

WORD LIST PDF

Cloud Computing Vocabulary List

Learn essential cloud computing vocabulary with clear meanings, real-world examples, and related terms across cloud service models, deployment models, infrastructure, networking, scalability, security, cloud operations, and economic concepts.

CATEGORY

Technology &
Innovation

LEVEL

Intermediate

WORDS

95

Cloud computing vocabulary is essential for understanding how modern digital systems are built, hosted, scaled, and managed across the internet. From foundational terms like serverless computing, virtual machine, public cloud, and storage bucket to more advanced concepts such as Kubernetes, auto-scaling, fault tolerance, disaster recovery, and shared responsibility model, these words appear in software engineering, DevOps, data infrastructure, cybersecurity, and modern business technology discussions. This cloud computing vocabulary list brings together carefully selected words related to cloud service models, deployment models, virtualization, containerization, networking, scalability, high availability, cloud security, cloud operations, and cost management. Whether you are a beginner learning common terms like “SaaS,” “public cloud,” and “VPN” or an advanced learner exploring concepts like “multi-cloud,” “elastic load balancing,” “identity and access management,” and “vendor lock-in,” this list helps you build strong, practical vocabulary for real-world use. Use this page to improve your reading, writing, speaking, and technical understanding of cloud platforms and distributed systems. Each word is designed to be clear, useful, and easy to connect with real cloud architecture, infrastructure, and operational contexts — helping students, English learners, developers, IT professionals, and technology-focused learners communicate more confidently in cloud-driven environments.



OVERVIEW

Resource Summary

A quick overview of this LVF resource before you move into the lesson or vocabulary pages.

At a glance

- **Resource Type:** Word List PDF
- **Category:** Technology & Innovation
- **Level:** Intermediate
- **Total Words:** 95
- **Basic Words:** 22
- **Intermediate Words:** 27
- **Advanced Words:** 46
- **Brand:** LearnVocabularyFree.com

How to use this PDF

1. Read the definitions carefully.
2. Review examples and usage notes.
3. Try the practice section independently.
4. Check the answer key for self-review.

STARTER LIST

Words you will meet in this PDF (but not limited to)

- **Amazon Web Services (AWS)** — A leading cloud computing platform that provides a wide range of services including computing power, storage, and databases over the internet.
- **API Gateway** — A service that acts as an entry point for APIs, managing routing, security, and request handling.
- **At Rest Encryption** — Encryption applied to data while it is stored on disks, databases, or cloud storage systems.
- **Auto-scaling** — A feature that automatically adds or removes resources based on current demand.
- **Availability** — The degree to which a cloud service remains accessible and operational when needed.
- **Availability Zone (AZ)** — A separate physical location within a cloud region designed to provide isolation and reliability.
- **Azure DevOps** — A cloud-based platform by Microsoft that provides development tools for planning, building, testing, and deploying applications, including CI/CD pipelines and version control.
- **Bandwidth** — The amount of data that can be transferred over a network connection in a given time.

Cloud Computing Vocabulary List

Definitions, examples, and related vocabulary prepared in a structured LVF format.

Amazon Web Services (AWS)

NOUN

BASIC

MEANING

A leading cloud computing platform that provides a wide range of services including computing power, storage, and databases over the internet.

EXAMPLE

The startup deployed its application using Amazon Web Services for scalability.

SYNONYMS

AWS

cloud provider

API Gateway

NOUN

ADVANCED

MEANING

A service that acts as an entry point for APIs, managing routing, security, and request handling.

EXAMPLE

The API Gateway authenticated requests before sending them to backend services.

SYNONYMS

API entry layer

At Rest Encryption

NOUN

ADVANCED

MEANING

Encryption applied to data while it is stored on disks, databases, or cloud storage systems.

EXAMPLE

At Rest Encryption protected backup files stored in the bucket.

