QUALITY THOUGHT
INFO SYSTEMS (INDIA) PVT. LTD

Amazon Web Services

- **The Hiring Scale is 76 for jobs that require cloud computing skill sets, with the average job post staying open 47 days.** The higher the Hiring Scale score, the more difficult it is for employers to find the right applicants for open positions. Nationally an average job posting for an IT professional with cloud computing expertise is open just 47 days.

- According to a study by global IT consulting firm Zinnov, the global cloud computing market is expected to be over $70 billion and India will create job opportunities for about 3 lakh people in the same period. Salary levels will be equally impressive. An entry-level professional, perhaps with 5-6 years of experience, can earn around 12-19 lakh; while a mid-level executive will get around 20 lakh. People with 10-15 years' experience can hope to get 30 lakh or more.

What is Cloud Computing?

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A model for enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction

(Source: NIST)

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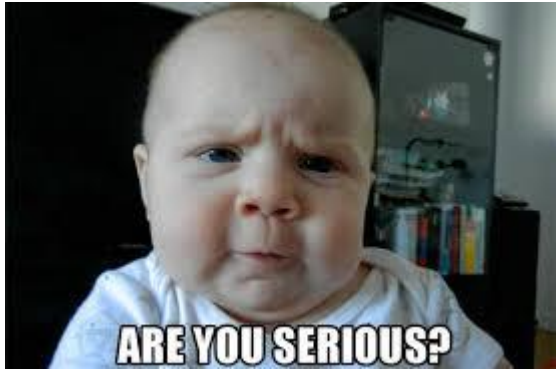


Cloud Computing at a Glance

5	3	4
Essential characteristics	Service models	Deployment models

Essential Characteristics

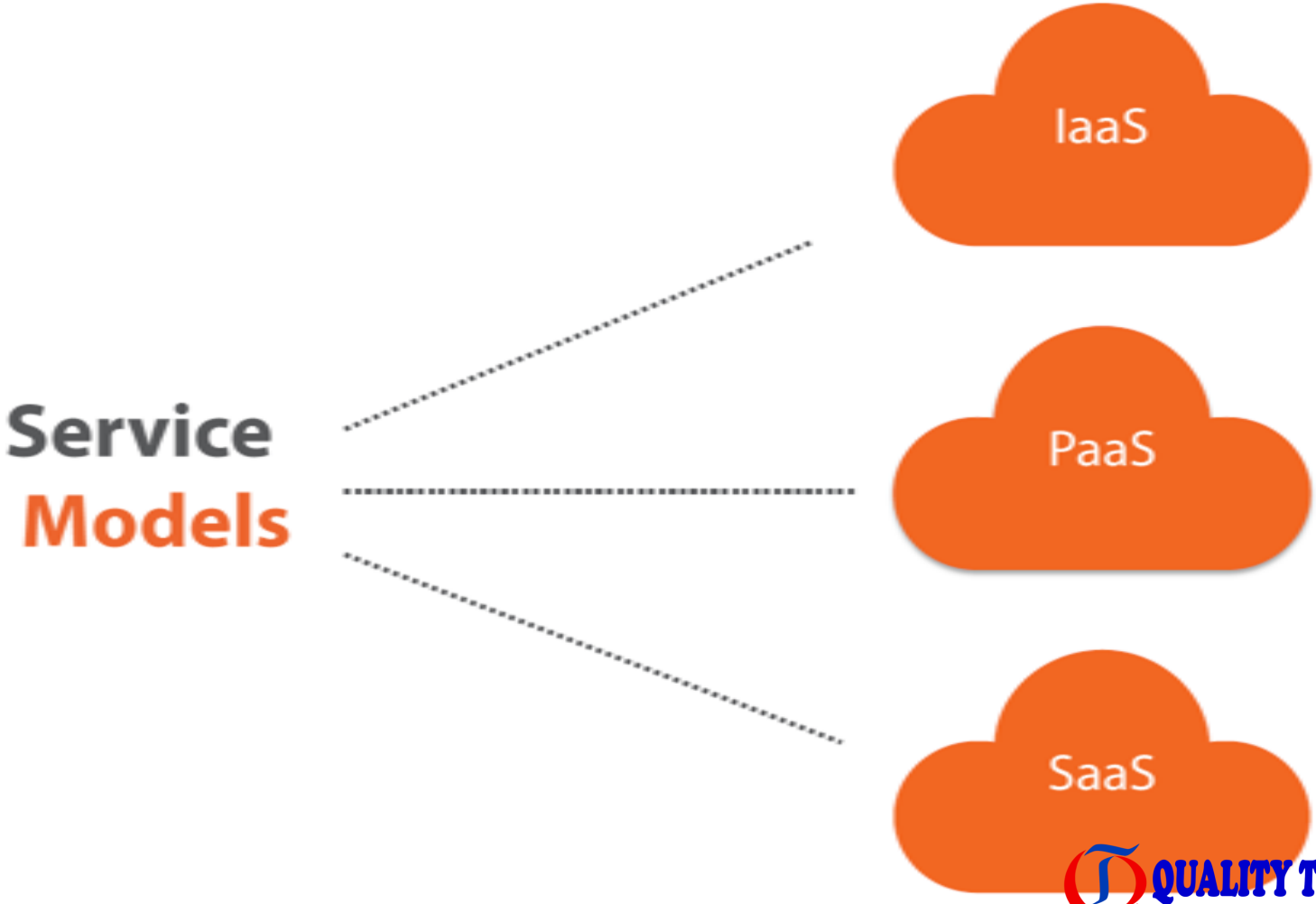
On-demand

Broad Network Access

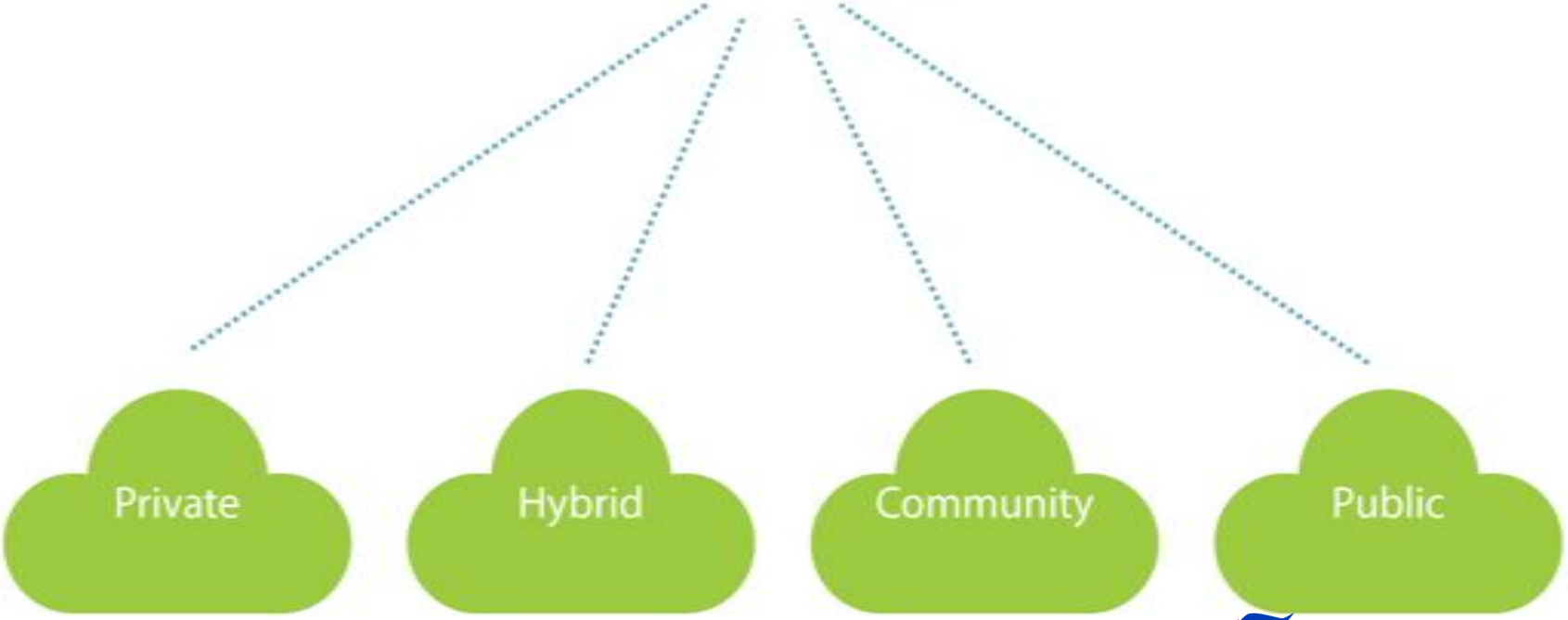
Resource Pooling

Rapid Elasticity

Measured Service



Deployment Models



Key Dates in the History of Cloud Computing

Cloud Service Providers

amazon web services

Azure

Google Cloud Platform

Who is better?

Gartner had the following takeaways:

- AWS has a diverse customer base and most use cases. AWS is also mature but requires expertise to operate and buyers need to seek out sales and architecture engagement. Customers also have trouble getting into the deep range of services.
- Microsoft integrates infrastructure and platform as a service best and has better integration. Gartner also gave Microsoft props for being more open and being a good enough option to AWS. The knocks against Microsoft Azure are documentation, support and an ongoing build out. In addition, partners lack expertise in deep integration tasks.
- Google is viewed as a good option for big data and batch computing. Gartner said Google's vision was a strength, and it understands cloud native apps well. Google also has machine learning and analytics chip. The rub is that Google doesn't have a feature set to match leaders and has trouble engaging with enterprises and midmarket companies.

Build and Operate

Consume

AWS History

- In **2002** Amazon Web Services was born
- In **2006** Jeff Bezos took the stage at MIT's Emerging Technologies conference to talk about two cloud computing products and the ambitions the company had for them
- EC2 was developed first and foremost for Amazon's internal infrastructure

There's a hidden Amazon, just under the epidermis, the guts of Amazon, this is all the stuff we have to do on the back-end to make this work.

