

Bandwidth

- In computer network and computer science, digital bandwidth or just bandwidth means the amount of data that can be sent from one point to another in a certain period of time. It is measured as a bit rate expressed in bits per second (bits/s) or multiples of it (kbit/s Mbit/s etc.)

Common Internet Performance Issues

- It can arise from various factors, affecting speed, reliability, and overall connectivity. These Issues highlight the need for regular maintenance of devices, updated hardware, and reliable network configurations to ensure optimal performance.

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REAL LIFE EXAMPLE OF COMMON INTERNET PERFORMANCE ISSUES

- ☐ A common real-life example of internet performance issues is during a video call. If the Wi-Fi signal is weak or the network is congested, you might experience

delayed audio, frozen video, or call disconnections. These issues often stem from high latency, limited bandwidth, or interference from other devices, disrupting the smooth flow of communication

How it connects to other web topics

- Common internet performance issues, such as slow loading times, packet loss, and high latency, intersect with various computer science topics:
 1. Networking Protocols: These issues often involve protocols like TCP/IP, HTTP/HTTPS, and DNS, which dictate how data is transmitted and retrieved across the web.
 2. Web Development: Optimizing website performance involves front-end and back-end strategies, such as reducing file sizes, efficient coding practices, and using CDNs to ensure faster content delivery.
 3. Data Structures and Algorithms: Efficient algorithms for compression, caching, and routing are critical for reducing latency and improving data flow over the internet.
 4. Distributed Systems: Load balancing, fault tolerance, and server scalability directly affect how internet-based systems handle traffic spikes and prevent slowdowns.
 5. Cybersecurity: Performance can degrade due to issues like DDoS attacks, highlighting the need for robust security measures to protect internet infrastructure.

By addressing performance issues, these fields collaboratively enhance the reliability, speed, and efficiency of web-based systems.

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