SYNONYMS

stored data encryption

Auto-scaling

NOUN

ADVANCED

MEANING

A feature that automatically adds or removes resources based on current demand.

EXAMPLE

Auto-scaling increased the number of instances during heavy traffic.

SYNONYMS

automatic scaling

Cloud Computing Vocabulary List

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Availability

NOUN

BASIC

MEANING

The degree to which a cloud service remains accessible and operational when needed.

EXAMPLE

High availability is essential for critical customer-facing applications.

SYNONYMS

service accessibility

uptime readiness

Availability Zone (AZ)

NOUN

INTERMEDIATE

MEANING

A separate physical location within a cloud region designed to provide isolation and reliability.

EXAMPLE

The service was deployed across multiple Availability Zones for resilience.

SYNONYMS

AZ

isolated data center zone

Azure DevOps

NOUN

INTERMEDIATE

MEANING

A cloud-based platform by Microsoft that provides development tools for planning, building, testing, and deploying applications, including CI/CD pipelines and version control.

EXAMPLE

The team used Azure DevOps to manage code repositories and automate deployment pipelines.

SYNONYMS

Microsoft DevOps platform

Azure DevOps Services

Bandwidth

NOUN

BASIC

MEANING

The amount of data that can be transferred over a network connection in a given time.

EXAMPLE

Higher bandwidth improved file transfer performance.

SYNONYMS

data transfer capacity

Cloud Computing Vocabulary List

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Bare Metal

NOUN

ADVANCED

MEANING

A physical server provided without a virtualization layer, giving direct access to hardware resources.

EXAMPLE

The database workload ran on bare metal for maximum performance.

SYNONYMS

physical server

ANTONYMS

virtualized server

Billing Dashboard

NOUN

BASIC

MEANING

A cloud interface that shows current usage, cost breakdowns, and spending trends.

EXAMPLE

The team checked the billing dashboard to monitor monthly cloud costs.

SYNONYMS

cost dashboard

usage billing interface

Block Storage

NOUN

INTERMEDIATE

MEANING

A storage system that divides data into fixed-size blocks and is commonly used with virtual machines and databases.

EXAMPLE

The database used block storage for fast disk access.

SYNONYMS

block-level storage

ANTONYMS

object storage

CapEx (Capital Expenses)

NOUN

INTERMEDIATE

MEANING

Large upfront costs for acquiring physical assets such as servers, data centers, or equipment.

EXAMPLE

Buying on-premises hardware usually requires significant CapEx.

SYNONYMS

capital expenses

ANTONYMS

OpEx

Cloud Computing Vocabulary List

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CI/CD (Continuous Integration / Continuous Deployment)

NOUN

INTERMEDIATE

MEANING

A development practice that automates code integration, testing, and deployment to improve software delivery speed and reliability.

EXAMPLE

The team implemented CI/CD pipelines to automate releases.

SYNONYMS

CI/CD pipeline

automated deployment

Cloud Migration

NOUN

INTERMEDIATE

MEANING

The process of moving applications, data, and workloads from on-premises systems or one cloud to another.

EXAMPLE

Cloud migration allowed the company to modernize its infrastructure.

SYNONYMS

migration to cloud

Cloud Native

ADJECTIVE

ADVANCED

MEANING

An approach to building applications specifically for cloud environments using scalable and flexible architectures.

EXAMPLE

The platform was redesigned as a cloud native system using containers and microservices.

SYNONYMS

cloud-first architecture

Clusters

NOUN

INTERMEDIATE

MEANING

Groups of connected machines or nodes that work together as one system.

EXAMPLE

The application ran across several clusters for resilience.

SYNONYMS

server groups

node groups

Cloud Computing Vocabulary List

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Community Cloud

NOUN

ADVANCED

MEANING

A cloud environment shared by several organizations with similar requirements, such as security or compliance needs.

EXAMPLE

Several research institutions collaborated using a community cloud.

