

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.



puting



- 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?



What Is Cloud Computing?

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)

What Is Cloud Computing?

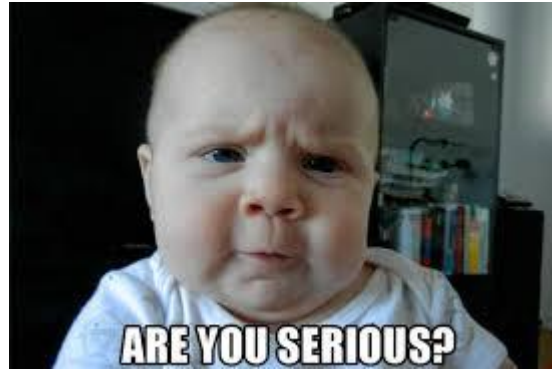
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Cloud Computing at a Glance

5

Essential characteristics

3

Service models

4

Deployment models

Essential Characteristics

On-demand

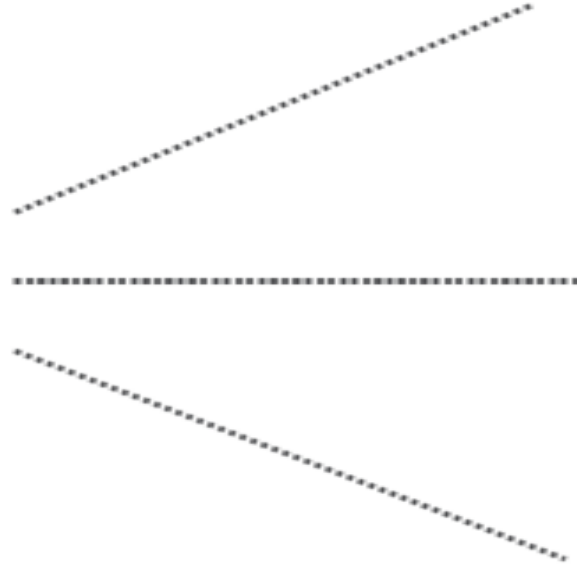
Broad Network
Access

Resource Pooling

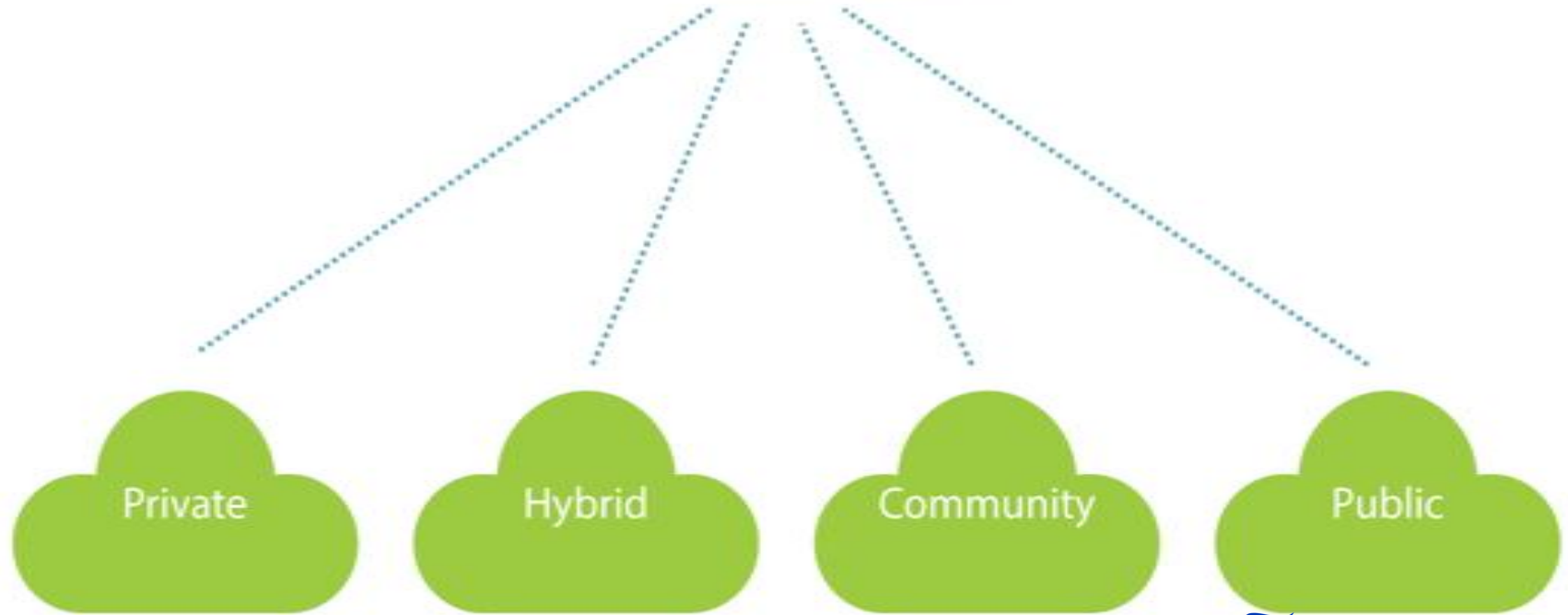
Rapid Elasticity

Measured Service

Service Models



Deployment Models



Key Dates in the History of Cloud Computing





Cloud Service Providers



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

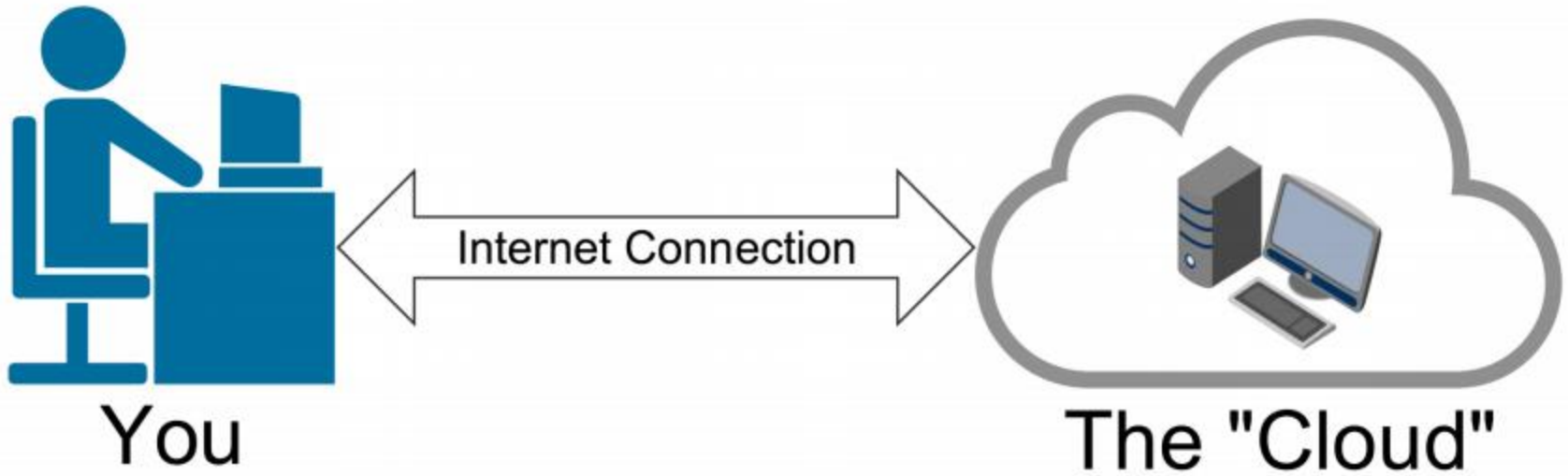


DropBox



"Store your files in the cloud"