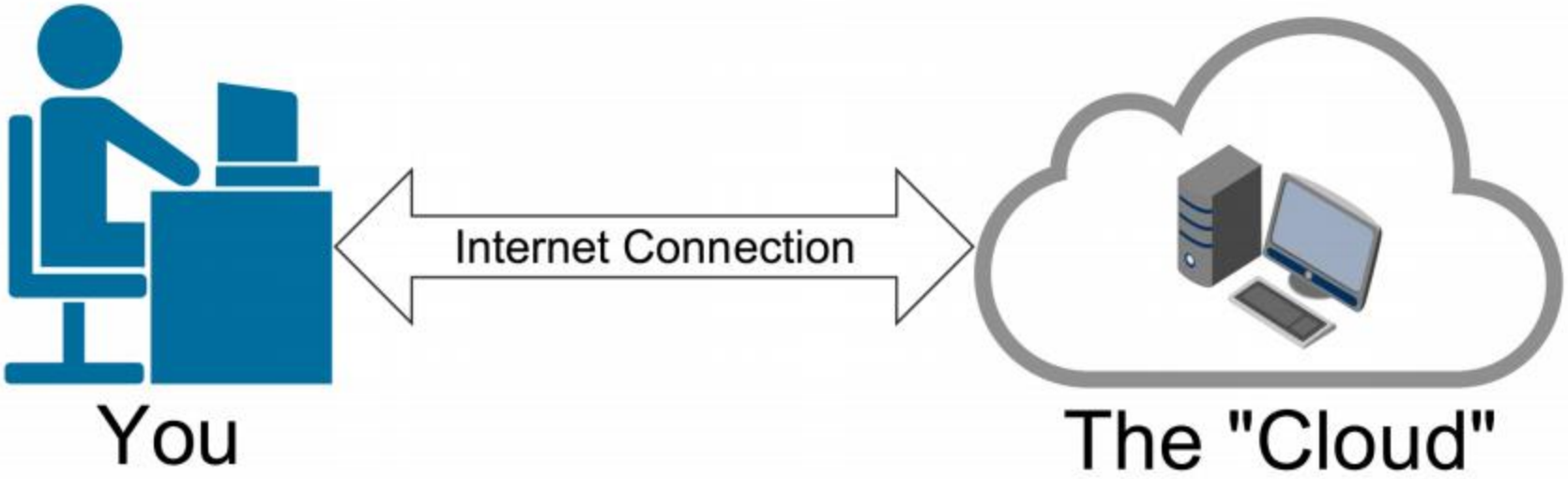
— Jeff Bezos

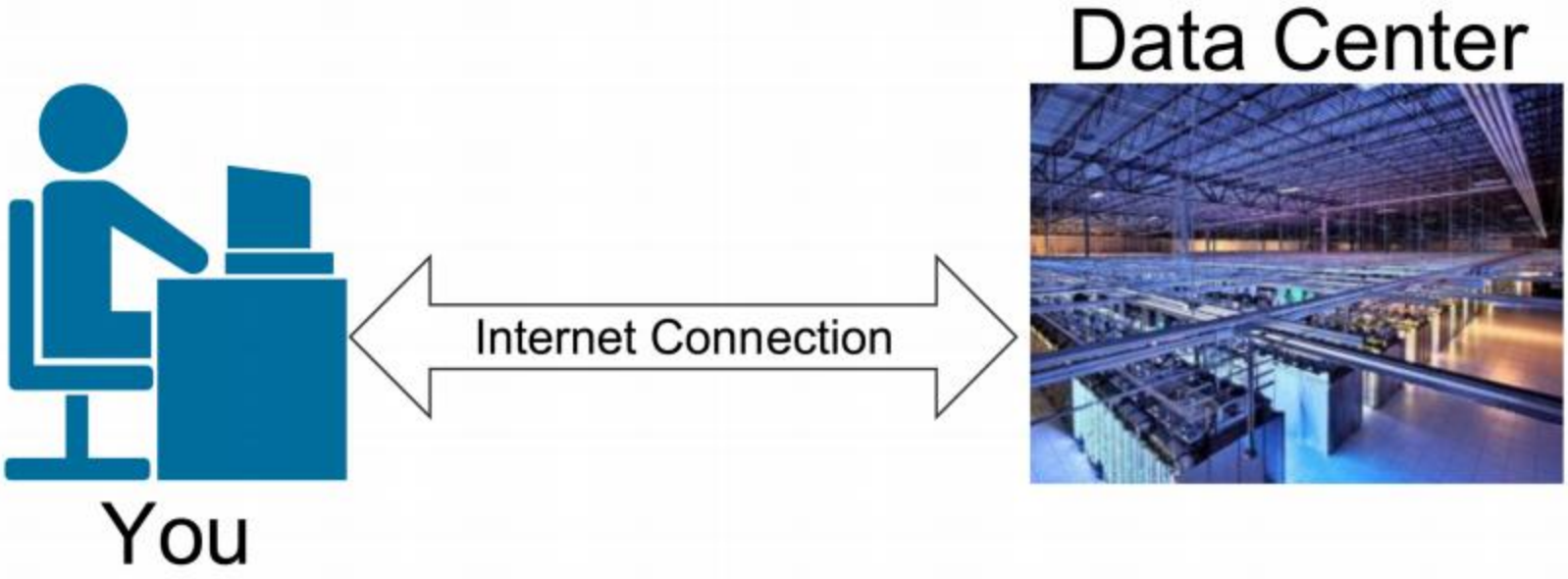
What is the "cloud"?

iCloud

DropBox

"Store your files in the cloud"





Storage

Computing Power

Databases

Amazon Web Services is a ***Cloud*** services provider

Also known as Infrastructure as a Service (IaaS)

Storage

Computing Power

Databases

Networking

Analytics

Amazon Web Services is a ***Cloud*** services provider

Also known as Infrastructure as a Service (IaaS)

