



Linux Academy

# Amazon Web Services

## Introduction to AWS

Provide a  
***High-Level Introduction***  
to Amazon Web Services, using  
***Oversimplification of Concepts***  
for the purpose of providing a  
***Frame-of-Reference***  
for you to move forward.









iCloud





iCloud



DropBox





iCloud



*"Store your files in the cloud"*



DropBox





## What is the "cloud"?



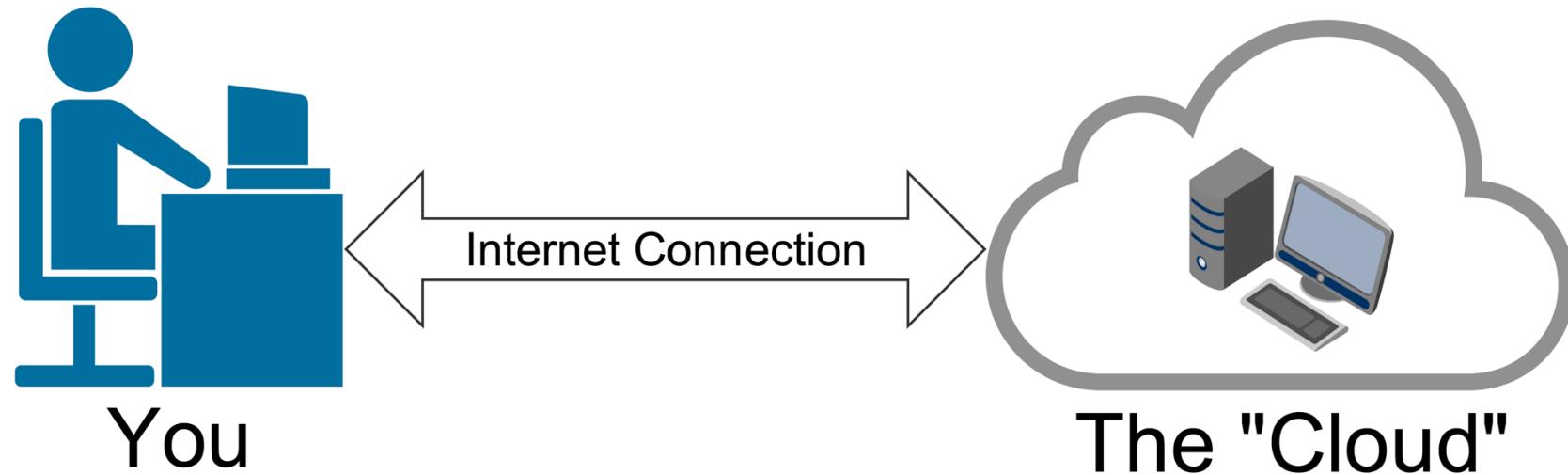
iCloud

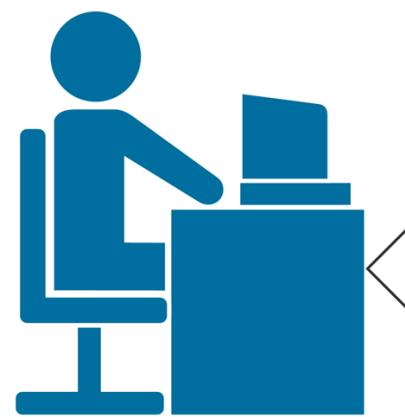


DropBox



*"Store your files in the cloud"*





**You**



**Data Center**





You



# Data Center



iCloud  
DropBox  
Amazon Web Services



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

Also known as Infrastructure as a Service (IaaS)

Storage

*Computing  
Power*

*Databases*



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

Also known as Infrastructure as a Service (IaaS)

Storage

Networking

*Computing  
Power*



Databases

*Analytics*

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

Also known as Infrastructure as a Service (IaaS)

*Developer  
Tools*

*Virtualization*

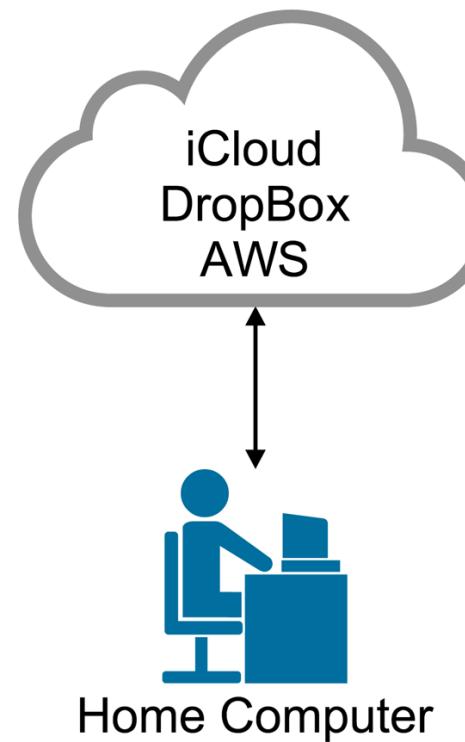
*Security*

*Why do individuals and companies use AWS?*

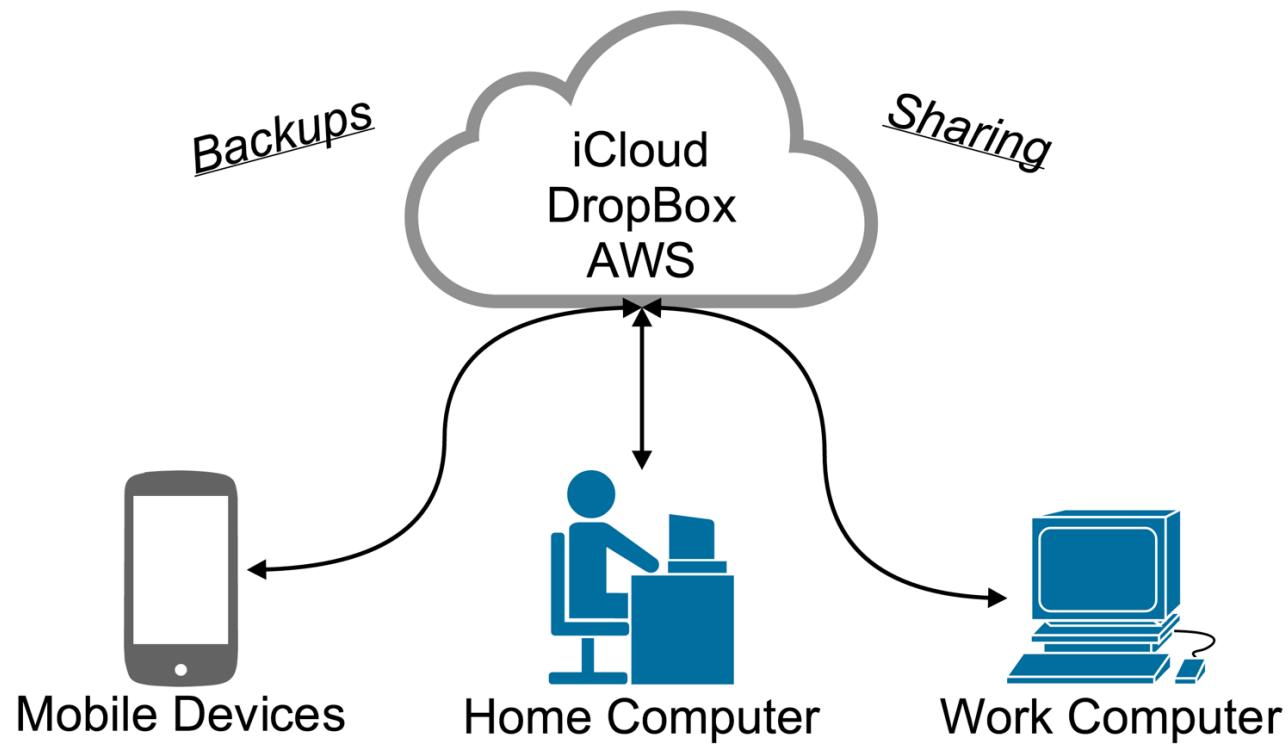
*What are the benefits?*

*How is the “Cloud” different from what has  
been used in the past?*

## Common Personal Uses of Cloud Services



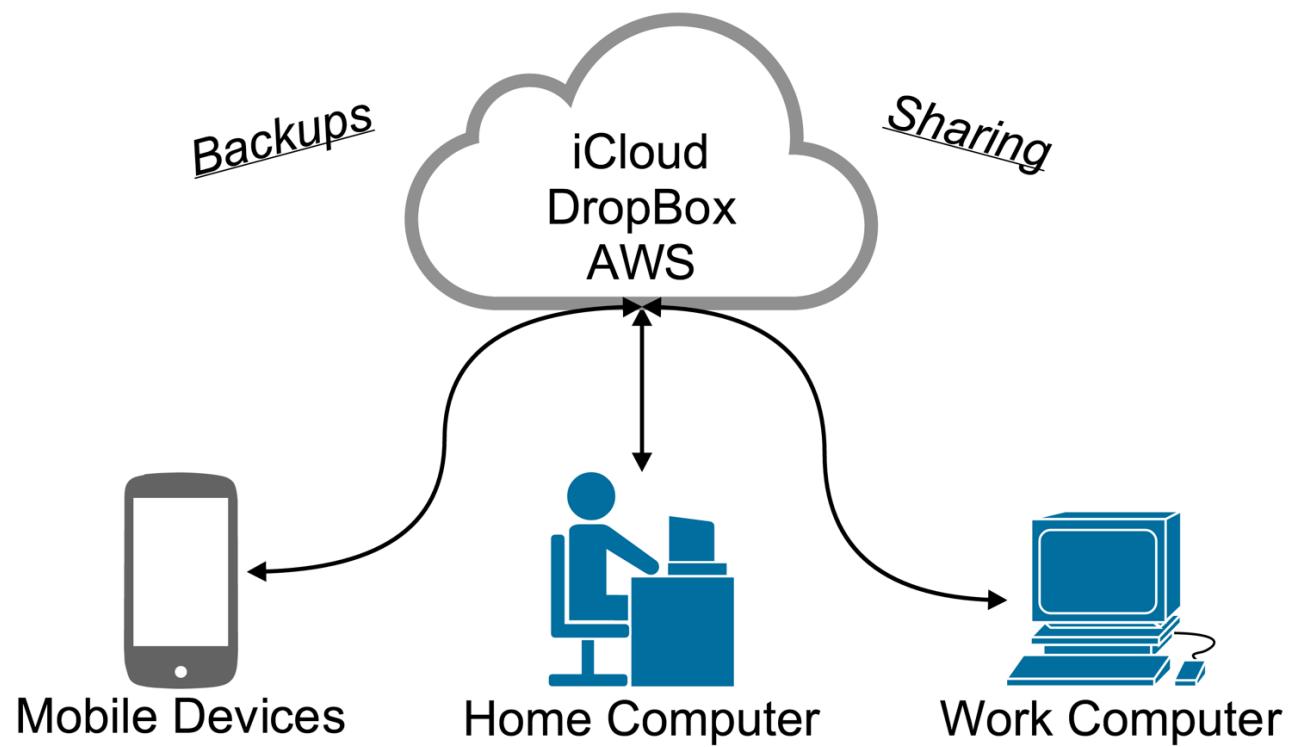
## Common Personal Uses of Cloud Services



## Common Personal Uses of Cloud Services

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

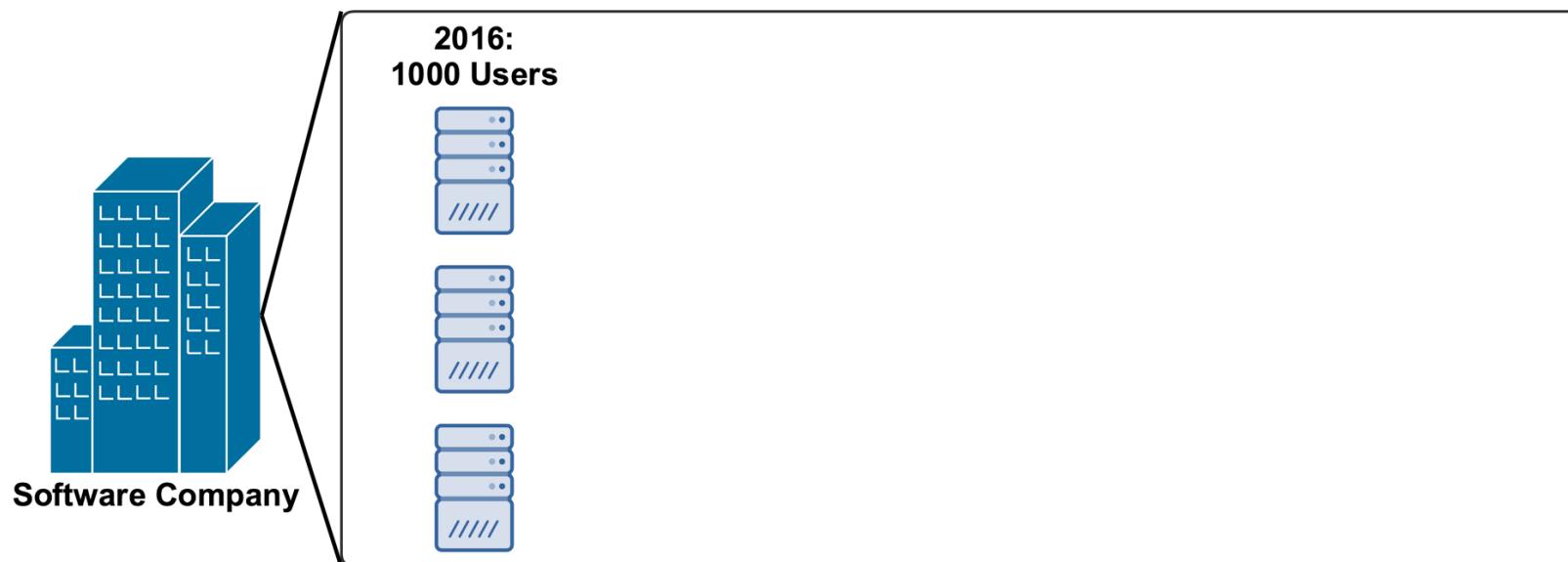
Cloud Terminology  
#2: ***"Fault Tolerant"***



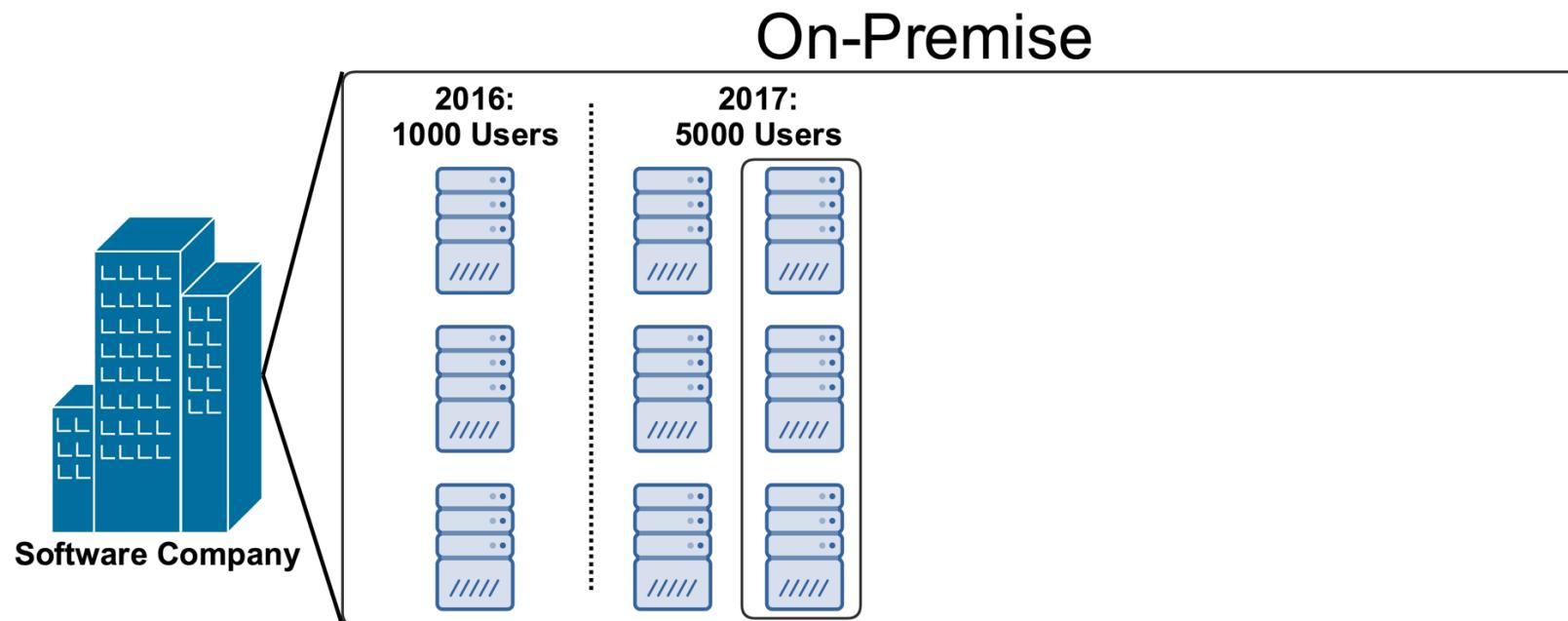


## Common **Enterprise** Uses of Cloud Services

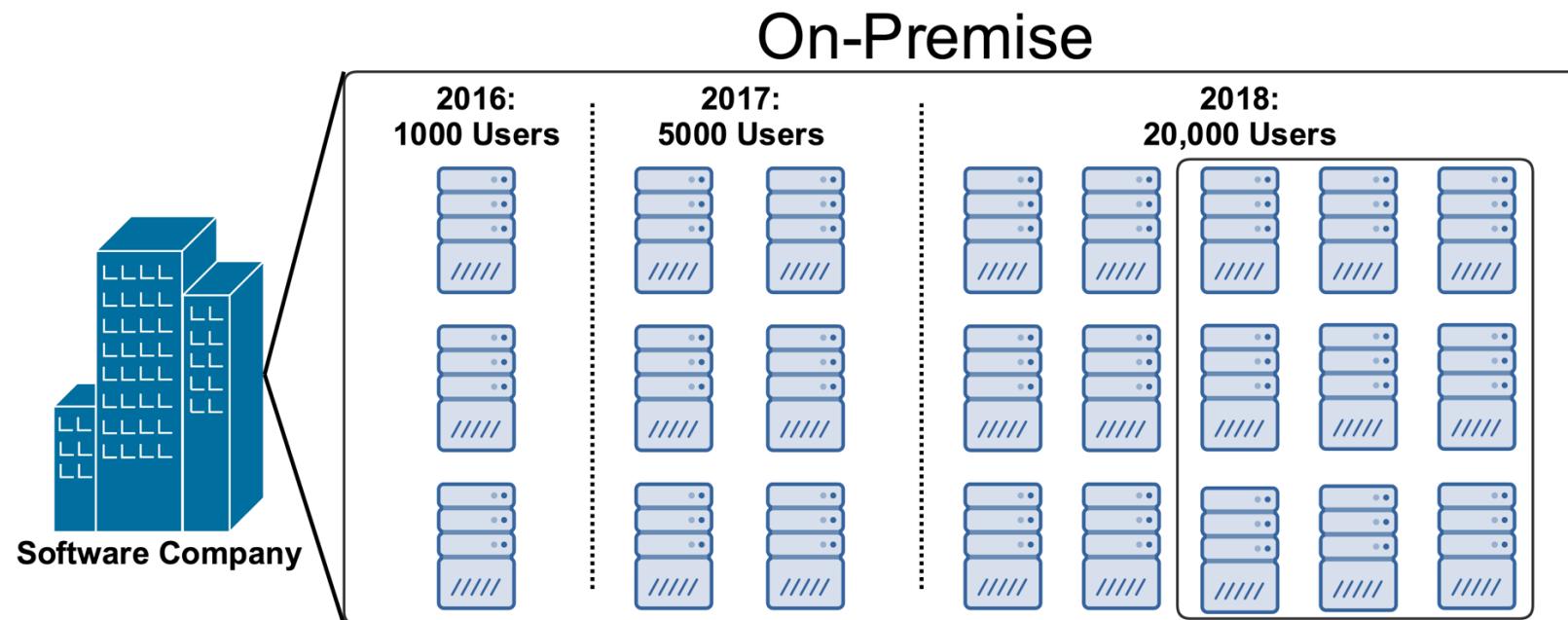
## On-Premise



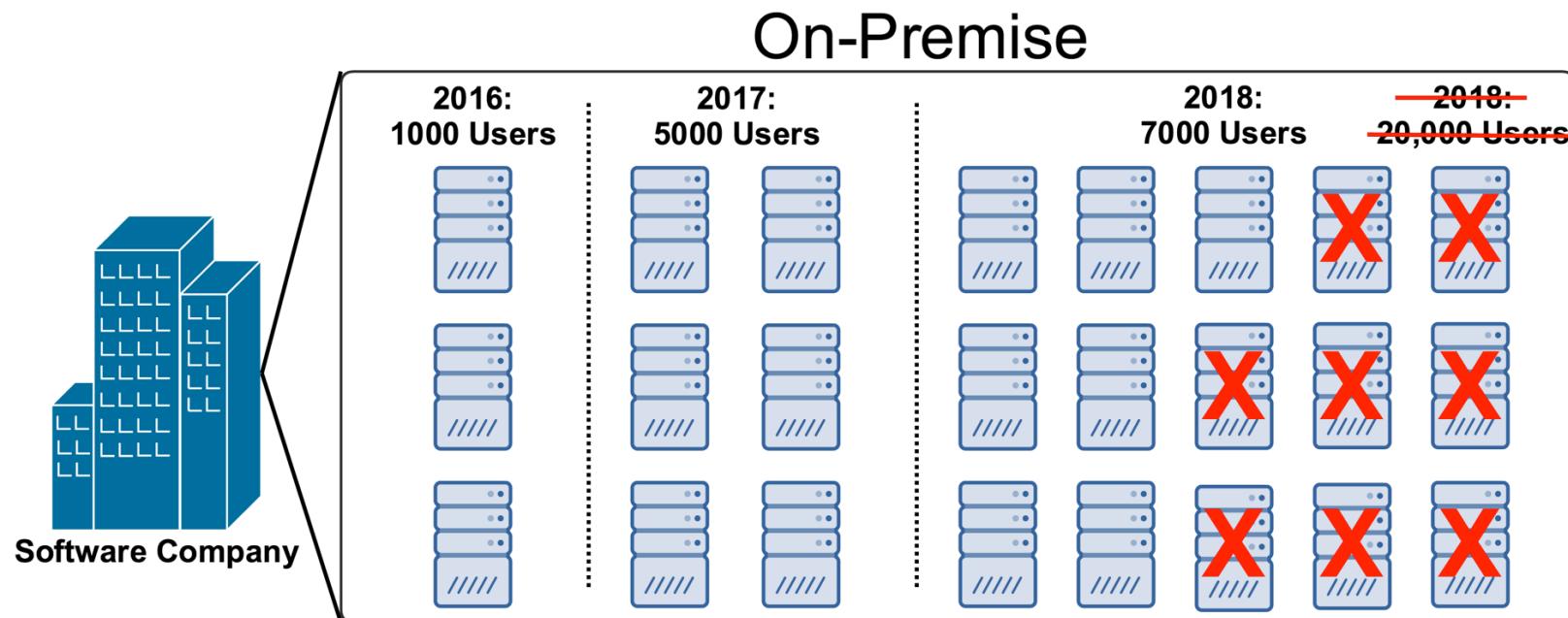
## Common Enterprise Uses of Cloud Services



