
Applications of Cloud Computing

Strategic Infrastructure for Modern Enterprise



Data Storage



Web Hosting



**Content
Delivery**



ML & AI

Data Storage

- ☁ **Remote Persistence:** Store vast amounts of data on managed remote servers.
- ☁ **Ubiquitous Access:** Retrieve data from any device, anywhere, via the internet.
- ☁ **Enterprise Scale:** Provides elastic scalability, high-grade security, and redundant backups.



Data Storage – Examples



Google Drive (G:)



Dropbox (F:)



Microsoft OneDrive (O:)



Amazon AWS S3 (S:)



Google Drive



Google Drive (G:)



Dropbox (F:)



Microsoft OneDrive (O:)



Amazon AWS S3 (S:)



Dropbox



Google Drive (G:)



Dropbox (F:)



Microsoft OneDrive (O:)



Amazon AWS S3 (S:)



Amazon S3

Web Hosting

- ☁ **Cloud Infrastructure:** Stores website files on distributed virtual servers.
- ☁ **High Availability:** Ensures near 100% uptime through server redundancy.
- ☁ **Elastic Performance:** Scales resources instantly based on traffic surges.



Web Hosting – Examples



AWS Hosting

Market leading cloud infrastructure with global reach.



Google Cloud

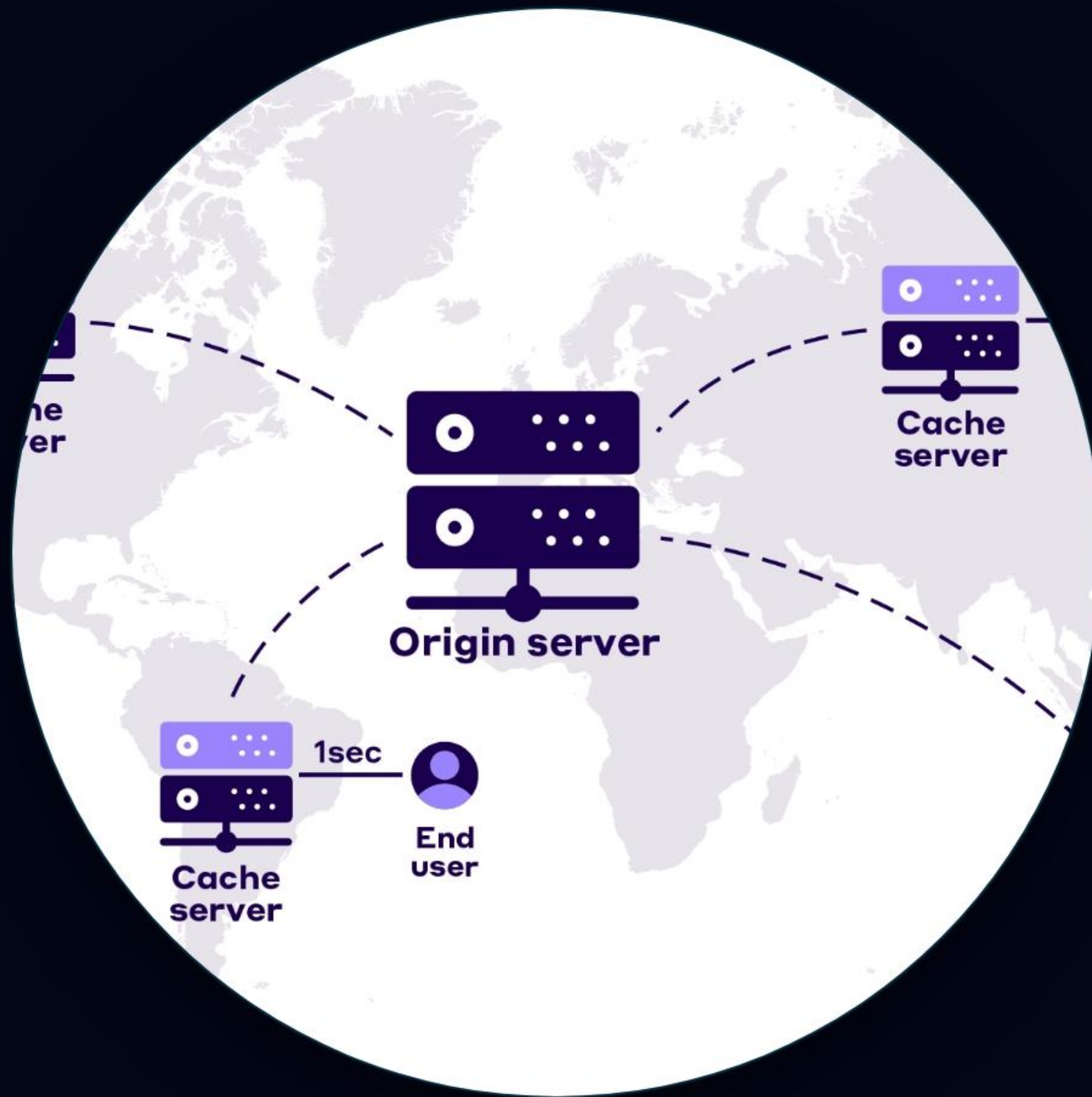
Optimized for high-speed data processing and scale.



Bluehost Cloud

Powerful and simplified hosting for web creators.

Content Delivery



The Edge Network

- ☁ **Faster Delivery:** CDN nodes deliver data faster by reducing physical distance.
- ☁ **Edge Servers:** Content is cached on servers around the world.
- ☁ **Performance:** Dramatically improves website speed and user experience.

Content Delivery – Examples



Cloudflare



AWS CloudFront



Akamai

ML & AI in the Cloud

Cloud Intelligence

Cloud platforms provide high-performance compute resources (GPUs/TPUs) for training AI models.

- ☁ **Analytics:** Advanced pattern recognition and prediction.
- ☁ **Automation:** Streamlining complex industrial workflows.
- ☁ **Efficiency:** No need for local expensive AI hardware.



ML & AI – Examples



Google Vertex AI

Unified platform for building and deploying AI models.



AWS SageMaker

End-to-end machine learning at scale.



Azure AI

Integrate intelligence into mission-critical apps.

Image Sources



<https://staticfiles.acronis.com/images/blog-cover/a36ca088474d81c8a693129978ce195d.png>

Source: www.acronis.com



<https://i.ytimg.com/vi/A2otu01hVdE/maxresdefault.jpg>

Source: www.youtube.com



<https://eu-images.contentstack.com/v3/assets/blt8eb3cdfc1fce5194/blta14c5daabedadfef/664f0cf20e6185d719266ba1/Chicago-Inside-Container-47.jpg>

Source: www.datacenterknowledge.com



https://cms.cloudoptimo.com/uploads/What_is_CDN_58138e450c.png

Source: www.cloudoptimo.com



https://cf-assets.www.cloudflare.com/slt3lc6tev37/3OYm9M0bw3ioLariOfHjjA/3ed1934bf5aae1d1c85fc99d711acba5/Connectivity_cloud_blueprint.svg

Source: www.cloudflare.com



https://rms.koenig-solutions.com/Sync_data/CCE_Logo/2915-futureartificialintelligencerobotcyborg.jpgL.jpg

Source: www.koenig-solutions.com