You



Data Center



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

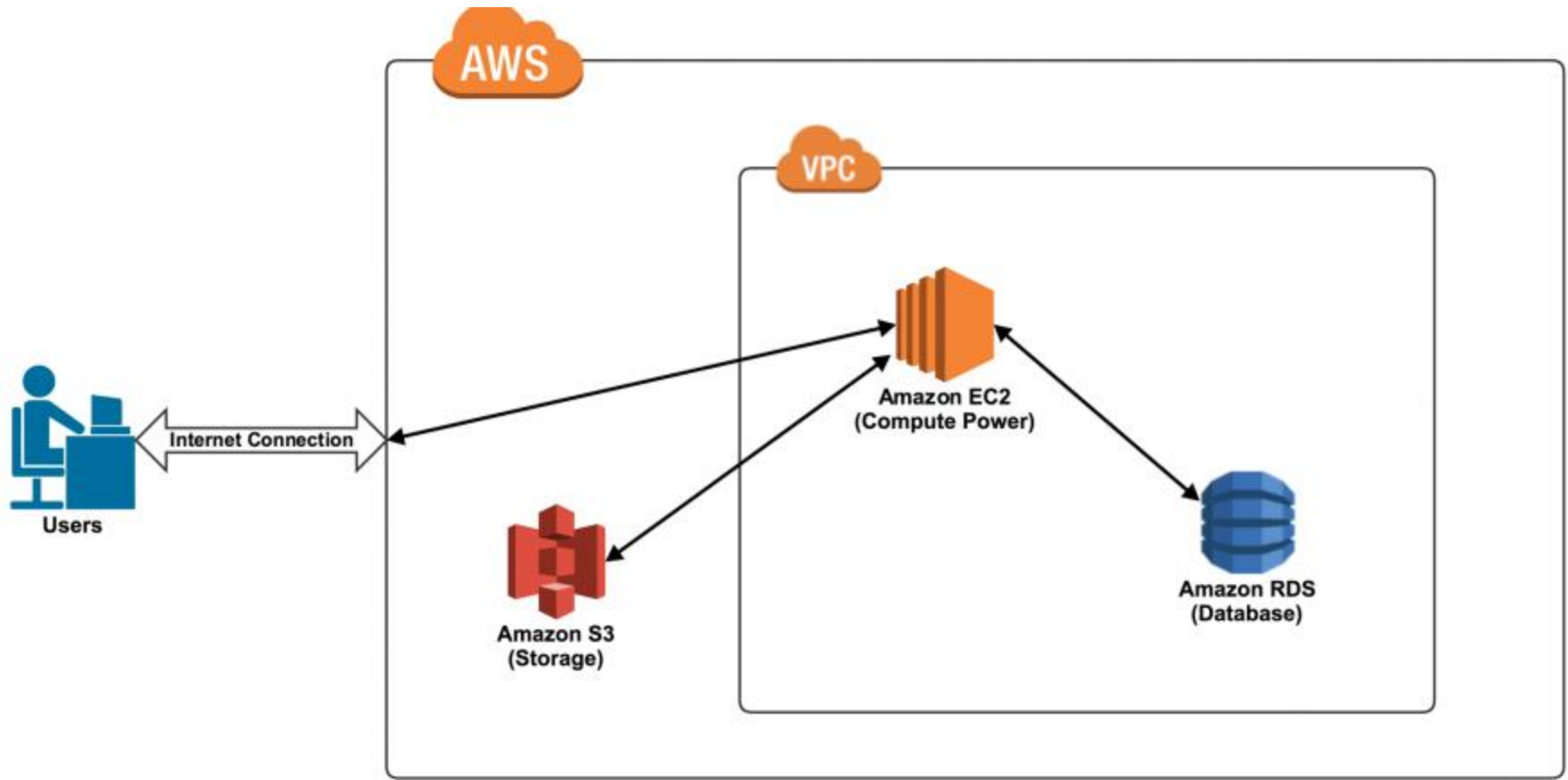


Cloud Terminology
#1: **"High Availability"**

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

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

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



Amazon Virtual Private Cloud (VPC)