Developer Tools

Virtualization

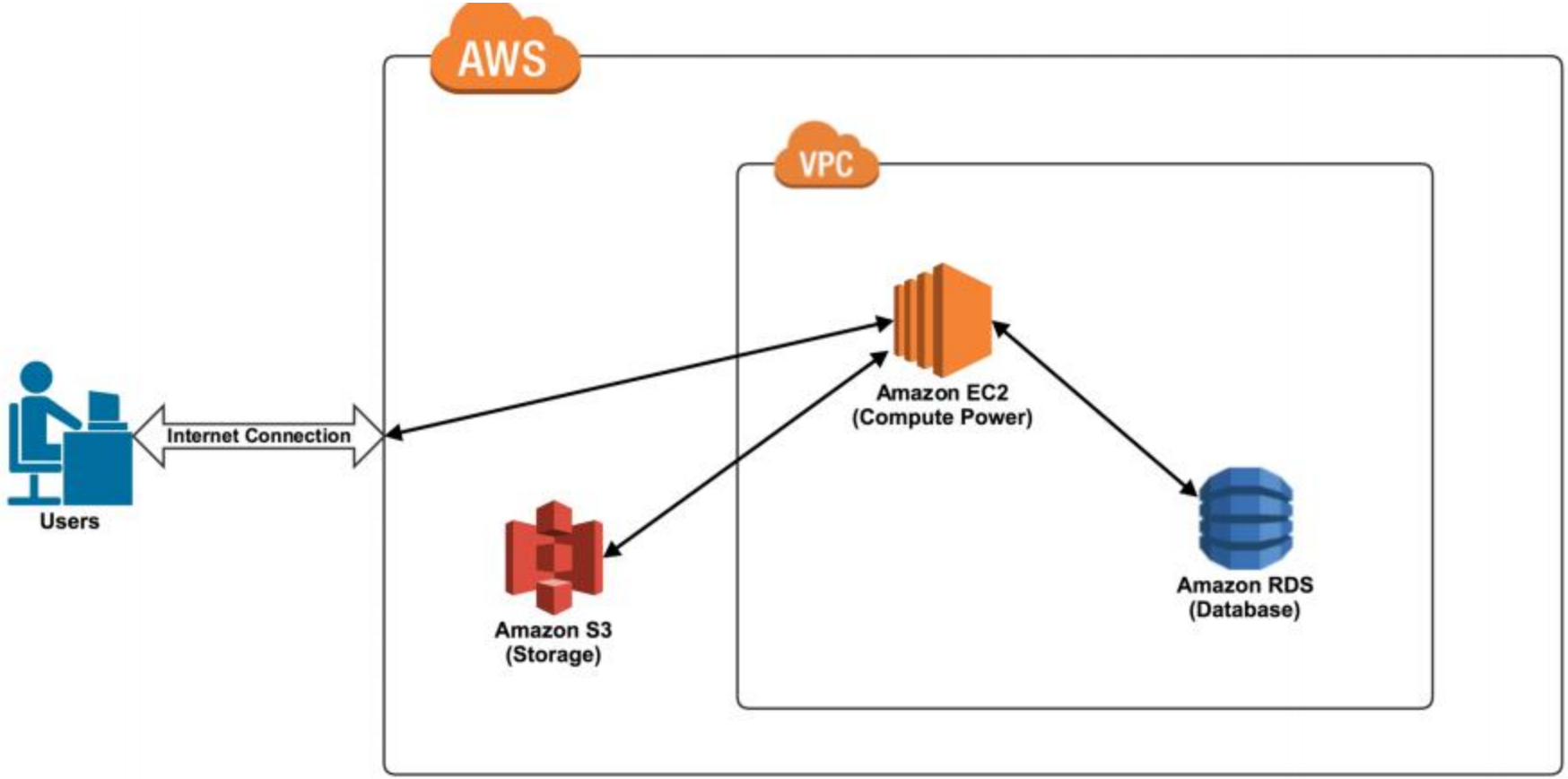
Security

Cloud Terminology
#1: ***"High Availability"***

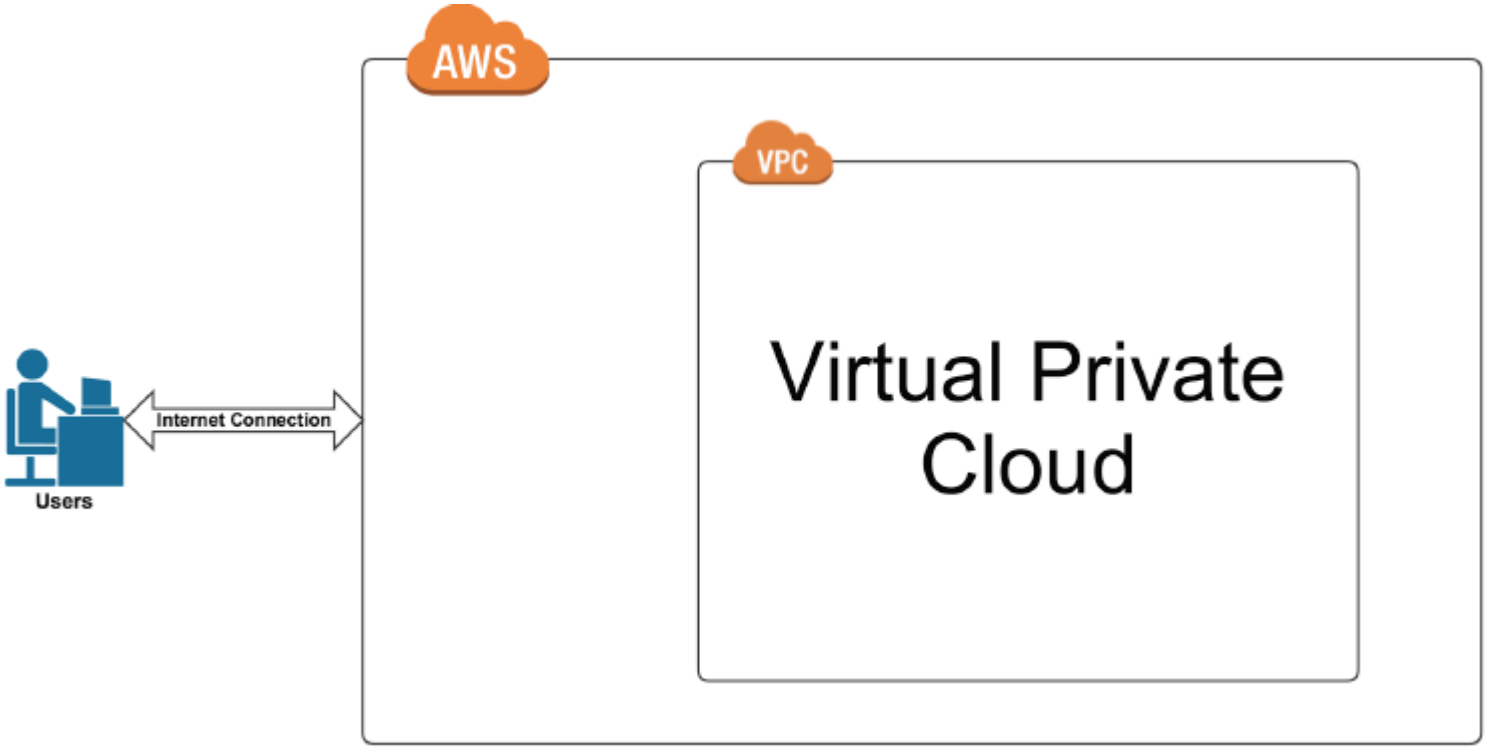
Cloud Terminology
#2: ***"Fault Tolerant"***

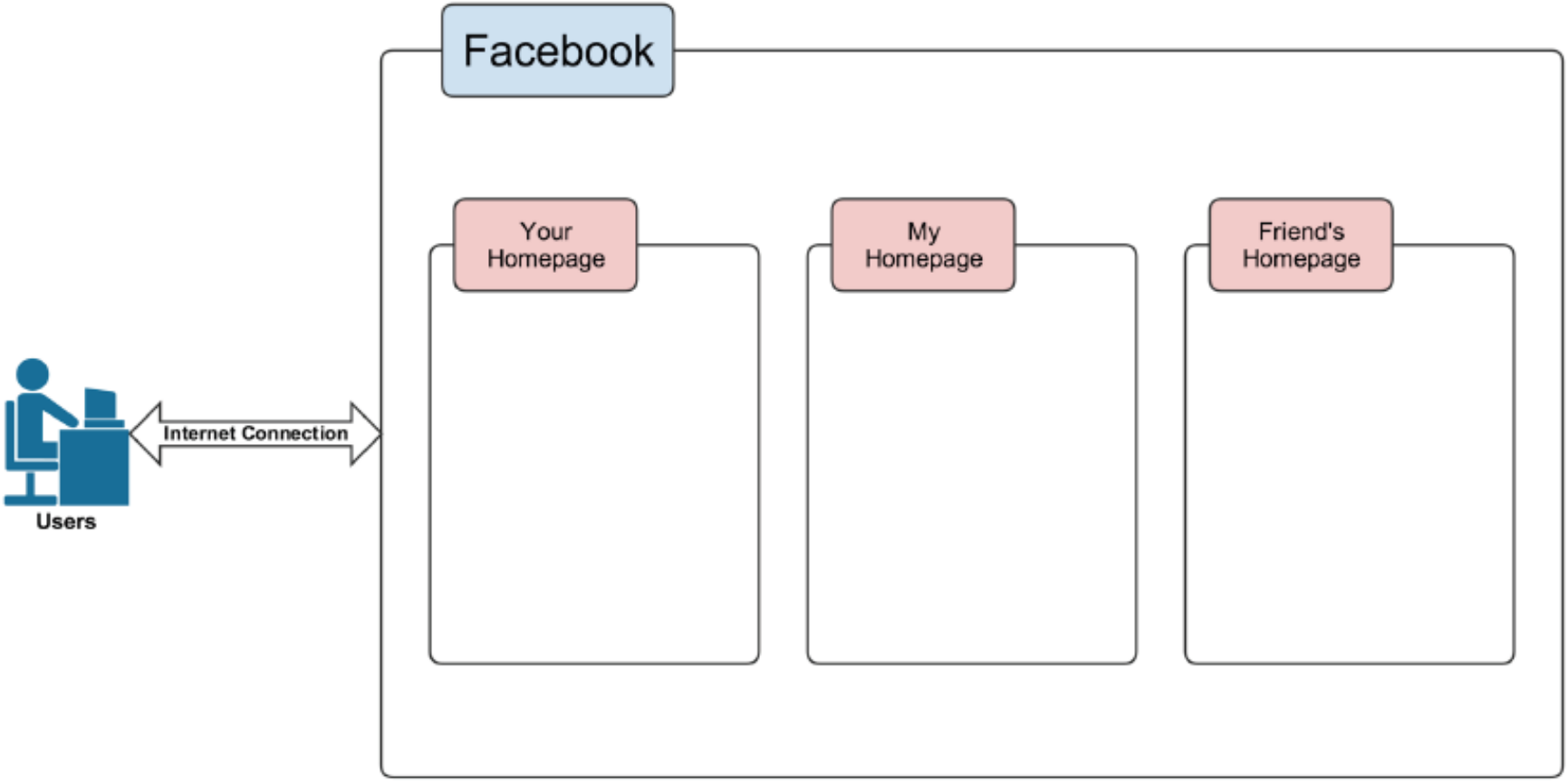
Cloud Terminology
#3: ***"Scalability"***

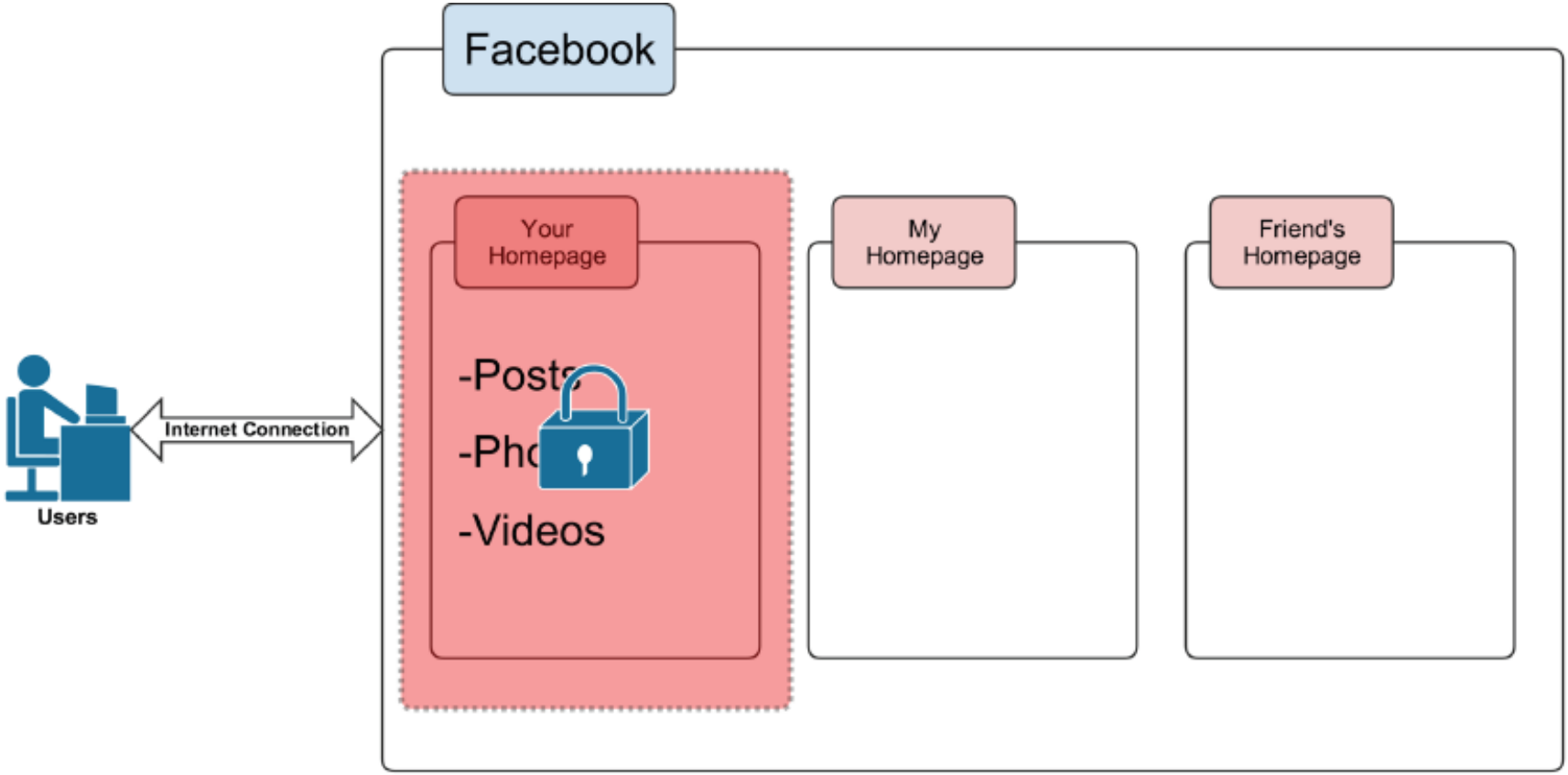
Cloud Terminology
#4: ***"Elasticity"***