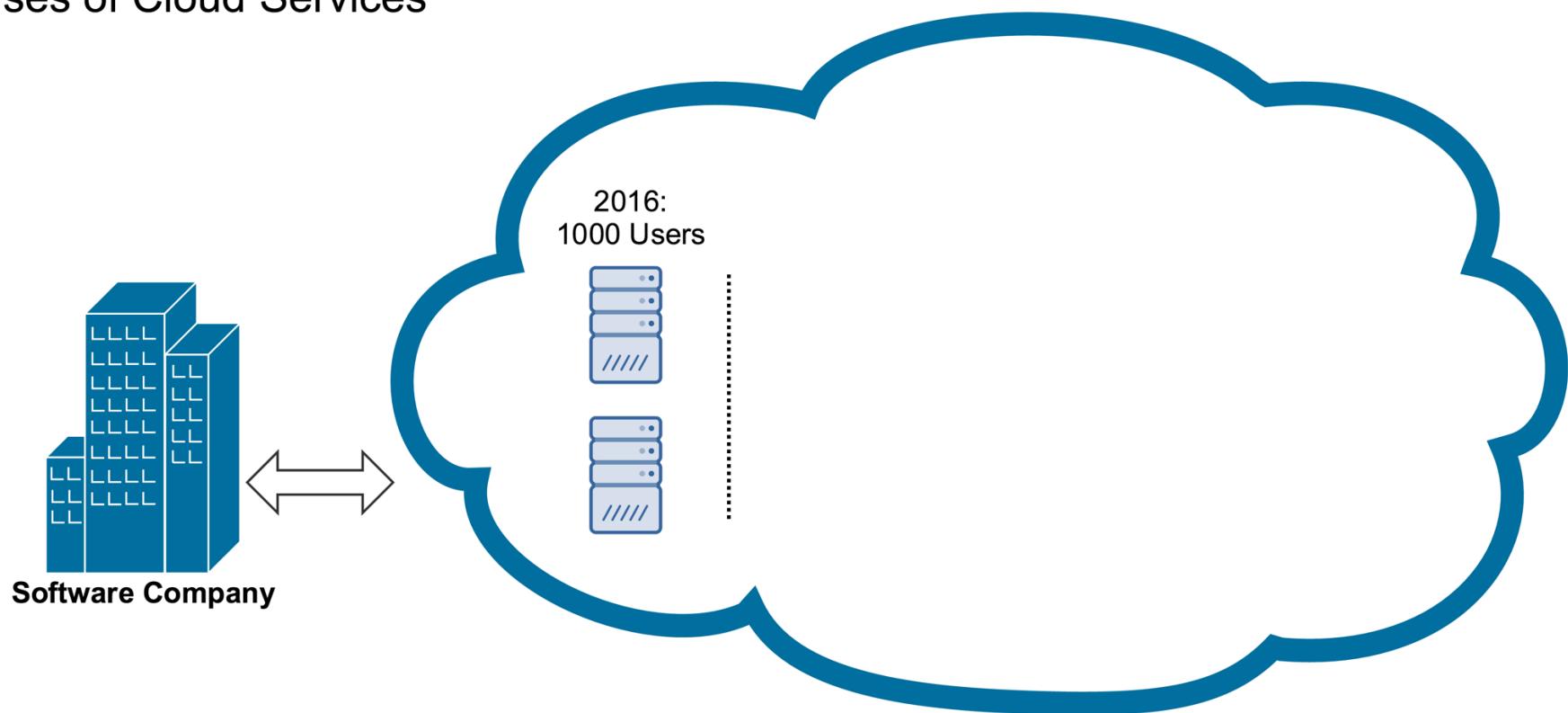
## Common Enterprise Uses of Cloud Services



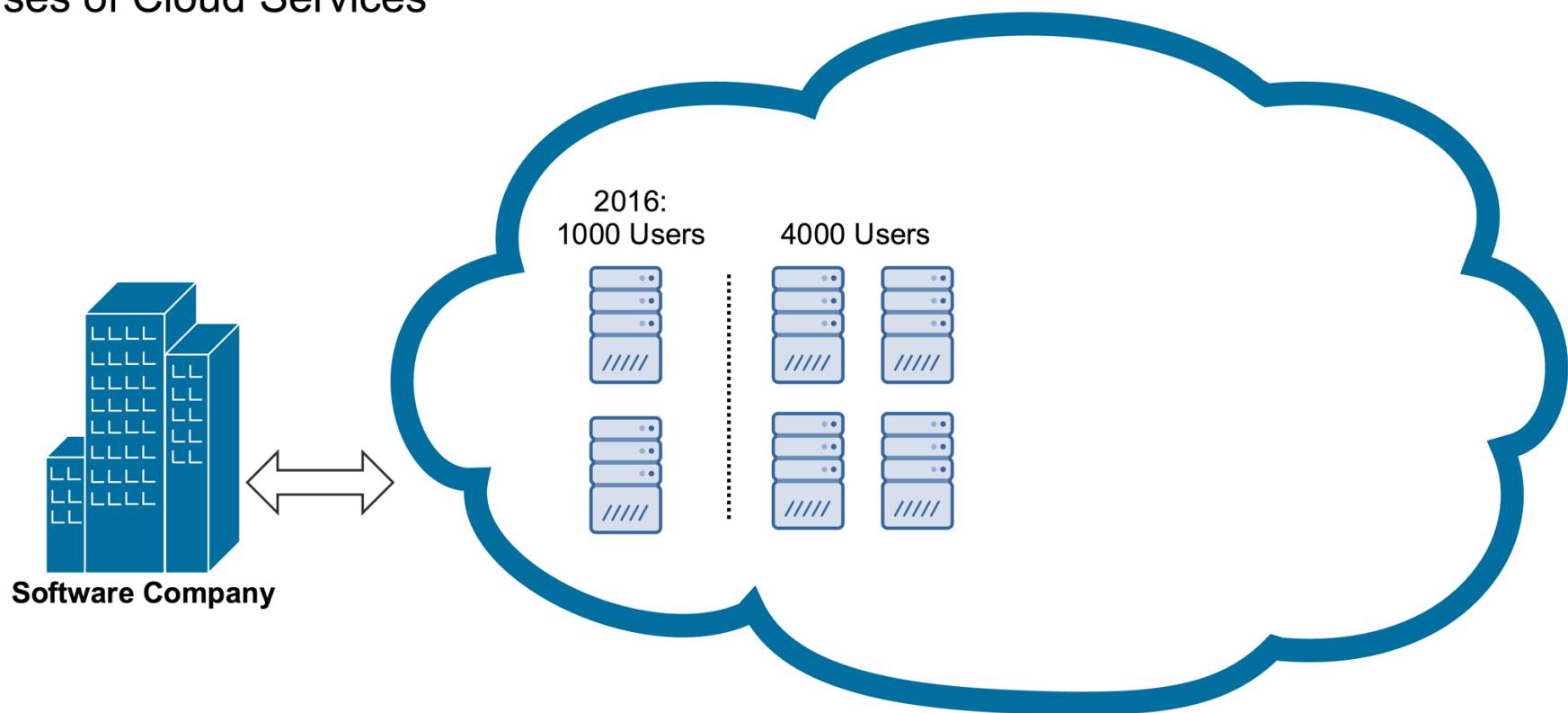
## Common Enterprise Uses of Cloud Services



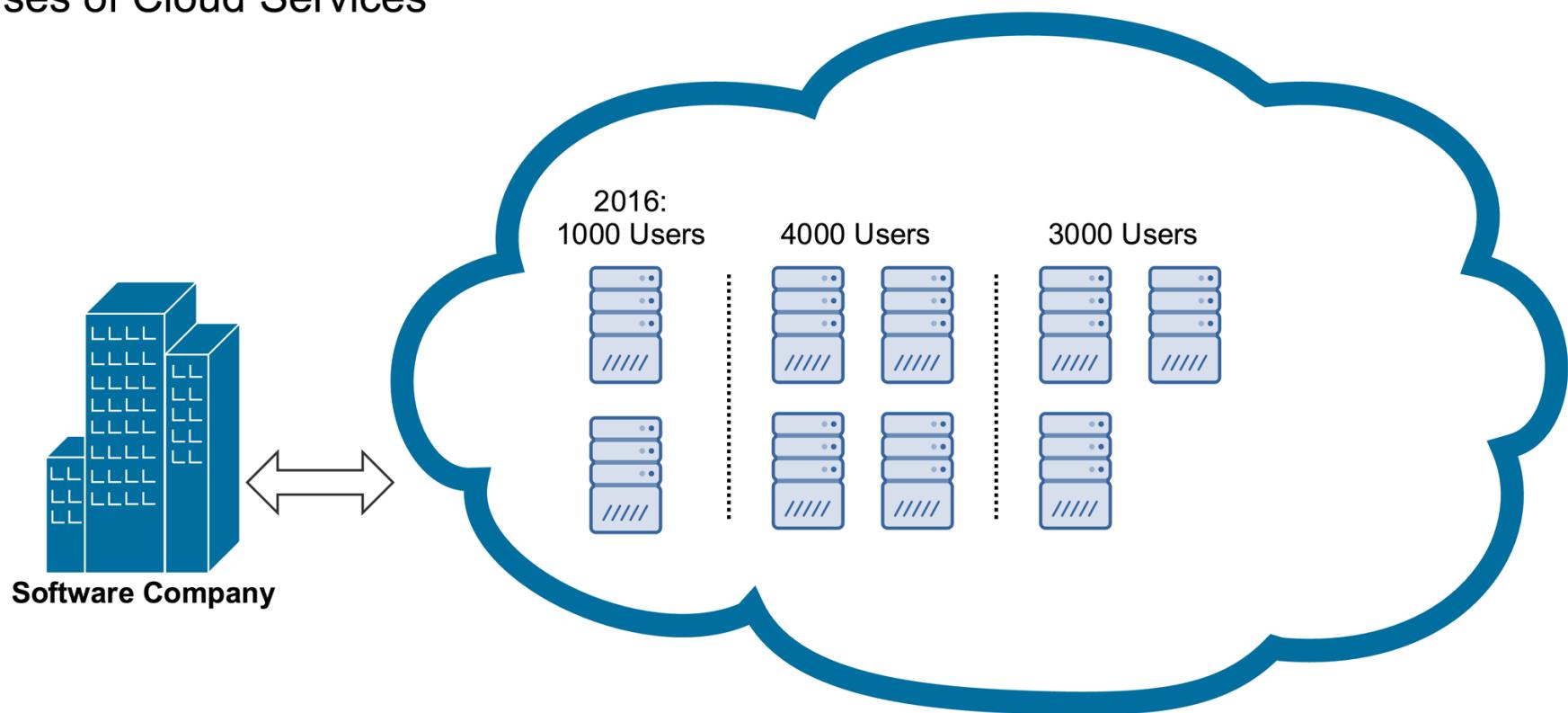
## Common Enterprise Uses of Cloud Services



## Common Enterprise Uses of Cloud Services



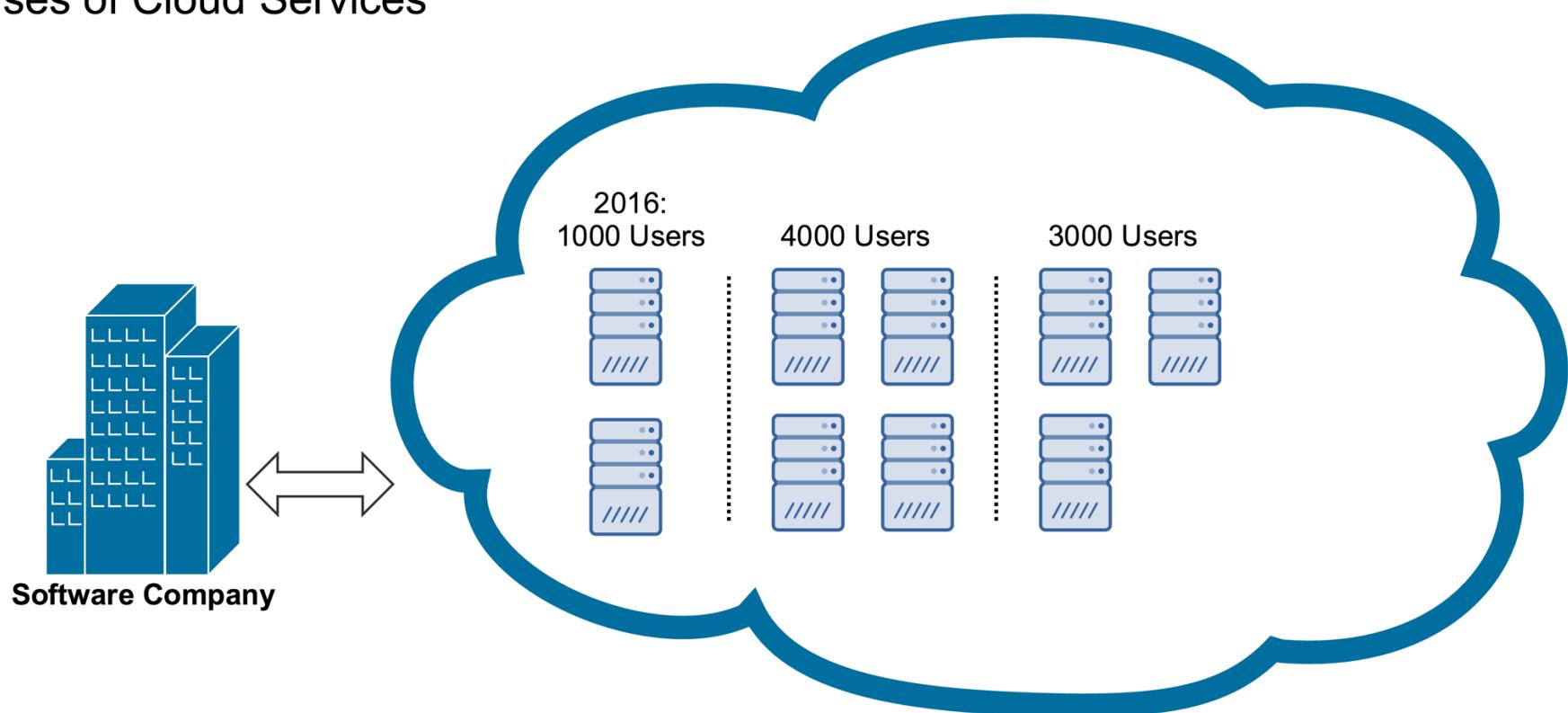
## Common Enterprise Uses of Cloud Services



## Common **Enterprise** Uses of Cloud Services

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

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



# Recap:



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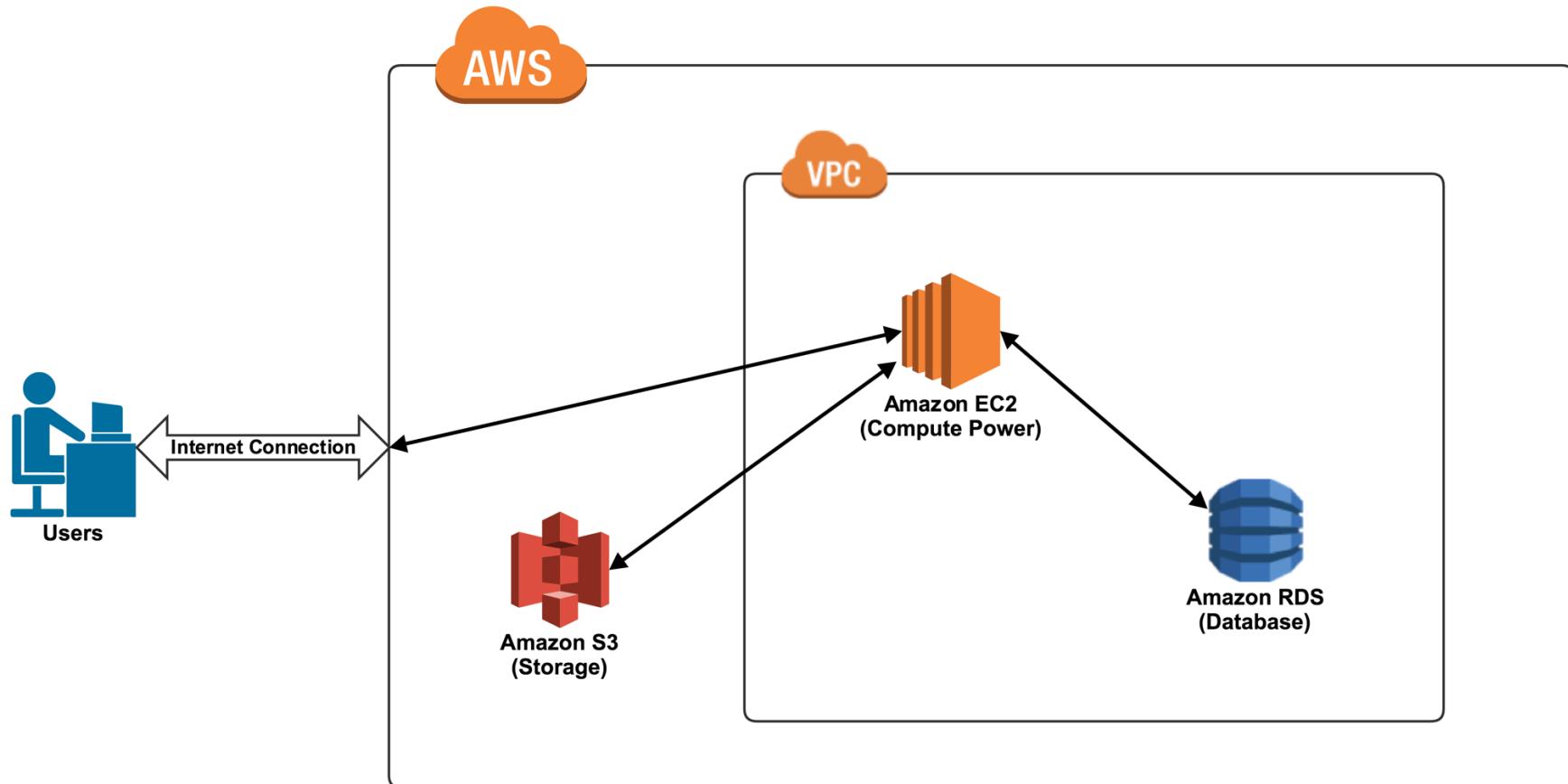
Cloud Terminology  
#1: "***High Availability***"

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

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

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

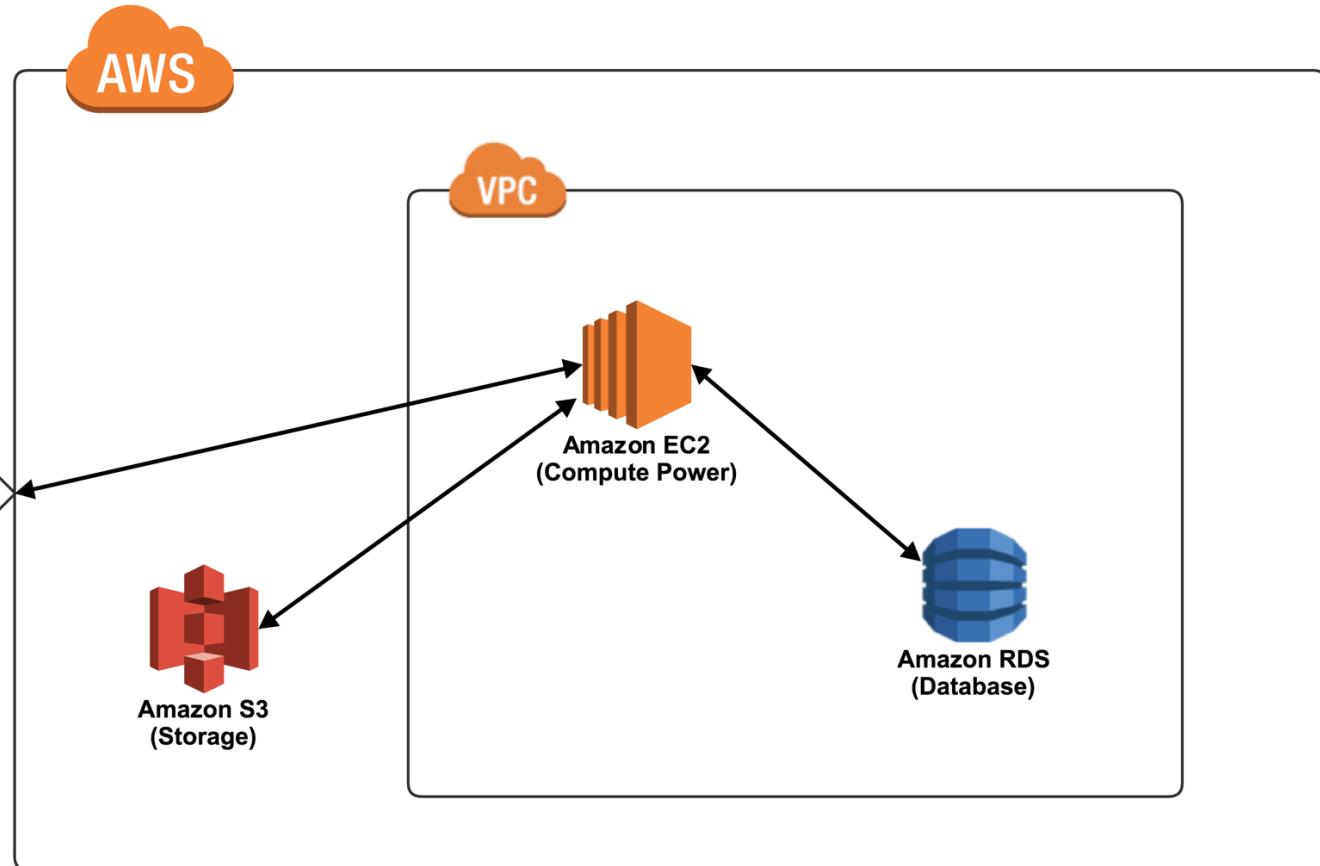
# *What's Next?*



# ***Facebook & Netflix***



Users





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# Amazon Web Services

## Introduction to AWS

Thank you for watching!

