application availability service:</b> <ul style="list-style-type: none"><li>- quickly scales applications to meet changing traffic demands, ensuring that users receive a responsive and efficient experience</li><li>- automatically adjusts the number of instances</li><li>- reduces the likelihood of server crashes or outages due to overloads or underloads</li><li>- eliminates the need for over-provisioning or under-provisioning servers</li><li>- simplifies server management by automating tasks such as instance provisioning, termination, and scaling</li><li>- predictive algorithms to forecast traffic patterns and scale instances accordingly</li></ul>
11	<b>ElastiCache - fully-managed, flexible, in-memory caching service:</b> <ul style="list-style-type: none"><li>- provides fast data retrieval and storage, making it ideal for applications that require low-latency data access</li><li>- automatically scales to meet changing workload demands</li><li>- provides automatic failover and replication, ensuring that applications are always available and accessible, even in the event of hardware failure or network disruptions</li><li>- simplifies database management by providing a managed cache layer that can be easily integrated with existing applications</li><li>- eliminates the need for upfront capital expenditures or ongoing maintenance costs</li></ul>
12	<b>S3 Glacier - archive storage service:</b> <ul style="list-style-type: none"><li>- provides long-term archival costs that are significantly lower than the cost of storing data in standard storage classes</li><li>- designed for long-term data preservation, making it an ideal choice for start-ups with large archives or infrequently accessed data</li><li>- automates data archiving and retrieval</li><li>- provides a redundant and durable storage environment that ensures business continuity in the event of a disaster or data loss</li></ul>



## Top 30 most popular AWS cloud services and their benefits

#	AWS service
13	<b>Lightsail - website and applications building service:</b> <ul style="list-style-type: none"><li>- deploys and manages applications with minimal configuration</li><li>- automatically scales to meet changing workload</li><li>- high availability and redundancy</li><li>- secure environment for applications with features such as encryption, firewalls, and access controls</li><li>- provides dedicated resources, ensuring the necessary power, memory, and storage</li></ul>
14	<b>Sagemaker - service that allows building, training, and deploying machine learning models:</b> <ul style="list-style-type: none"><li>- provides an automated machine learning workflow that allows to build, train, and deploy models</li><li>- automatic data preprocessing, feature engineering, and feature scaling, making it easy to prepare data for training</li><li>- a built-in model management system that allows to track, deploy, and monitor models in a centralized location</li><li>- predictive analytics capabilities that help to understand the performance of models and make data-driven decisions</li></ul>
15	<b>SNS - notification service:</b> <ul style="list-style-type: none"><li>- ensures that applications are notified of important events</li><li>- provides high availability and redundancy, ensuring that notifications are delivered reliably and in real-time</li><li>- provides industry-leading security features</li><li>- provides a cost-effective solution for messaging and notification services, with pricing based on the number of messages received or sent</li><li>- supports a wide range of notification channels, including email, SMS, voice calls, and more</li><li>- build event-driven architectures that enable real-time communication between applications, services, or devices</li><li>- real-time data processing capabilities</li></ul>



## Top 30 most popular AWS cloud services and their benefits

#	AWS service
16	<b>Elastic Block Store - block-level storage service:</b> <ul style="list-style-type: none"><li>- provides persistent storage for applications, ensuring that data is always available and can be accessed even in the event of a failure</li><li>- fast performance, with block-level access times that are typically faster than traditional storage methods</li><li>- provides a cost-effective solution for persistent storage, with pricing based on the amount of storage used</li></ul>
17	<b>Kinesis - data streams service:</b> <ul style="list-style-type: none"><li>- processes real-time data from various sources, enabling to make data-driven decisions quickly</li><li>- scales horizontally, allowing to easily handle large volumes of data and high throughput</li><li>- high availability and durability, ensuring that data is always accessible and can be processed reliably</li><li>- cost-effective solution based on the amount of data processed</li></ul>
18	<b>Elastic File System - fully managed file system service:</b> <ul style="list-style-type: none"><li>- scales storage up or down as needed</li><li>- high availability and redundancy, ensuring that files are always accessible and can be retrieved reliably</li><li>- durability for files, ensuring that they are protected against data loss or corruption</li><li>- support a wide range of file systems, making it easy to integrate with other applications and services</li><li>- cost-effective solution for shared storage, with pricing based on the amount of storage used</li></ul>
19	<b>Identity and Access Management - identity and access management service:</b> <ul style="list-style-type: none"><li>- provides a centralized platform for managing identities, making it easier to create, assign, and manage user accounts</li><li>- support various multi-factor authentication options</li><li>- role-based access control system</li></ul>