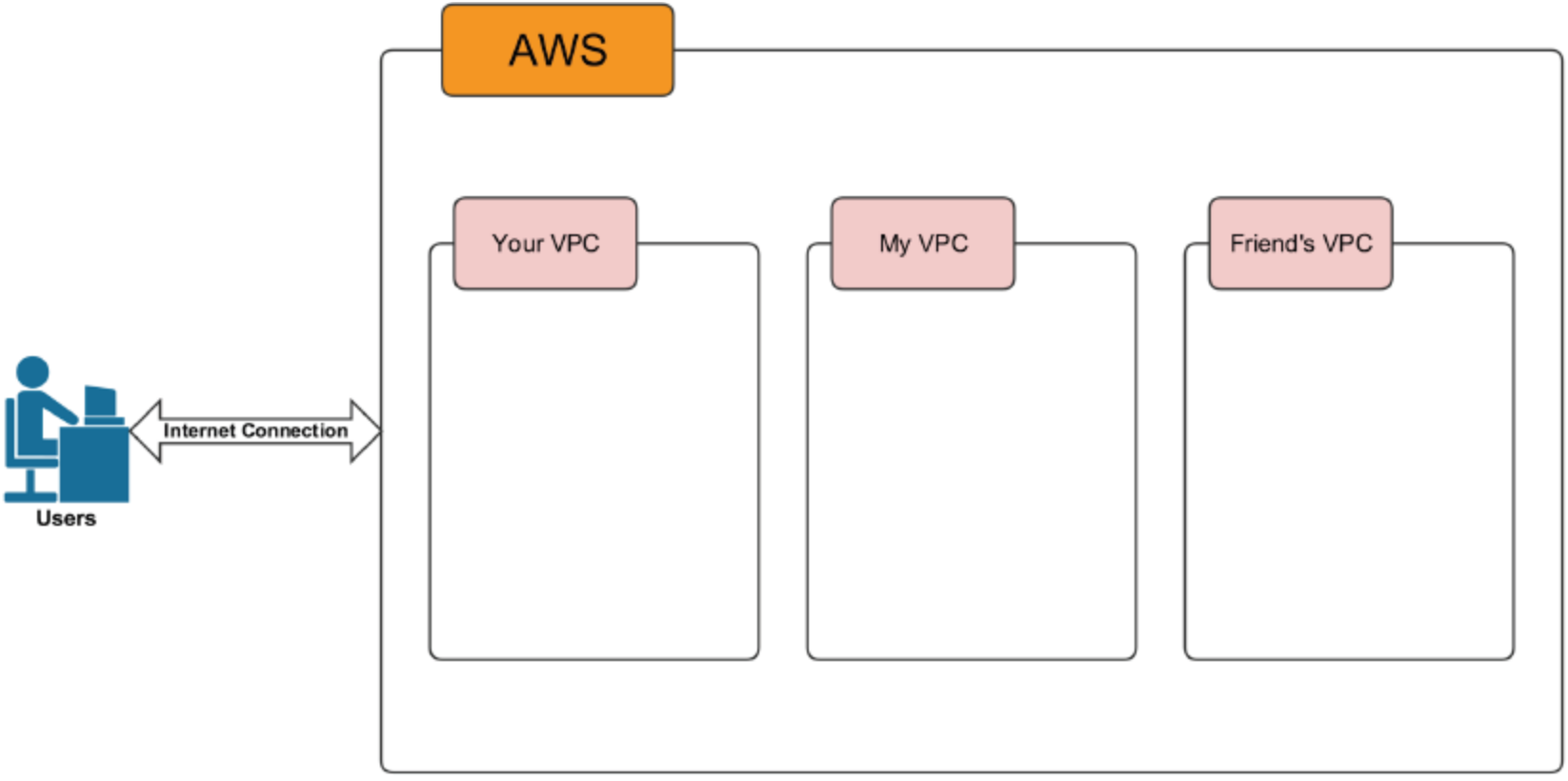


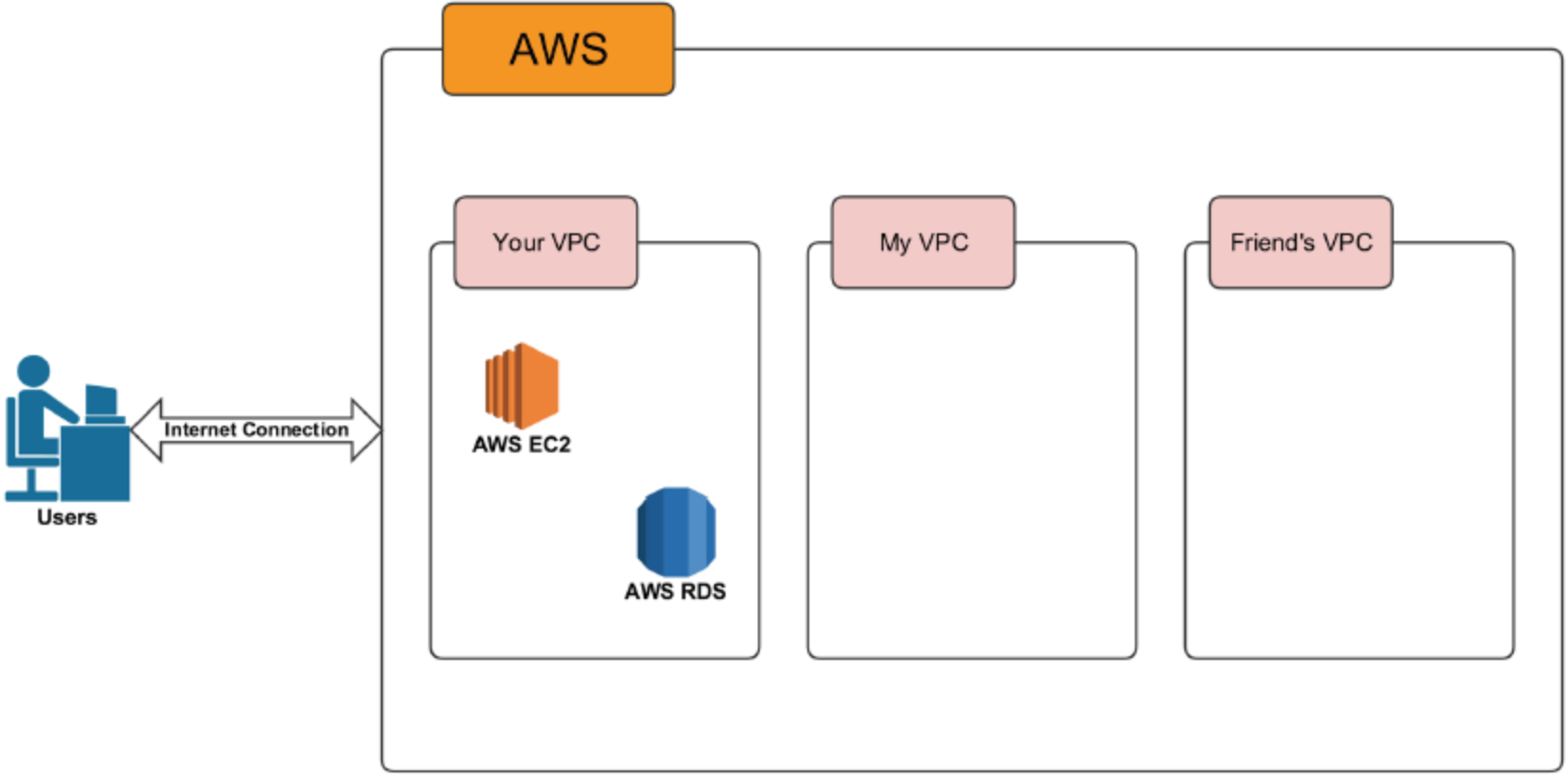
Amazon Virtual Private Cloud (VPC)