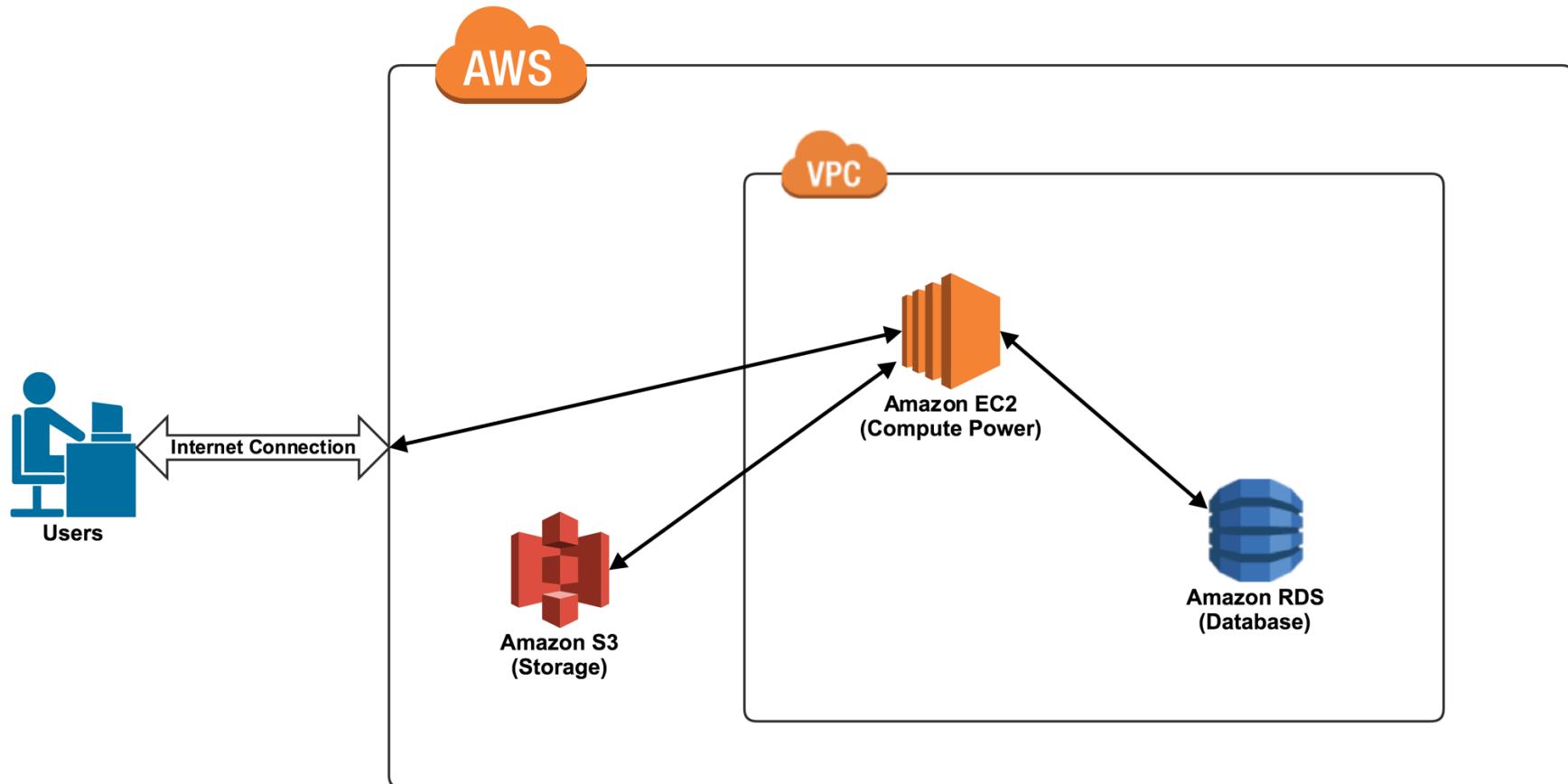


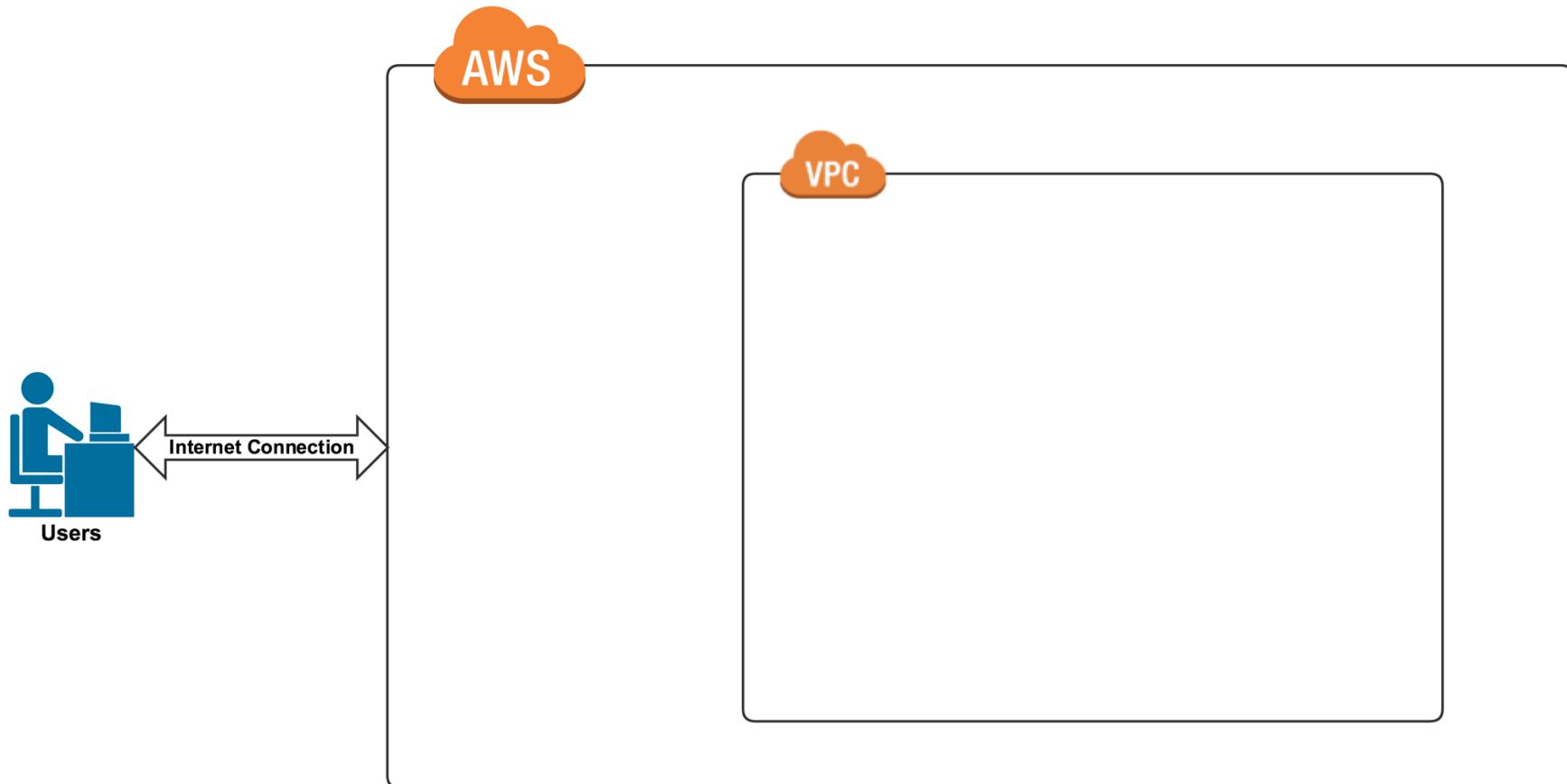
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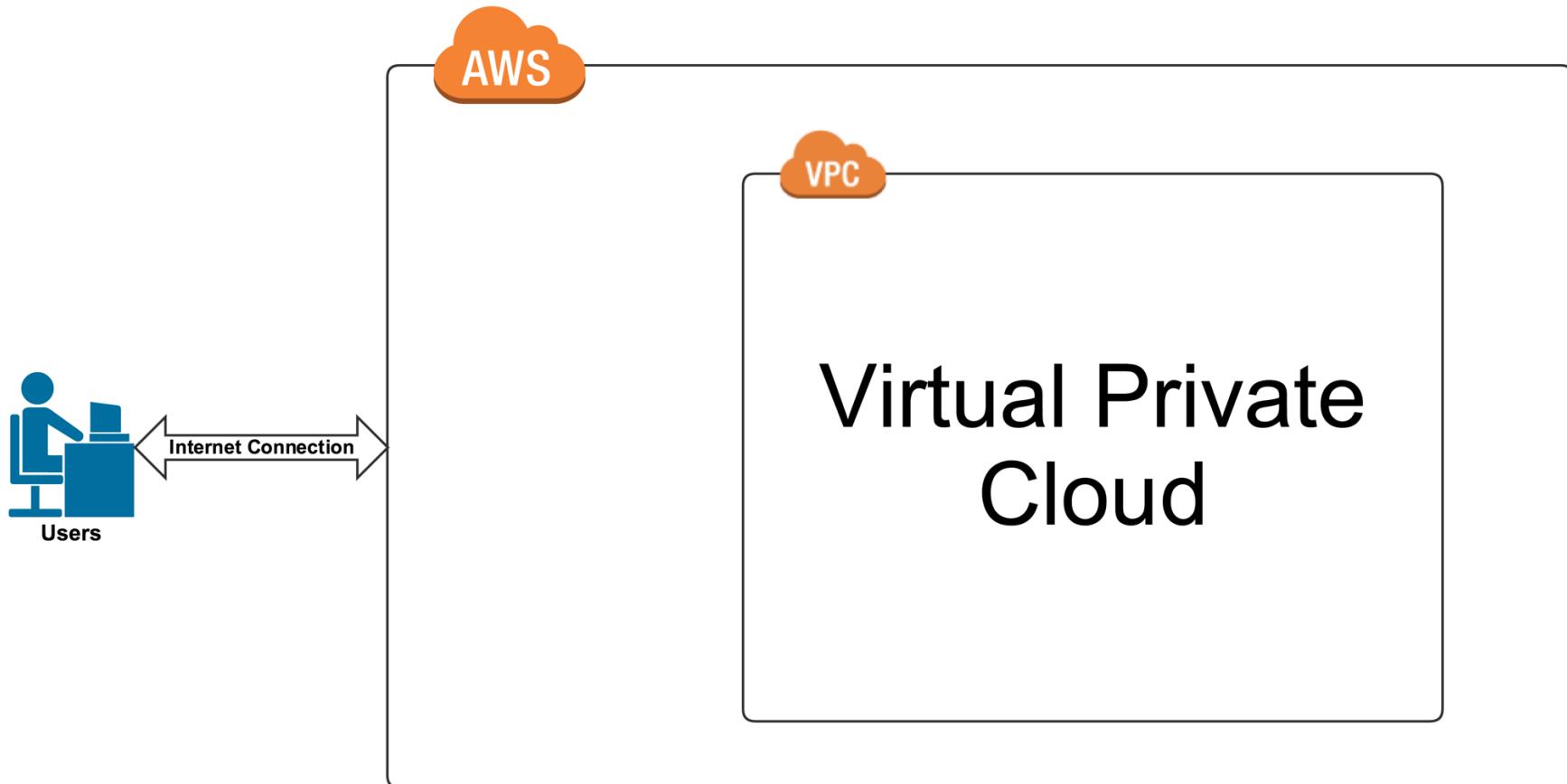
# Amazon Web Services

## Introduction to AWS: VPCs

Provide a  
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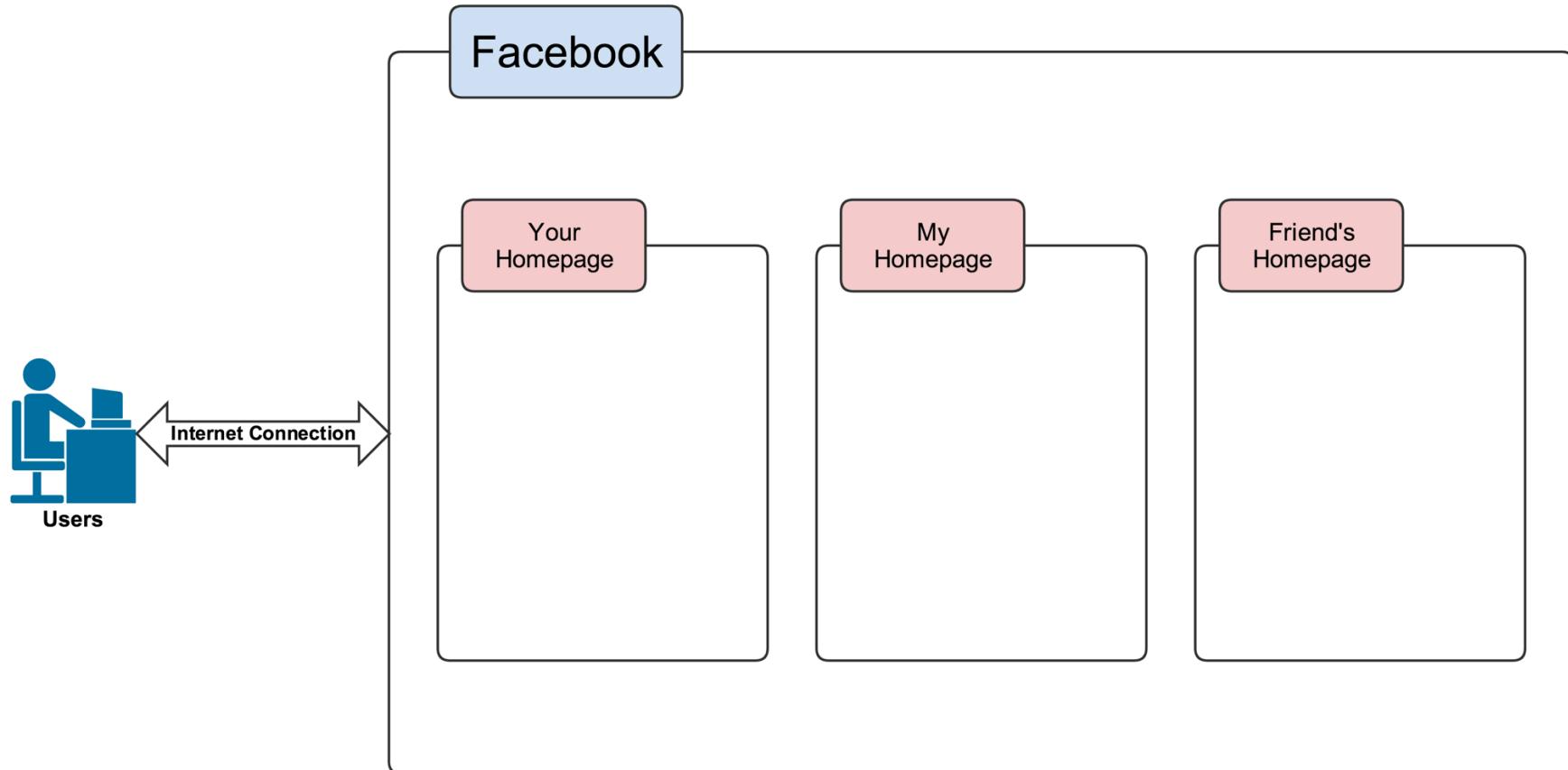


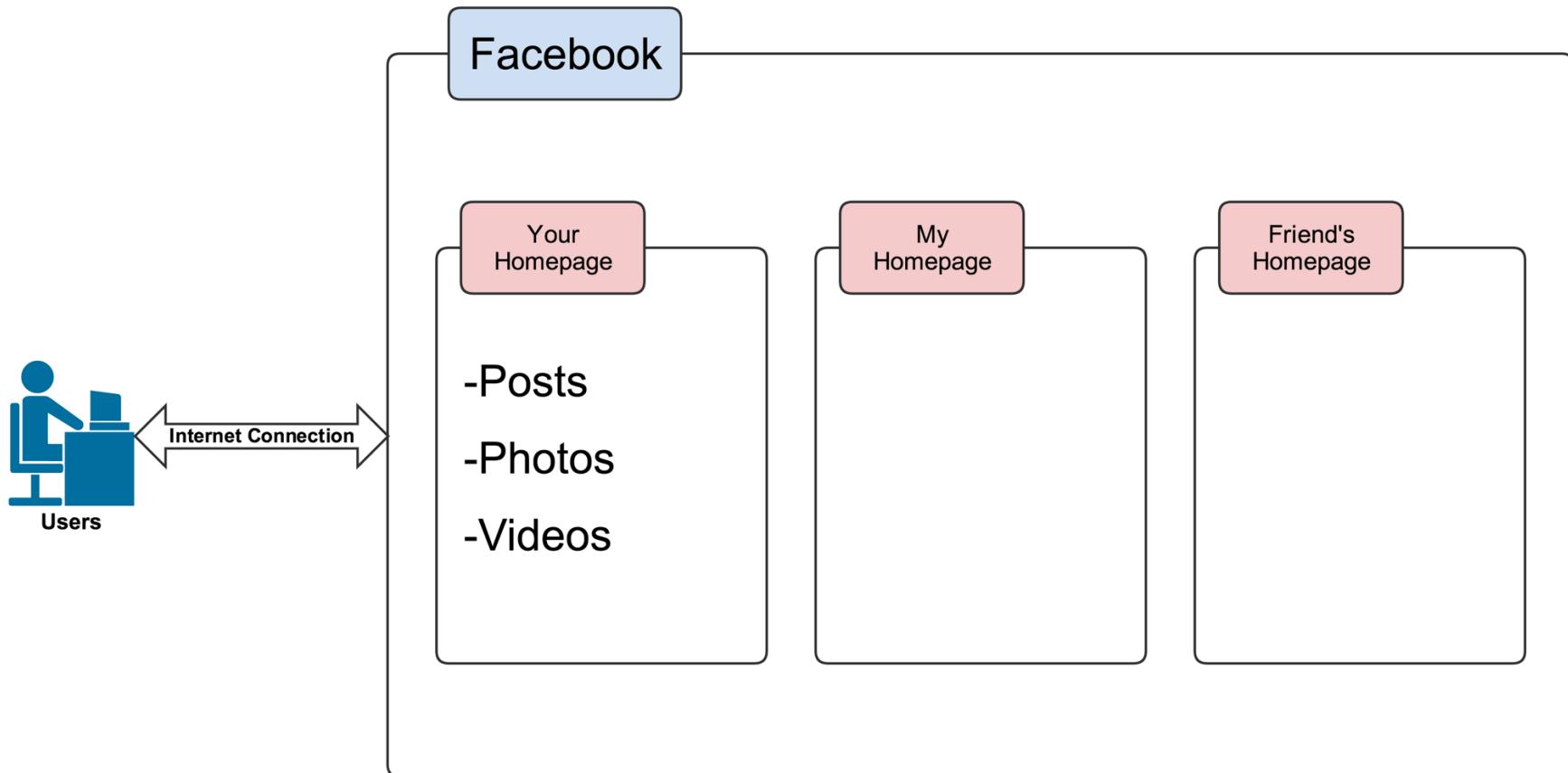


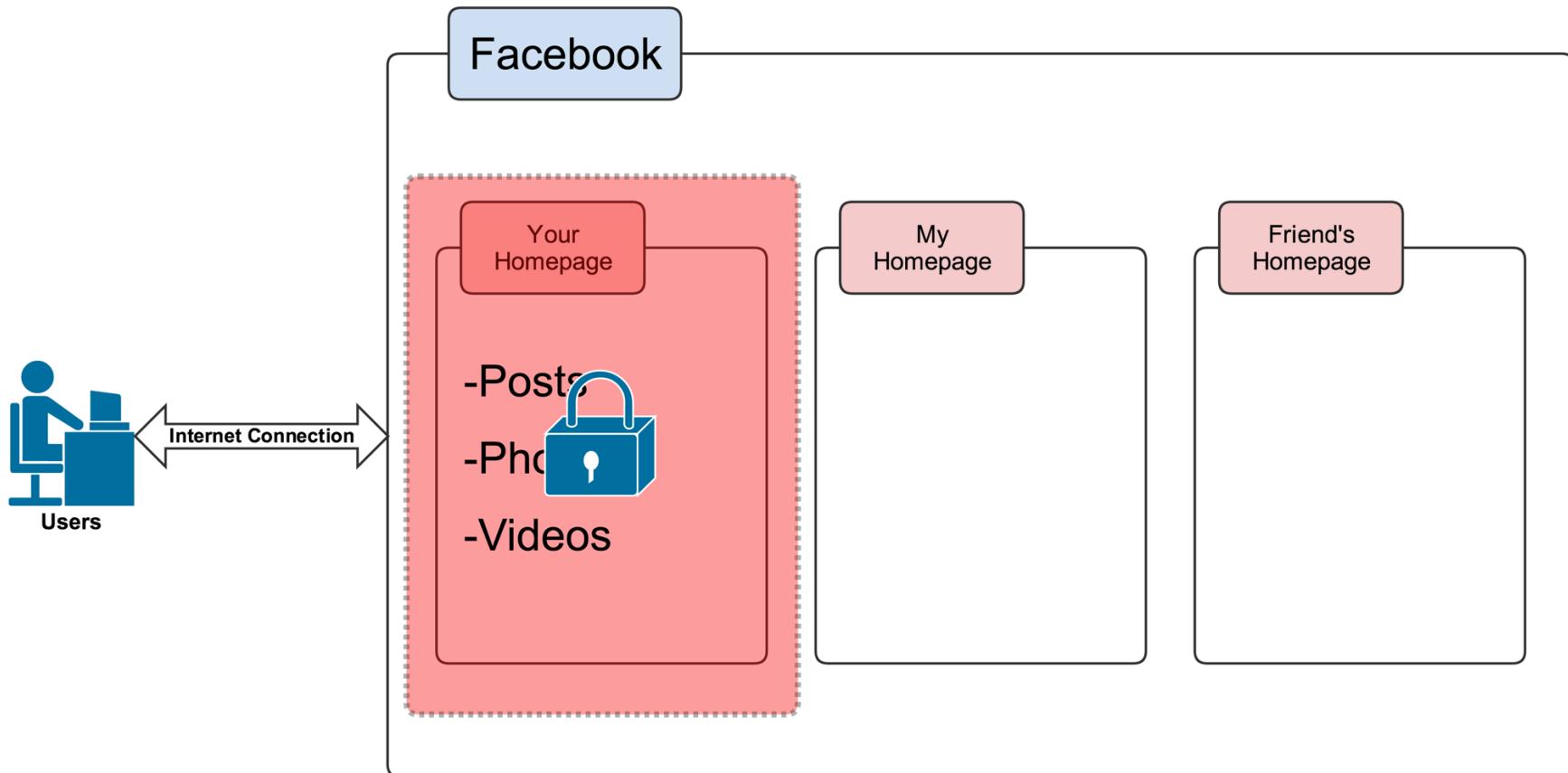


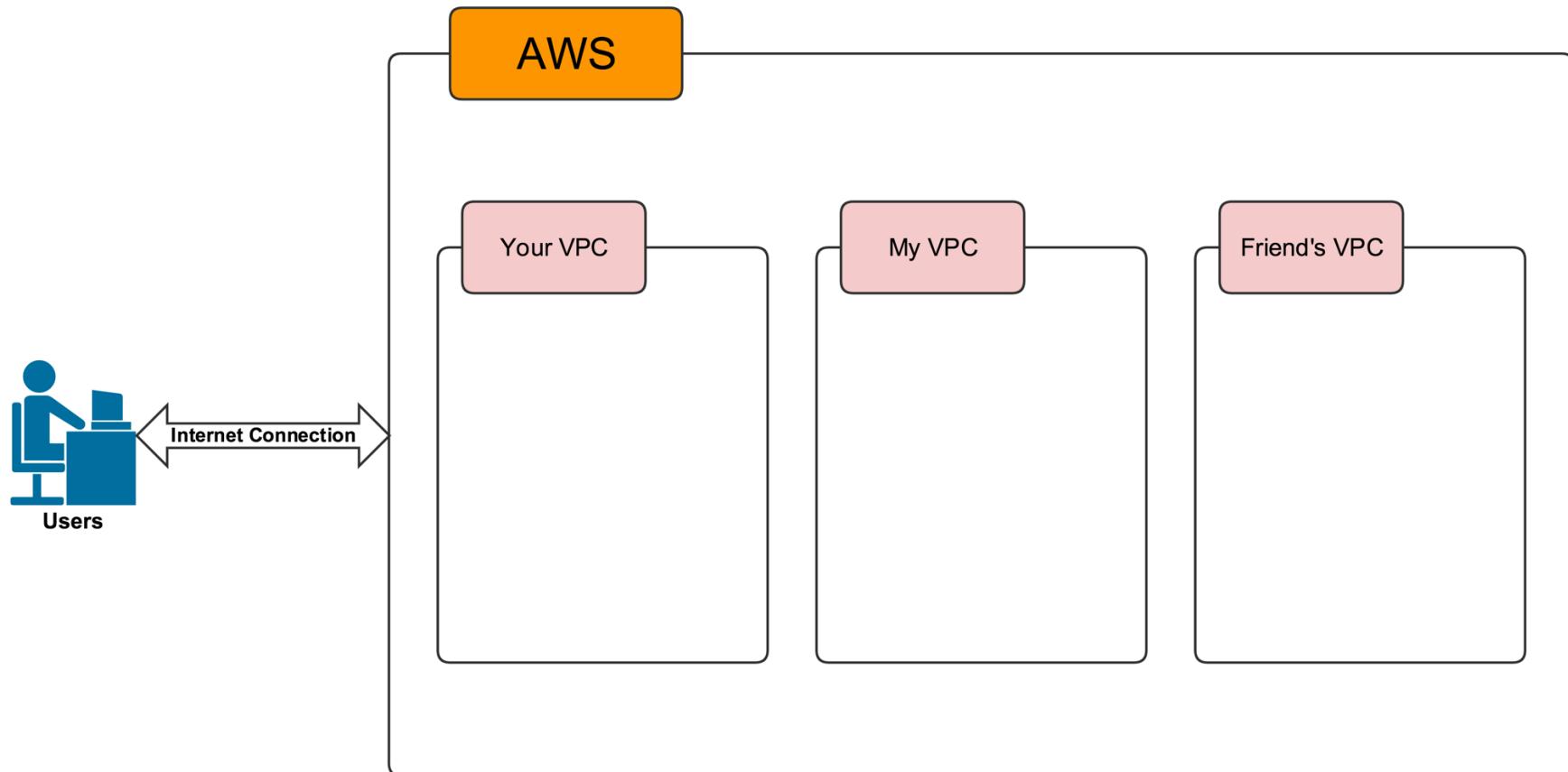
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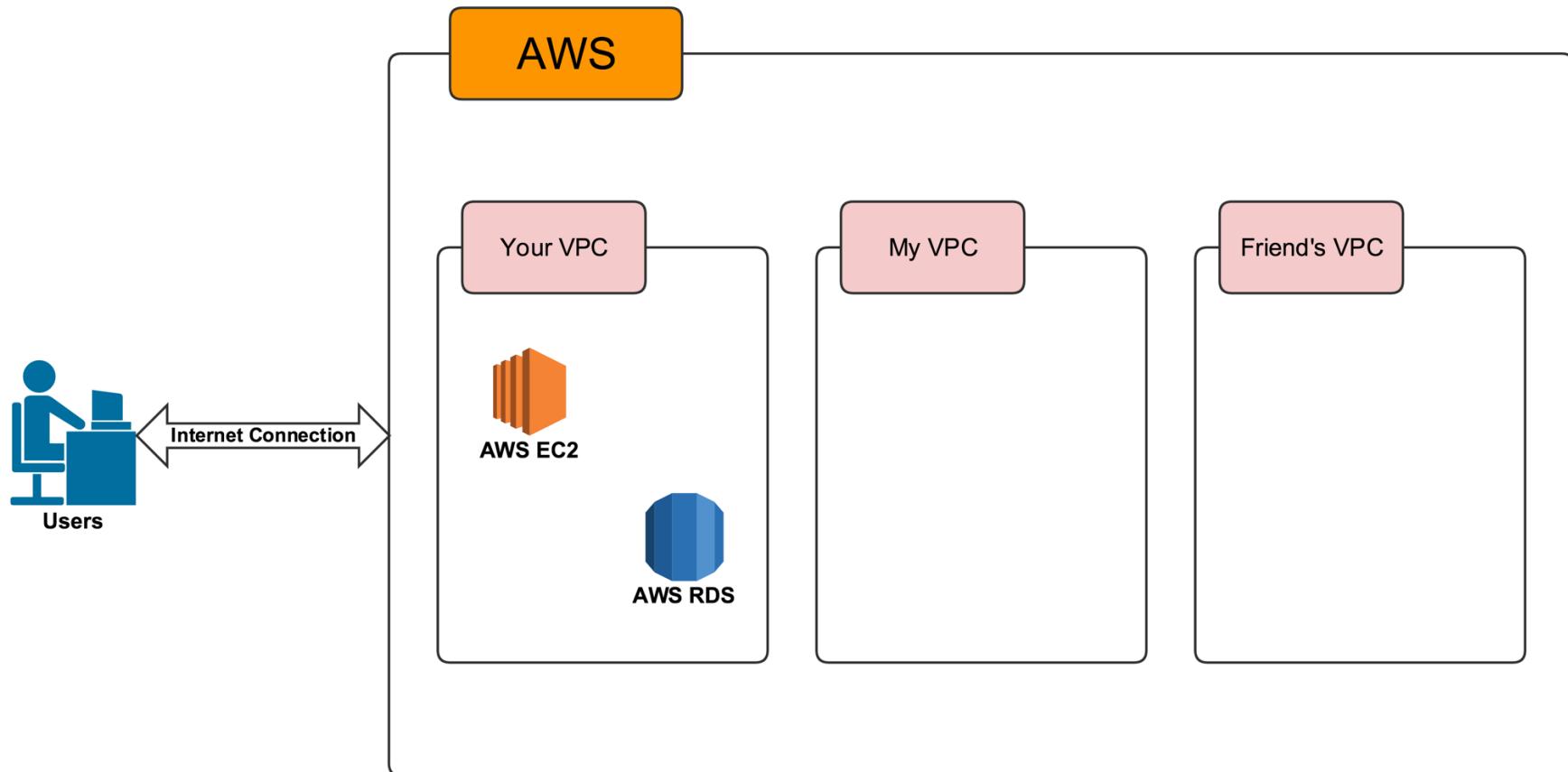
# *Facebook*