SYNONYMS

shared sector cloud

Compliance

NOUN

INTERMEDIATE

MEANING

The process of meeting legal, regulatory, or industry standards for data handling and system management.

EXAMPLE

The healthcare system had to meet strict compliance requirements.

SYNONYMS

regulatory adherence

Connectivity

NOUN

BASIC

MEANING

The ability of systems, users, and services to connect and communicate reliably.

EXAMPLE

Stable connectivity is critical for cloud-hosted applications.

SYNONYMS

connection capability

Containerization

NOUN

ADVANCED

MEANING

The practice of packaging applications and their dependencies into isolated containers for consistent deployment.

EXAMPLE

Containerization made the app easier to move across environments.

SYNONYMS

container-based packaging

Cloud Computing Vocabulary List

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Content Delivery Network (CDN)

NOUN

INTERMEDIATE

MEANING

A distributed network of servers that delivers content from locations closer to end users.

EXAMPLE

The site used a Content Delivery Network to reduce latency for global users.

SYNONYMS

CDN

content distribution network

DBaaS (Database as a Service)

NOUN

ADVANCED

MEANING

A cloud service model where database setup, maintenance, scaling, and backups are managed by the provider.

EXAMPLE

DBaaS allowed the team to use a managed database without handling updates manually.

SYNONYMS

Database as a Service

managed database service

Deployment Models

NOUN

BASIC

MEANING

The different ways cloud environments can be structured and delivered to users or organizations.

EXAMPLE

Public cloud and private cloud are examples of cloud deployment models.

SYNONYMS

cloud deployment types

Deprovisioning

NOUN

ADVANCED

MEANING

The process of removing or releasing cloud resources when they are no longer needed.

EXAMPLE

Automatic deprovisioning reduced unnecessary cloud costs.

SYNONYMS

resource removal

deallocation

ANTONYMS

provisioning

Cloud Computing Vocabulary List

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DevOps

NOUN

INTERMEDIATE

MEANING

A culture and practice that combines development and operations to improve software delivery and reliability.

EXAMPLE

DevOps practices helped the team automate deployment and monitoring.

SYNONYMS

development operations

Direct Connect

NOUN

ADVANCED

MEANING

A dedicated private network connection between an organization and a cloud provider.

EXAMPLE

The enterprise used Direct Connect for more reliable cloud connectivity.

SYNONYMS

dedicated cloud link

Disaster Recovery (DR)

NOUN

ADVANCED

MEANING

The strategies and systems used to restore operations and data after a major outage or disaster.

EXAMPLE

The company tested its Disaster Recovery plan every quarter.

SYNONYMS

DR recovery strategy

Distributed Cloud

NOUN

ADVANCED

MEANING

A cloud model where services are distributed across multiple physical locations while still being centrally managed.

EXAMPLE

Distributed cloud helps bring services closer to users while keeping central control.

SYNONYMS

geographically distributed cloud

Cloud Computing Vocabulary List

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Distributed System

NOUN

ADVANCED

MEANING

A system where components located on different machines work together as a single system.

EXAMPLE

Cloud platforms rely heavily on distributed systems.

SYNONYMS

distributed architecture

ANTONYMS

centralized system

Docker

NOUN

INTERMEDIATE

MEANING

A popular platform used to create, run, and manage containers.

EXAMPLE

The team used Docker to package the web application for deployment.

SYNONYMS

container platform

Edge Computing

NOUN

ADVANCED

MEANING

A computing model where data processing happens closer to the location where data is generated or used.

EXAMPLE

Edge computing reduced delay for the real-time sensor system.

SYNONYMS

edge processing

ANTONYMS

centralized processing

Elastic Load Balancing (ELB)

NOUN

ADVANCED

MEANING

A cloud service that automatically distributes traffic across multiple resources and adapts to changing demand.

EXAMPLE

Elastic Load Balancing helped the app stay responsive during peak traffic.

