



CLOUD SERVICES

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Cloud Computing Essentials

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Cloud Architecture

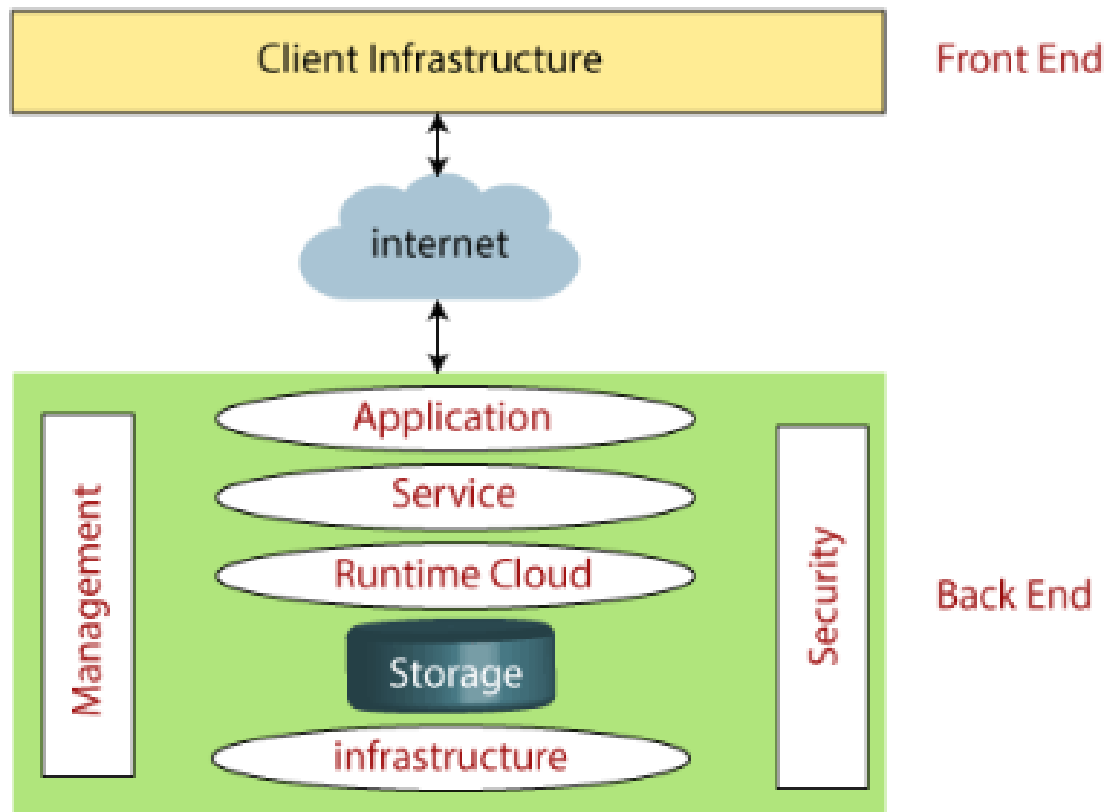


Cloud computing architecture is a combination of **Service-Oriented Architecture** and **Event-driven architecture**

Two Parts: **Front end** and **Back End**

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Cloud Architecture



Source: <https://www.javatpoint.com/cloud-computing-architecture>

Front End

- Used by the client.
- Contains client-side interfaces and applications
- Includes web servers (including Chrome, Firefox, internet explorer, etc.), thin & fat clients, tablets, and mobile devices.

Back End

- Used by the Service Provider
- Manages all the resources that are required to provide cloud computing services
- Includes data storage, security mechanism, virtual machines, deploying models, servers, traffic control mechanisms, etc

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Components of Cloud Computing Architecture



- **Client Infrastructure** – Client front end . GUI to interact with cloud
- **Service** – IaaS, PaaS, SaaS
- **Application** – application or platform that a client wants to access
- **Runtime Cloud** – execution and runtime environments to VMs
- **Infrastructure** – host level, application level and network level. Includes servers, storage, network devices, virtualization software

- **Storage** - storage capacity to store and manage data
- **Management** – Manage application, service, runtime cloud, storage, infrastructure, and other security issue
- **Security** - implements in-built back end security mechanism
- **Internet** - Medium through which front end and back end can interact



THANK YOU

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