

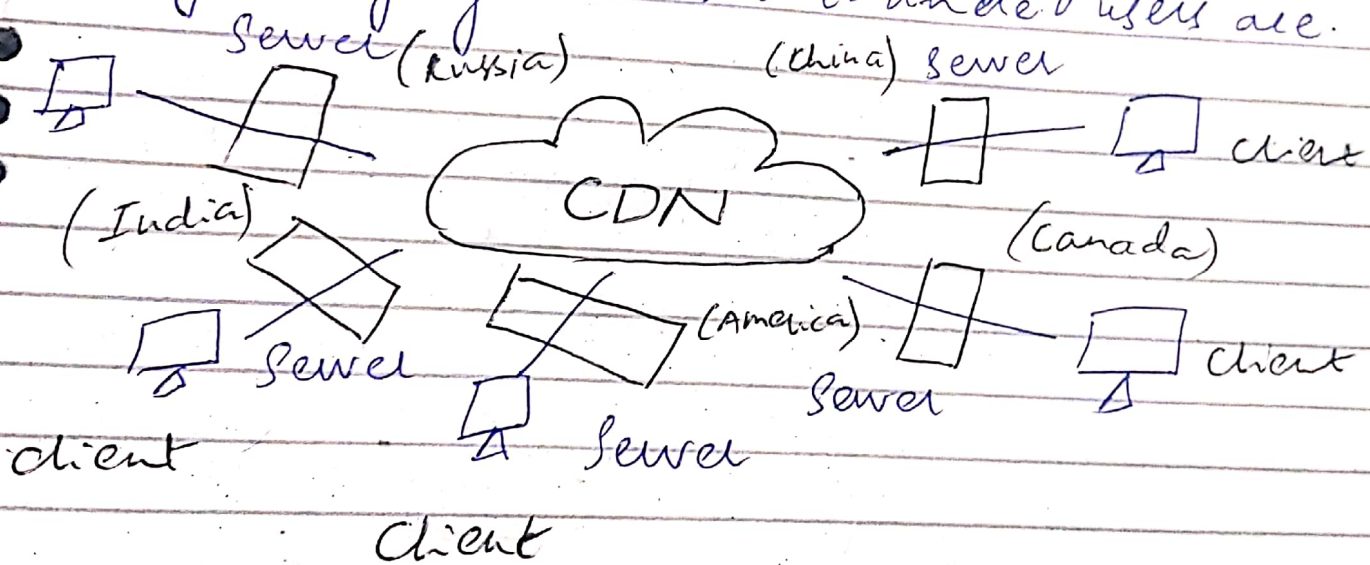
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Parallel Distributed Computing B

⇒ Content Delivery Network (CDN)

A content delivery network (CDN) is a group of geographically distributed servers that speeds up the delivery of web content by bringing it closer to where users are.

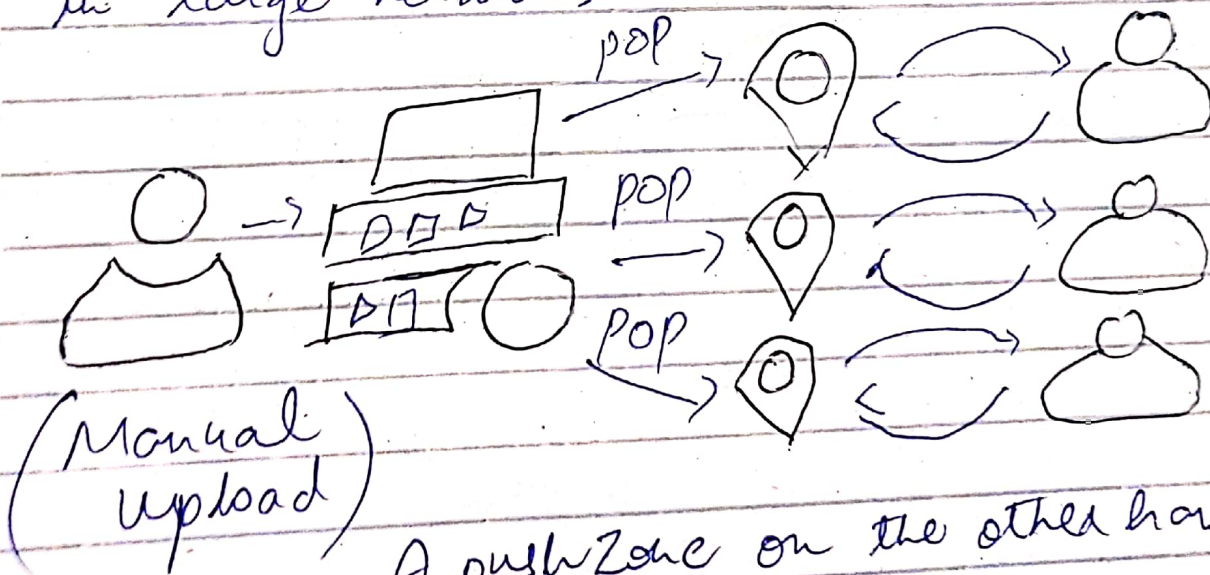


⇒ Example:- If you were in New York and wanted to view the website of your favorite store in London that's hosted on a server in UK, you would experience low/slow content load times if the request had to travel all the way across the Atlantic Ocean. To remedy this, CDN would store a cache version of London website content

in multiple geographical locations around the world, also called POPs (Points of Presence). These POPs contain their own caching servers and are responsible for delivering content that close to where you are located in New York.
ie Netflix used CDN.

⇒ CDN Architecture:-

- Origin servers are the source of your data.
- Control nodes are where management, routing, monitoring and security tools reside.
- Delivery nodes are key to content delivery.
- Storage nodes are added efficiency to the CDN in large networks.



A push zone on the other hand, places uploaded content on various storage servers across the globe and pushes content to POP upon user request.

=> Advantages of CDN:-

- Increased security.
- Improved SEO.
- Downtime protection and reliability.

=> The main advantage and object of CDN is to deliver content at the top speed to users in different geographical locations and that is done by a process of replication. CDN provides web content services by duplicating content from other servers and directing it to users from the nearest data center.

- lower latency.