SYNONYMS

ELB

Cloud Computing Vocabulary List

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Elasticity

NOUN

ADVANCED

MEANING

The ability of a cloud system to expand and shrink resources quickly based on demand.

EXAMPLE

Elasticity helped the service handle sudden traffic spikes efficiently.

SYNONYMS

dynamic scaling capability

Encryption

NOUN

BASIC

MEANING

The process of converting data into a secure form so unauthorized users cannot read it easily.

EXAMPLE

Encryption protected customer records stored in the cloud.

SYNONYMS

data protection coding

ANTONYMS

decryption

Event-driven Architecture

NOUN

ADVANCED

MEANING

A software design pattern where system components communicate through events or triggers.

EXAMPLE

Event-driven architecture enabled real-time processing of user actions.

SYNONYMS

event-based architecture

FaaS (Function as a Service)

NOUN

ADVANCED

MEANING

A cloud service model that lets developers run individual functions in response to events without managing servers.

EXAMPLE

The team used FaaS to run image-processing tasks automatically after uploads.

SYNONYMS

Function as a Service

event-driven cloud execution

Cloud Computing Vocabulary List

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Fault Tolerance

NOUN

ADVANCED

MEANING

The ability of a system to continue operating even when some components fail.

EXAMPLE

Fault tolerance helped the service remain active after one node failed.

SYNONYMS

failure resilience

Fog Computing

NOUN

ADVANCED

MEANING

A distributed computing model that extends cloud capabilities closer to the edge by processing data at intermediate network layers.

EXAMPLE

Fog computing helped manage local processing between devices and the cloud.

SYNONYMS

fog architecture

Google Cloud Platform (GCP)

NOUN

BASIC

MEANING

A cloud computing service suite by Google that provides infrastructure, data analytics, and machine learning tools.

EXAMPLE

The analytics team used Google Cloud Platform for big data processing.

SYNONYMS

GCP

cloud provider

High Availability (HA)

NOUN

ADVANCED

MEANING

A design approach that keeps systems operational with minimal downtime through redundancy and failover.

EXAMPLE

The payment system was built for high availability across multiple zones.

SYNONYMS

HA

minimal downtime design

Cloud Computing Vocabulary List

Definitions, examples, and related vocabulary prepared in a structured LVF format.

Horizontal Scaling (Scaling Out)

NOUN

ADVANCED

MEANING

Increasing capacity by adding more machines or resources rather than upgrading one machine.

EXAMPLE

Horizontal scaling allowed the app to handle more traffic by adding servers.

SYNONYMS

scaling out

ANTONYMS

vertical scaling

Hybrid Cloud

NOUN

INTERMEDIATE

MEANING

A cloud setup that combines public cloud and private cloud or on-premises resources.

EXAMPLE

The company adopted a hybrid cloud strategy for flexibility and compliance.

SYNONYMS

mixed cloud model

Hypervisor

NOUN

ADVANCED

MEANING

Software or firmware that creates and manages virtual machines on a physical host.

EXAMPLE

The hypervisor allocated resources between several virtual machines.

SYNONYMS

virtual machine monitor

IaaS (Infrastructure as a Service)

NOUN

INTERMEDIATE

MEANING

A cloud service model that provides virtualized computing resources such as servers, storage, and networking over the internet.

EXAMPLE

The company used IaaS to rent virtual servers instead of buying hardware.

SYNONYMS

Infrastructure as a Service

cloud infrastructure service

Cloud Computing Vocabulary List

Definitions, examples, and related vocabulary prepared in a structured LVF format.

Identity and Access Management (IAM)

NOUN

ADVANCED

MEANING

A system for controlling who can access cloud resources and what actions they are allowed to perform.

EXAMPLE

IAM policies restricted database access to approved administrators only.

SYNONYMS

IAM

access control system

In Transit Encryption

NOUN

ADVANCED

MEANING

Encryption applied to data while it is moving between systems or across networks.

