

INTERNET AS A PLATFORM

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Introduction – Internet as a Platform

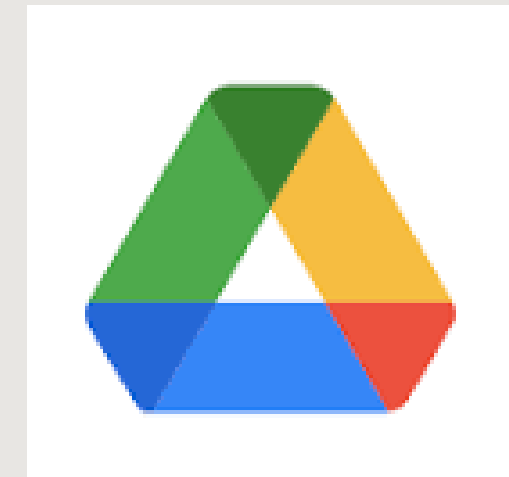
- In the early days, the Internet was mainly used for communication and information sharing.
 - Today, it has grown into a powerful platform that delivers applications, services, and infrastructure.
 - Through the Internet, users can access software, storage, databases, and computing power without needing powerful local machines.
 - This idea is the foundation of Cloud Computing, which is usually offered in three main models:
 - IaaS (Infrastructure as a Service) – renting servers and storage.
 - PaaS (Platform as a Service) – tools for developers to build and deploy apps.
 - SaaS (Software as a Service) – using ready-made applications over the web.
 - Example: When we use Google Drive for storing files or Netflix for streaming, the Internet is acting as a platform.
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Key Features

- On-demand access: Resources like storage or software can be accessed instantly when needed.
 - Scalability: Resources can be increased or decreased based on demand.
 - Pay-per-use model: Users only pay for the services they use, making it cost-effective.
 - Accessibility: Any device with internet can use the services – mobile, laptop, or tablet.
 - Resource sharing: Multiple users can use the same infrastructure, reducing cost and improving efficiency.
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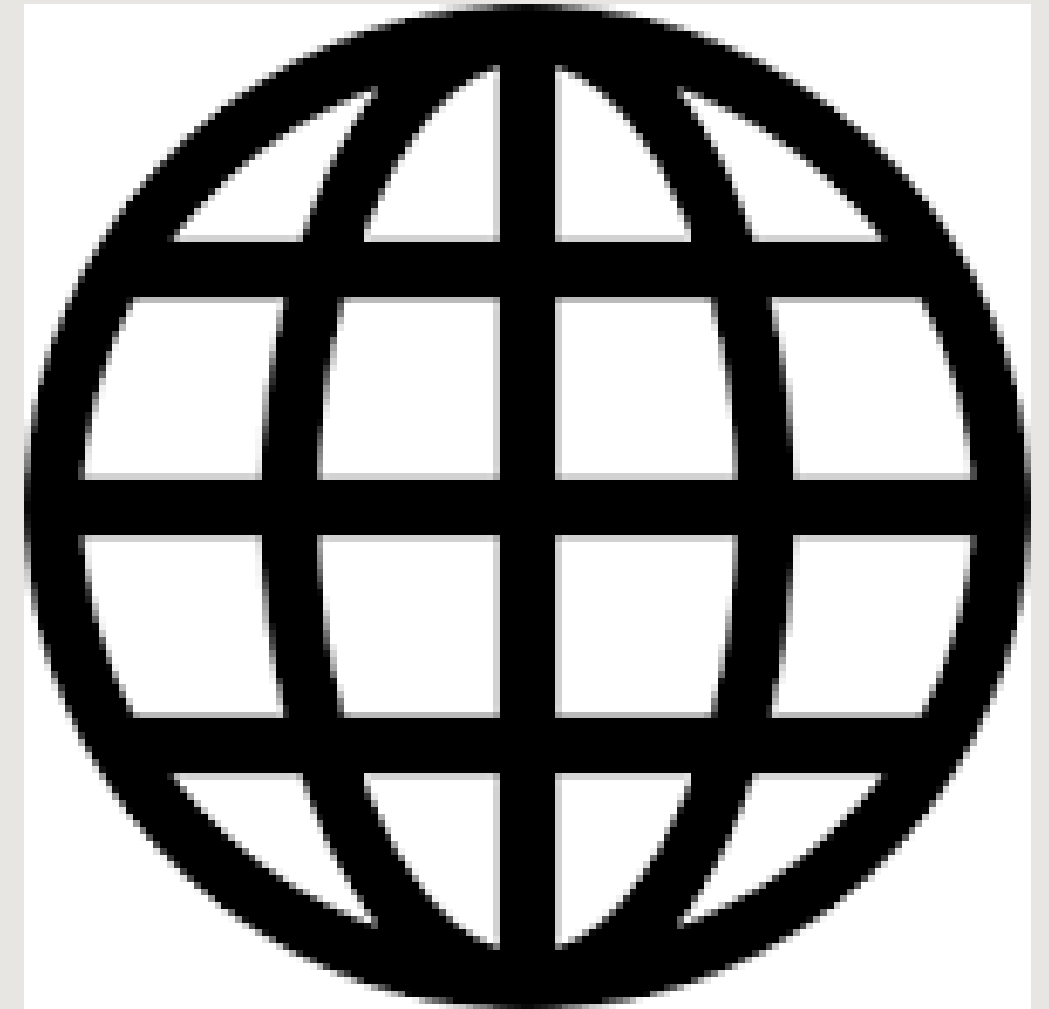
Real Examples

- Google Drive, Dropbox: Provide online storage and file sharing.
- Amazon Web Services (AWS), Microsoft Azure, Google Cloud: Provide infrastructure, databases, and tools for cloud computing.
- Salesforce: Provides Customer Relationship Management (CRM) as a service over the internet.
- YouTube, Netflix: Deliver videos and entertainment content globally using the internet platform.



Benefits

- Cost-effective: Reduces the need for heavy investment in hardware and software.
 - Flexibility: Users can work from anywhere as long as they have internet access.
 - Collaboration: Enables real-time teamwork, like editing documents together.
 - Automatic updates: Software and services are updated automatically, reducing manual work.
 - Reliability: Data is stored on secure servers with backup systems, ensuring safety.
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Challenges & Future Scope

- **Challenges:**

- Data security and privacy are major concerns in cloud services.
- Internet dependency – services stop if connection fails.
- Vendor lock-in – difficult to switch from one provider to another.

- **Future Scope:**

- Integration with AI, IoT, and Big Data will make services smarter.
 - Serverless computing will allow running applications without managing servers.
 - Edge computing will bring data processing closer to users, reducing delay.
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THANK YOU

For Listening