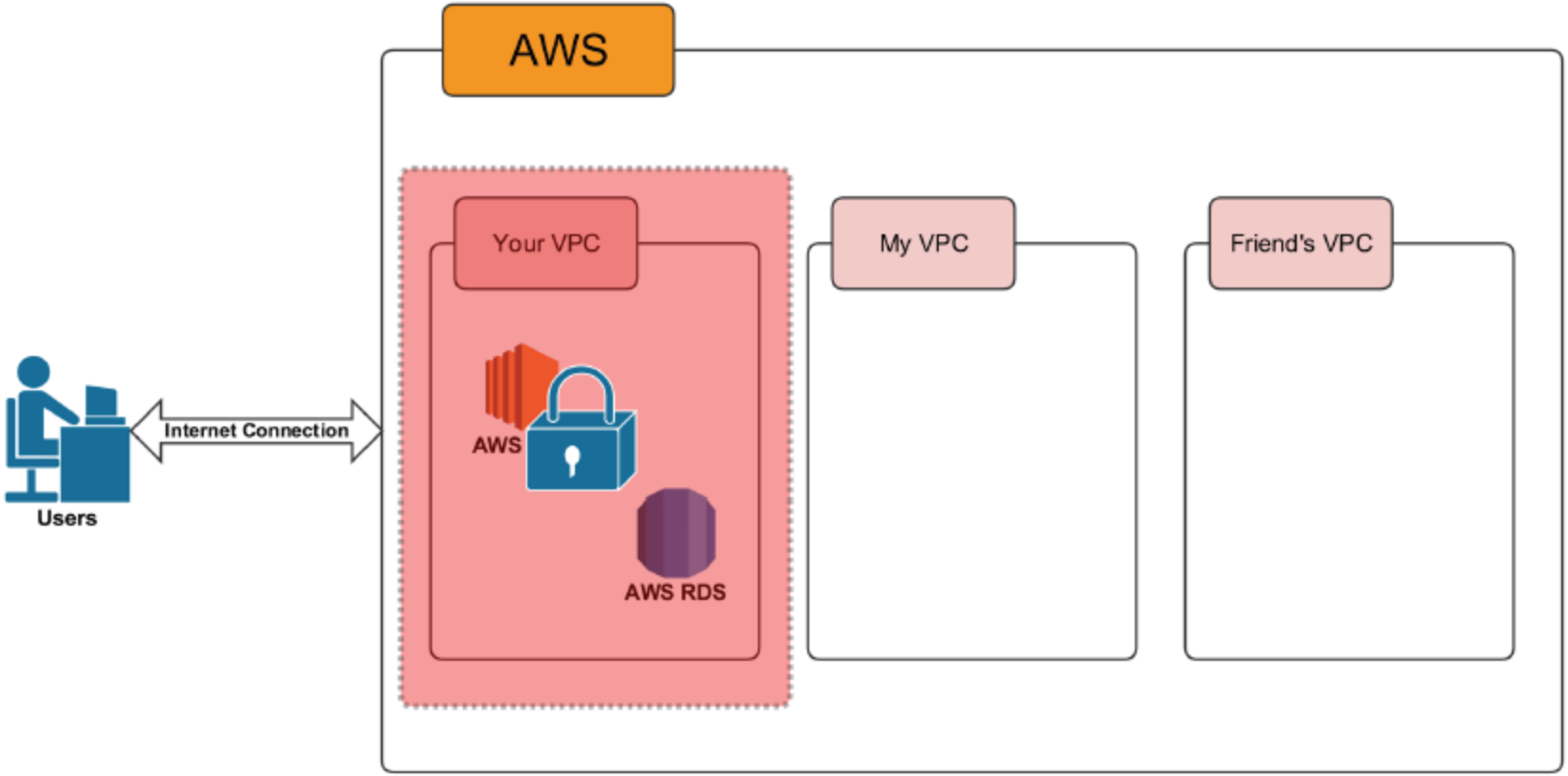






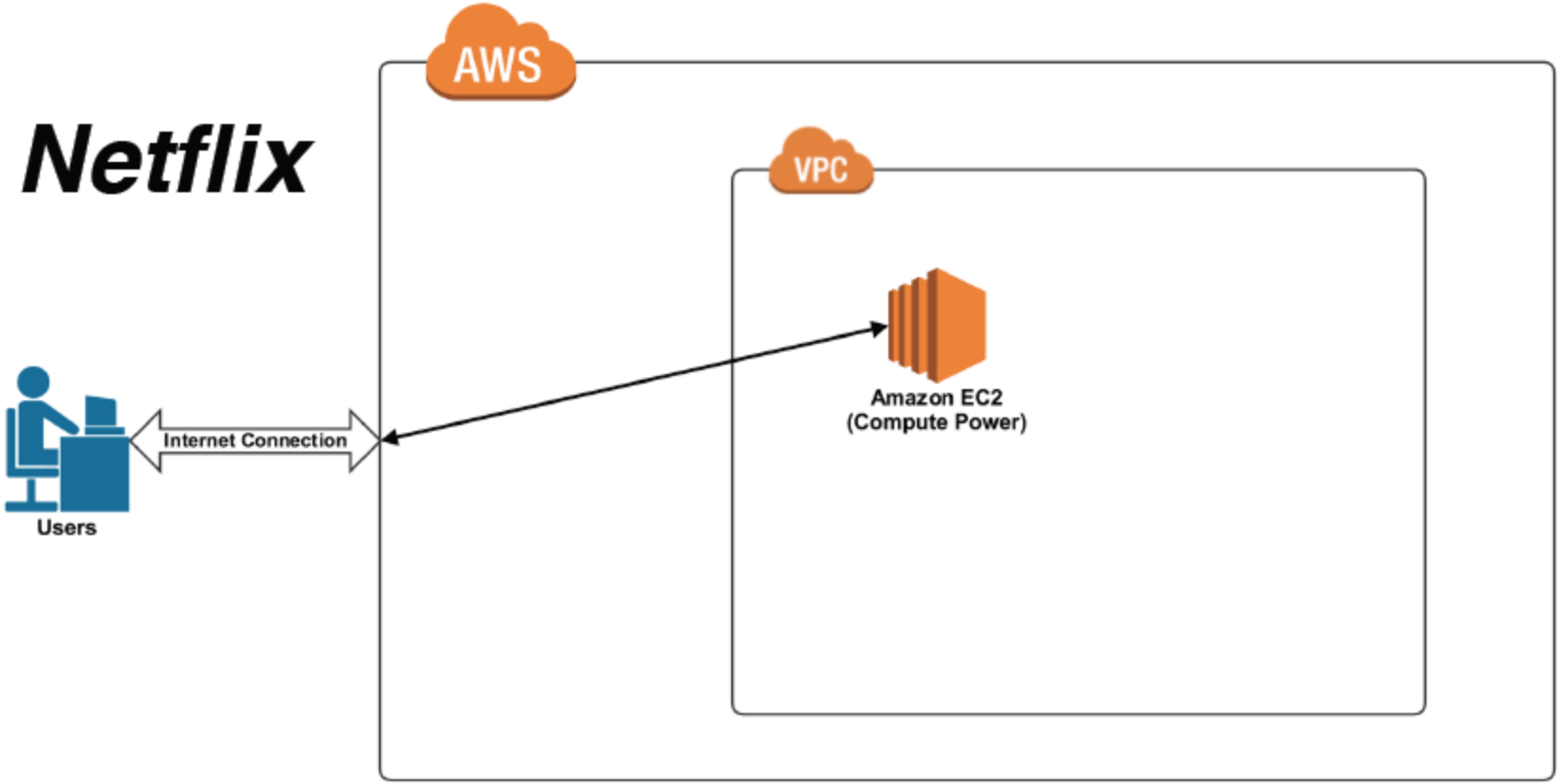


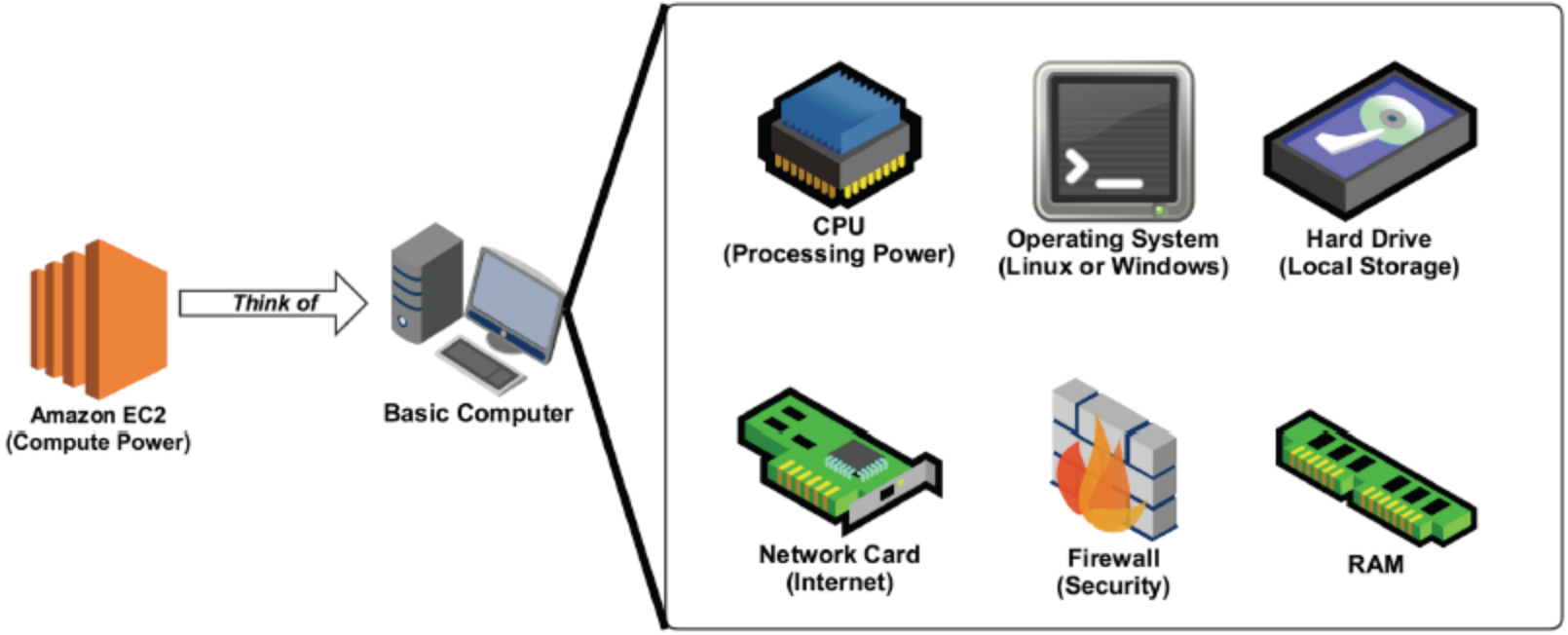


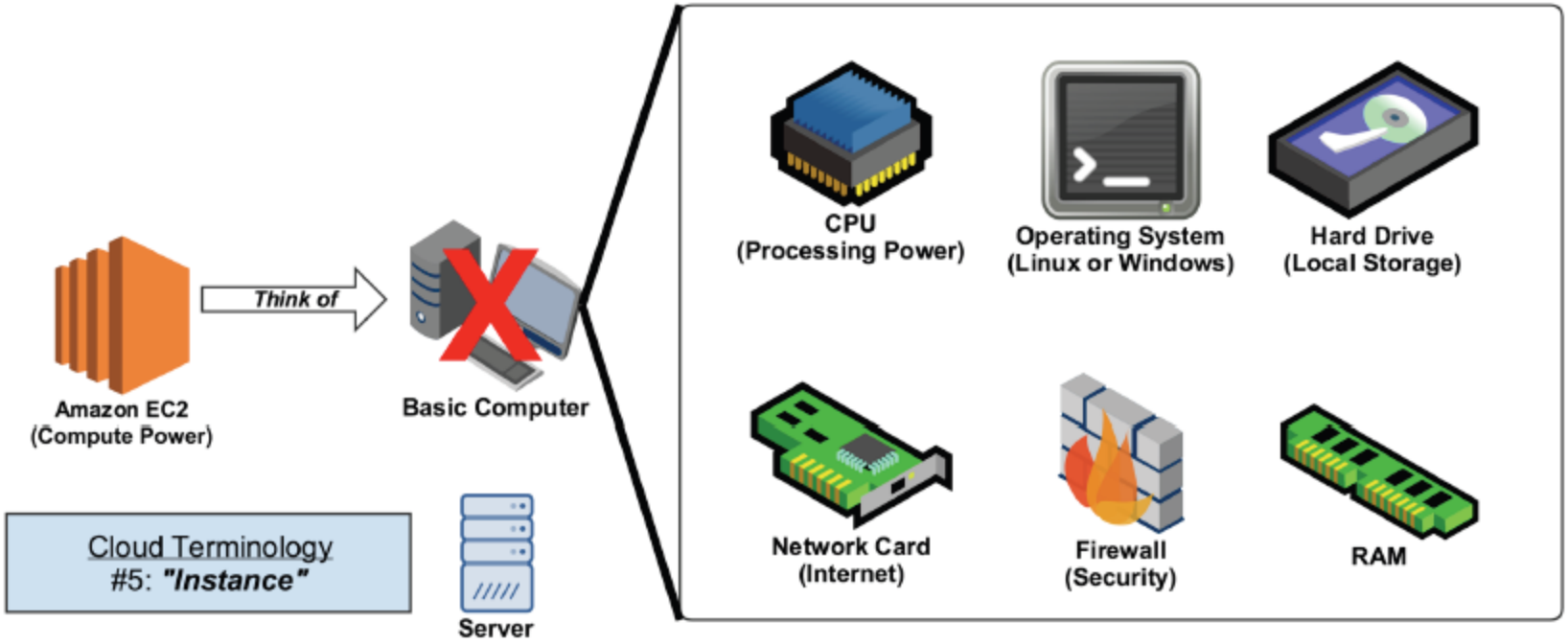

AWS
Your VPC
My VPC
Friend's VPC