EXAMPLE

In Transit Encryption protected data moving between the app and the API.

SYNONYMS

data-in-motion encryption

Infrastructure as Code (IaC)

NOUN

ADVANCED

MEANING

A practice of managing and provisioning infrastructure through code instead of manual configuration.

EXAMPLE

Infrastructure as Code allowed the team to replicate environments quickly.

SYNONYMS

IaC

infrastructure automation

Instances

NOUN

INTERMEDIATE

MEANING

Running copies of virtual machines, applications, or services in a cloud environment.

EXAMPLE

The cloud dashboard showed four active compute instances.

SYNONYMS

running units

compute instances

Cloud Computing Vocabulary List

Definitions, examples, and related vocabulary prepared in a structured LVF format.

Key Management Service (KMS)

NOUN

ADVANCED

MEANING

A cloud service used to create, manage, and control encryption keys securely.

EXAMPLE

Sensitive data was encrypted using Key Management Service.

SYNONYMS

KMS

encryption key manager

Kubernetes (K8s)

NOUN

ADVANCED

MEANING

An orchestration platform used to automate the deployment, scaling, and management of containers.

EXAMPLE

Kubernetes handled container scaling during traffic spikes.

SYNONYMS

K8s

container orchestration platform

Latency

NOUN

BASIC

MEANING

The delay between sending a request and receiving a response in a cloud or network environment.

EXAMPLE

Users noticed lower latency after the service moved closer to their region.

SYNONYMS

delay

lag

ANTONYMS

low delay

Load Balancer

NOUN

INTERMEDIATE

MEANING

A system that distributes incoming traffic across multiple servers or resources.

EXAMPLE

The load balancer prevented one server from becoming overloaded.

SYNONYMS

traffic distributor

Cloud Computing Vocabulary List

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Logging

NOUN

BASIC

MEANING

The process of recording system events and activities for analysis, troubleshooting, and auditing.

EXAMPLE

Logging helped identify the cause of the application error.

SYNONYMS

log tracking

event recording

MBaaS (Mobile Backend as a Service)

NOUN

ADVANCED

MEANING

A cloud service model that provides ready-made backend services for mobile applications, such as authentication and data storage.

EXAMPLE

The mobile app used MBaaS for user login and cloud data syncing.

SYNONYMS

Mobile Backend as a Service

Microservices

NOUN

ADVANCED

MEANING

An architectural style where an application is built as a set of small independent services.

EXAMPLE

Microservices made it easier to deploy and update parts of the platform independently.

SYNONYMS

service-based architecture

ANTONYMS

monolith

Microsoft Azure

NOUN

BASIC

MEANING

A cloud computing platform by Microsoft that offers services for building, deploying, and managing applications through global data centers.

EXAMPLE

The company migrated its infrastructure to Microsoft Azure.

SYNONYMS

Azure

cloud platform

Cloud Computing Vocabulary List

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Monitoring

NOUN

BASIC

MEANING

The continuous observation of systems and applications to track performance, availability, and health.

EXAMPLE

Monitoring tools alerted the team when the server load increased.

SYNONYMS

system monitoring

performance tracking

Multi-cloud

NOUN

ADVANCED

MEANING

A strategy where an organization uses cloud services from more than one provider.

EXAMPLE

The firm used a multi-cloud setup to avoid depending on one vendor.

SYNONYMS

multiple cloud providers strategy

Multi-tenant

ADJECTIVE

ADVANCED

MEANING

A cloud architecture where multiple customers share the same underlying infrastructure while remaining logically separate.

EXAMPLE

Most public SaaS platforms are multi-tenant systems.

SYNONYMS

shared-tenant architecture

ANTONYMS

single-tenant

Networking

NOUN

BASIC

MEANING

The systems and connections that allow cloud resources to communicate and exchange data.

EXAMPLE

Networking settings controlled how the application communicated across services.