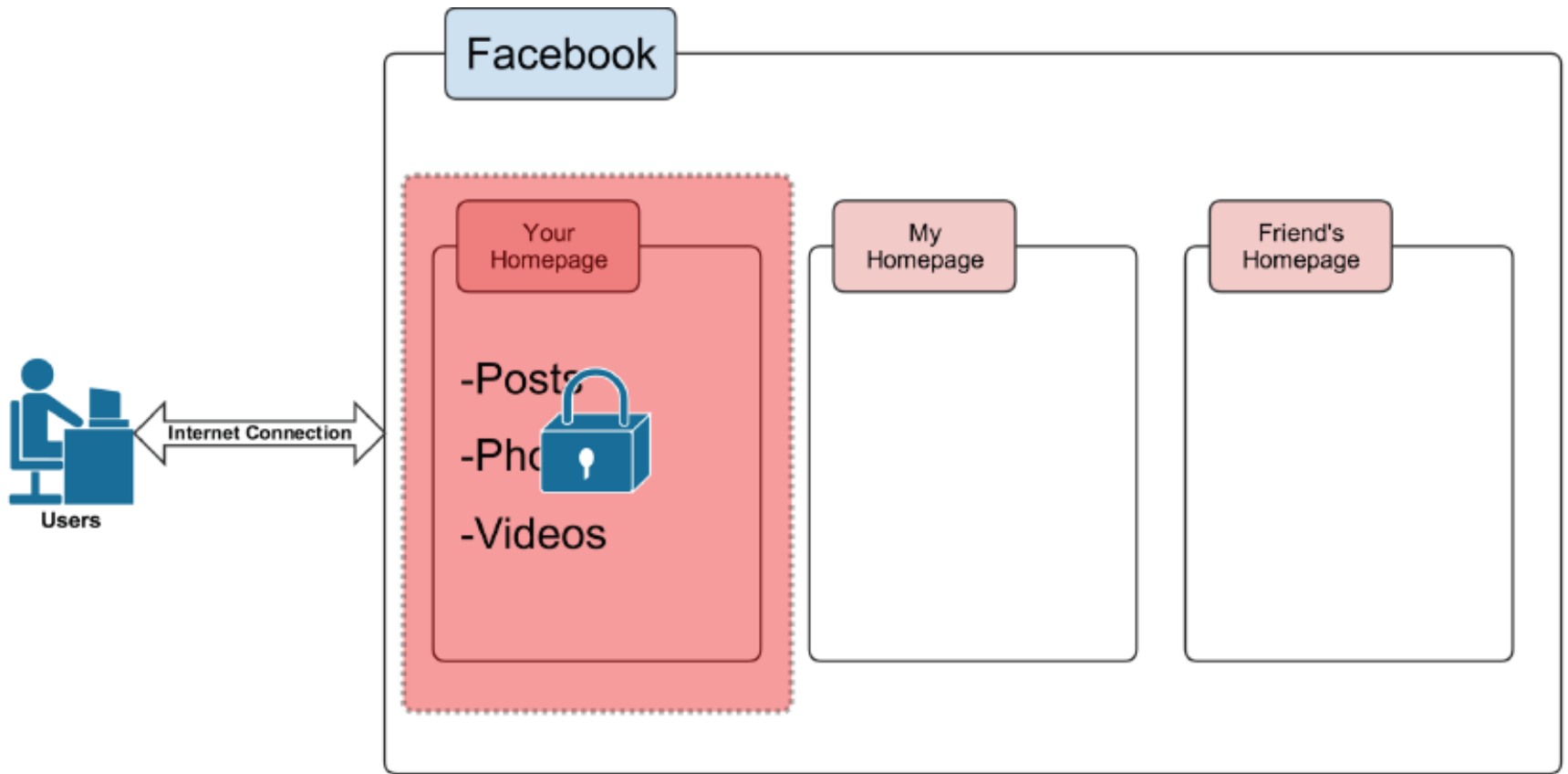
Internet Connection

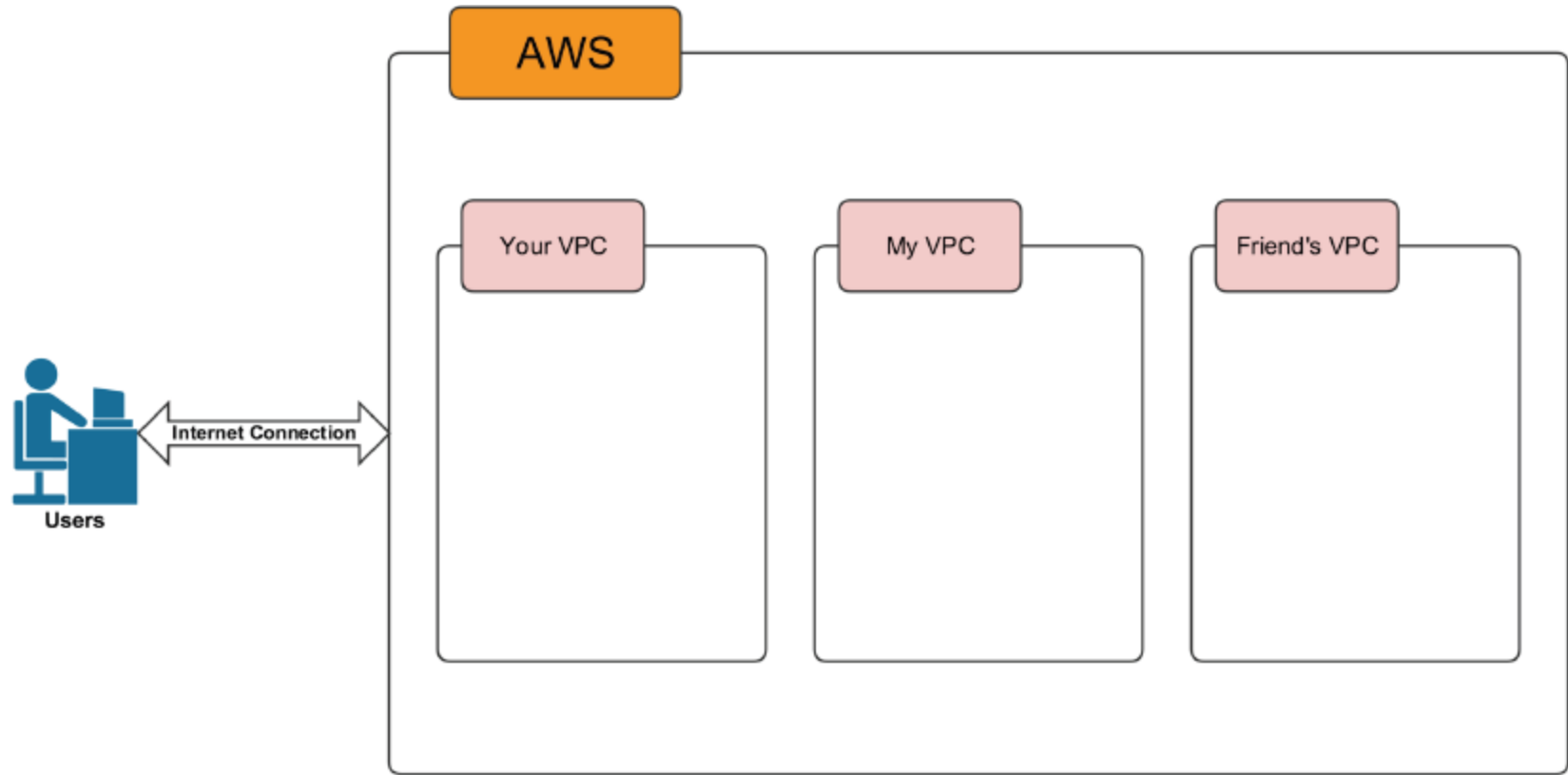
Facebook

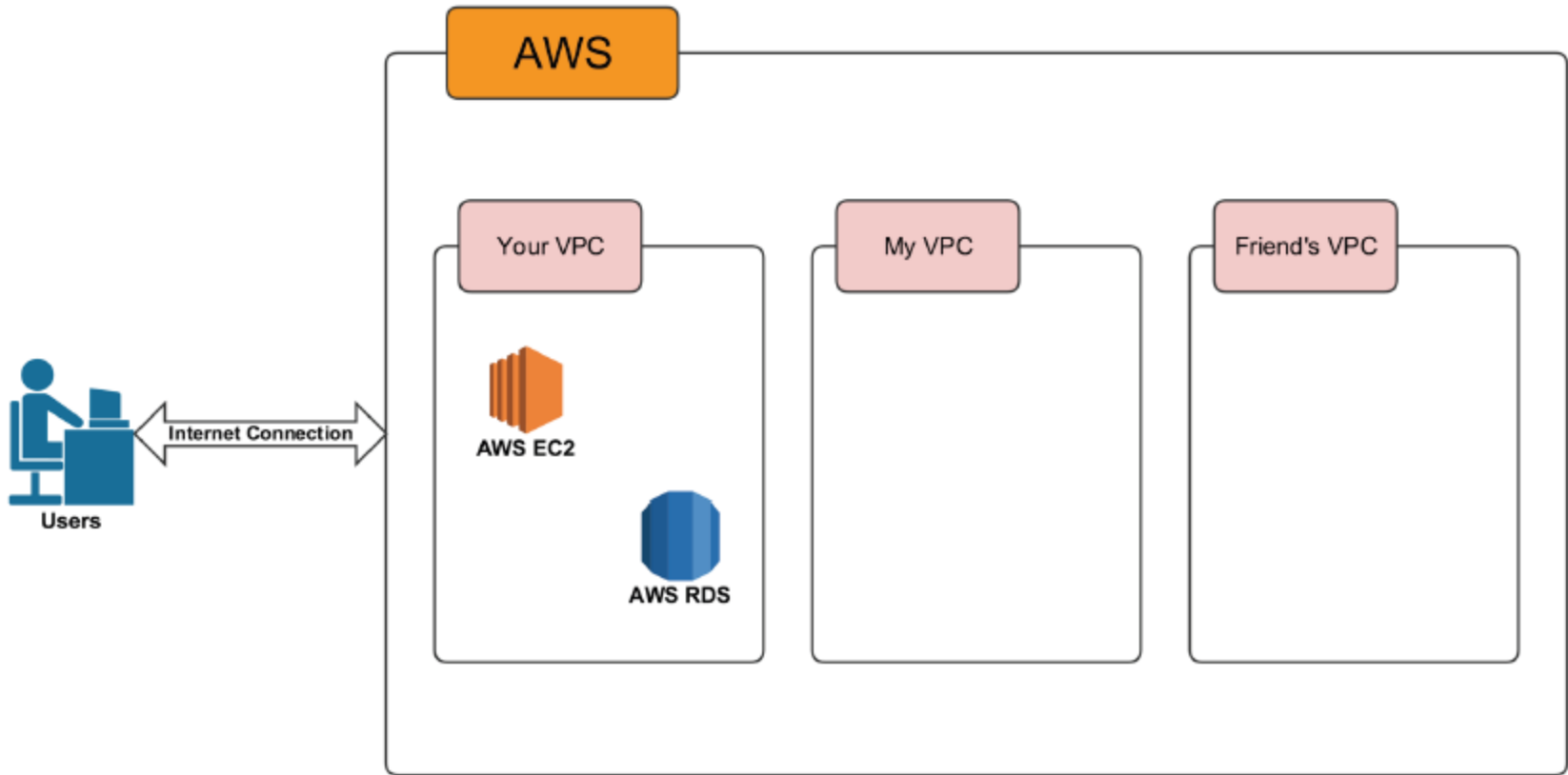
Your
Homepage

My
Homepage

Friend's
Homepage