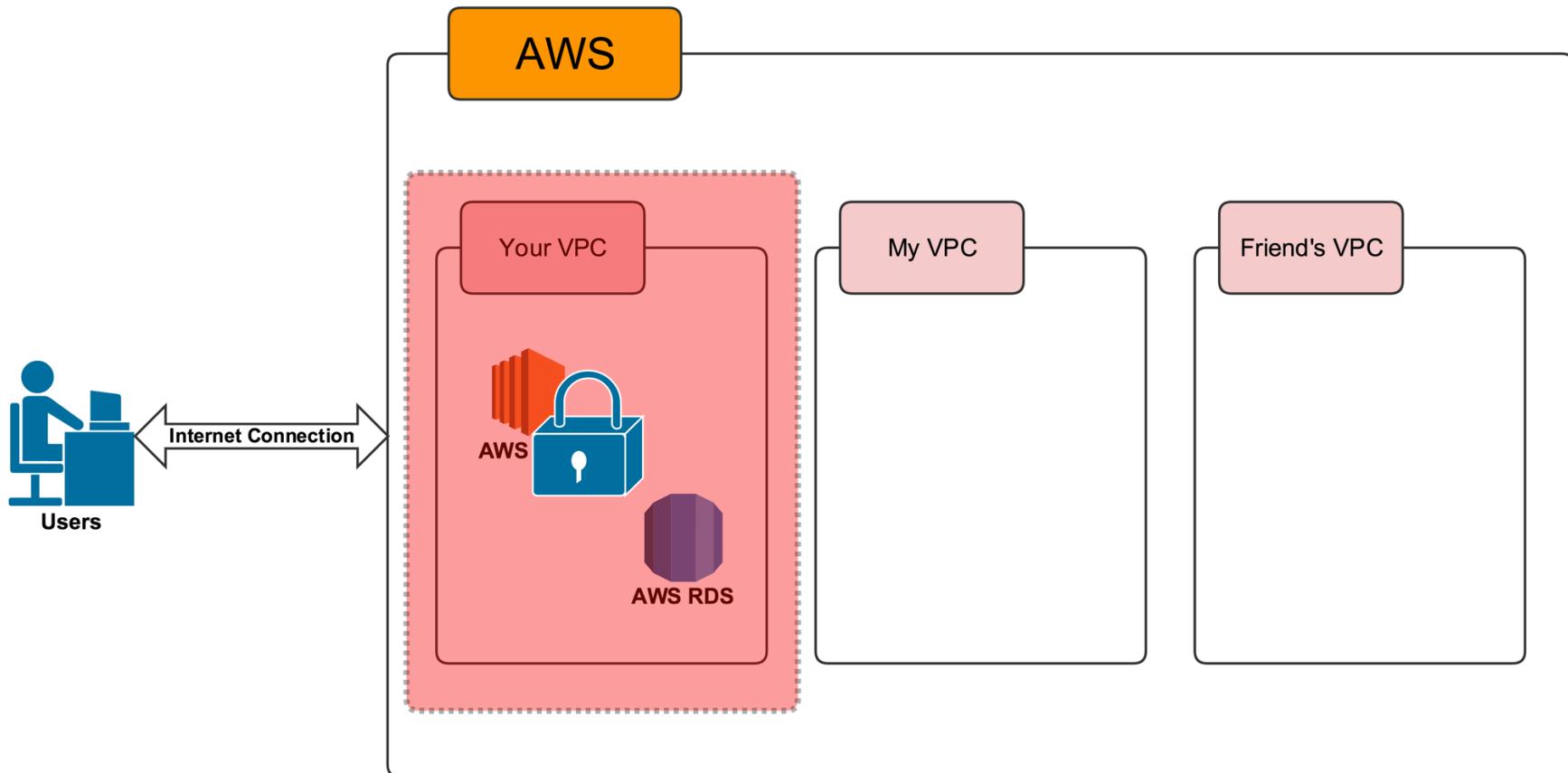












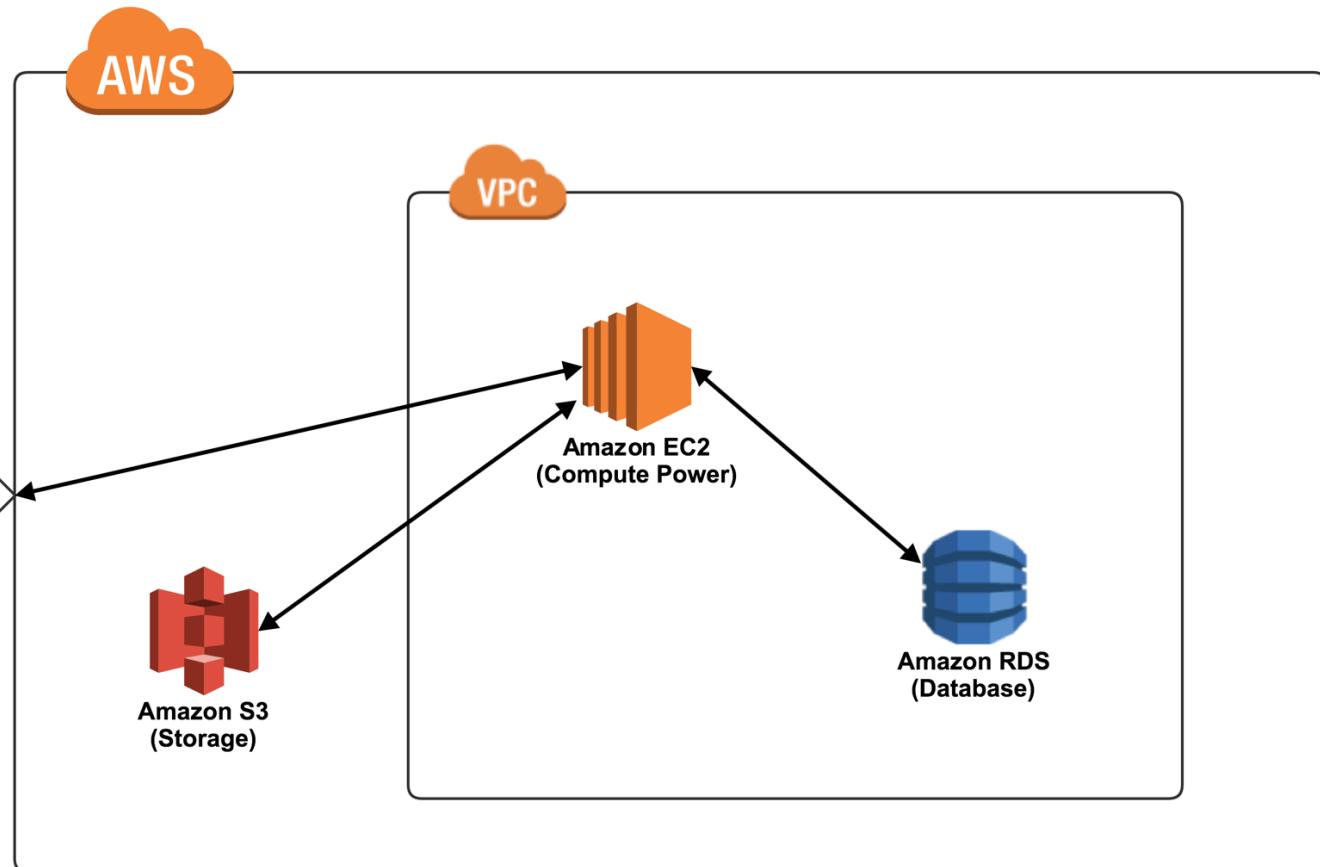
# *Recap:*

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

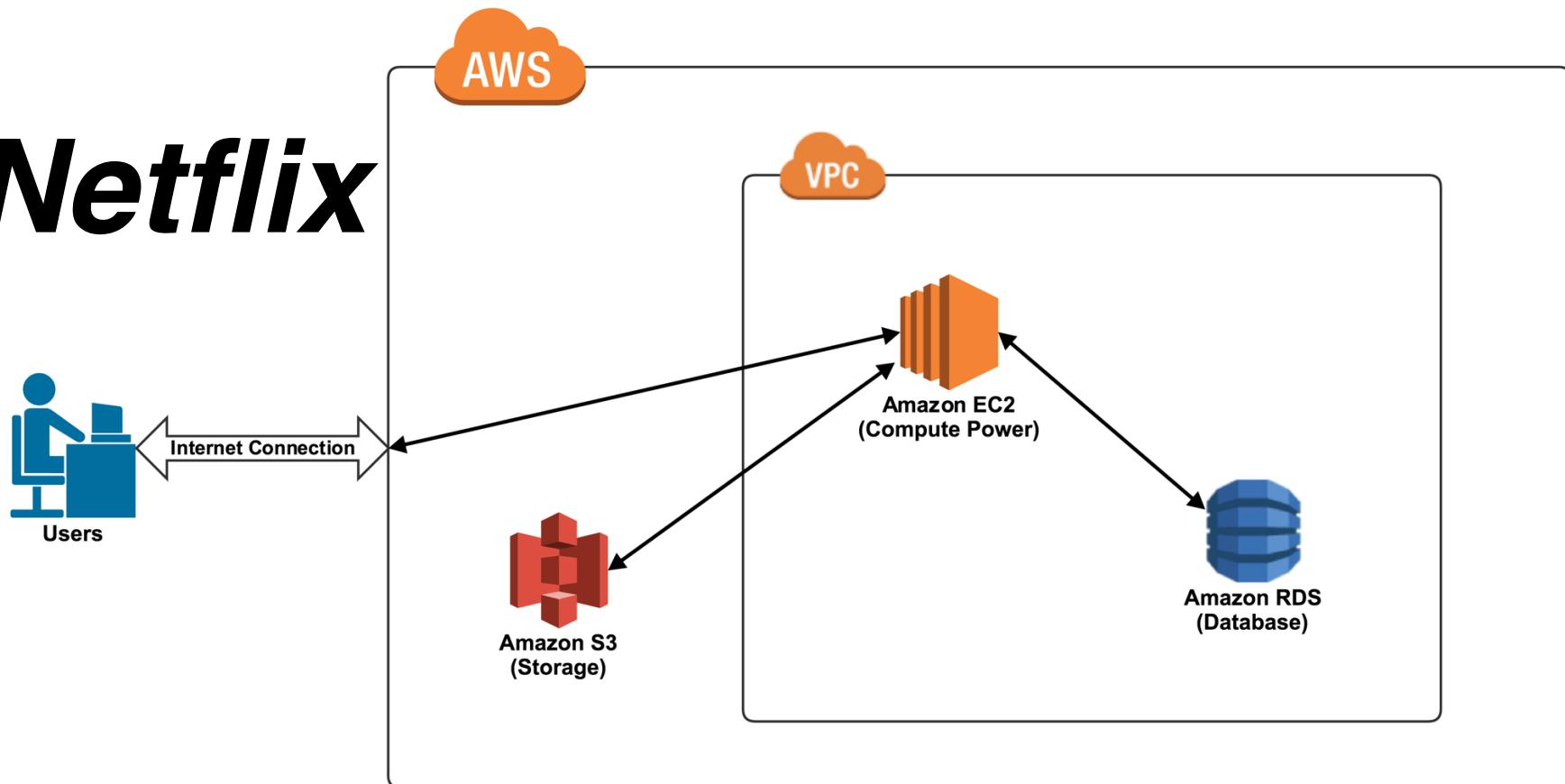
# What's Next?



Users



# Netflix





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# Amazon Web Services

## Introduction to AWS: VPCs

Thank you for watching!



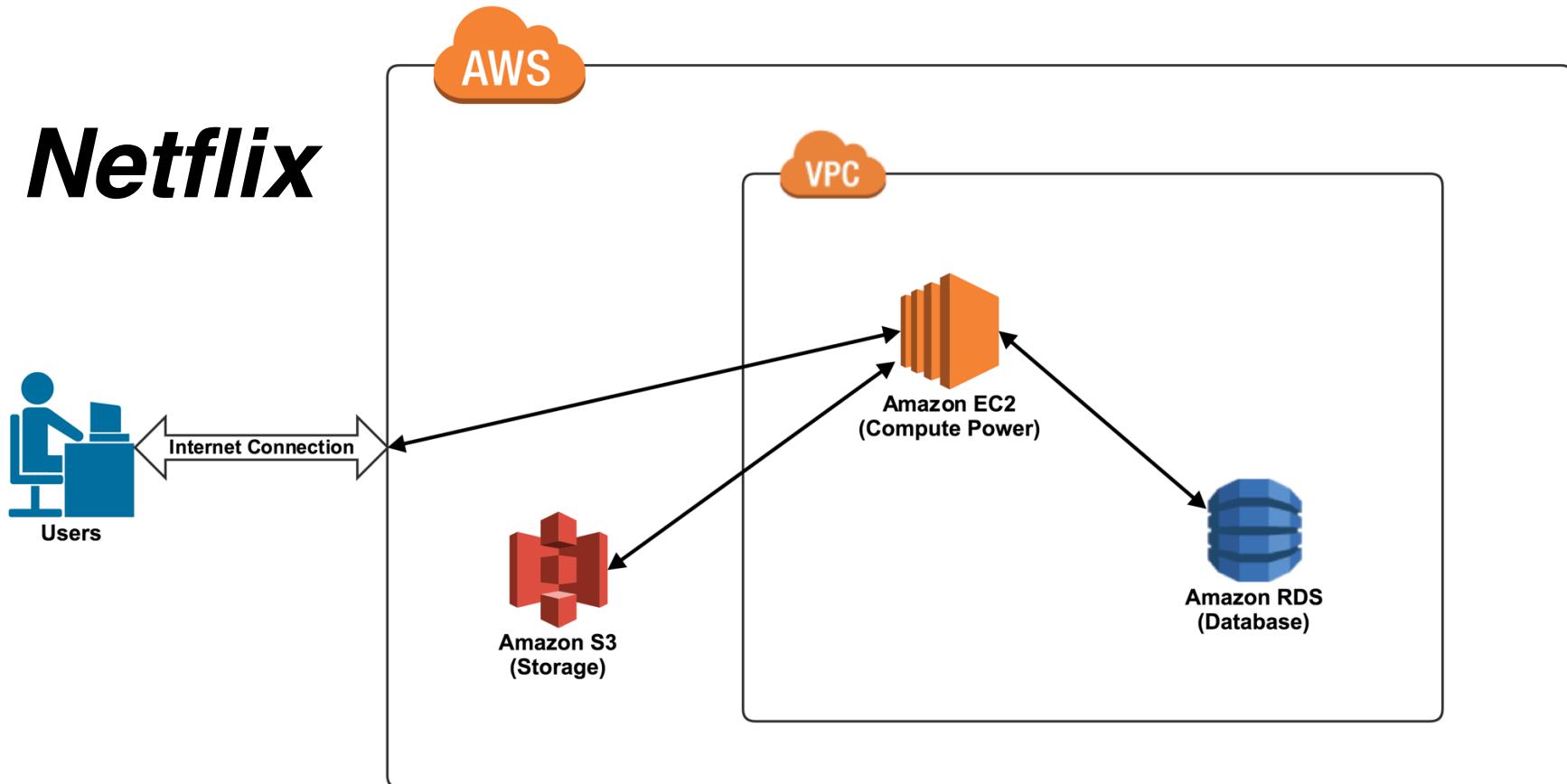
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# Amazon Web Services

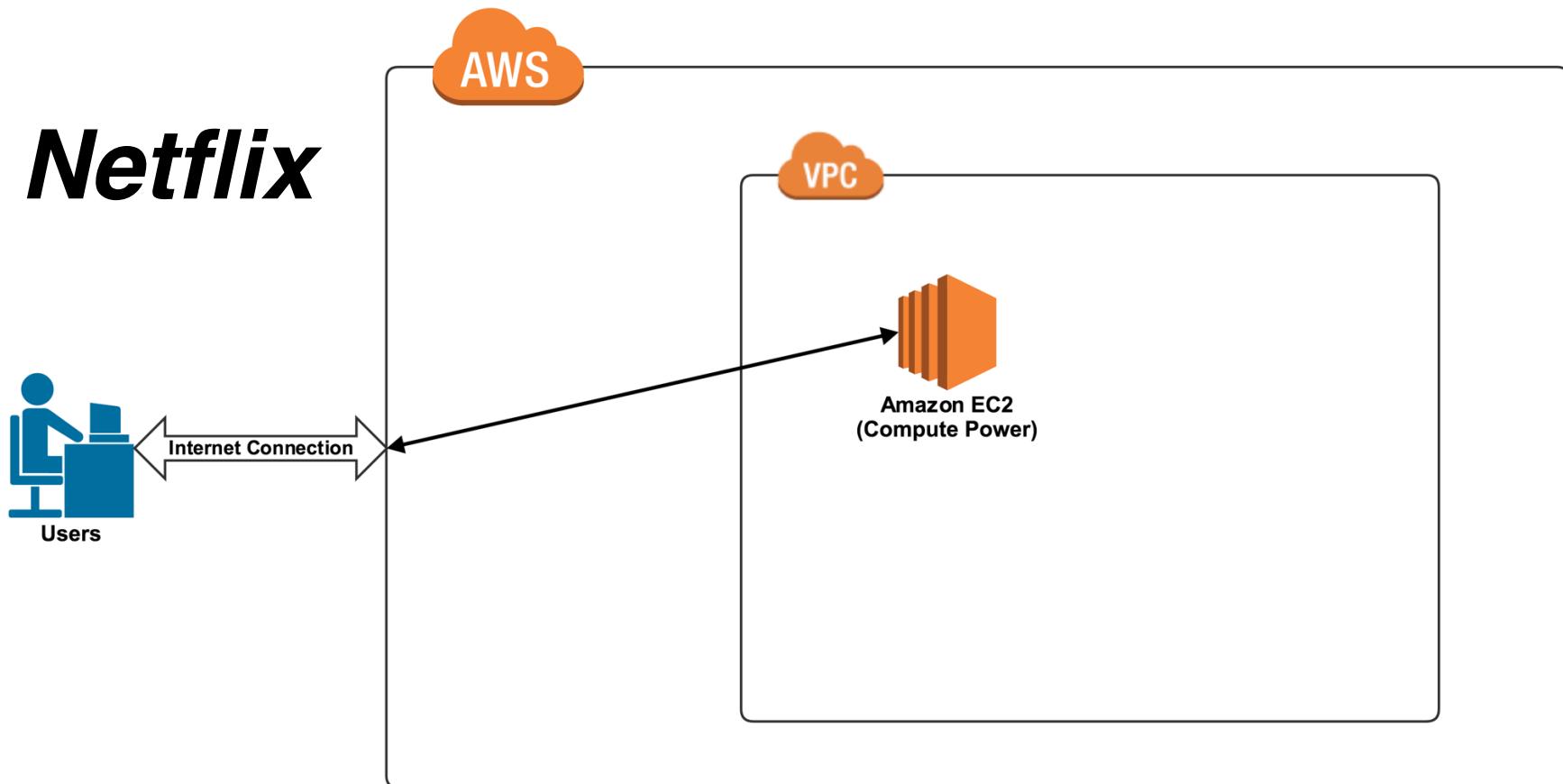
## Introduction to AWS: EC2

Provide a  
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***Oversimplification of Concepts***  
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# Netflix