SYNONYMS

cloud networking

network connectivity

Cloud Computing Vocabulary List

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Node

NOUN

INTERMEDIATE

MEANING

An individual machine or unit within a cluster or distributed system.

EXAMPLE

Each Kubernetes node handled part of the workload.

SYNONYMS

system unit

cluster member

Object Storage

NOUN

INTERMEDIATE

MEANING

A storage system that manages data as objects, often used for large-scale unstructured data.

EXAMPLE

Object storage was used for backups and video files.

SYNONYMS

object-based storage

ANTONYMS

block storage

Observability

NOUN

ADVANCED

MEANING

The ability to understand the internal state of a system by analyzing metrics, logs, and traces.

EXAMPLE

Observability tools provided deep insights into system behavior.

SYNONYMS

system visibility

On-premises / On-prem

NOUN

BASIC

MEANING

Systems and infrastructure that are hosted and managed within an organization's own physical location rather than in the cloud.

EXAMPLE

The company kept its most sensitive systems on-premises.

SYNONYMS

local infrastructure

in-house hosting

ANTONYMS

cloud-hosted

Cloud Computing Vocabulary List

Definitions, examples, and related vocabulary prepared in a structured LVF format.

OpEx (Operating Expenses)

NOUN

INTERMEDIATE

MEANING

Ongoing costs incurred during day-to-day business operations, often associated with subscription or usage-based cloud services.

EXAMPLE

Monthly cloud bills are usually treated as OpEx.

SYNONYMS

operating expenses

ANTONYMS

CapEx

OpEx (Operating Expenses) vs. CapEx (Capital Expenses)

PHRASE

ADVANCED

MEANING

The financial comparison between ongoing usage-based operating costs and large upfront asset purchases.

EXAMPLE

Cloud adoption often shifts IT spending from CapEx to OpEx.

SYNONYMS

operating versus capital cost model

Orchestration

NOUN

ADVANCED

MEANING

The automated coordination and management of complex cloud processes, services, or containers.

EXAMPLE

Orchestration simplified the management of many containerized services.

SYNONYMS

automated coordination

PaaS (Platform as a Service)

NOUN

INTERMEDIATE

MEANING

A cloud service model that provides a platform for developing, running, and managing applications without handling the underlying infrastructure directly.

EXAMPLE

The startup chose PaaS to deploy its app quickly without managing servers.

SYNONYMS

Platform as a Service

application platform service

Cloud Computing Vocabulary List

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Pay-as-you-go

ADJECTIVE

BASIC

MEANING

A cloud pricing model where customers pay only for the resources they actually use.

EXAMPLE

Pay-as-you-go pricing made it easier for the startup to control costs.

SYNONYMS

usage-based pricing

Pipeline

NOUN

INTERMEDIATE

MEANING

A sequence of automated steps used in software development to build, test, and deploy applications.

EXAMPLE

The pipeline runs tests before deploying the application.

SYNONYMS

deployment pipeline

workflow

Private Cloud

NOUN

INTERMEDIATE

MEANING

A cloud environment dedicated to a single organization, offering greater control and customization.

EXAMPLE

The bank used a private cloud for tighter control over sensitive systems.

SYNONYMS

dedicated cloud

ANTONYMS

public cloud

Provisioning

NOUN

INTERMEDIATE

MEANING

The process of setting up and allocating cloud resources such as servers, storage, or networks.

EXAMPLE

Provisioning new compute resources took only a few minutes in the cloud.

SYNONYMS

resource setup

allocation

ANTONYMS

deprovisioning

Cloud Computing Vocabulary List

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Public Cloud

NOUN

BASIC

MEANING

A cloud environment where services are delivered over the internet and shared among multiple customers.

EXAMPLE

Public cloud platforms make it easy to start quickly without buying hardware.