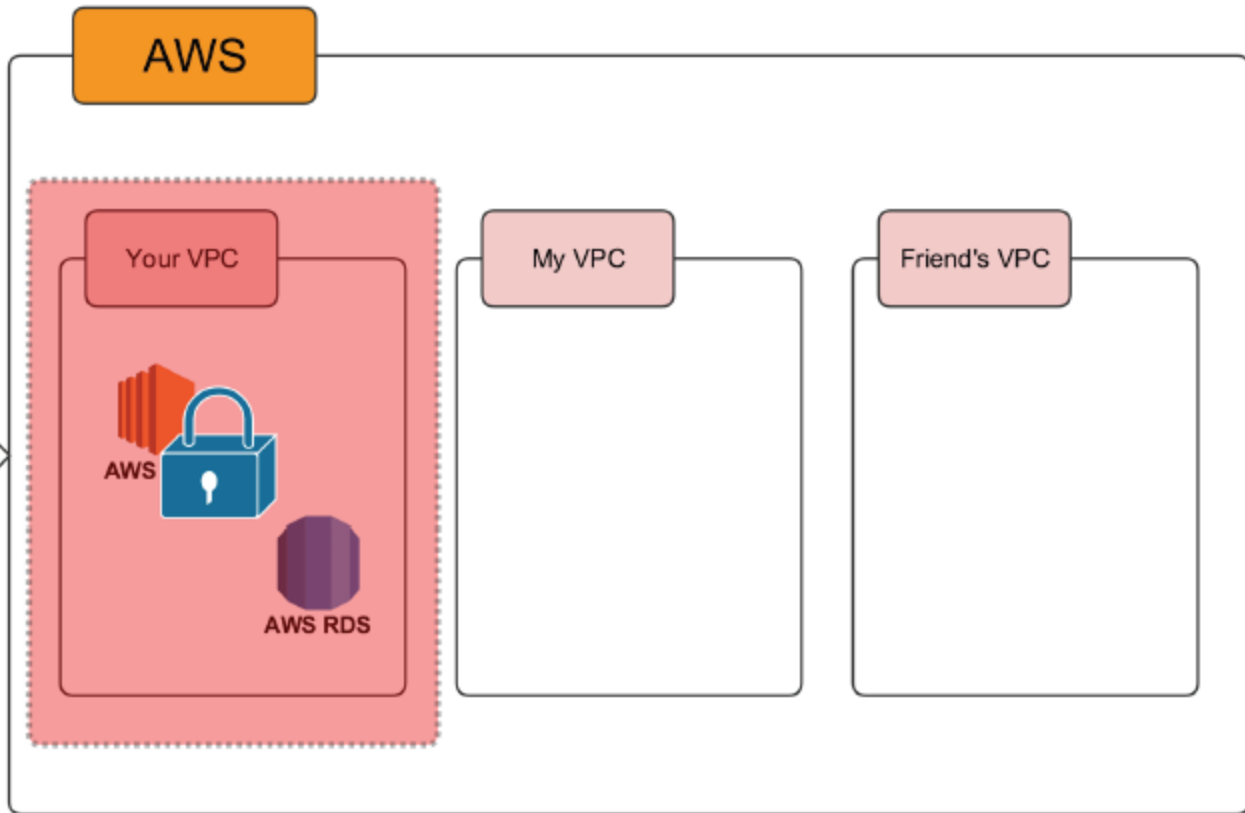








Internet Connection



-

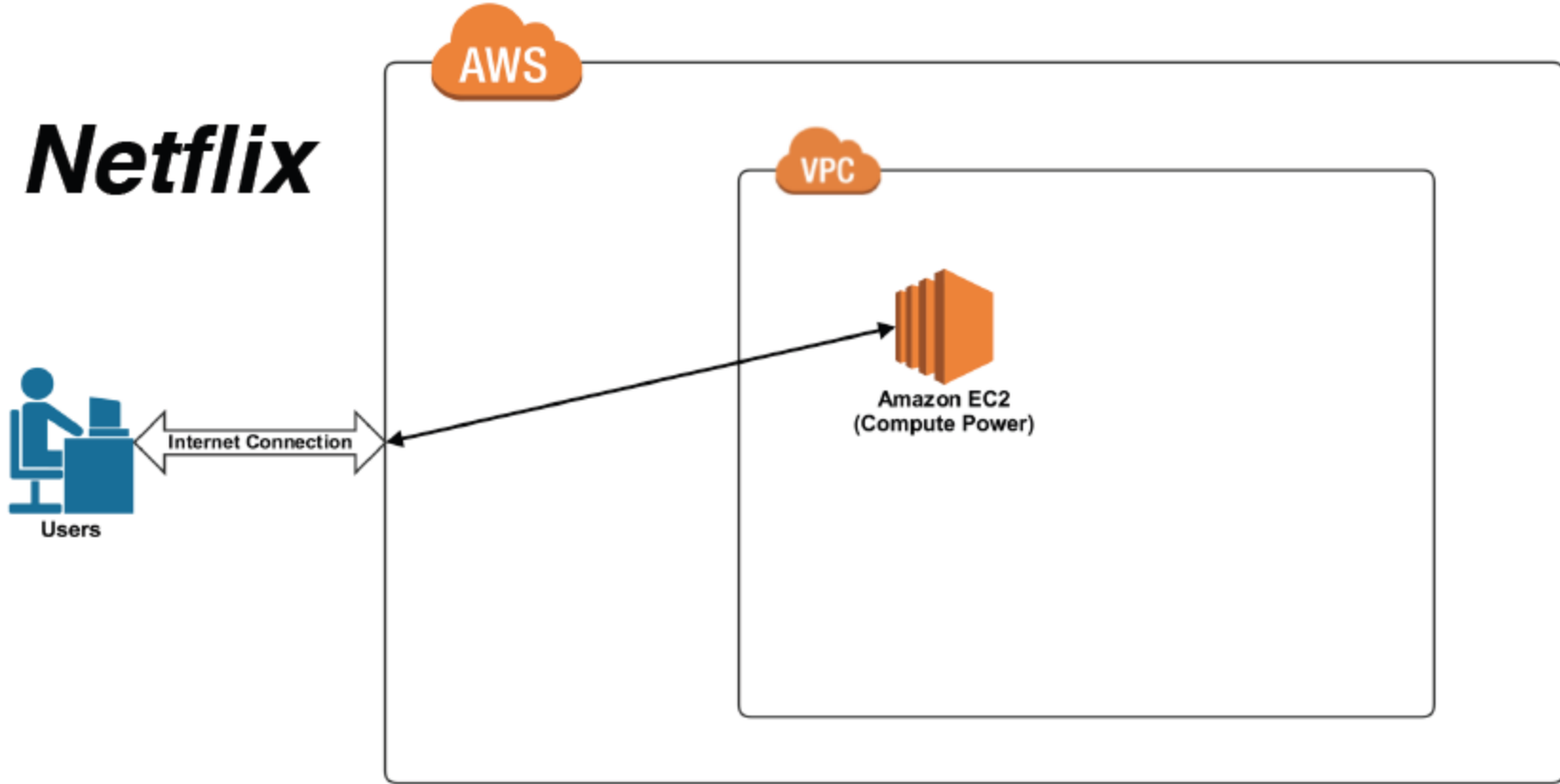
A ***Virtual Private Cloud*** is your private section of AWS, where you can place AWS resources, and allow/restrict access to them.

