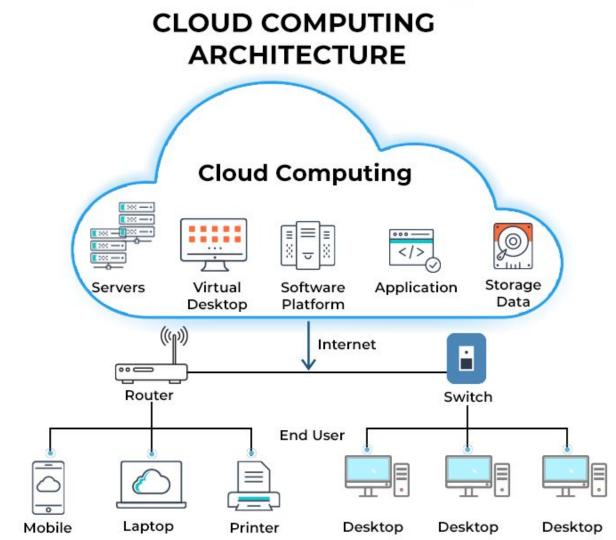
Cloud Computing

Luscombe Lab Tech Meeting - 2022-06-15 Chris Cheshire

What is cloud computing?

Any hosted computing resource that is offered as a service as part of a public, private or hybrid network



Why?

- Agility
- Cost
- Complexity
- Maintenance
- Performance
- Scalability
- Security





Top 10 Cloud Providers





















Cloud clients

Web browser, mobile app, thin client, loT devices, machines, ...



Cloud application (SaaS)

CRM, ERP, web conferencing, group chat, email, analytics, virtual desktop, games, ...

Cloud platform (PaaS)

Application runtime, database, web server, developer services, data lake, ...



Cloud infrastructure (laaS)

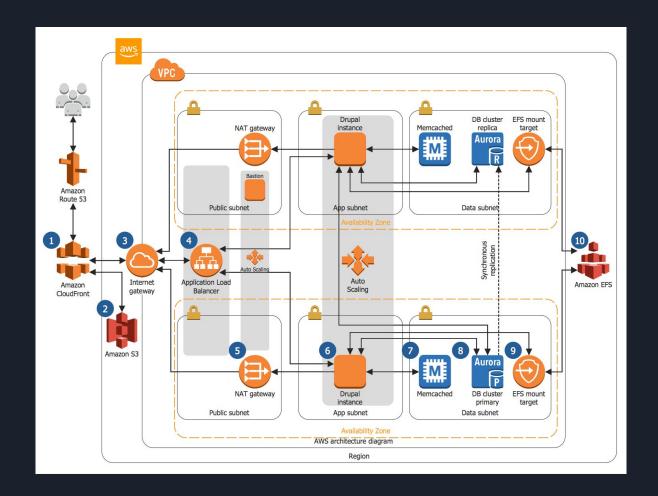
Virtual machines, bare metal servers, storage, load balancers, networking, ...



Deployment model

Public cloud, hybrid cloud, multicloud, private cloud

Cloud Architecture



Case study - genomics pipeline

Other AWS Services