SYNONYMS

shared cloud

ANTONYMS

private cloud

Redundancy

NOUN

ADVANCED

MEANING

The duplication of components or data so systems remain available if one part fails.

EXAMPLE

Redundancy in storage and networking improved resilience.

SYNONYMS

backup duplication

Region

NOUN

BASIC

MEANING

A geographic area where a cloud provider operates data centers and offers services.

EXAMPLE

The company chose a nearby region to reduce latency.

SYNONYMS

cloud region

geographic cloud area

Reserved Instances

NOUN

ADVANCED

MEANING

Cloud instances purchased in advance for a lower rate in exchange for a long-term commitment.

EXAMPLE

Reserved Instances reduced costs for predictable workloads.

SYNONYMS

reserved compute capacity

ANTONYMS

spot instances

Cloud Computing Vocabulary List

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Resource Pooling

NOUN

ADVANCED

MEANING

A cloud principle where computing resources are shared and dynamically assigned among multiple users or workloads.

EXAMPLE

Resource pooling allows providers to use infrastructure more efficiently.

SYNONYMS

shared resource allocation

SaaS (Software as a Service)

NOUN

BASIC

MEANING

A cloud service model where software is delivered online and accessed through a browser or app, usually by subscription.

EXAMPLE

Email and collaboration tools are often provided as SaaS products.

SYNONYMS

Software as a Service

cloud software

Scalability

NOUN

BASIC

MEANING

The ability of a cloud system to handle increasing workloads by adding resources effectively.

EXAMPLE

Cloud scalability helped the application serve more users during launch week.

SYNONYMS

growth capacity

Security Group

NOUN

INTERMEDIATE

MEANING

A virtual firewall that controls inbound and outbound traffic to cloud resources.

EXAMPLE

The security group allowed only specific IP addresses to access the server.

SYNONYMS

cloud firewall

network security rule

Cloud Computing Vocabulary List

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Serverless Computing

NOUN

ADVANCED

MEANING

A cloud execution model where the provider manages the infrastructure and developers focus only on code and logic.

EXAMPLE

Serverless computing reduced the need for manual server maintenance.

SYNONYMS

serverless

managed execution model

Service Level Agreement (SLA)

NOUN

INTERMEDIATE

MEANING

A formal agreement that defines the expected performance, uptime, and support standards of a service.

EXAMPLE

The SLA guaranteed a high level of service availability each month.

SYNONYMS

SLA

service contract

Service Models

NOUN

BASIC

MEANING

The main categories of cloud services based on what the provider delivers and what the customer manages.

EXAMPLE

IaaS, PaaS, and SaaS are common cloud service models.

SYNONYMS

cloud service categories

Shared Responsibility Model

NOUN

ADVANCED

MEANING

A cloud security principle that defines which security tasks are handled by the provider and which are handled by the customer.

EXAMPLE

The Shared Responsibility Model clarified who was responsible for patching and access control.

SYNONYMS

shared security responsibility framework

Cloud Computing Vocabulary List

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Single-tenant

ADJECTIVE

ADVANCED

MEANING

A cloud architecture where one customer has dedicated access to an application or environment.

EXAMPLE

The client chose a single-tenant deployment for stricter isolation.

SYNONYMS

dedicated-tenant architecture

ANTONYMS

multi-tenant

Spot Instances

NOUN

ADVANCED

MEANING

Cloud compute instances offered at a discounted rate with the possibility of interruption by the provider.

EXAMPLE

The analytics job used Spot Instances to cut costs on flexible workloads.

SYNONYMS

interruptible discounted instances

ANTONYMS

reserved instances

Storage Bucket

NOUN

INTERMEDIATE

MEANING

A cloud container used to store and organize objects such as files, images, and backups.

EXAMPLE

The team uploaded logs and media files to a storage bucket.

SYNONYMS

bucket

cloud storage container

Subnet

NOUN

ADVANCED

MEANING

A smaller network segment within a larger network, used to organize and control traffic.

