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Tech Jargon

Term	Part of Speech	Definition	Pronunciation	Example Sentence	Synonym	Antonym
API (Application Programming Interface)	Noun	A set of rules that allows different software entities to communicate with each other.	/ˌeɪpɪˈaɪ/	"The developers integrated the payment system using an API."	Interface, connector	-
Cloud Computing	Noun	The delivery of computing services over the internet, including storage, processing, and databases.	/klaʊd kəmˈpjʊtɪŋ/	"Our company is moving to cloud computing to improve scalability."	Cloud services	On-premises computing
Big Data	Noun	Extremely large data sets that can be analyzed computationally to reveal patterns, trends, and associations.	/bɪg ˈdeɪtə/	"Analyzing big data helps businesses make more informed decisions."	Large-scale data	Small data
Firewall	Noun	A network security system that monitors and controls incoming and outgoing network traffic.	/ˈfaɪərwɔːl/	"Installing a firewall is essential to protect against cyber threats."	Network security	Open network
Machine Learning	Noun	A branch of artificial intelligence that allows software to become more accurate in predicting outcomes without being explicitly programmed.	/məˈʃiːn ˈlɜːnɪŋ/	"Our application uses machine learning to personalize user experiences."	AI training	-
DevOps	Noun	A set of practices that combines software development (Dev) and IT operations (Ops) to shorten the system development life cycle.	/devˈɒps/	"Implementing DevOps has streamlined our development process."	CI/CD	-
Agile Development	Noun	A method of software development that emphasizes incremental delivery,	/ædʒaɪl dɪˈvɛləpmənt/	"We use agile development to quickly respond to changes in project requirements."	Iterative development	Waterfall development

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SaaS (Software as a Service)	Noun	A software distribution model in which applications are hosted by a service provider and made available to customers over the internet.	/sæʃ/	"Many businesses prefer SaaS because it eliminates the need for hardware maintenance."	Cloud software	On-premises software
Blockchain	Noun	A decentralized digital ledger that records transactions across many computers, making it difficult to alter or hack.	/'blɒk,tʃeɪn/	"Cryptocurrencies are powered by blockchain technology."	Distributed ledger	Centralized ledger
Containerization	Noun	A method of packaging software so it can run consistently across different computing environments.	/kən,tetnəri'zeɪʃən/	"We use containerization to ensure our applications work the same way in every environment."	Software packaging	-
Latency	Noun	The delay before a transfer of data begins following an instruction for its transfer.	/'leɪtənsɪ/	"Reducing latency is critical for improving user experience in real-time applications."	Lag	Responsiveness
Virtualization	Noun	The process of creating a virtual version of something, such as a server, storage device, or network resources.	/'vɜːtʃʊəlaɪ'zeɪʃən/	"Using virtualization, we can run multiple operating systems on a single physical server."	Simulation	Physicalization

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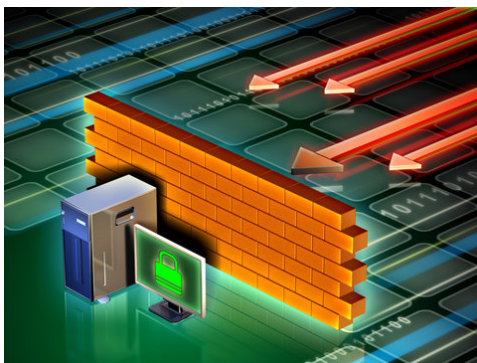
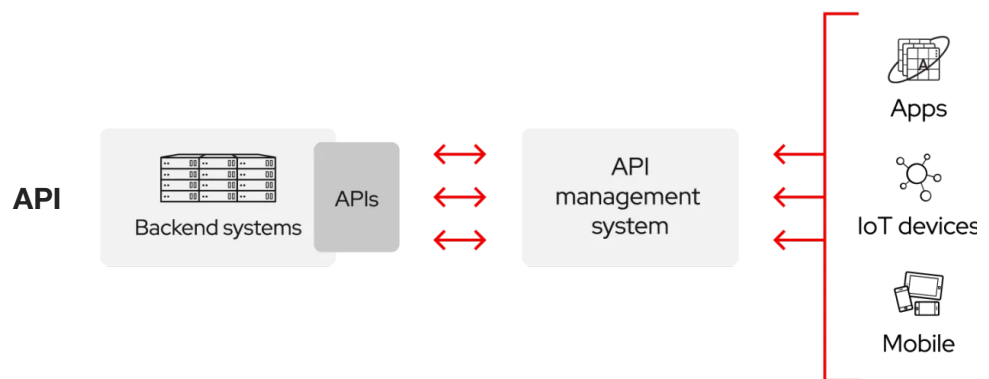
Mnemonic Devices

API: "Remember API as 'Application Programming Interface' – think of it as the doorway through which different software communicates."

Cloud Computing: "Imagine clouds as holding all your files and data, floating above and accessible from anywhere."

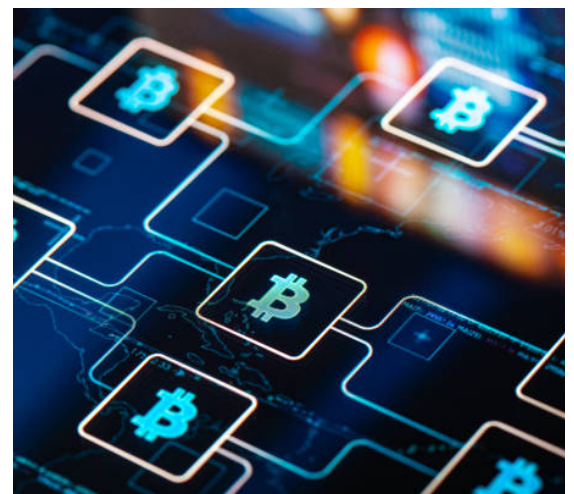
Big Data: "Think of Big Data as a huge pile of information that needs special tools to analyse."

Visual Aids



Firewall

Blockchain



READING COMPREHENSION

In the modern tech landscape, cloud computing has become a cornerstone for businesses seeking scalable and flexible IT solutions. Companies leverage APIs to integrate various software applications, ensuring seamless communication between systems. Meanwhile, firewalls remain a critical component of cybersecurity, safeguarding networks from potential threats. The advent of big data has revolutionized how companies analyze large volumes of information, enabling more accurate predictions and business strategies. Another significant trend is machine learning, which allows software to learn and improve from experience without explicit programming. This technology is often deployed alongside DevOps practices, which streamline the software development process by fostering closer collaboration between development and operations teams. Additionally, containerization ensures that applications run consistently across different environments, eliminating the "it works on my machine" problem. As blockchain technology gains traction, it's being used to secure digital transactions and prevent fraud. Understanding these terms is essential for anyone involved in the tech industry.

Questions:

1. What is the purpose of an API in software development?
2. How does cloud computing benefit businesses?
3. Why is a firewall important for network security?
4. What advantage does containerization offer in software development?
5. How does machine learning differ from traditional programming?