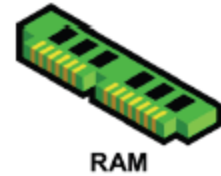
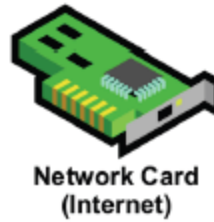
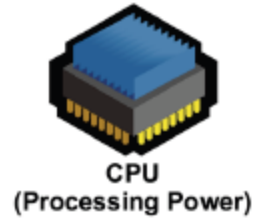


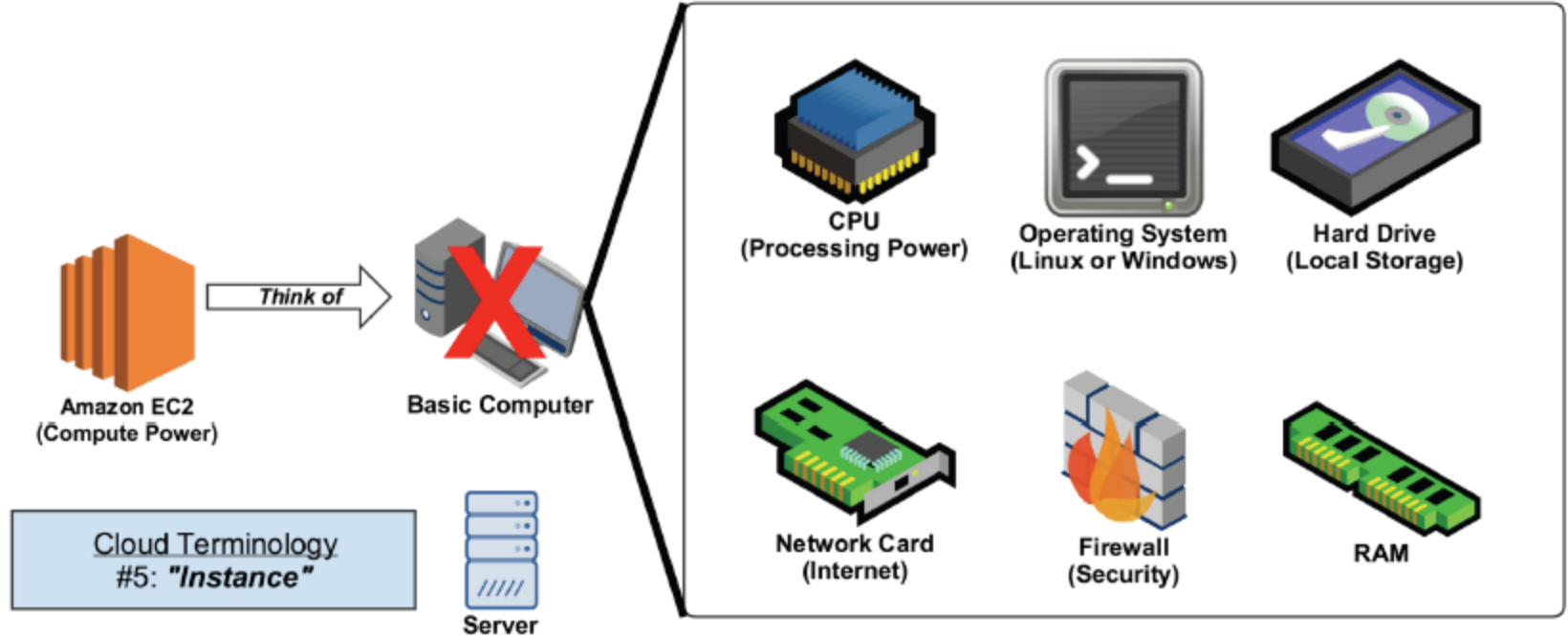
Amazon EC2

Secure and resizable compute capacity in the cloud.

Netflix







NETFLIX

Sign In

See what's next.

WATCH ANYWHERE. CANCEL ANYTIME.