EXAMPLE

The database was placed in a private subnet for better security.

SYNONYMS

subnetwork

Cloud Computing Vocabulary List

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Up-time

NOUN **BASIC**

MEANING

The amount of time a service remains available and functioning without interruption.

EXAMPLE

The provider guaranteed 99.9 percent up-time in its SLA.

SYNONYMS

service uptime

ANTONYMS

downtime

Vendor Lock-in

NOUN

ADVANCED

MEANING

A situation where switching to another provider becomes difficult بسبب dependence on one vendor's tools or services.

EXAMPLE

The architecture was redesigned to reduce vendor lock-in risk.

SYNONYMS

provider dependency

Vertical Scaling (Scaling Up)

NOUN

ADVANCED

MEANING

Increasing the capacity of a single server or resource by adding more power such as CPU or memory.

EXAMPLE

Vertical scaling improved database performance by adding more RAM.

SYNONYMS

scaling up

ANTONYMS

horizontal scaling

Virtual Machine (VM)

NOUN

BASIC

MEANING

A software-based computer that behaves like a physical machine and runs its own operating system.

EXAMPLE

The application was deployed on a Linux virtual machine in the cloud.

SYNONYMS

VM

Cloud Computing Vocabulary List

Definitions, examples, and related vocabulary prepared in a structured LVF format.

Virtual Private Cloud (VPC)

NOUN

ADVANCED

MEANING

A logically isolated network environment within a public cloud provider's infrastructure.

EXAMPLE

The application was deployed inside a Virtual Private Cloud for better network control.

SYNONYMS

VPC

isolated cloud network

Virtual Private Network (VPN)

NOUN

INTERMEDIATE

MEANING

A secure encrypted connection that links users or networks over the internet.

EXAMPLE

Employees used a VPN to connect safely to internal cloud resources.

SYNONYMS

VPN

secure private connection

Virtualization

NOUN

INTERMEDIATE

MEANING

The creation of virtual versions of hardware resources such as servers, storage, or networks.

EXAMPLE

Virtualization allows multiple virtual machines to run on one physical server.

SYNONYMS

resource virtualization



PRACTICE

Mini Worksheet

Use the meanings and context from this PDF to answer the following practice questions.

1. Write the meaning of *Amazon Web Services (AWS)* and use it in one sentence.

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.....

2. Write the meaning of *API Gateway* and use it in one sentence.

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.....

3. Write the meaning of *At Rest Encryption* and use it in one sentence.

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.....

4. Write the meaning of *Auto-scaling* and use it in one sentence.

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.....

5. Write the meaning of *Availability* and use it in one sentence.

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.....

6. Write the meaning of *Availability Zone (AZ)* and use it in one sentence.

.....
.....

ANSWER KEY

Suggested Answers

These answer points are designed to support self-review and classroom guidance.

1. Amazon Web Services (AWS)

Meaning:

A leading cloud computing platform that provides a wide range of services including computing power, storage, and databases over the internet.

Example:

The startup deployed its application using Amazon Web Services for scalability.

2. API Gateway

Meaning:

A service that acts as an entry point for APIs, managing routing, security, and request handling.

Example:

The API Gateway authenticated requests before sending them to backend services.

3. At Rest Encryption

Meaning:

Encryption applied to data while it is stored on disks, databases, or cloud storage systems.

Example:

At Rest Encryption protected backup files stored in the bucket.

4. Auto-scaling

Meaning:

A feature that automatically adds or removes resources based on current demand.

Example:

Auto-scaling increased the number of instances during heavy traffic.

5. Availability

Meaning:

The degree to which a cloud service remains accessible and operational when needed.

Example:

High availability is essential for critical customer-facing applications.

6. Availability Zone (AZ)

Meaning:

A separate physical location within a cloud region designed to provide isolation and reliability.

Example:

The service was deployed across multiple Availability Zones for resilience.