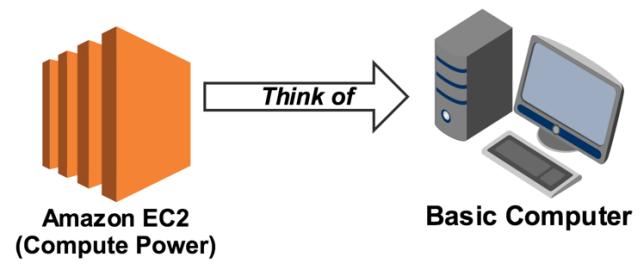


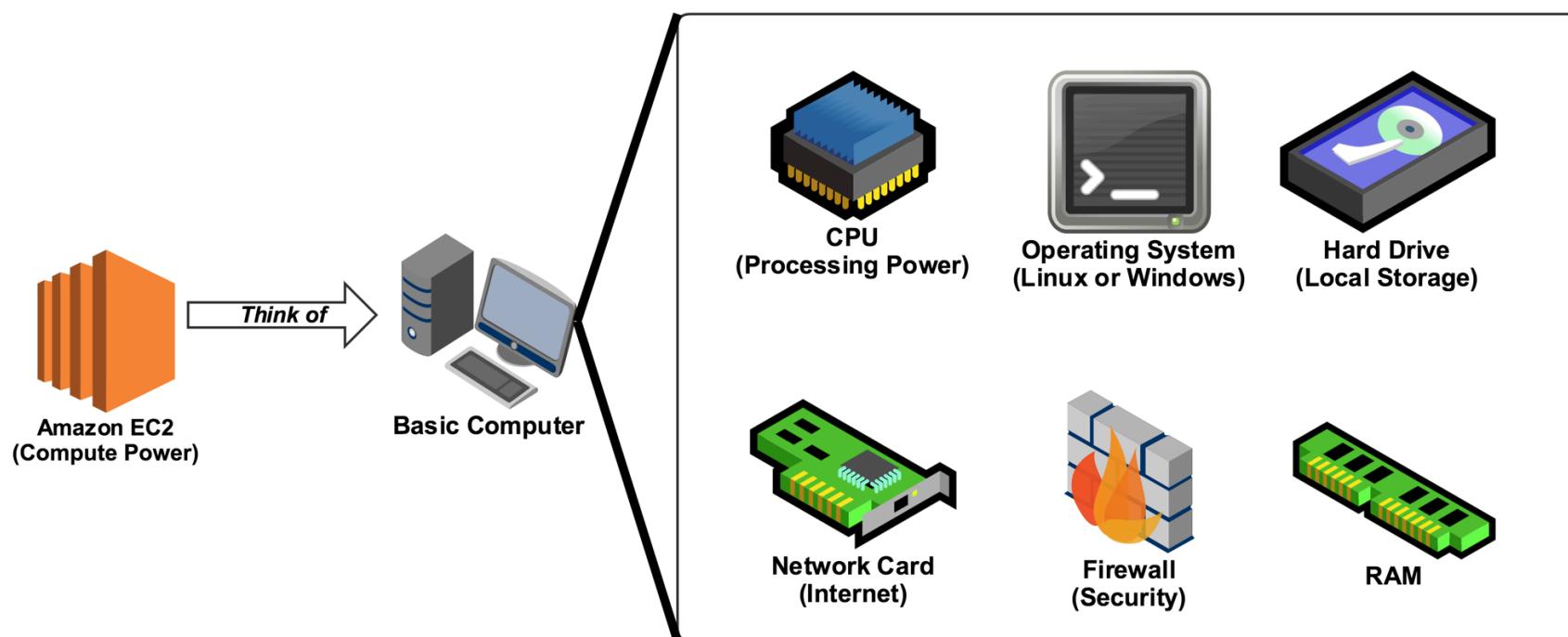
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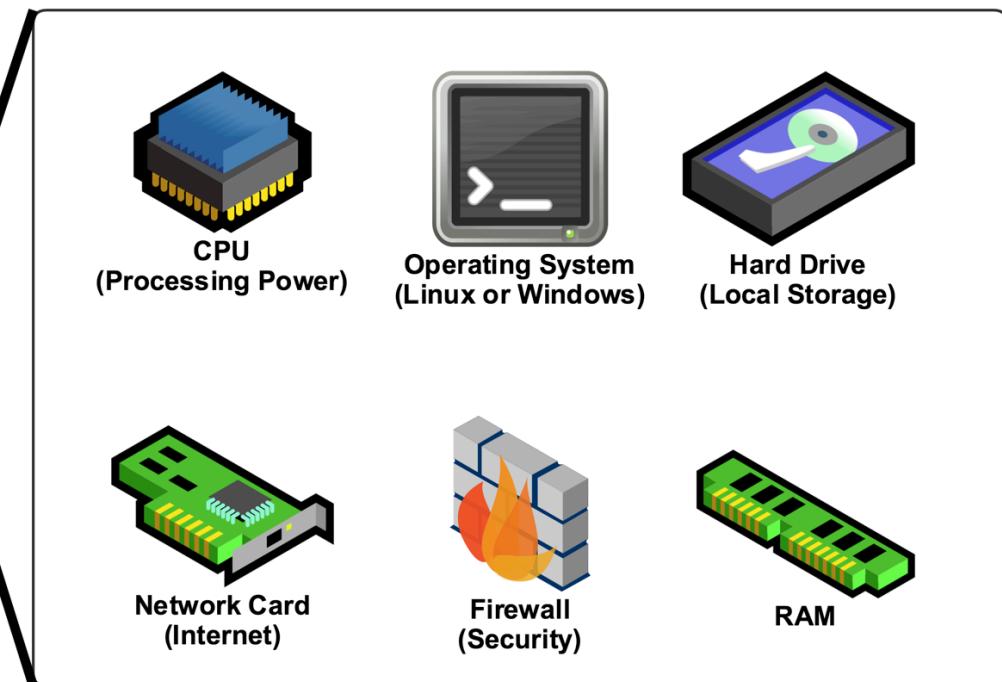
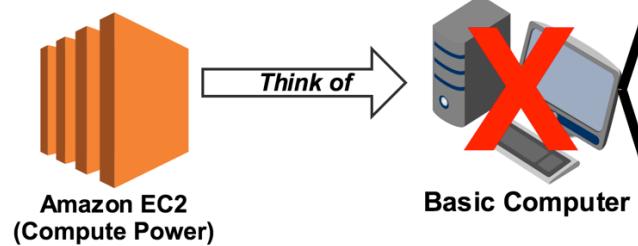


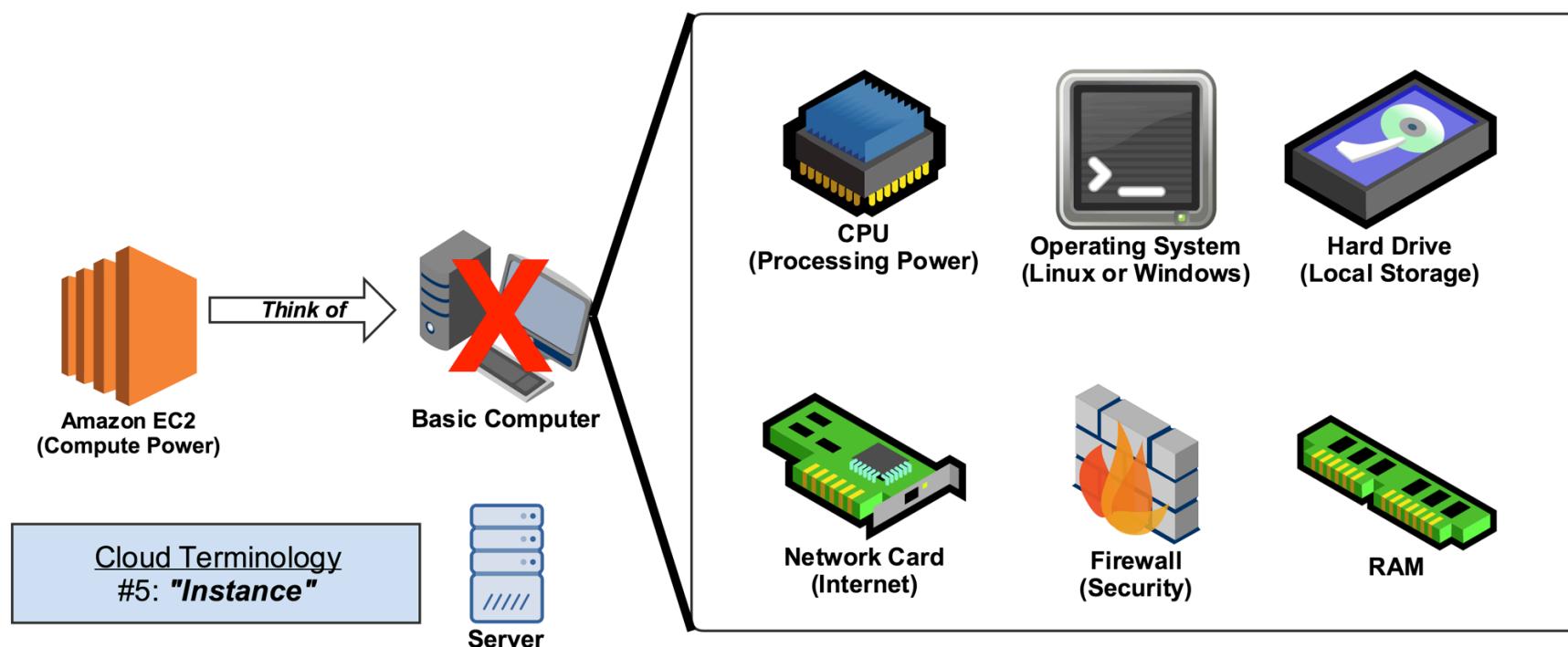


**Amazon EC2**  
(Compute Power)

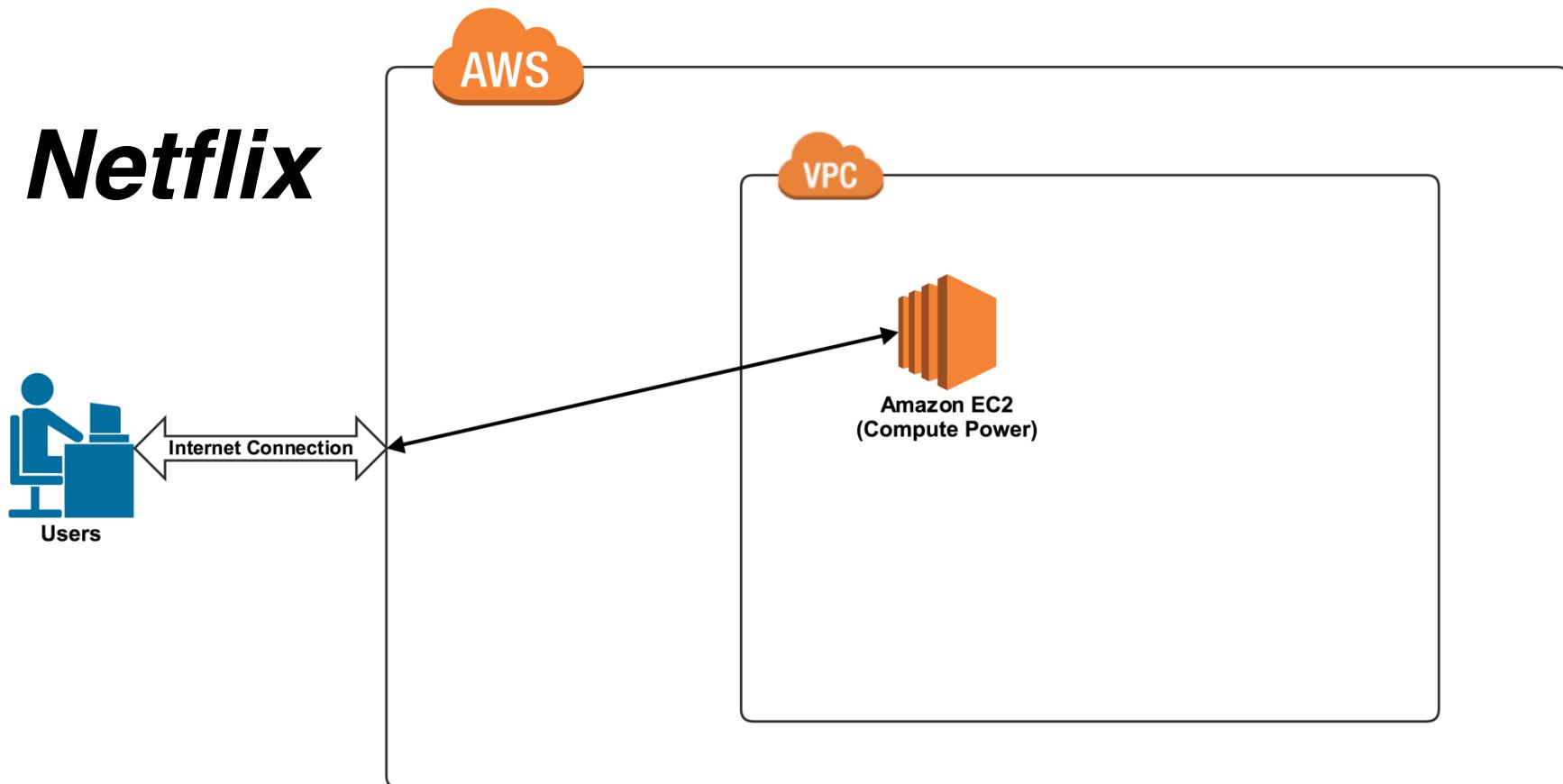


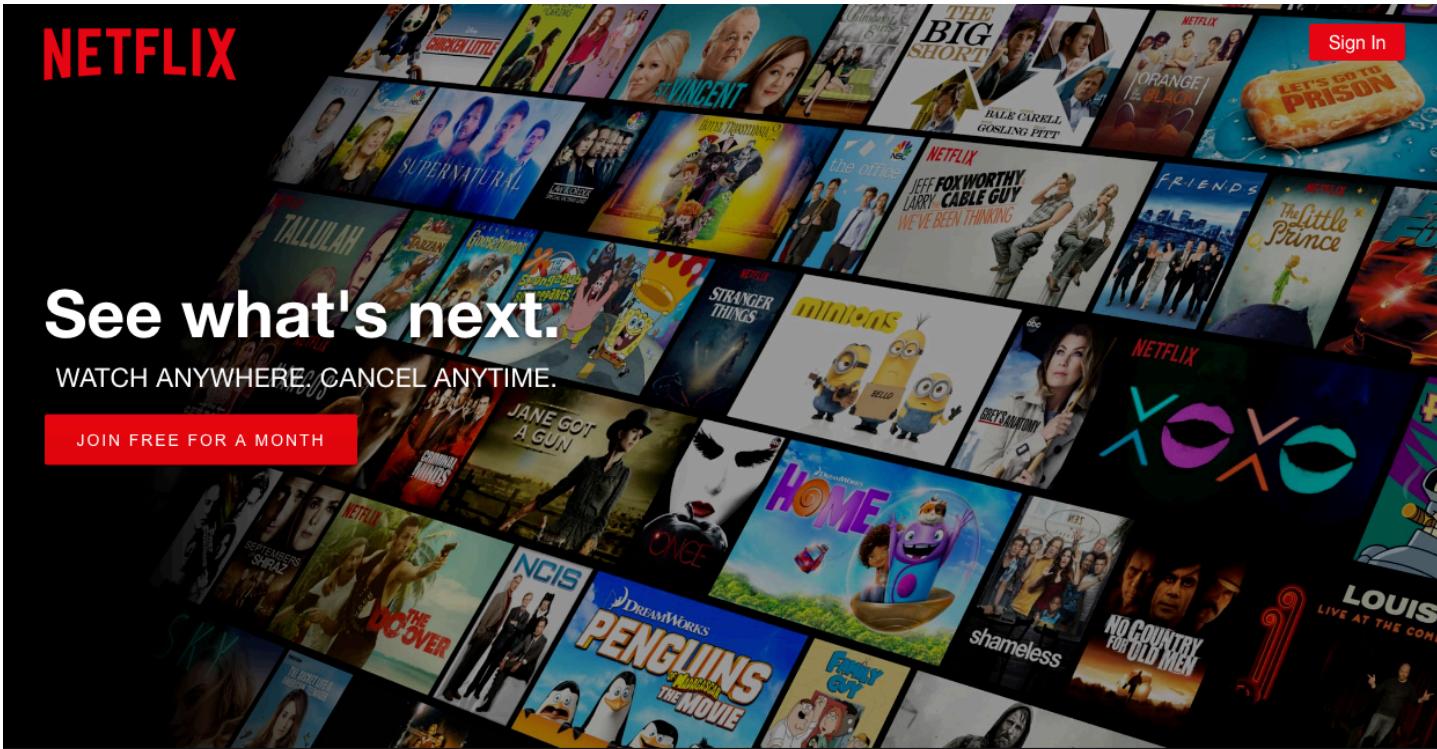






# Netflix





No commitments

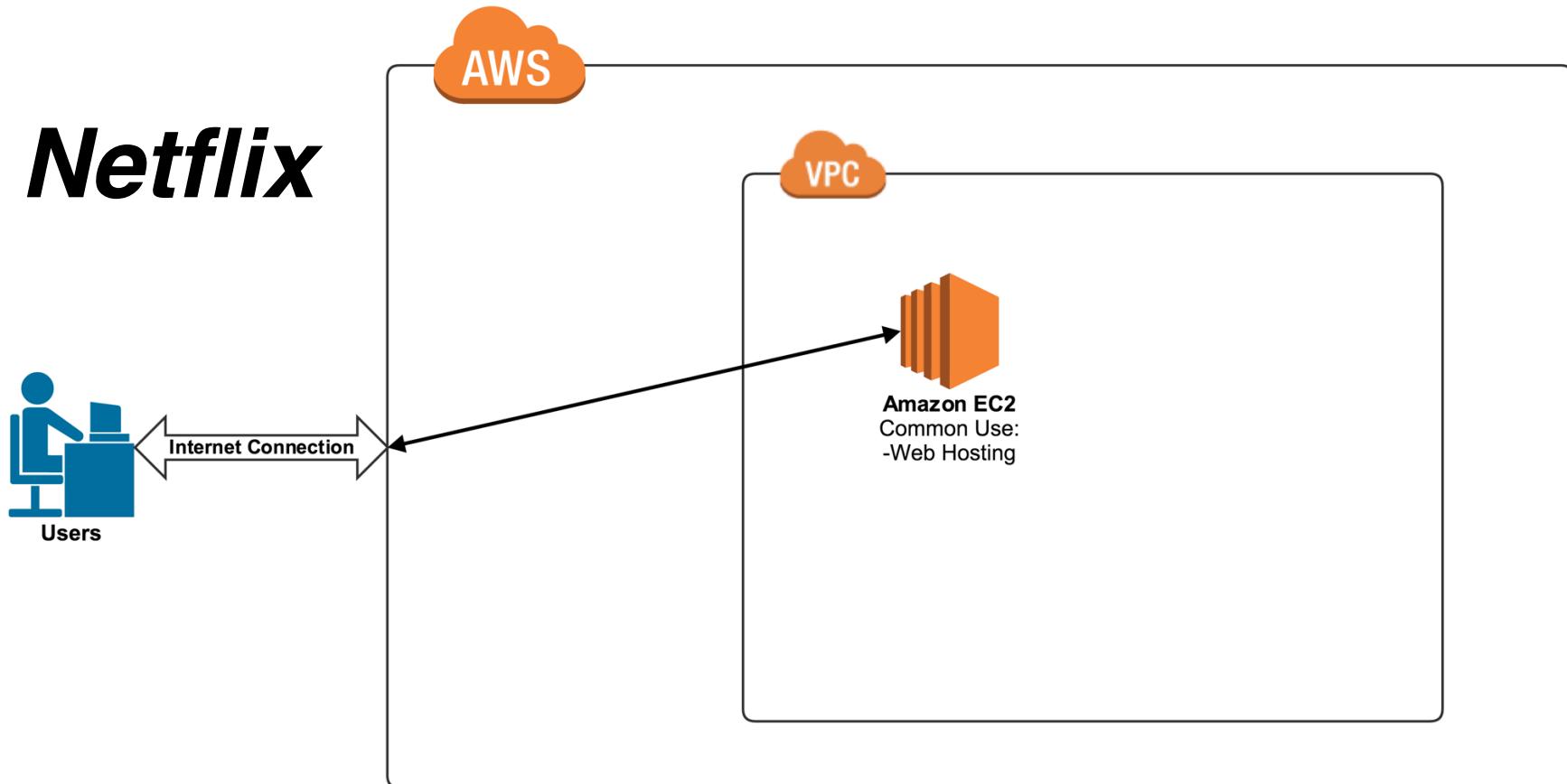


Watch anywhere



Pick your price

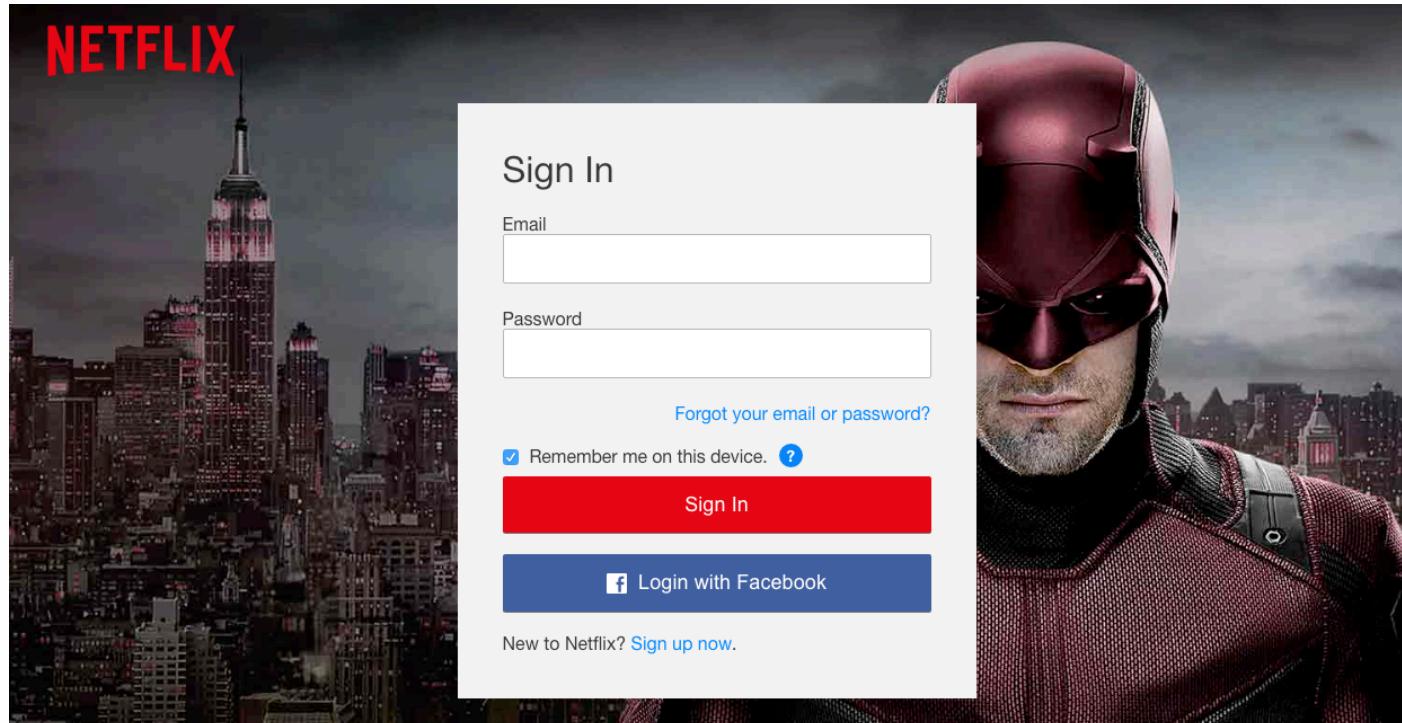
# Netflix



# *Recap:*

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

Cloud Terminology  
#5: "*Instance*"



Questions? Call 1-866-579-7172

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# Amazon Web Services

## Introduction to AWS: EC2

Thank you for watching!