Internet Connection
Users
AWS
AWS RDS

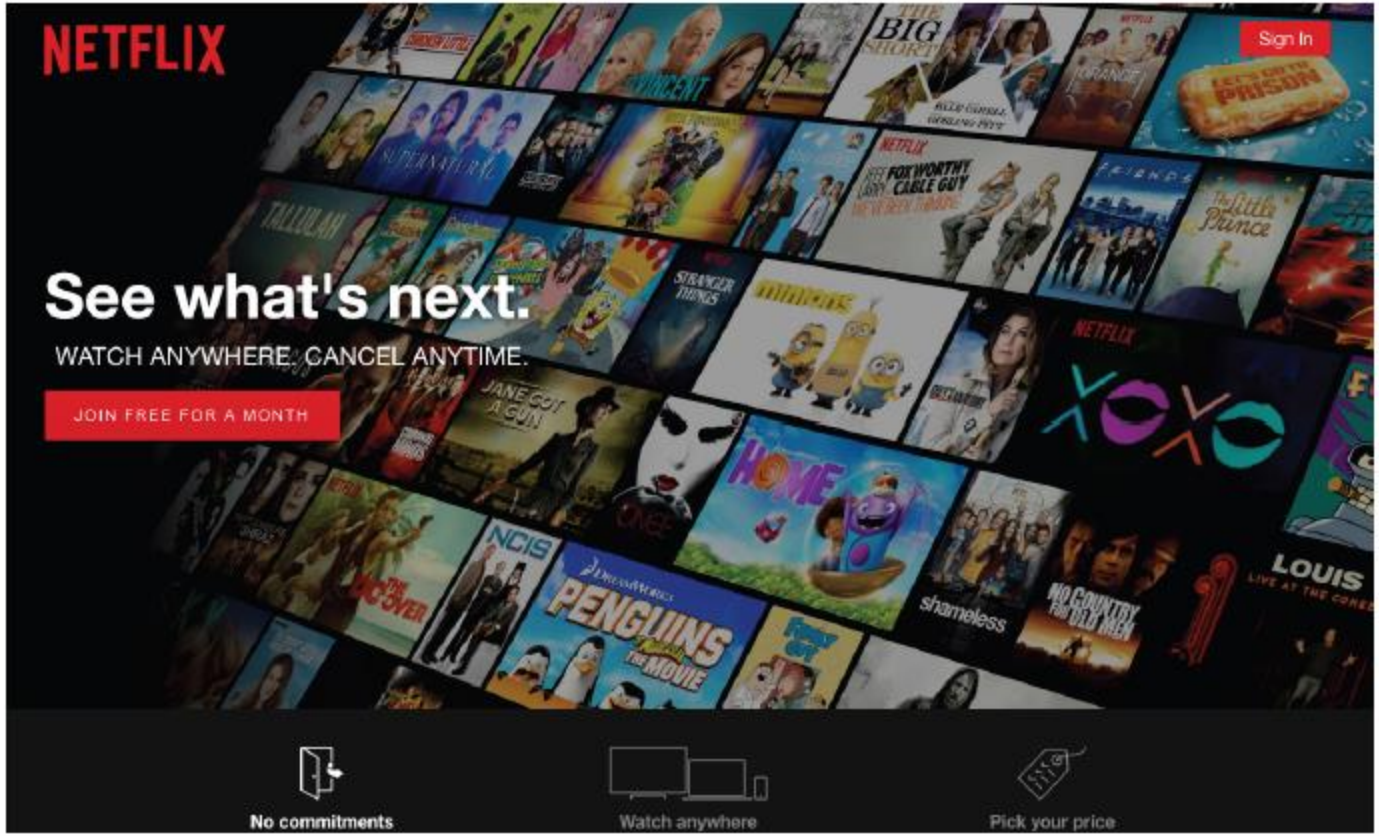
A ***Virtual Private Cloud*** is your private section of AWS, where you can place AWS resources, and allow/restrict access to them.