JOIN FREE FOR A MONTH



No commitments



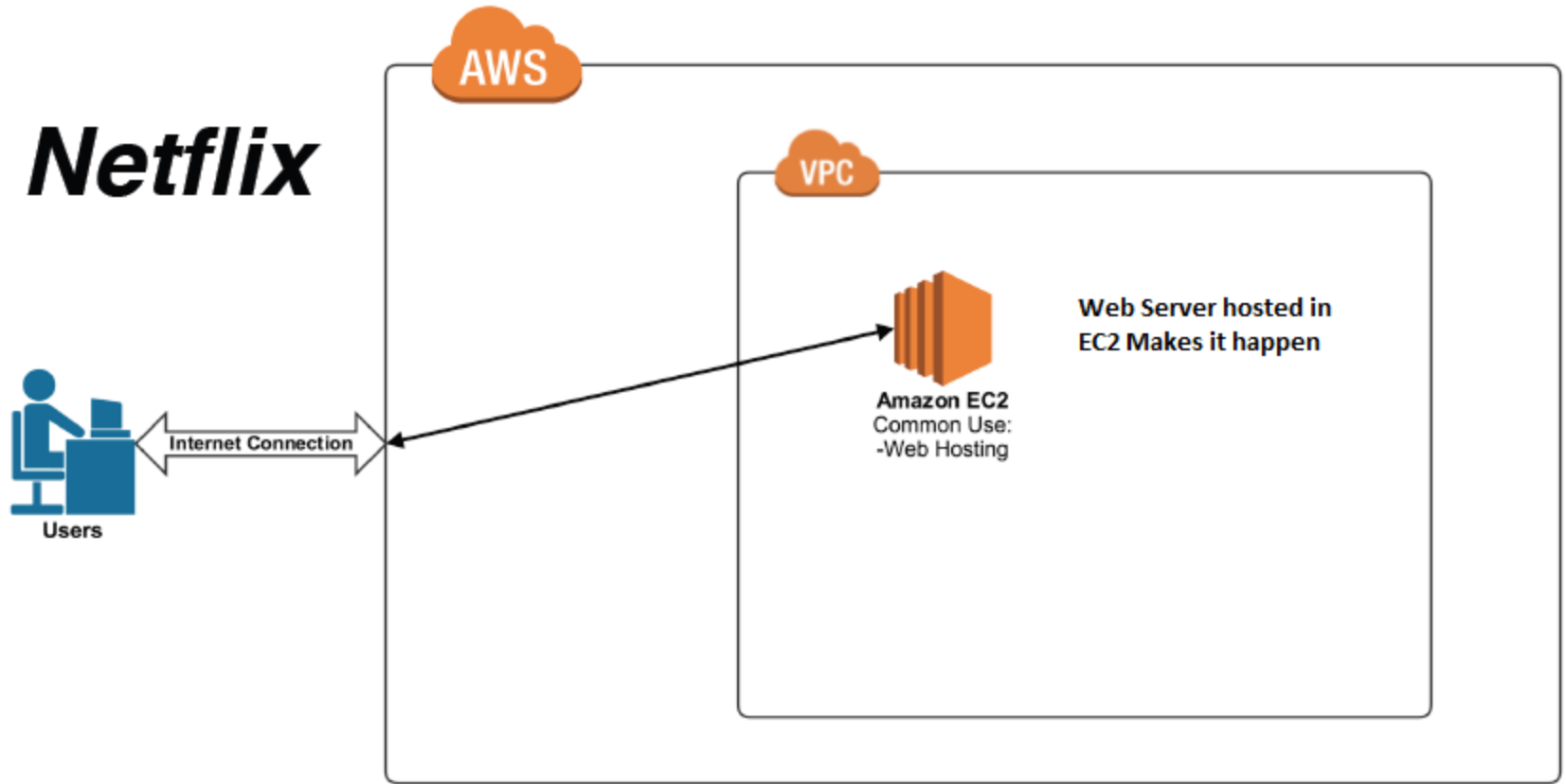
Watch anywhere



Pick your price

HOW IT **WORKS**

Netflix



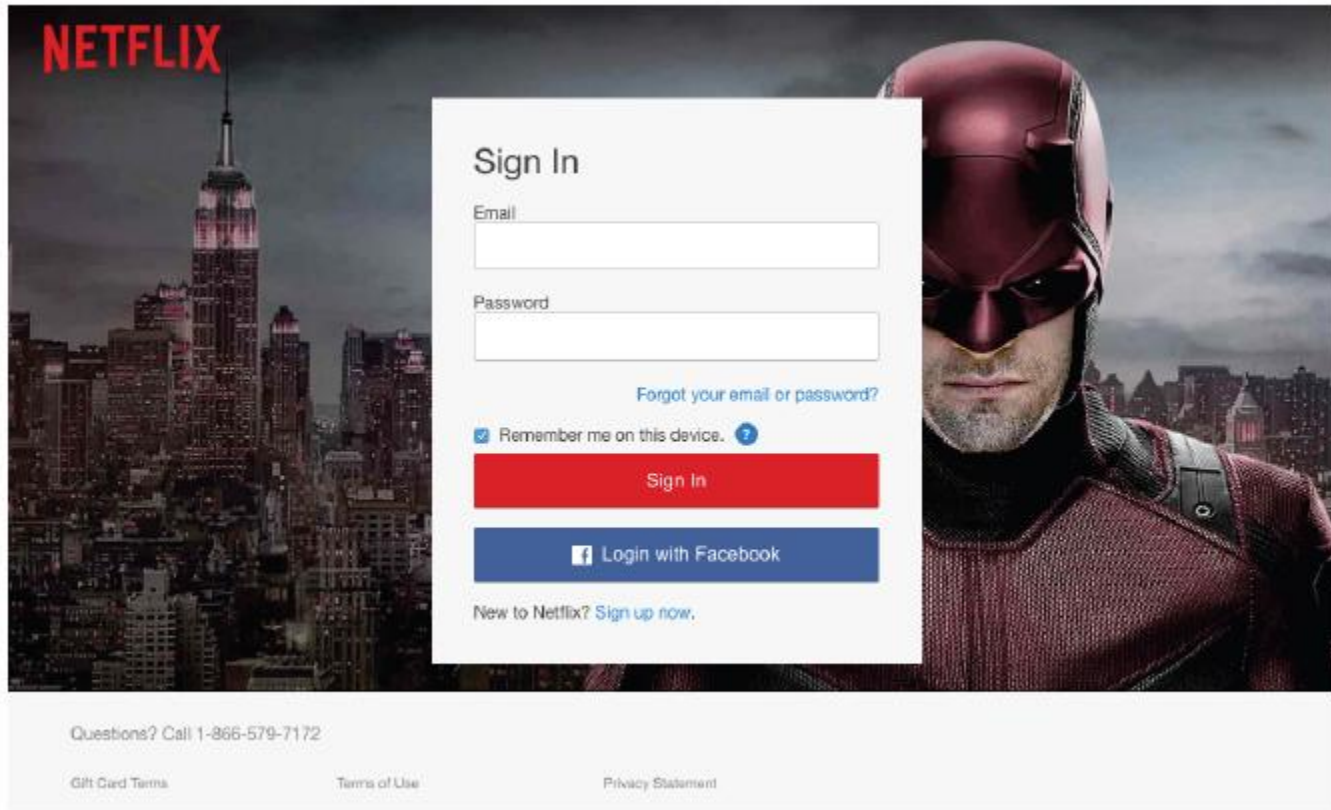
Think of **EC2** as a virtual computer that you can use for whatever you like.

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



Amazon Relational Database Service (RDS)