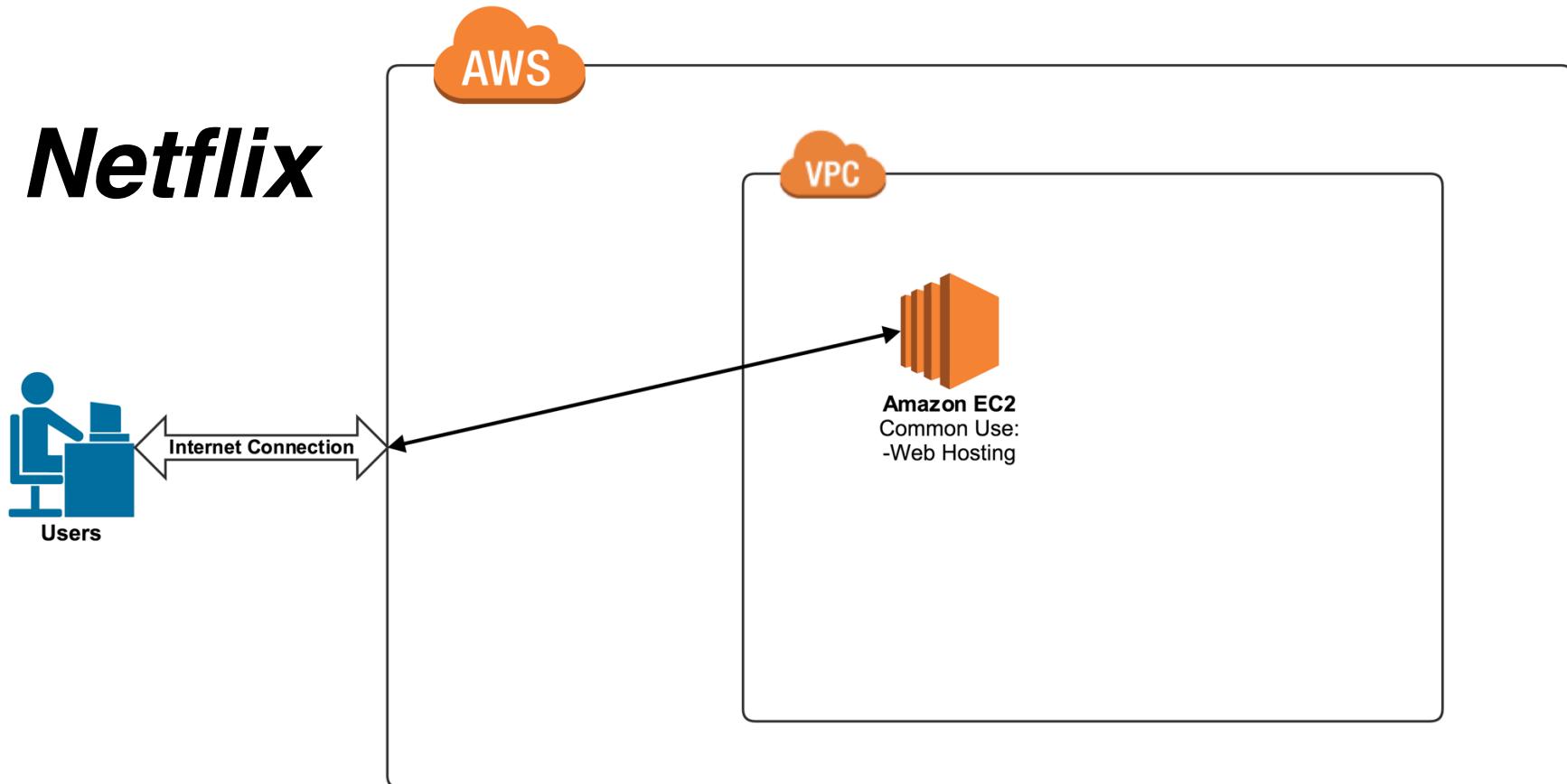
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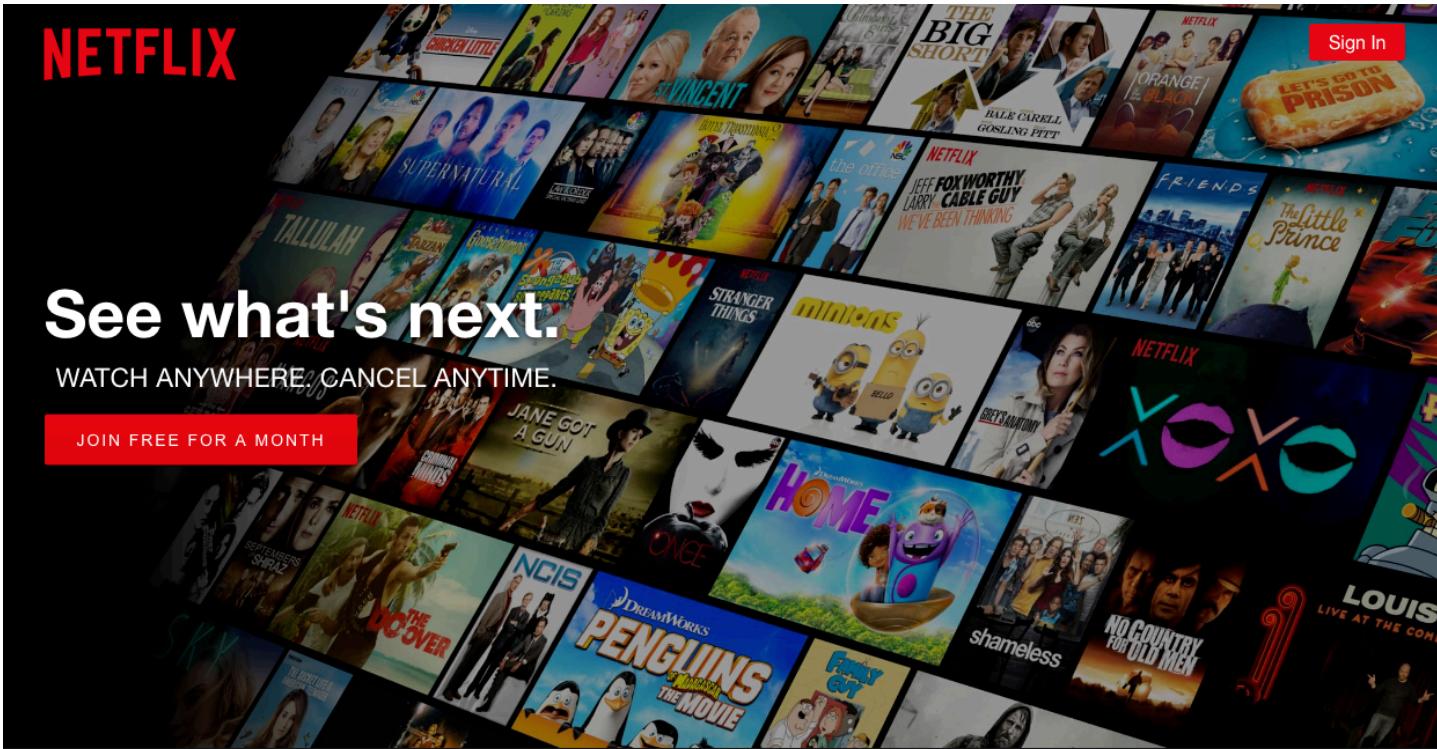
# Amazon Web Services

## Introduction to AWS: RDS

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# Netflix





No commitments

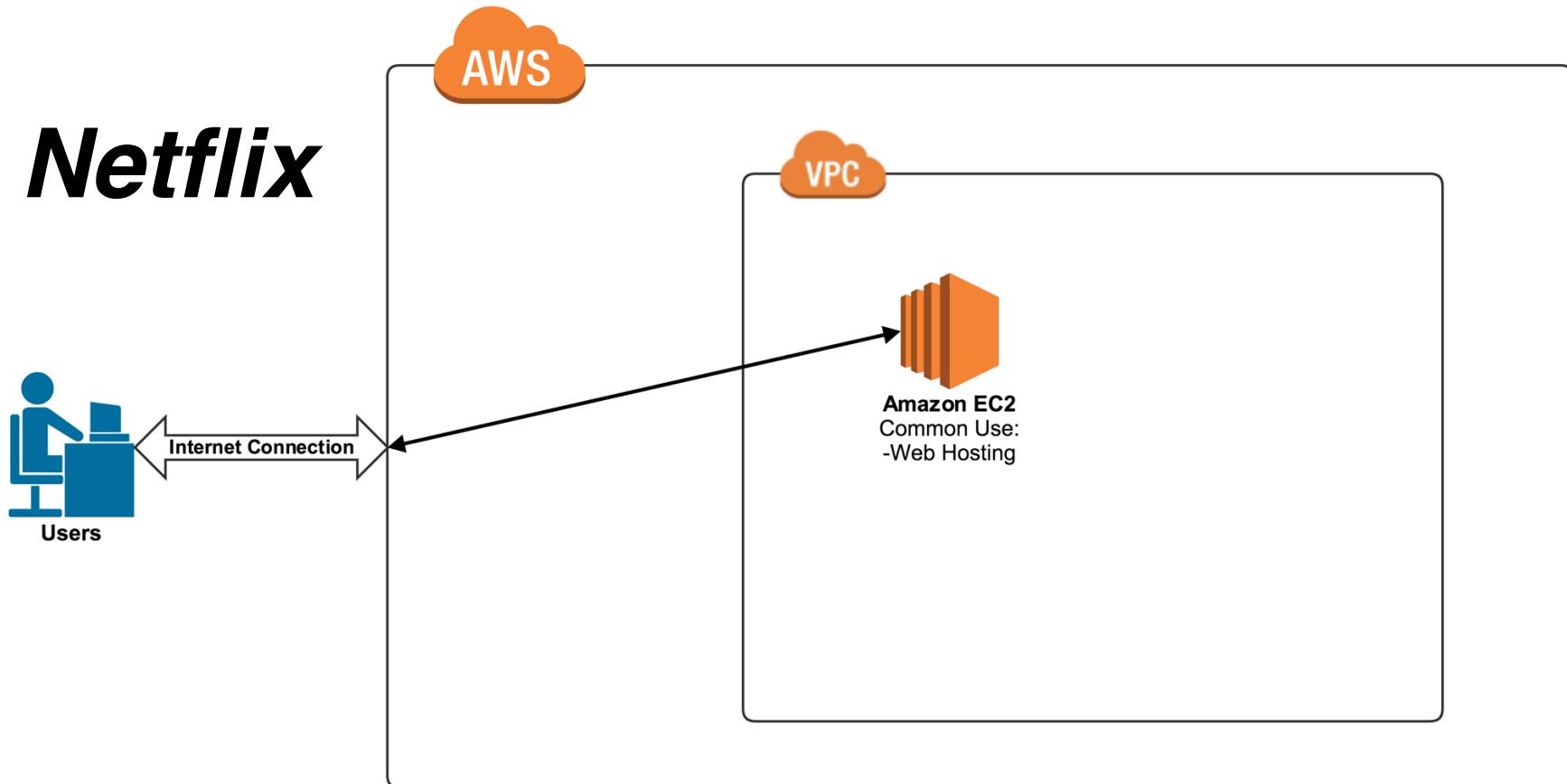


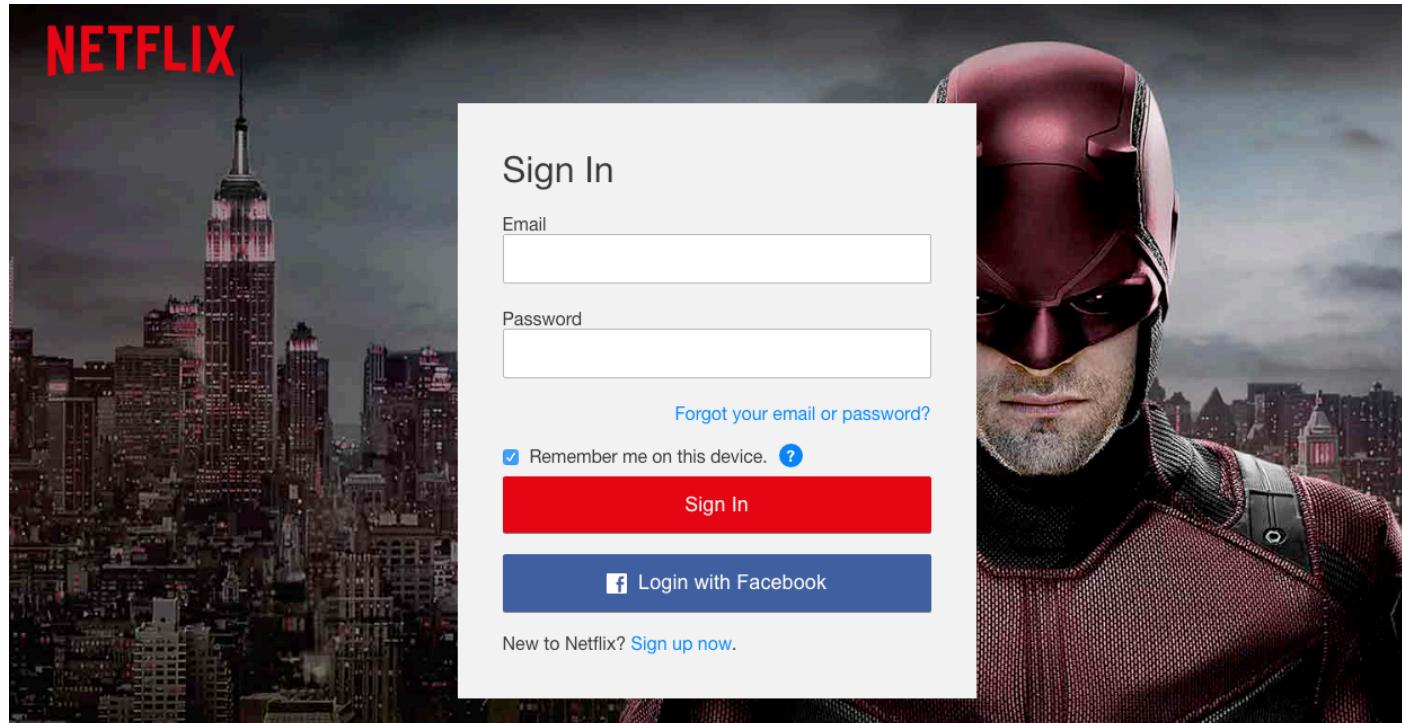
Watch anywhere



Pick your price

# Netflix





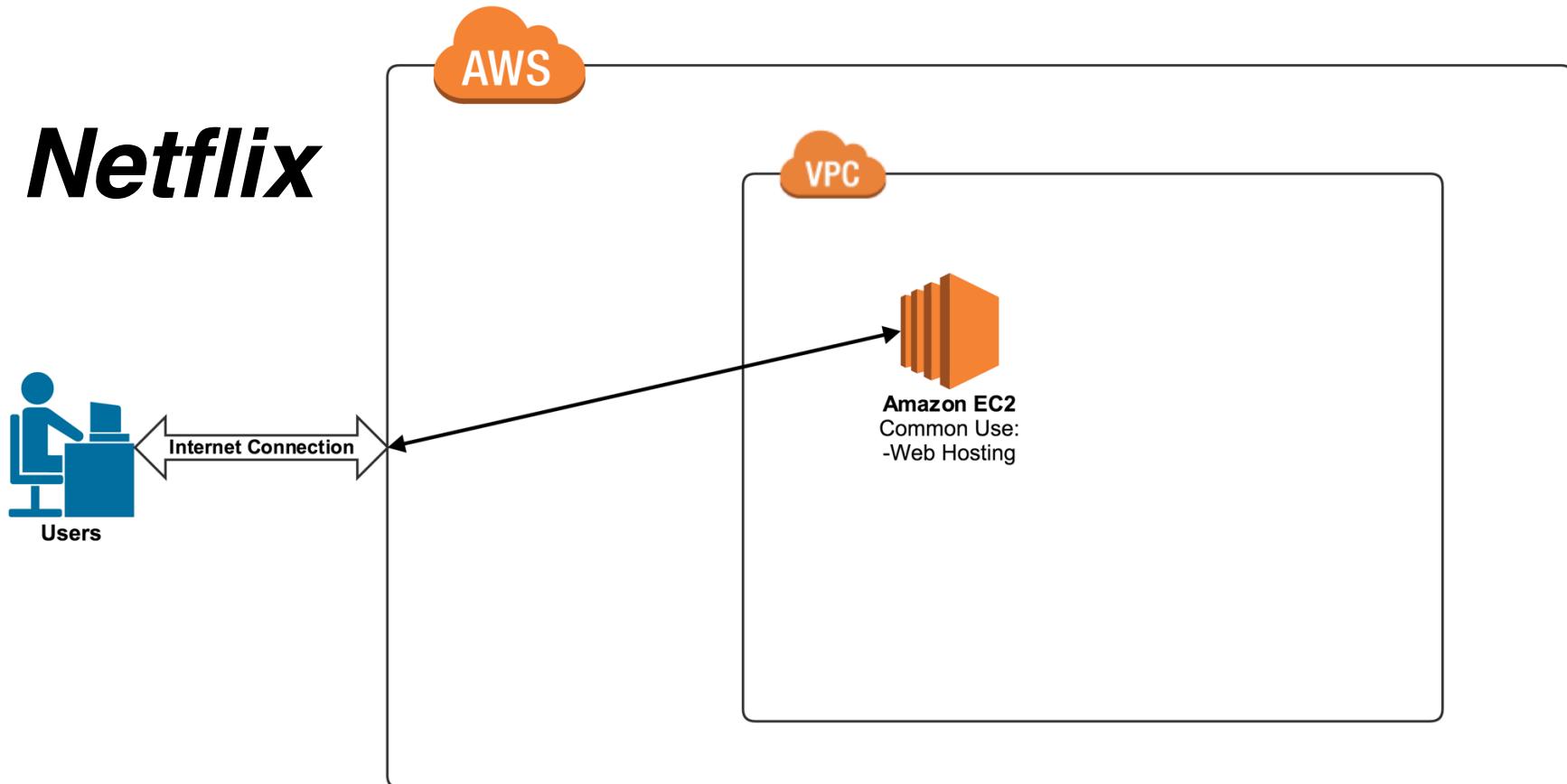
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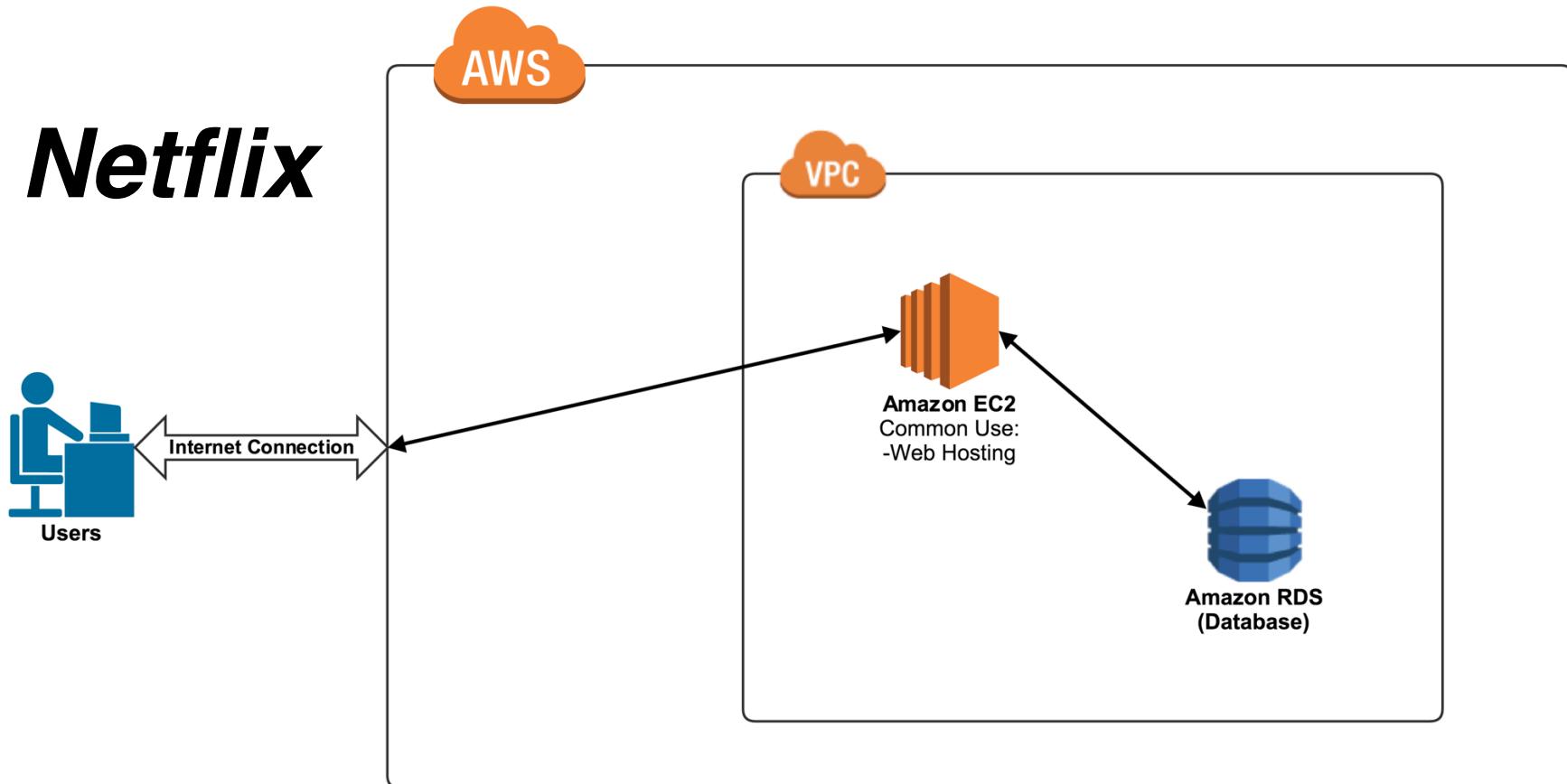
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[Privacy Statement](#)