Top 30 most popular AWS cloud services and their benefits

#	AWS service
20	<div><p><b>SQS - fully-managed message queuing service:</b></p><ul style="list-style-type: none"><li>- decouples applications, services, or microservices from each other, making it easier to develop, deploy, and maintain individual components independently</li><li>- reliable messaging system that ensures messages are delivered even in the event of failures, providing high availability and uptime</li><li>- scales automatically to handle increases in message volume, ensuring that applications can handle large volumes of messages without worrying about performance or capacity issues</li><li>- supports multiple messaging patterns</li></ul></div>
21	<div><p><b>RedShift - data warehousing service:</b></p><ul style="list-style-type: none"><li>- high-performance analytics capabilities with columnar storage, allowing for faster data processing and analysis</li><li>- cost-effective solution for data warehousing, with pricing based on the amount of data stored and query performance</li><li>- easy-to-use interface for setting up and deploying data warehouses, reducing the time and effort required to get started</li></ul></div>
22	<div><p><b>Cloudwatch - cloud monitoring service:</b></p><ul style="list-style-type: none"><li>- real-time visibility into application performance, allowing to quickly identify issues and take corrective action</li><li>- easy-to-use interface for setting up and deploying monitoring systems</li><li>- advanced analytics capabilities, such as anomaly detection and trending, allowing to gain deeper insights into application performance</li></ul></div>



Top 30 most popular AWS cloud services and their benefits

#	AWS service
23	<div><b>Chime - communication service:</b><ul style="list-style-type: none"><li>- cost-effective solution for video conferencing, with no need for on-premises infrastructure or long-term contracts</li><li>- enterprise-grade security features, including end-to-end encryption, two-factor authentication, and compliance with major regulatory standards</li><li>- easy to use with a simple and intuitive interface that allows users to quickly set up and join meetings</li><li>- provides a range of collaboration tools, including whiteboarding, screen sharing, and virtual sticky notes, making it easy to collaborate with teams in real-time</li></ul></div>
24	<div><b>Cognito - identity management service:</b><ul style="list-style-type: none"><li>- handles user registrations, logins, and app usage</li><li>- provides enterprise-grade security features, including multi-factor authentication, passwordless authentication, and encryption, making it a reliable choice for sensitive applications</li><li>- easy-to-use interface that allows users to easily manage user identities, permissions, and access control</li><li>- meets compliance requirements for major regulatory standards</li></ul></div>
25	<div><b>Inspector - vulnerability management service:</b><ul style="list-style-type: none"><li>- automatically scans resources for known vulnerabilities</li><li>- continuously monitors resources for new vulnerabilities</li><li>- helps ensure compliance with major regulatory standards</li><li>- incorporates vulnerability management into existing workflows</li><li>- reduces the risk of data breaches, unauthorized access, and other security threats</li></ul></div>





## Top 30 most popular AWS cloud services and their benefits

#	AWS service
26	<div><b>Firewall Manager - firewall service:</b><ul style="list-style-type: none"><li>- centralized management console for managing firewalls across multiple accounts and regions, making it easier to manage security policies</li><li>- uses machine learning-based algorithms to automatically detect and block known threats in real-time, reducing the risk of data breaches</li><li>- helps improve organization's overall security posture by providing real-time visibility into firewall configurations and automated threat detection</li><li>- reduces the complexity of firewall management by providing a single console for managing firewalls across multiple accounts and regions</li></ul></div>
27	<div><b>Appflow - integration service that enables to securely transfer data between SaaS applications and AWS services without code:</b><ul style="list-style-type: none"><li>- simple and intuitive interface for setting up integrations between applications, reducing the time and effort required for manual configuration</li><li>- automates workflows across multiple platforms, making it easy to integrate apps, sync data, and trigger events in real-time</li></ul></div>
28	<div><b>Route 53 - domain name system service:</b><ul style="list-style-type: none"><li>- ensures that domain name system records always point to the correct internet protocol addresses</li><li>- can handle large amounts of traffic and millions of domain names</li><li>- uses global network of edge locations to provide low-latency routing, ensuring fast access to web applications</li><li>- real-time analytics and monitoring capabilities</li></ul></div>



Top 30 most popular AWS cloud services and their benefits

#	AWS service
29	<div><p><b>Cloud Formation - infrastructure management service:</b></p><ul style="list-style-type: none"><li>- interface for creating and managing infrastructure resources, such as EC2 instances, RDS databases, and S3 buckets</li><li>- allows to version templates, making it easier to track changes and collaborate with team members</li><li>- creates reusable templates that can be used across multiple projects and environments</li><li>- ensures consistency in infrastructure configurations, making it easier to manage and maintain complex systems</li><li>- allows to scale infrastructure resources up or down as needed without having to manually provision or de-provision resources</li><li>- optimizes costs by allowing to use the right resources for applications, and scaling up or down based on demand</li></ul></div>
30	<div><p><b>Amazon Verified Permissions - service for fine grained authorization</b></p><ul style="list-style-type: none"><li>- ensure that only authorized individuals have access to your resources</li><li>- track who has accessed your resources and when, making it easier to investigate and respond to security incidents</li><li>- reduce the risk of unauthorized access to your resources</li><li>- simplifies the process of managing identities and permissions for your resources, reducing the complexity and administrative overhead</li><li>- demonstrate compliance with regulatory requirements</li><li>- scale your security controls up or down as needed</li></ul></div>