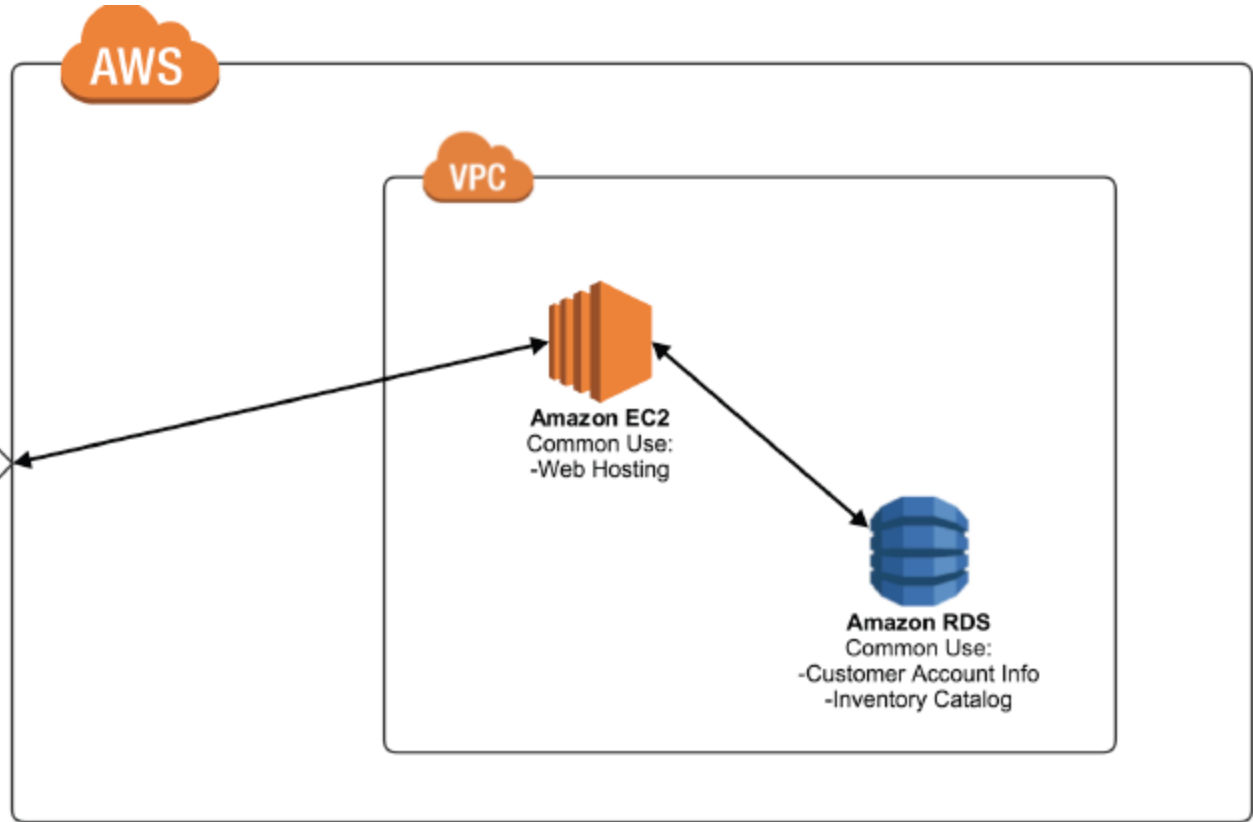
Managed relational database service with a choice of six popular database engines.
Set up, operate, and scale a relational database in the cloud with just a few clicks.



Netflix



Internet Connection



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

[Browse](#)
[DVD](#)

Thomas

NETFLIX

NARCOS

NEW EPISODE

NETFLIX

STRANGER THINGS

NETFLIX

SeAJACK HORSEMAN

NETFLIX

ARRESTED DEVELOPMENT

NETFLIX

THE GET DOWN

NETFLIX

LAST CHANCE

NETFLIX

THE FARM

NETFLIX ORIGINAL

ARRESTED DeVeLOPmENT

SEASON 1

1

Pilot

21m

2

Top Banana

22m

3

Bringing Up Buster

22m

4

Key Decisions

21m

5

Charly Drive

21m

1

After his father fails to promote him within the family business, Michael accepts a job in Arizona – until his dad is arrested for shady bookkeeping.

2

When Michael attempts to gain control of the family business, his imprisoned father won't let him, leading to the banana stand's destruction.

3

A reluctant Michael takes Buster under his wing while attempting to get closer to an increasingly distant George-Michael.

4

Michael falls in love with Gob's girlfriend. Meanwhile, Lindsay bonds with an environmentalist, and Buster gets a romantic note from Lucile's rival.

5

Michael tracks in his bicycle for his father's car and ends up giving a ride to a terrified stranger who mistakes Michael for a killer.