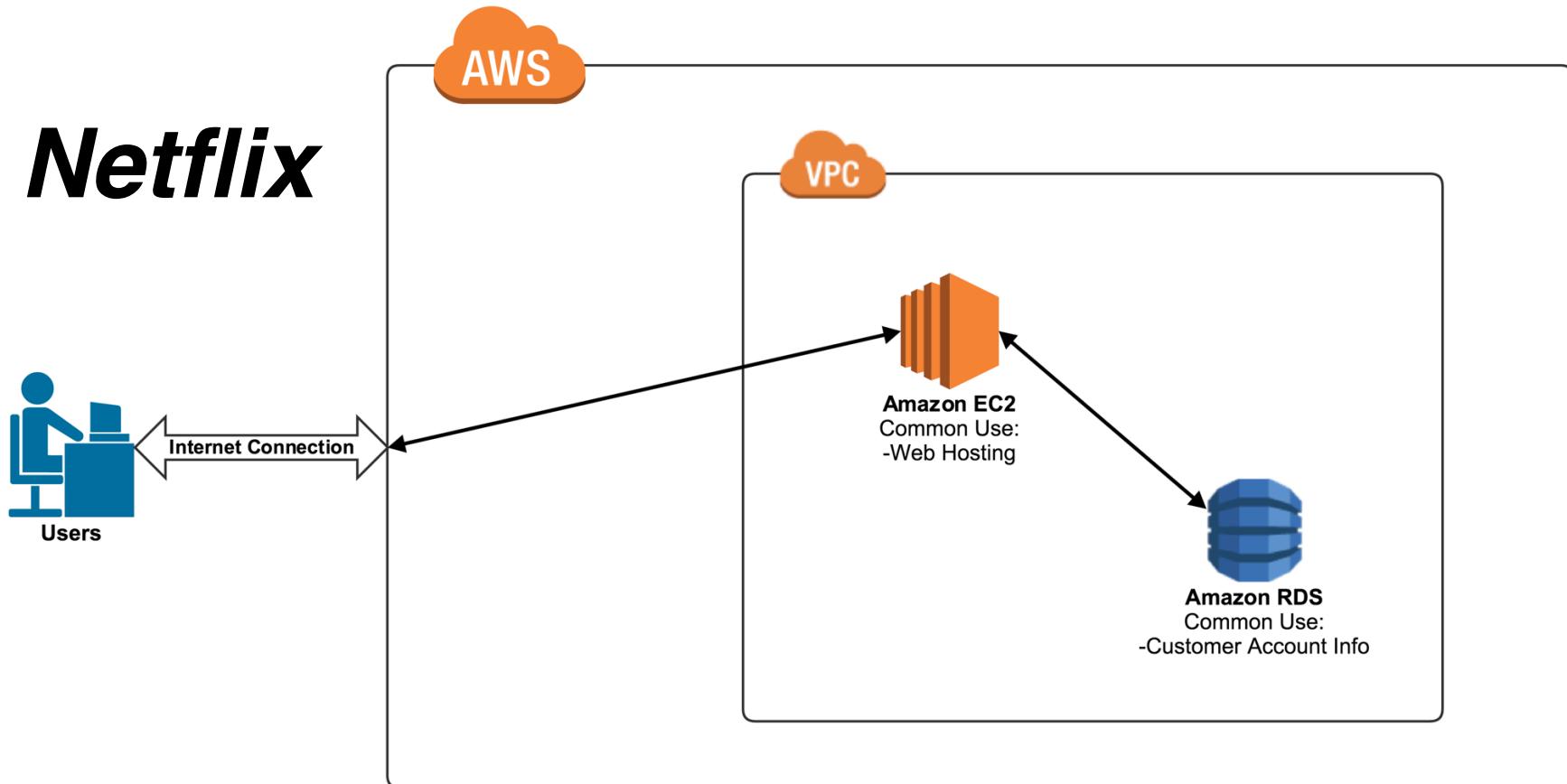
# Netflix



# Netflix



# Netflix





NETFLIX

Browse ▾ DVD

Search

Thomas

3

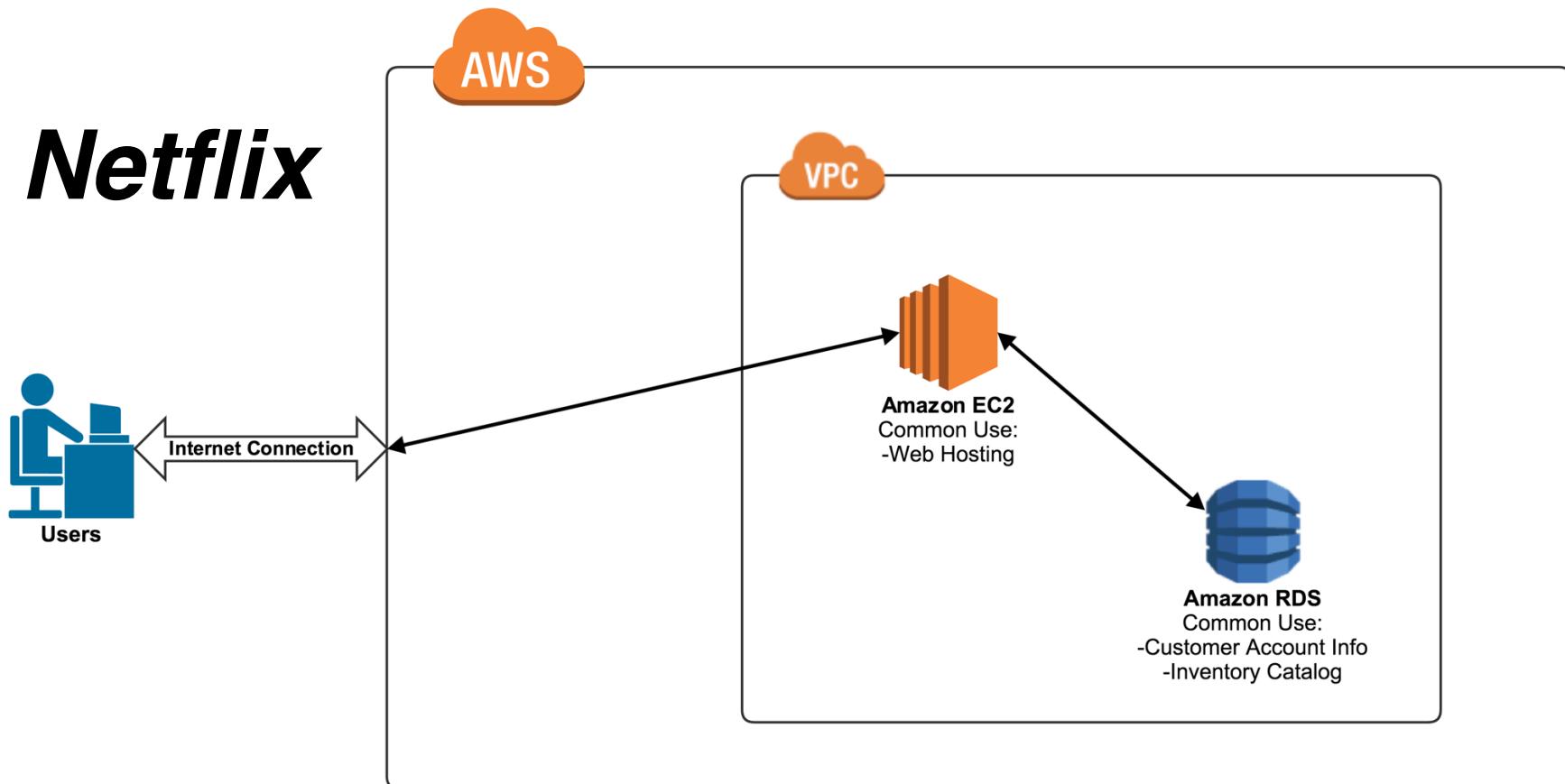
Trending Now

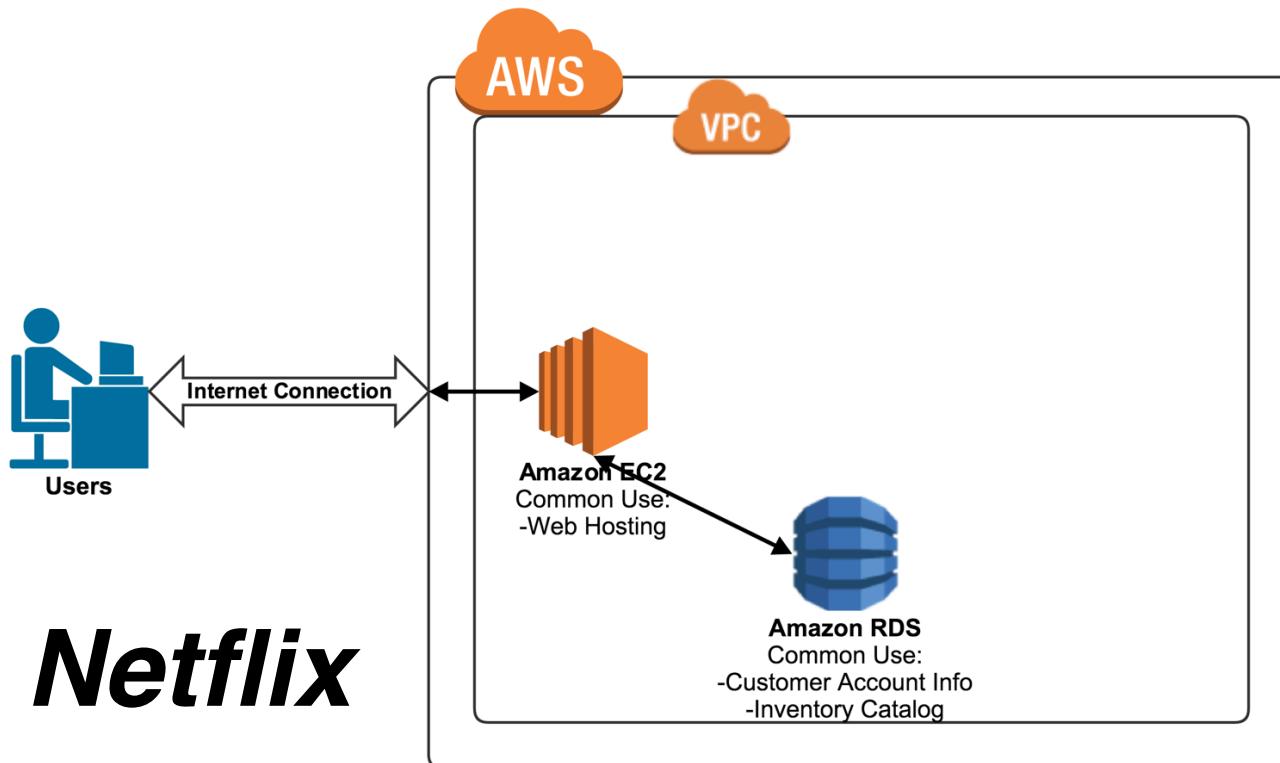
Recently Added

Popular on Netflix

Watch It Again

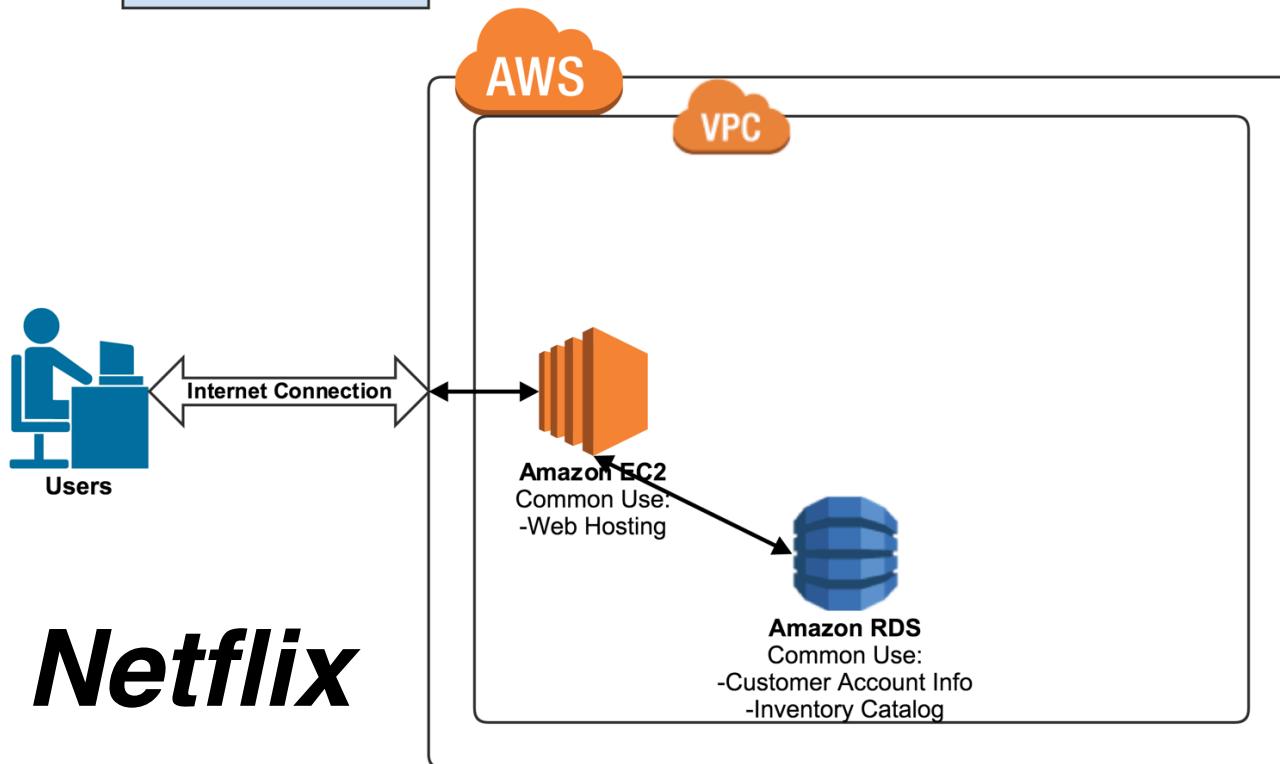
# Netflix





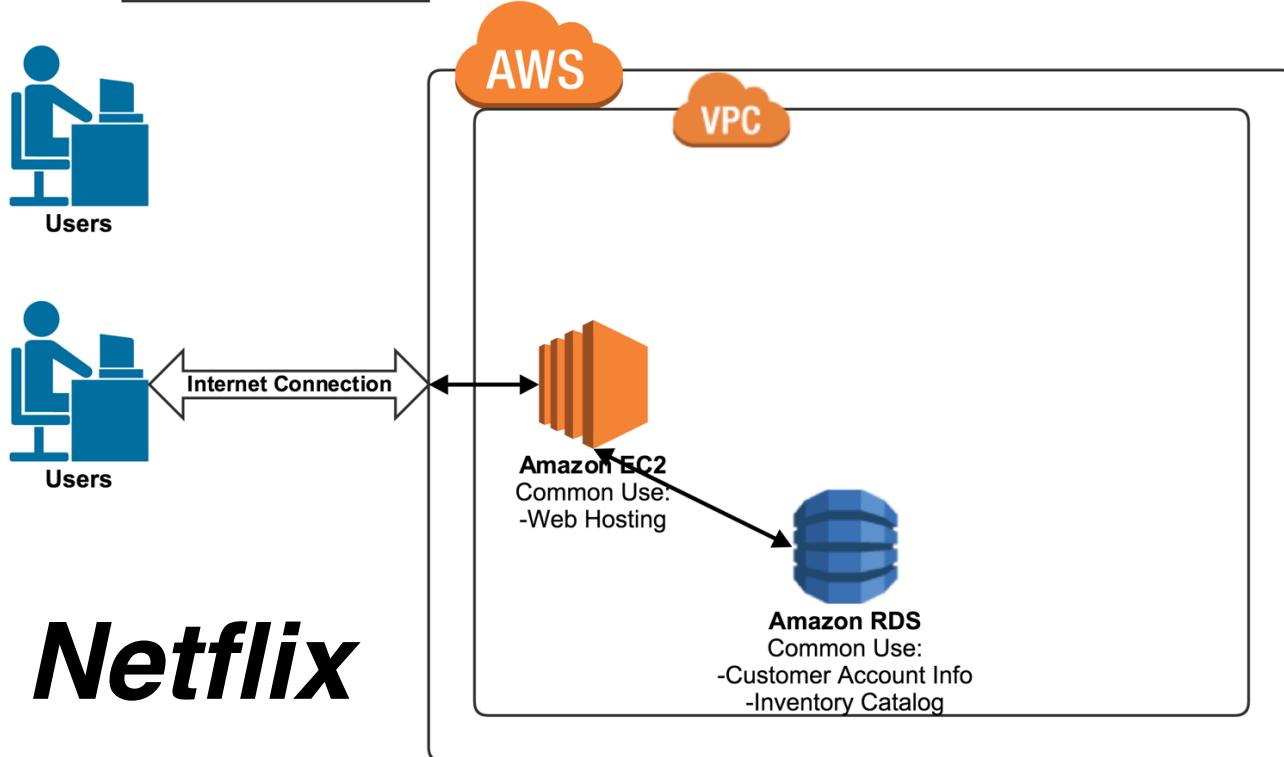
Cloud Terminology  
#3: ***Scalability***

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



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

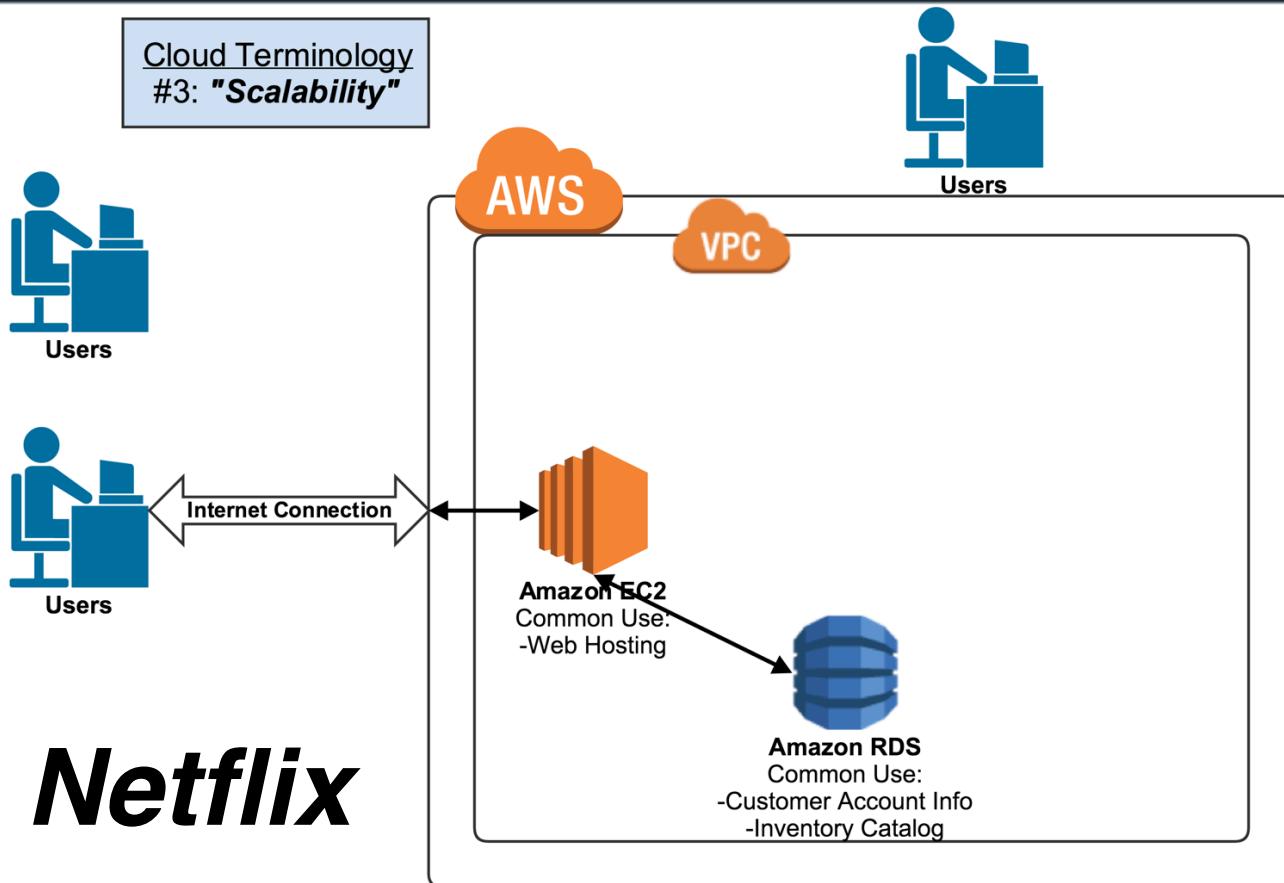
Cloud Terminology  
#4: ***Elasticity***





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

Cloud Terminology  
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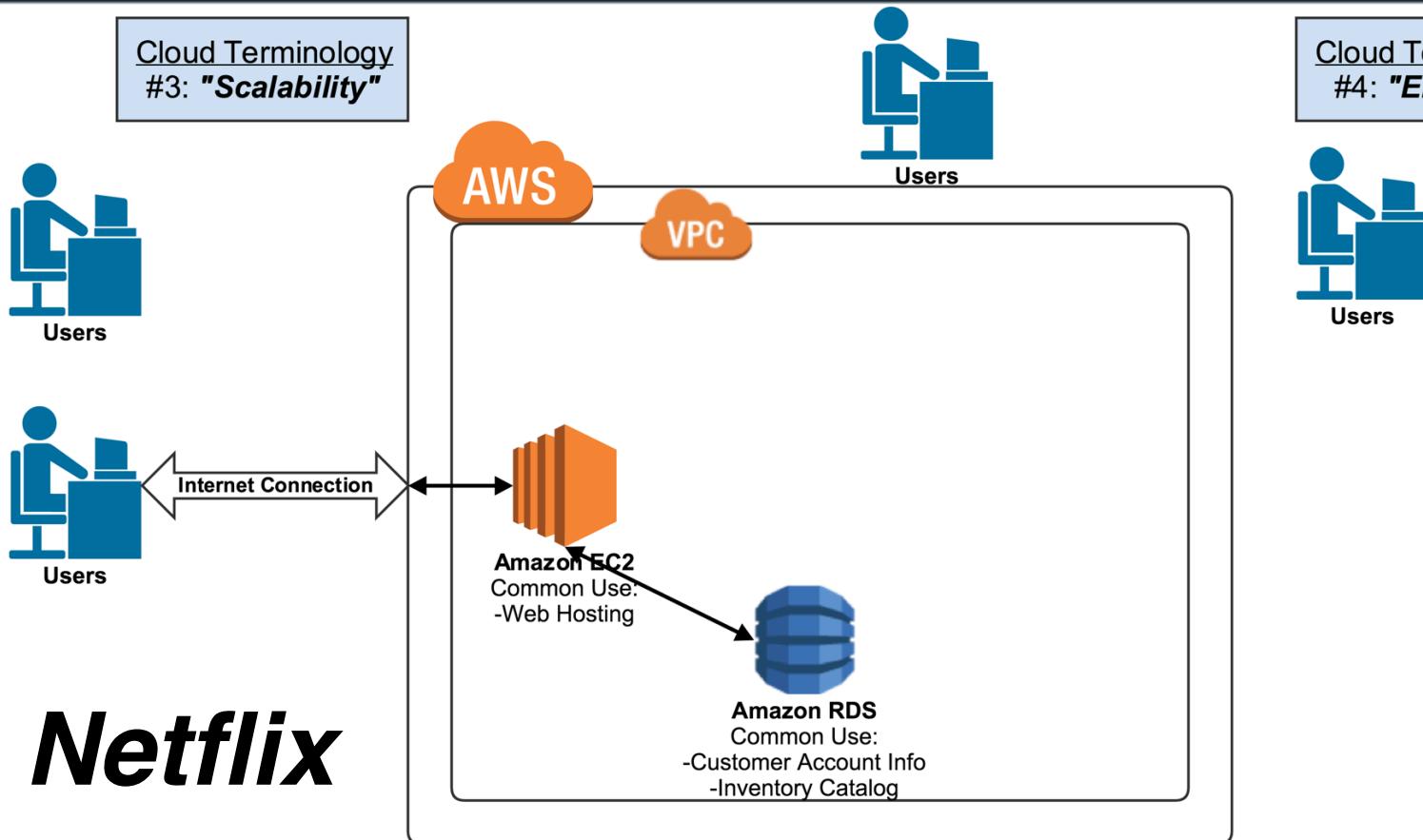


# Netflix



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

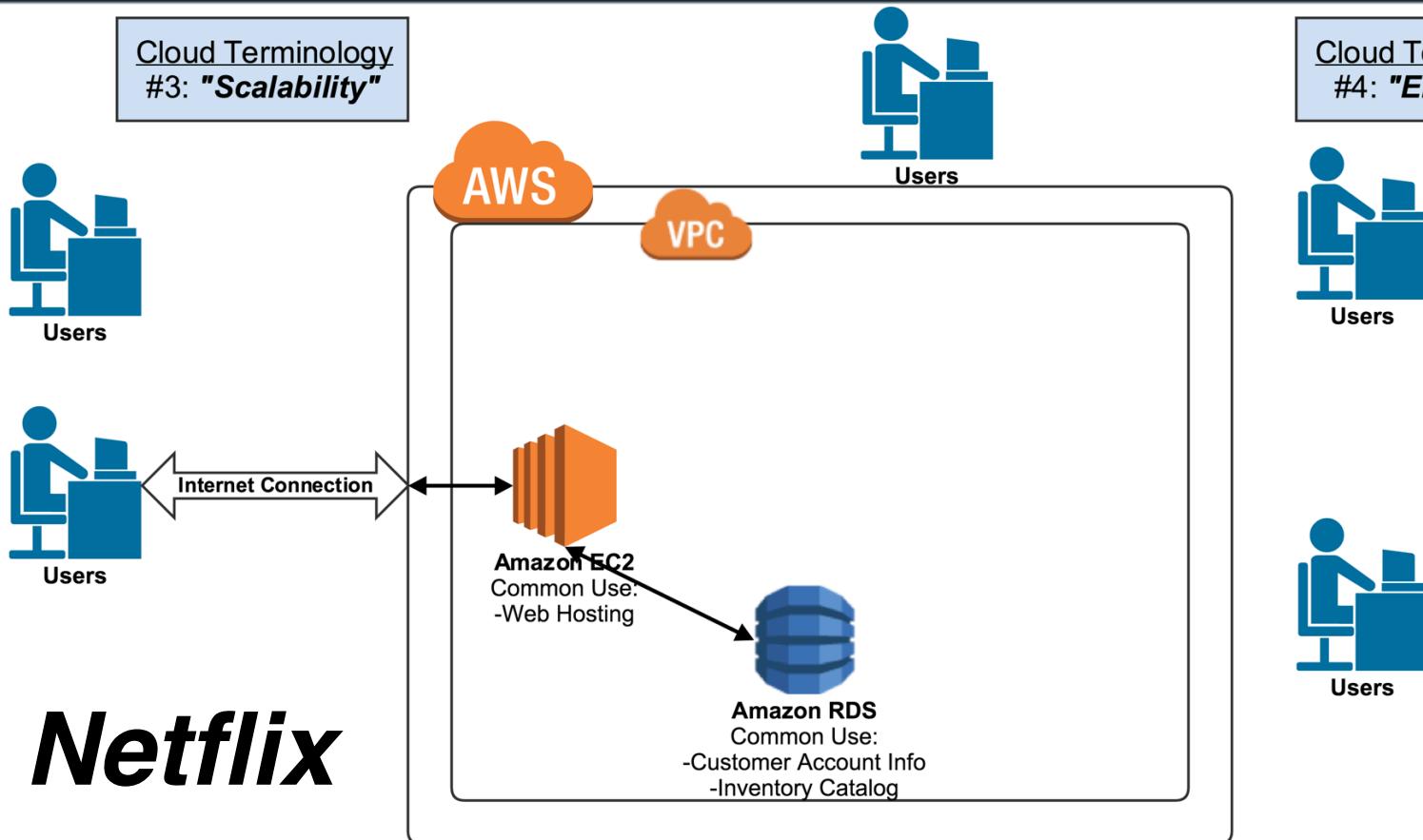
Cloud Terminology  
#4: ***Elasticity***