Netflix

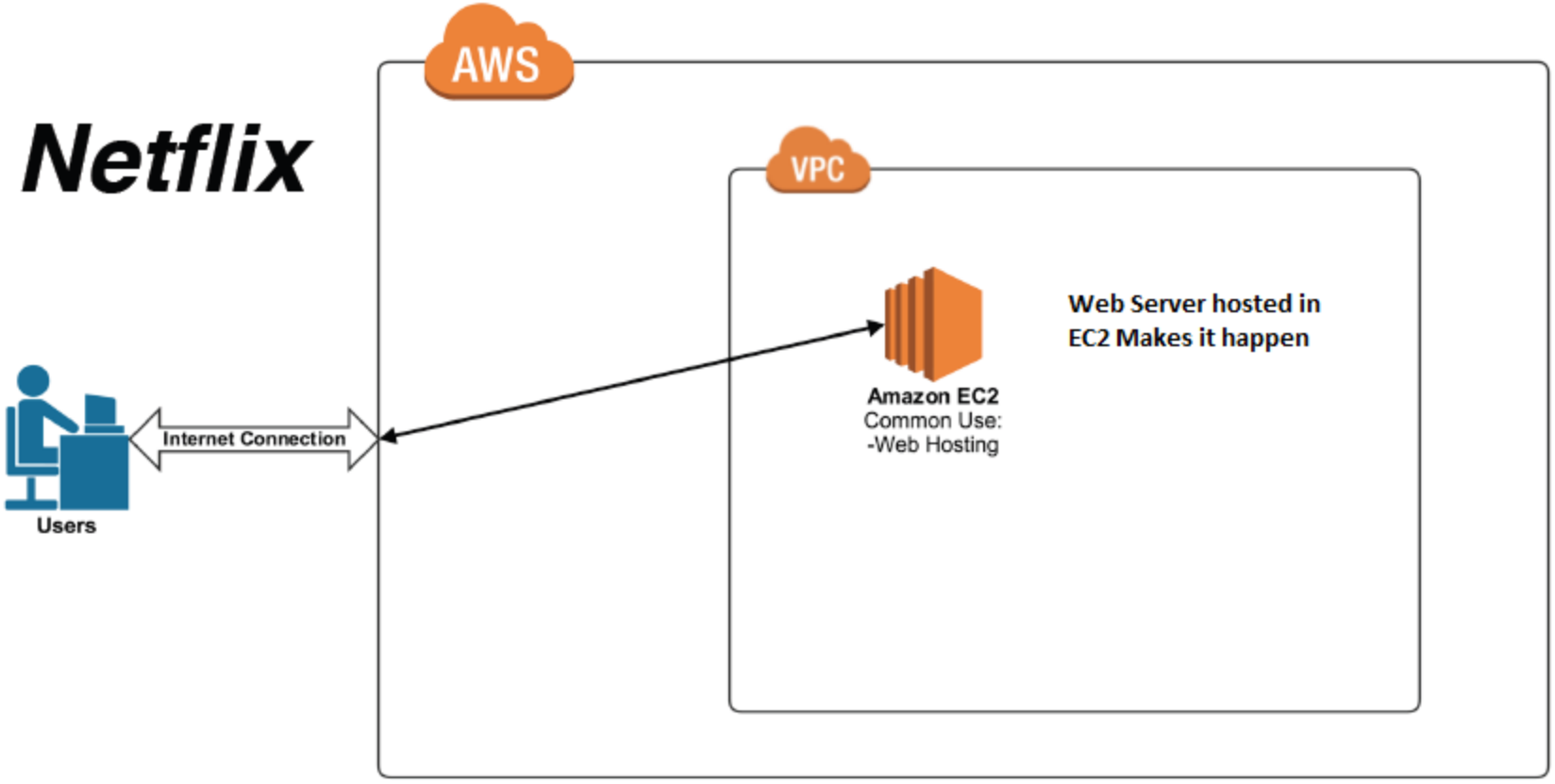






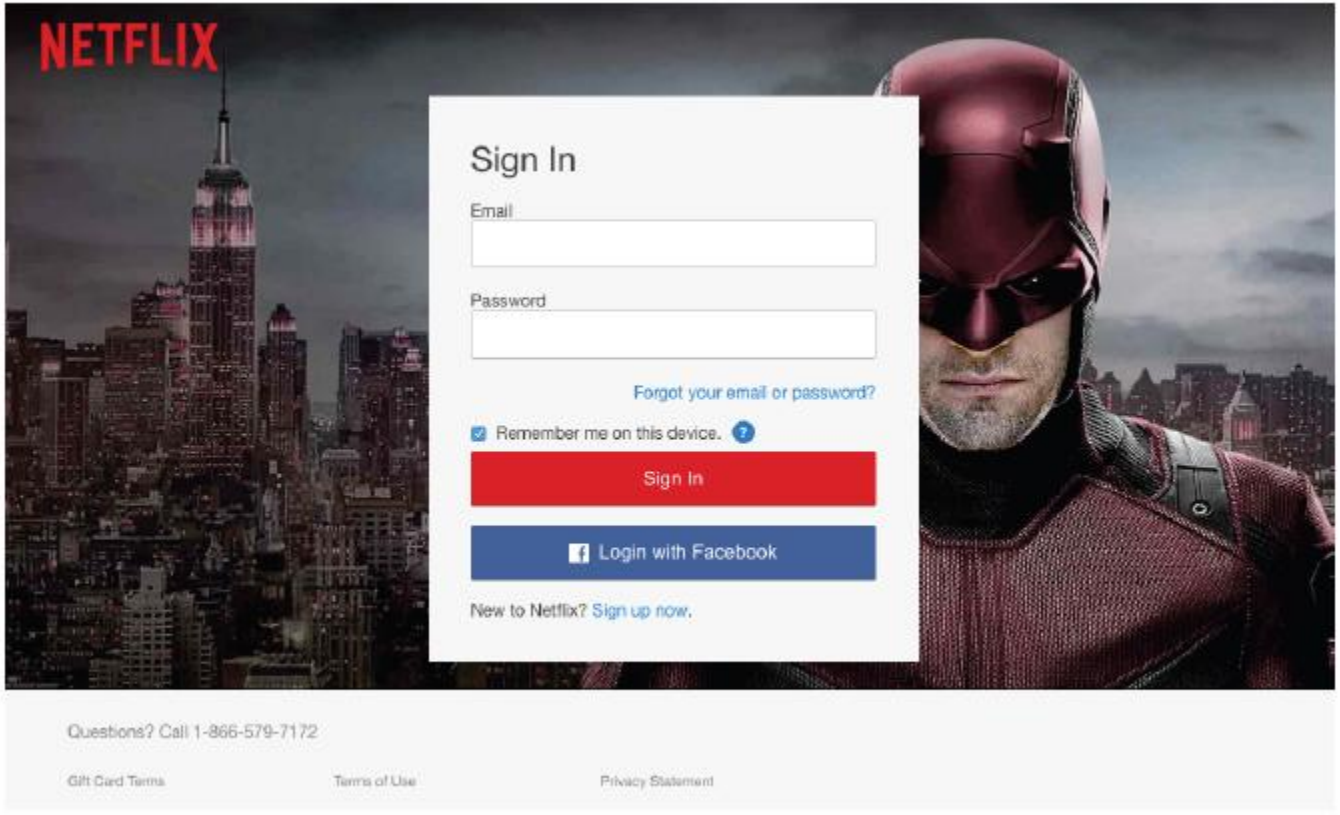


HOW IT **WORKS**

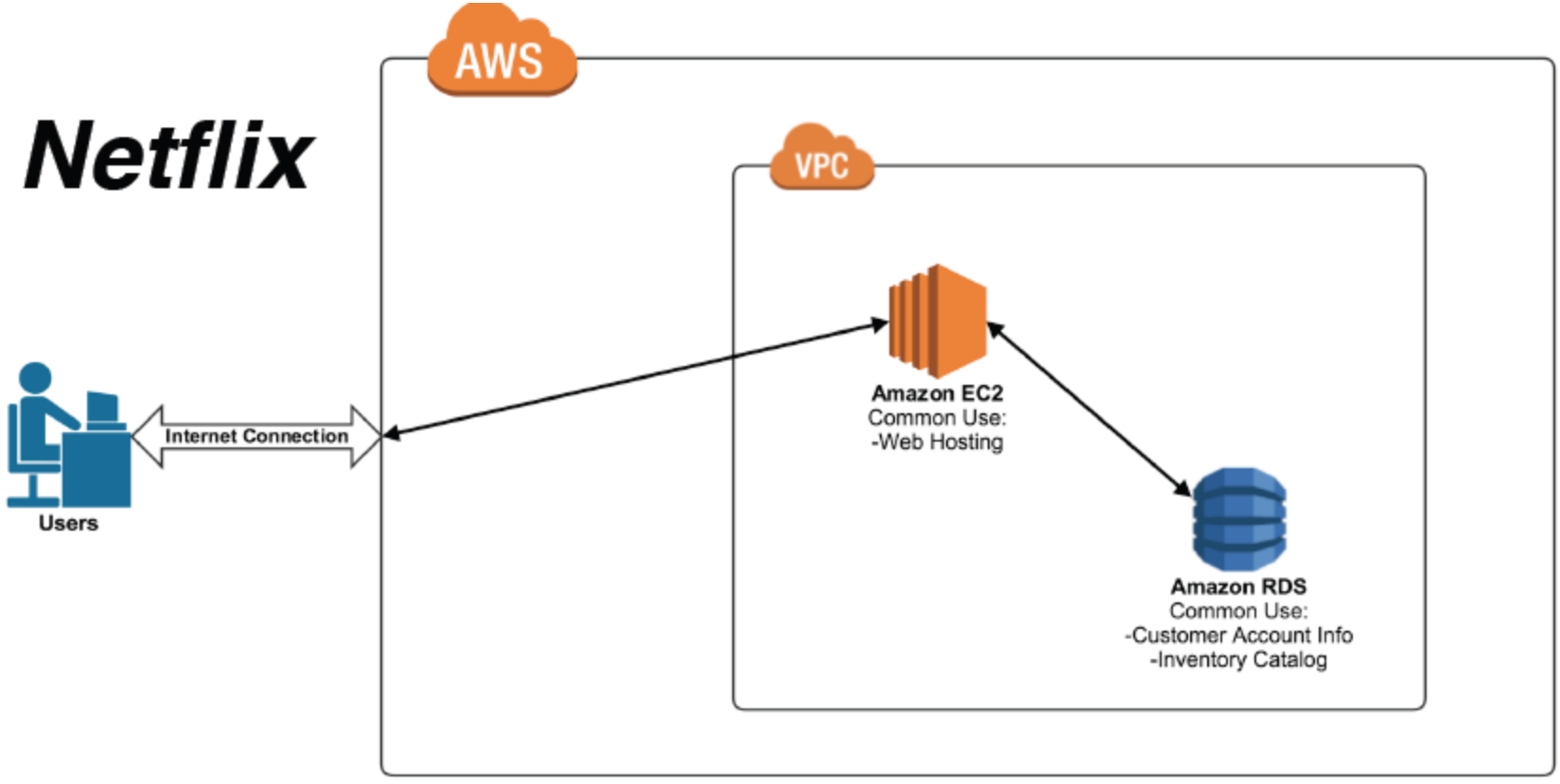


Think of ***EC2*** as a virtual computer that you can use for whatever you like.

