

An abstract graphic on the left side of the cover, consisting of white lines and circles on a blue gradient background, resembling a circuit board or a stylized tree structure.

# INDUSTRY TERMS

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The background is a blue gradient. In the corners, there are white line-art illustrations of circuit boards, with lines and small circles representing components and connections.

# INFORMATION TECHNOLOGY TERMINOLOGY

# CLOUD

The cloud connects users and applications no matter where they are in the world

- “The cloud is made up of servers in data centers all over the world. Moving to the cloud can save companies money and add convenience for users.”

- N.D (2023). “What is the cloud? Cloud Definition.

<https://www.cloudflare.com/learning/cloud/what-is-the-cloud/>

# AWS

Amazon's cloud services that allows clients to host applications and offers them resources on a pay-as-you-go basis.

- Offering a range of services that we now consider to be everyday essentials, such as storage and backup, big data, social networking, and mobile apps, today AWS is used by some of the biggest names in business dealing with enormous data flow, including Netflix, Airbnb, McDonald's, NASA and many others.
- Kolodiy, Roman (24 February 2023). "AWS for Healthcare: Solutions Examples for 2023."  
<https://www.techmagic.co/blog/aws-for-healthcare/>



# CLOUD STORAGE

A method of storing and accessing digital data similar to how we used file cabinets for physical data files

- In practice, it's often more cost-effective, especially in an enterprise setting, to opt for these kinds of services when choosing the cloud storage for business. Offering plenty of storage capacity and more besides, they make it easy to secure, access, and share files, photos, and email wherever you are, online, on desktop, and on mobile.
- <https://www.techradar.com/best/best-cloud-storage>

# DISRUPTIVE TECHNOLOGY

Out of the box, different from the norm, this technology comes to replace an idea of what a product or service can do and be.

- The impact of disruptive tech and startups should not be underestimated. A case in point: as of this writing, the market capitalization of the Ford Motor Co. is \$55.4 billion. In contrast, the market capitalization of Uber, who have dramatically disrupted personal transport in recent years, has recently been reported to exceed \$50 billion.
- <https://www.linkdex.com/en-us/inked/disruptive-technologies-future-marketing/>

# ELASTIC COMPUTING

The capability within computing that allows the system to increase or decrease to fit the needs of the business

- Elastic computing, also known as cloud elasticity, is an approach that enables the dynamic allocation and reallocation of computing resources based on demand.
- <https://www.devx.com/terms/elastic-computing/>

# MIDDLEWARE

The rainbow that connects the cloud to the user. It allows the back end to communicate with the user interface of the application

- Middleware is software that lies between applications and the network, providing services that allow multiple software applications to be coordinated, work together, or communicate.
- <https://www.linkedin.com/pulse/what-difference-between-api-middleware-abraham-zavala-quinones>



# SAAS

Software that is managed remotely versus housed on a device. i.e., Microsoft 365 vs Word 2018.

- One of the most popular forms of cloud computing is software as a service (SaaS). It is one of the three major categories of cloud computing, along with infrastructure as a service (IaaS) and platform as a service (PaaS). SaaS has become the dominant software delivery model since the concept debuted in the early 2000s.
- <https://www.google.com/amp/s/www.inforworld.com/article/3226386/what-is-saas-software-as-a-service-defined.amp.html>

The background is a blue gradient with white circuit-like lines in the corners. These lines consist of small circles connected by straight lines, resembling a stylized circuit board or network diagram.

# COMPUTER SCIENCE TERMINOLOGY

## APPLICATION

Computer programs designed to complete a specific function to aid in the operation of the customer system.

- In tech, blocklisting is the process of denying access to applications or other entities that might pose a threat to a network.
- <https://www.comptia.org/content/guide/information-technology-terminology>

# BUG

An error that produces an unexpected result or any behavior that results in the program not performing that way that it was designed

- Thomas Edison reported “bugs” in his designs as early as the 1800s, but this was the first bug identified in a computer.
- <https://education.nationalgeographic.org/resource/worlds-first-computer-bug/>



# COMPONENT

An independent function part of a full system

- **Computer hardware** is an umbrella term that refers to the physical components of a computer.
- <https://study.com/academy/lesson/what-is-computer-hardware-components-definition-examples.html>

# AGILE DEVELOPMENT

Referring to any project management methodology involving development that evolves through collaboration.

- By engaging customers early and reviewing software regularly, Agile can reduce the risks of funding a program that fails or produces outdated technology.
- <https://www.gao.gov/products/gao-20-713sp>

# SOFTWARE ARCHITECTURE

Building or establishing the structure of how a system functions.

- *Good software architecture helps maintain the software's quality attributes throughout its lifetime, making it easier to scale & evolve the software over time.*
- <https://www.netsolutions.com/insights/why-software-architecture-matters-to-build-scalable-solutions/>

# UX (USER EXPERIENCE)

Process design focused on user experience

- Those who work on UX (called UX designers) study and evaluate how users feel about a system, looking at such things as ease of use, perception of the value of the system, utility, efficiency in performing tasks and so forth.
- <https://www.smashingmagazine.com/2010/10/what-is-user-experience-design-overview-tools-and-resources/>



# OPTIMIZATION

The process of improving functionality.

- Search engine optimization plays a **key role in improving your ranking positions**. Better rankings mean more traffic. And more traffic means new customers and more brand awareness.
- <https://www.semrush.com/blog/what-is-seo/>