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# **Platform as a Service**

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#### **Content Delivery Service**

- Content delivery service includes Content Delivery Networks (CDNs).
- CDN are the transparent backbone of the internet which takes care of content delivery
- How fast the content can be delivered to the user??
- That's what the Content Delivery Service has to take care of..



#### **Content Delivery Service**

- Think of situation. You are accessing a website through its URL
- The moment you hit enter, Does the page get loaded immediately or sometimes, you experience some delay in accessing the content?
- Content delivery is delivering every text, image, video to the user on the screen.
- The delay interval is because of physical distance between you and that website's hosting server



# **Content Delivery Service**

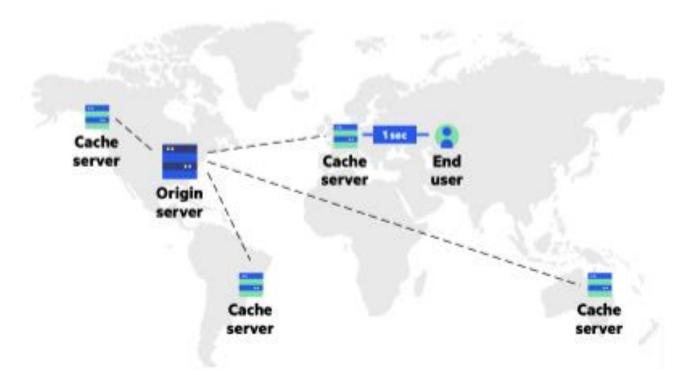
# PES UNIVERSITY ONLINE

#### Without CDN



# **Content Delivery Service**

#### With CDN



**Goal: Virtually shorten that physical distance** 



#### **Content Delivery Service**

- CDN stores the cached content in multiple geographical locations called as Point of Presence (PoP) or Edge Servers/locations
- It is a caching server. Each caching server is responsible for delivering content in its proximity
- CDN puts the content in many places at once, providing superior coverage to your users
- Can have multiple number of edge locations in multiple locations
- Requests are routed to the nearest edge locations



#### Who Uses CDN?

- Advertising
- Media and entertainment
- Online gaming
- E-commerce
- Mobile
- Healthcare
- Higher education
- Government

Almost everyone !!!



### What CDN does for you?

- Improve page load speed
- Handle high traffic loads
- Block spammers, scrapers and other bad bots
- Localize coverage without the cost
- Reduce bandwidth consumption
- Load balance between multiple servers
- Protect your website from DDoS attacks
- Secure your application



Agenda

Pricing

Customer

Performance

Very expensive

Corporate sector

#### **CDN Evolution**



1997 2001 2010

Agenda

availability

Pricing

Expensive

Customer

Business sectors

Performance and

#### 1st Gen

#### Static CDN

Content served
Static HTML and
downloadable files

Caching method Origin push

Network topology Scattered

#### 2nd Gen

#### Dynamic CDN

Content served
Static and dynamic content, including rich media

Caching method Many are origin pull

Network topology Consolidated

#### Multi-Purpose CDN

3rd Gen

Content served
Static and dynamic content, including rich media
Caching method

Caching method Most are origin pull

Network topology Highly consolidated Agenda

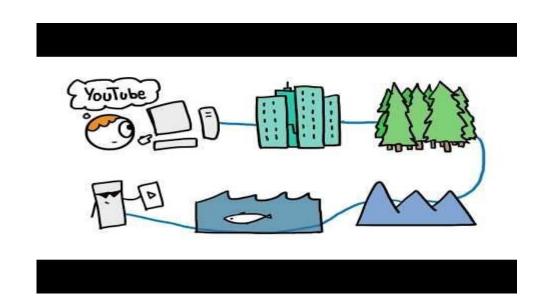
Security, performance and availability

Pricing Affordable

**Customer** Anyone with a website

## **Summary**







# **THANK YOU**

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