Cloud Terminology
#5: ***"Instance"***



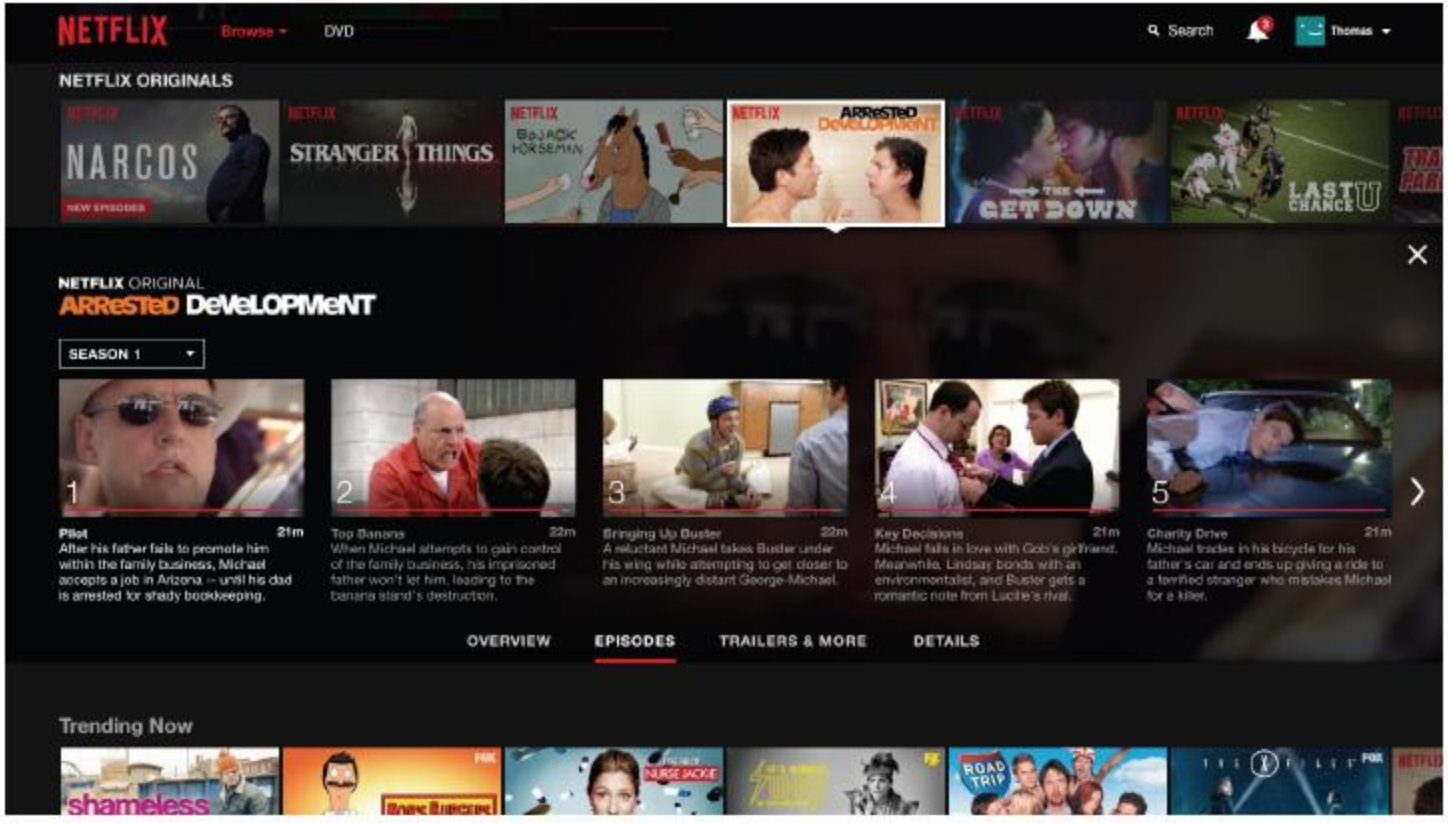
Netflix

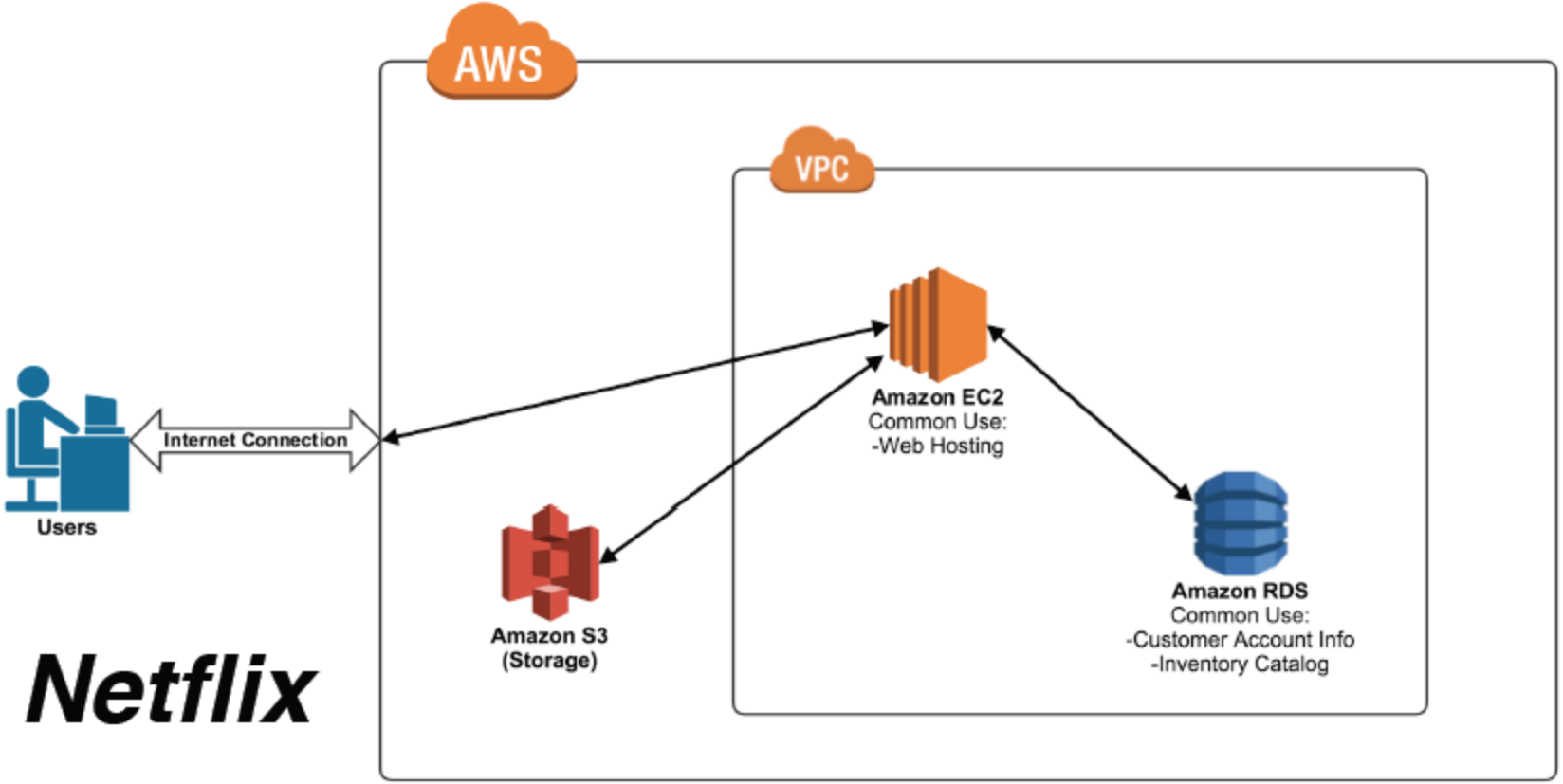


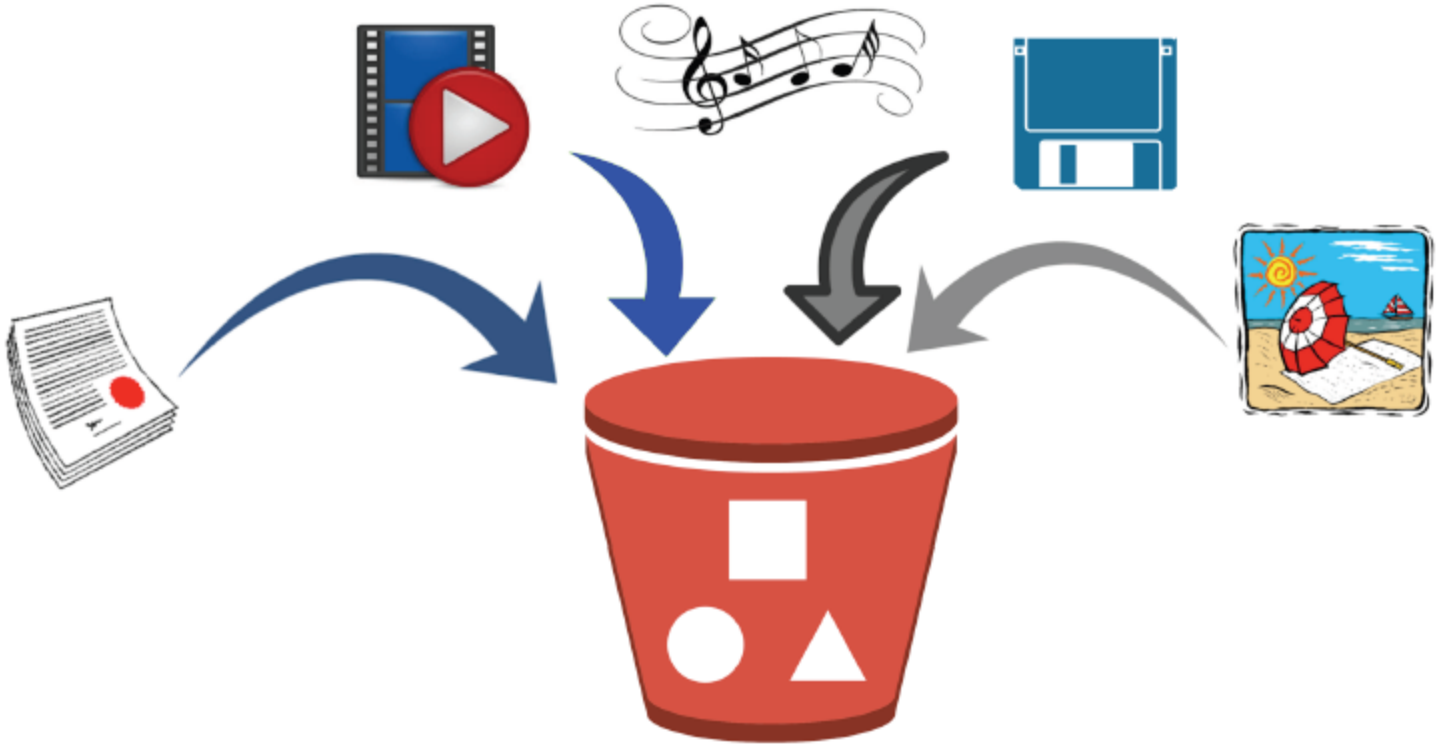
RDS is AWS provisioned database service.
Commonly used for things like storing
customer account information and cataloging inventory.

Amazon S3

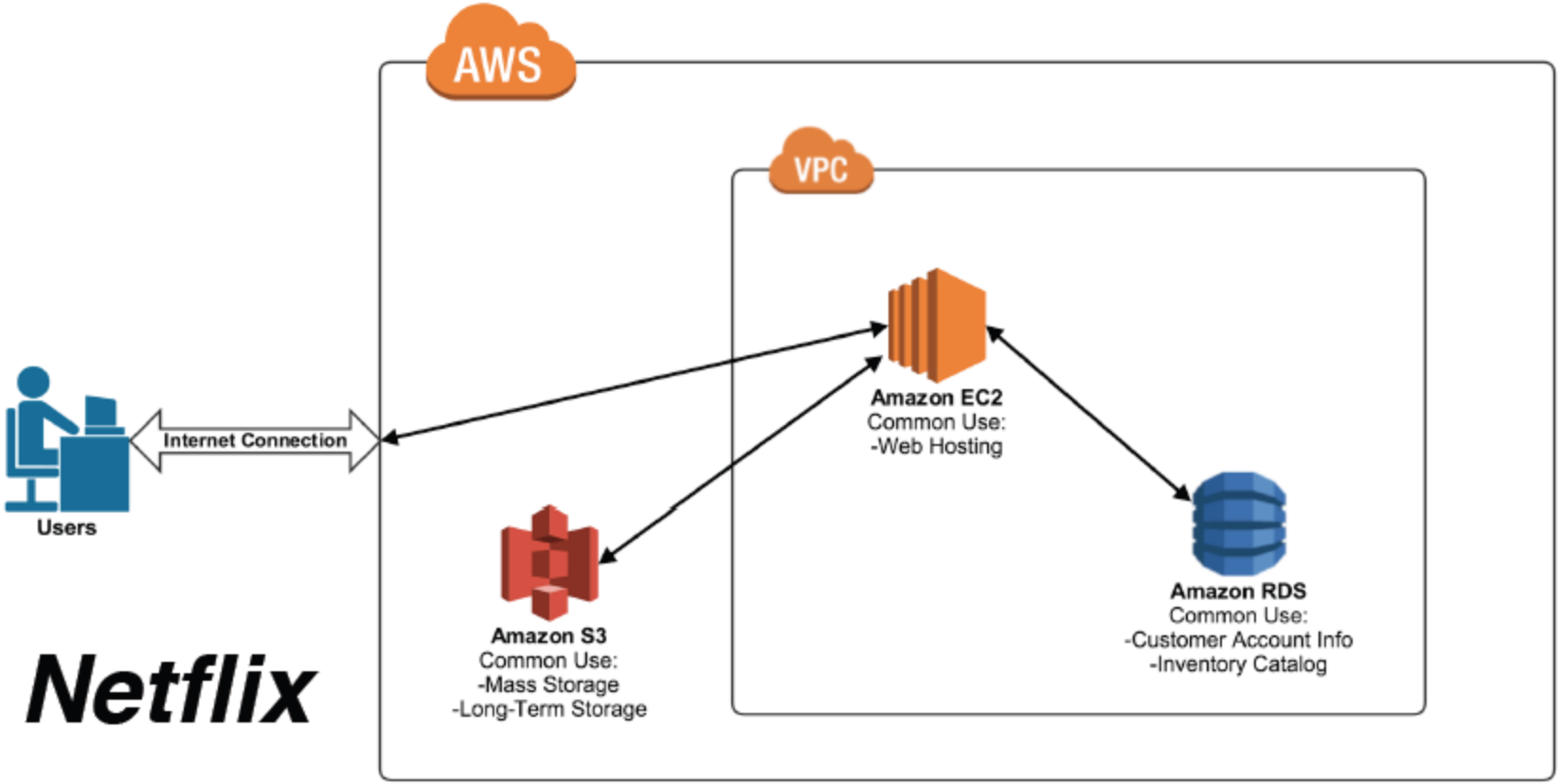
Simple, durable, massively scalable object storage







AWS S3:
Unlimited Storage "Bucket"



Amazon **S3** is a massive storage bucket.

AWS Content