OVERVIEW

EPISODES

TRAILERS & MORE

DETAILS

Trending Now

shameless

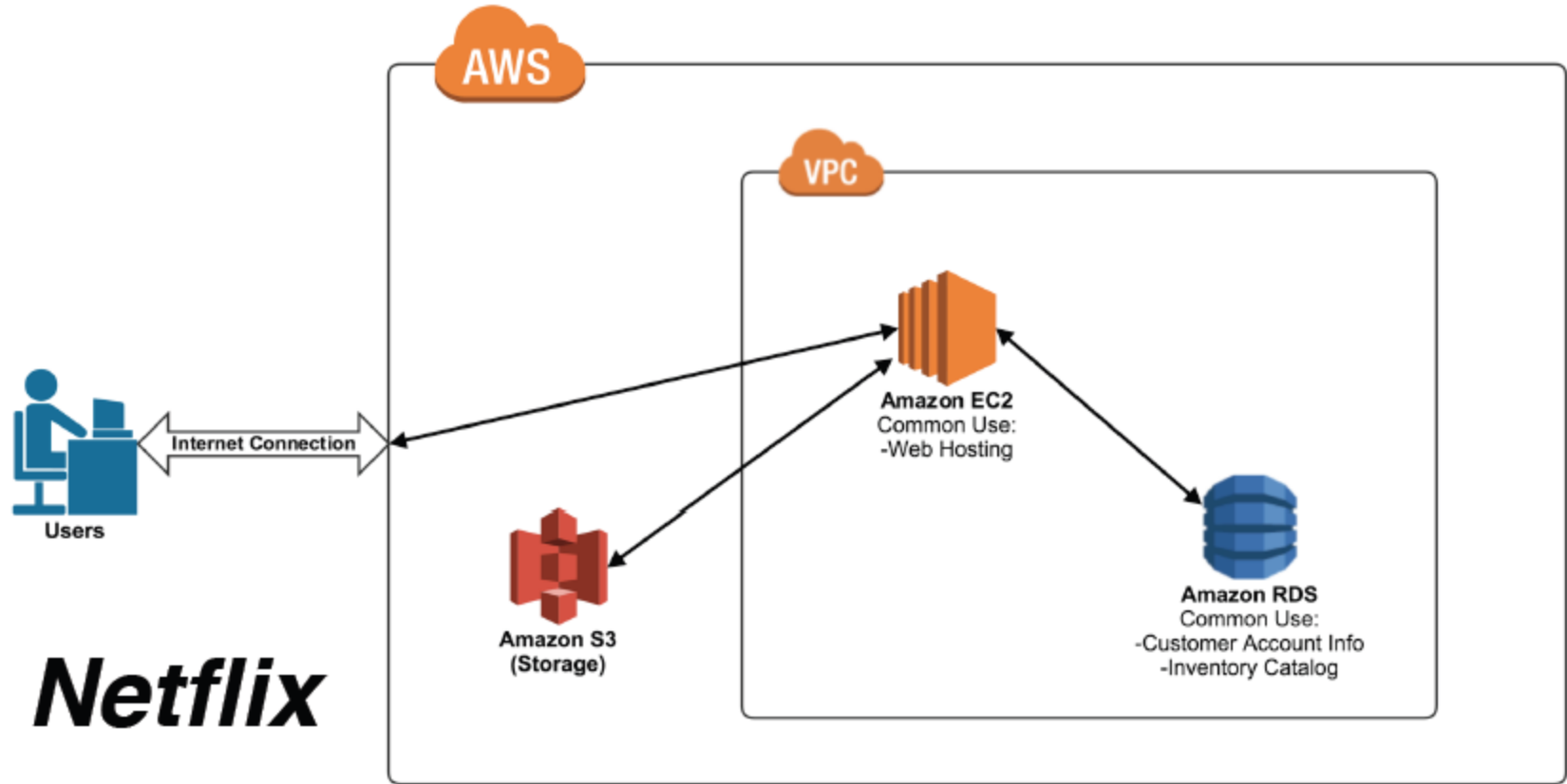
THE MENTALIST

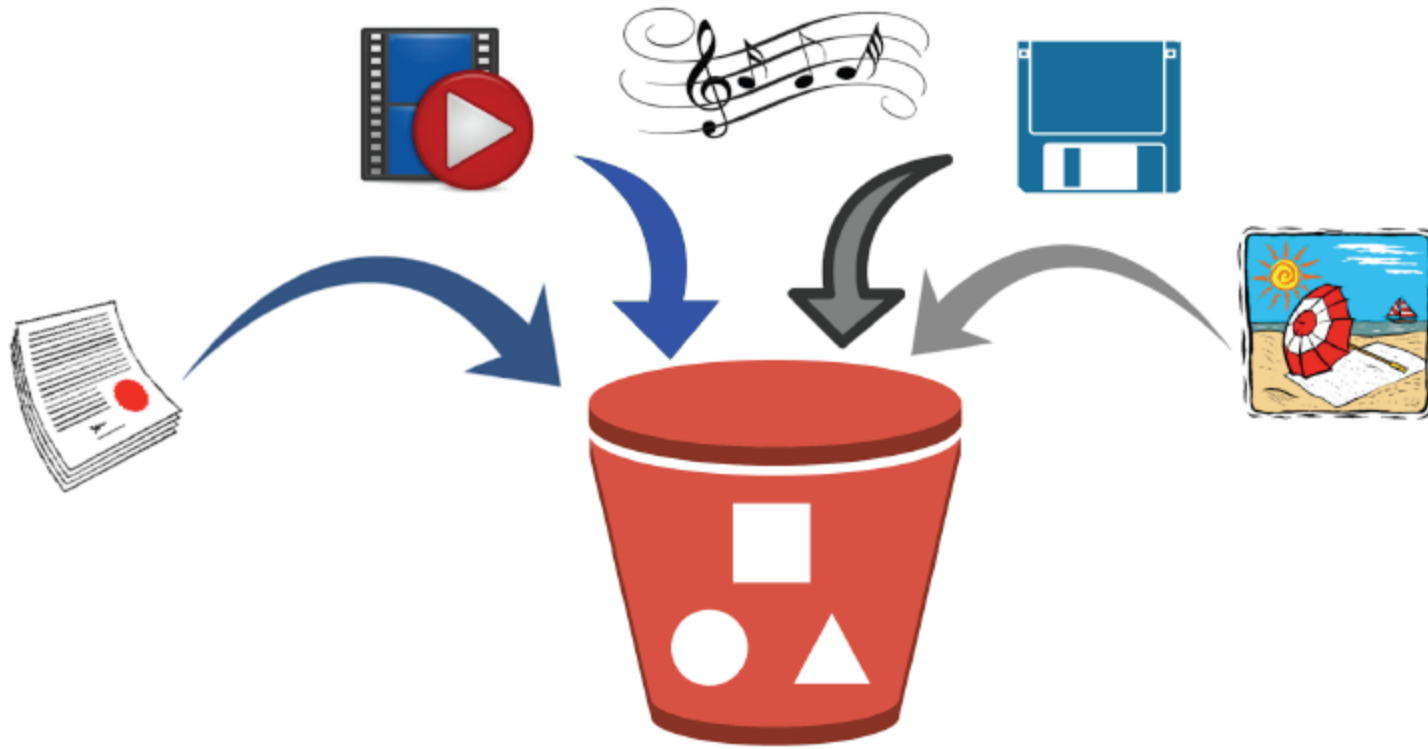
NURSE JACKIE

THE FLASH

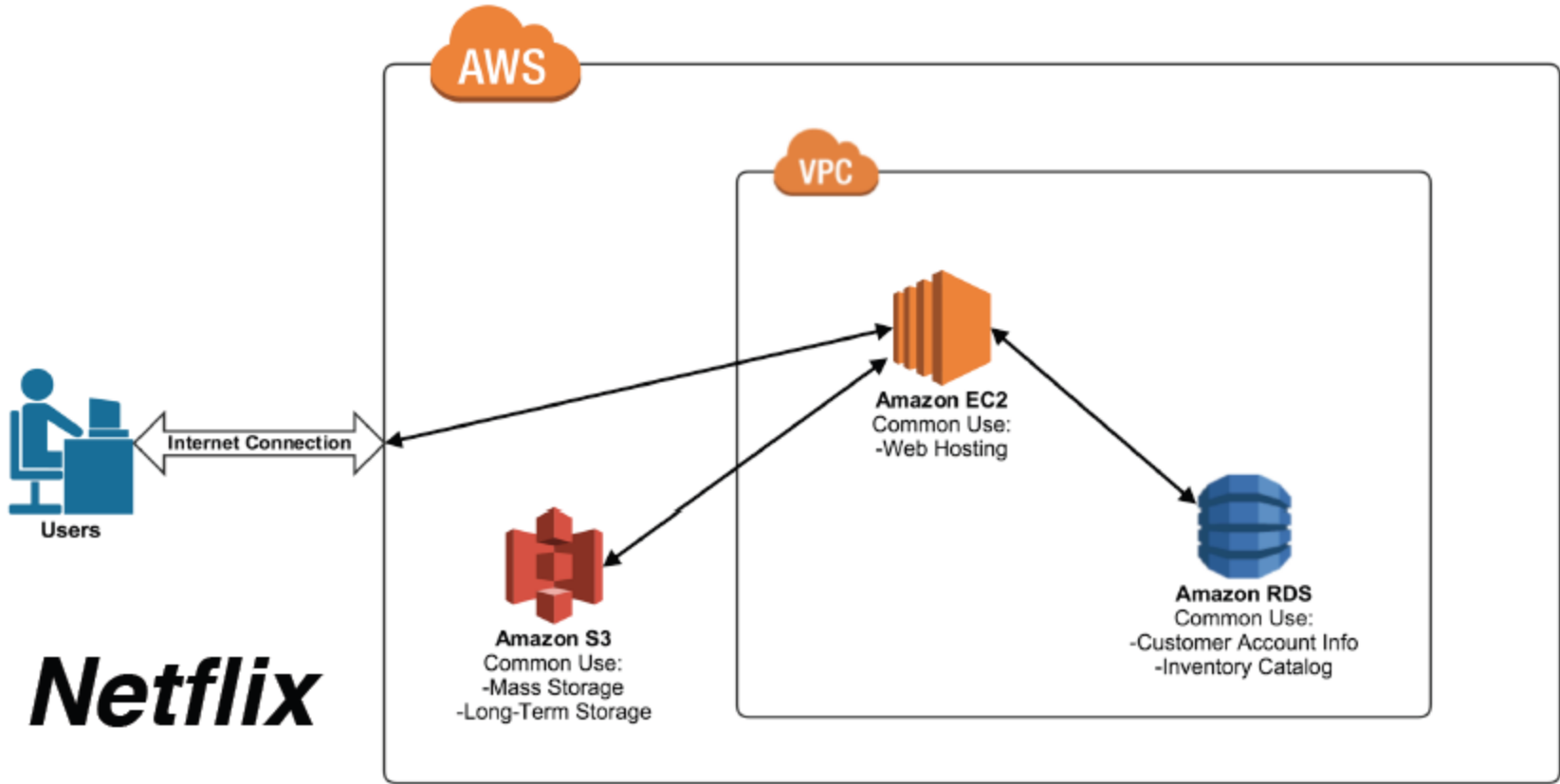
ROAD TRIP

THE 100





AWS S3:
Unlimited Storage "Bucket"



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

AWS Content