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

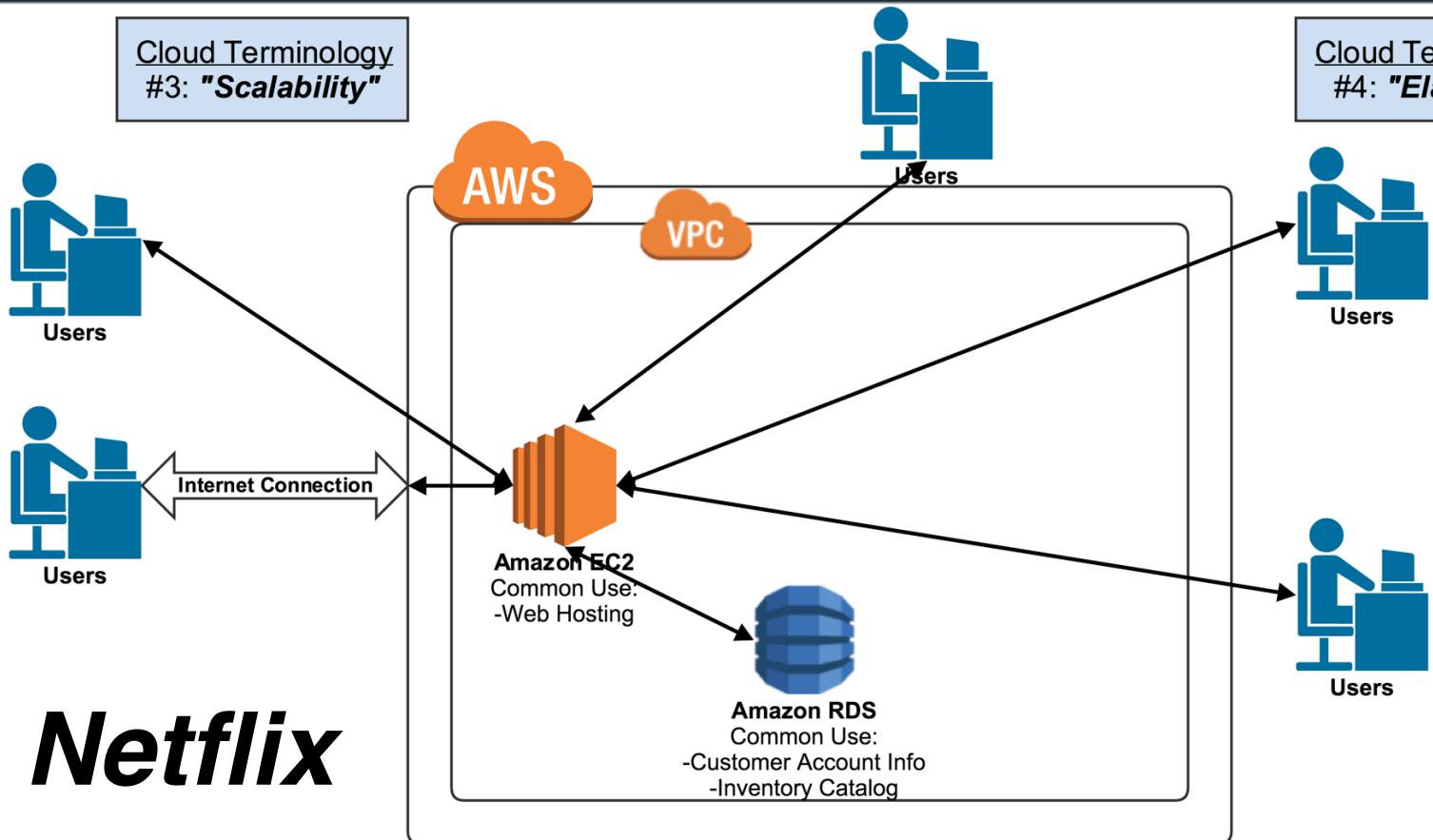
Cloud Terminology  
#4: **"Elasticity"**





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

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

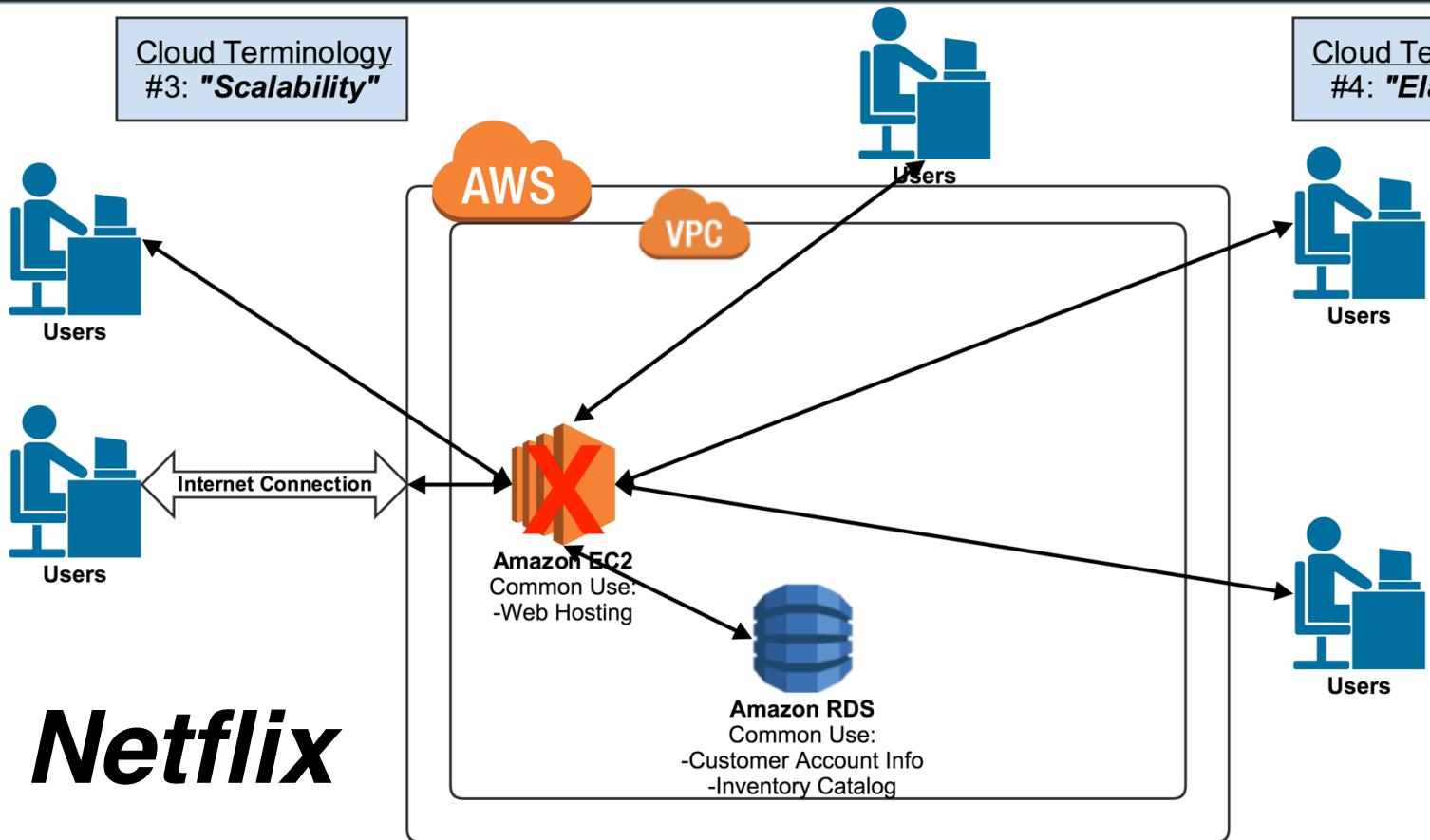


# Netflix



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

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

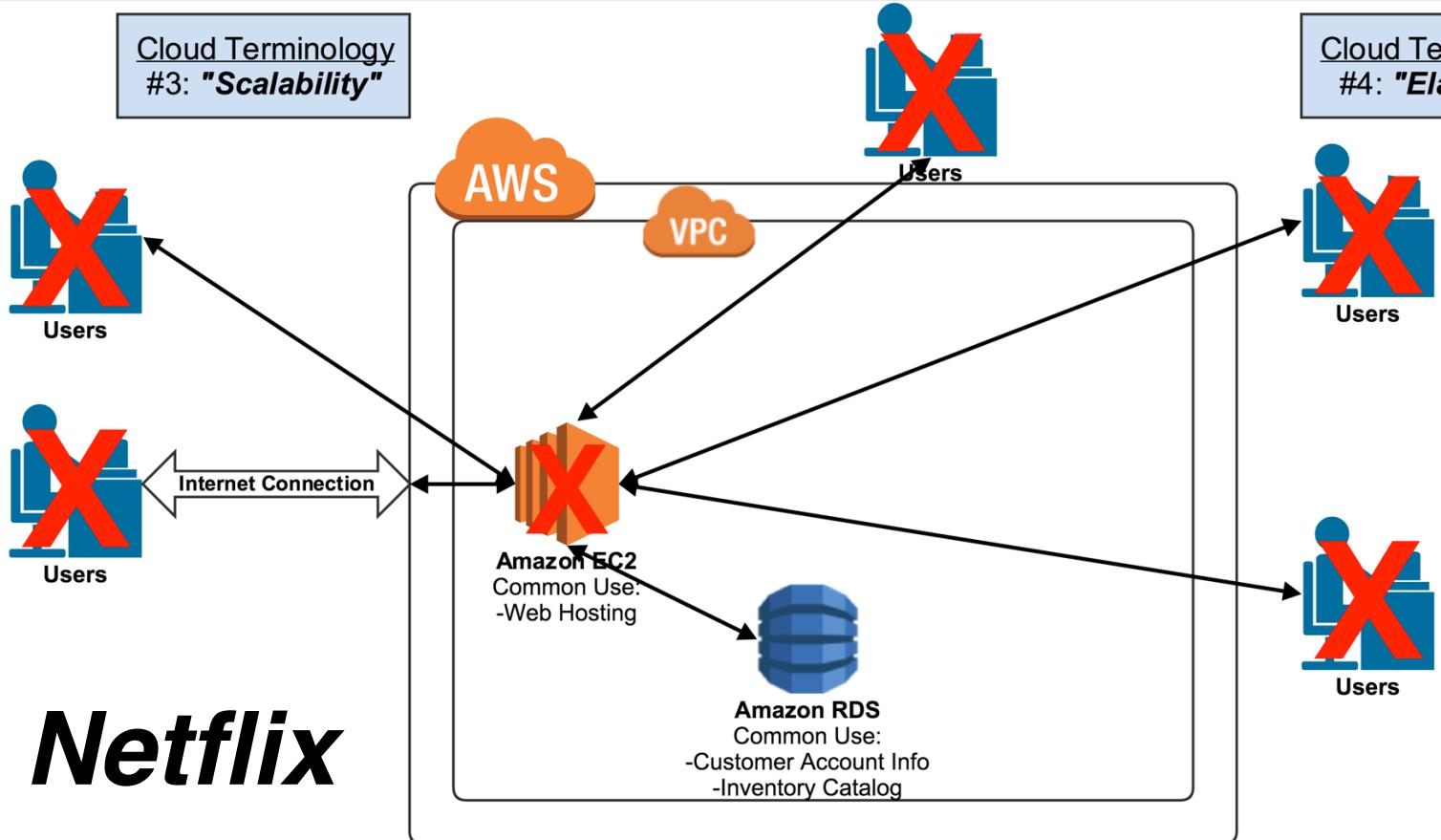


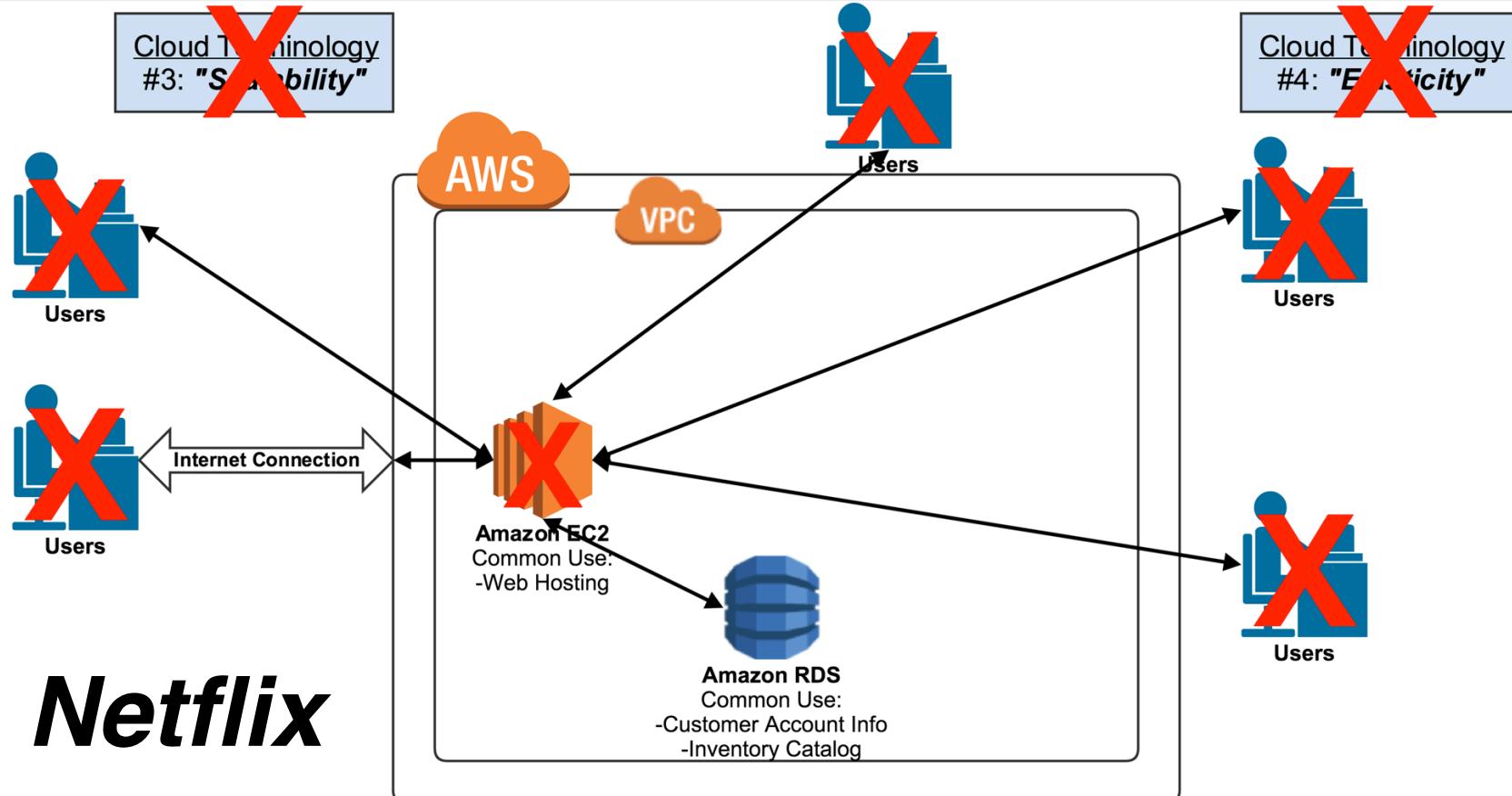
# Netflix



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

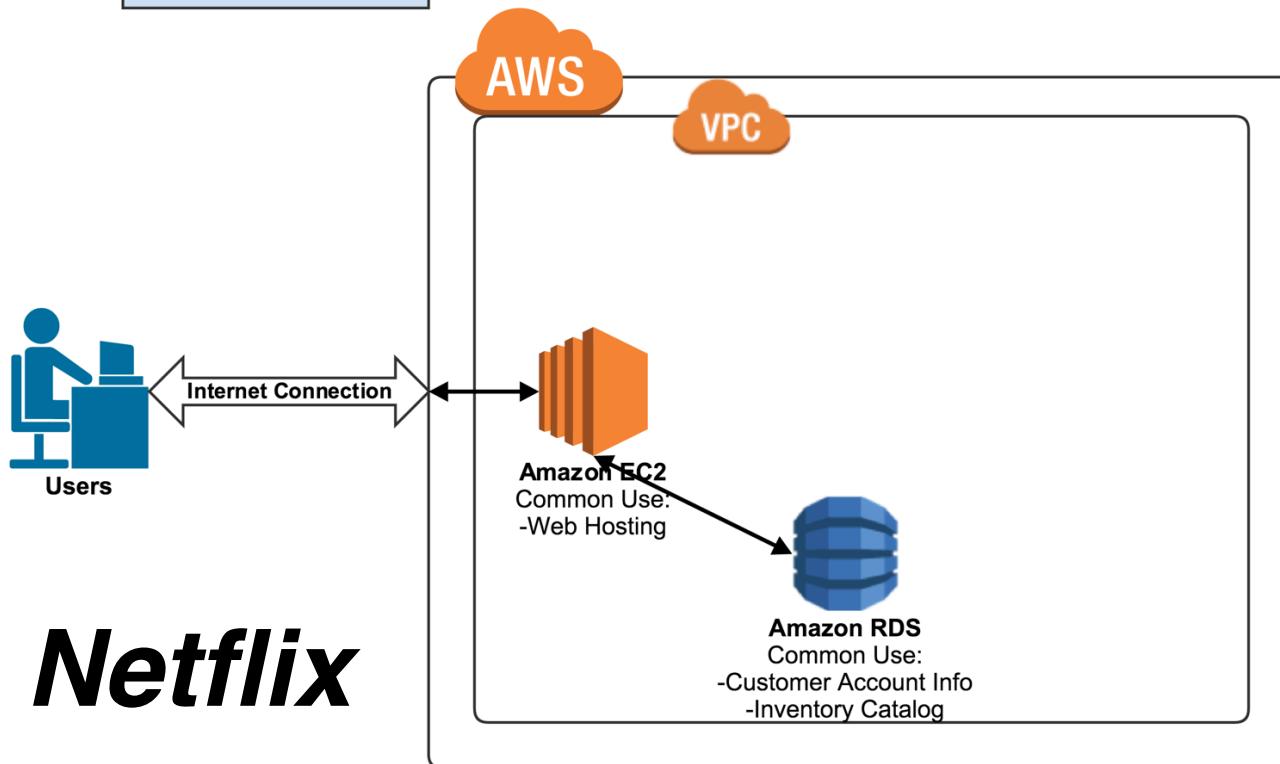
Cloud Terminology  
#4: **"Elasticity"**





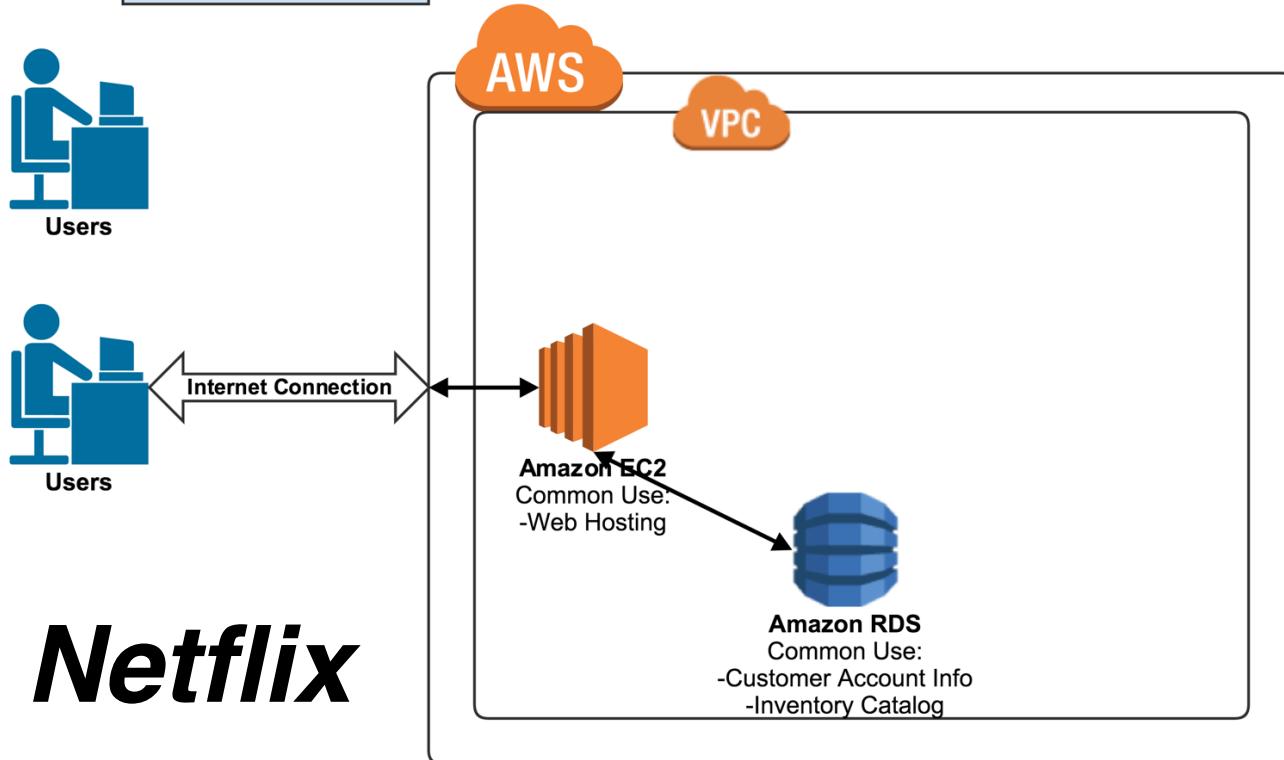
Cloud Terminology  
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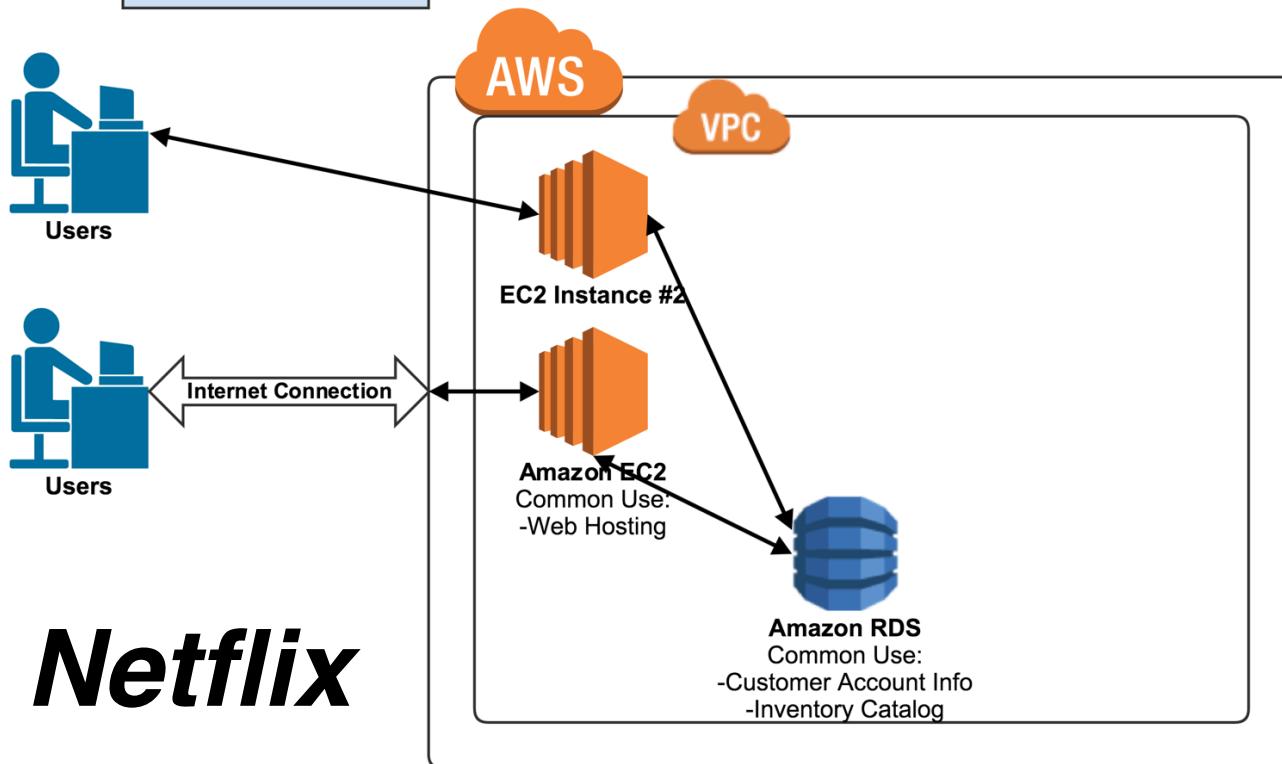
Cloud Terminology  
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#4: ***Elasticity***



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

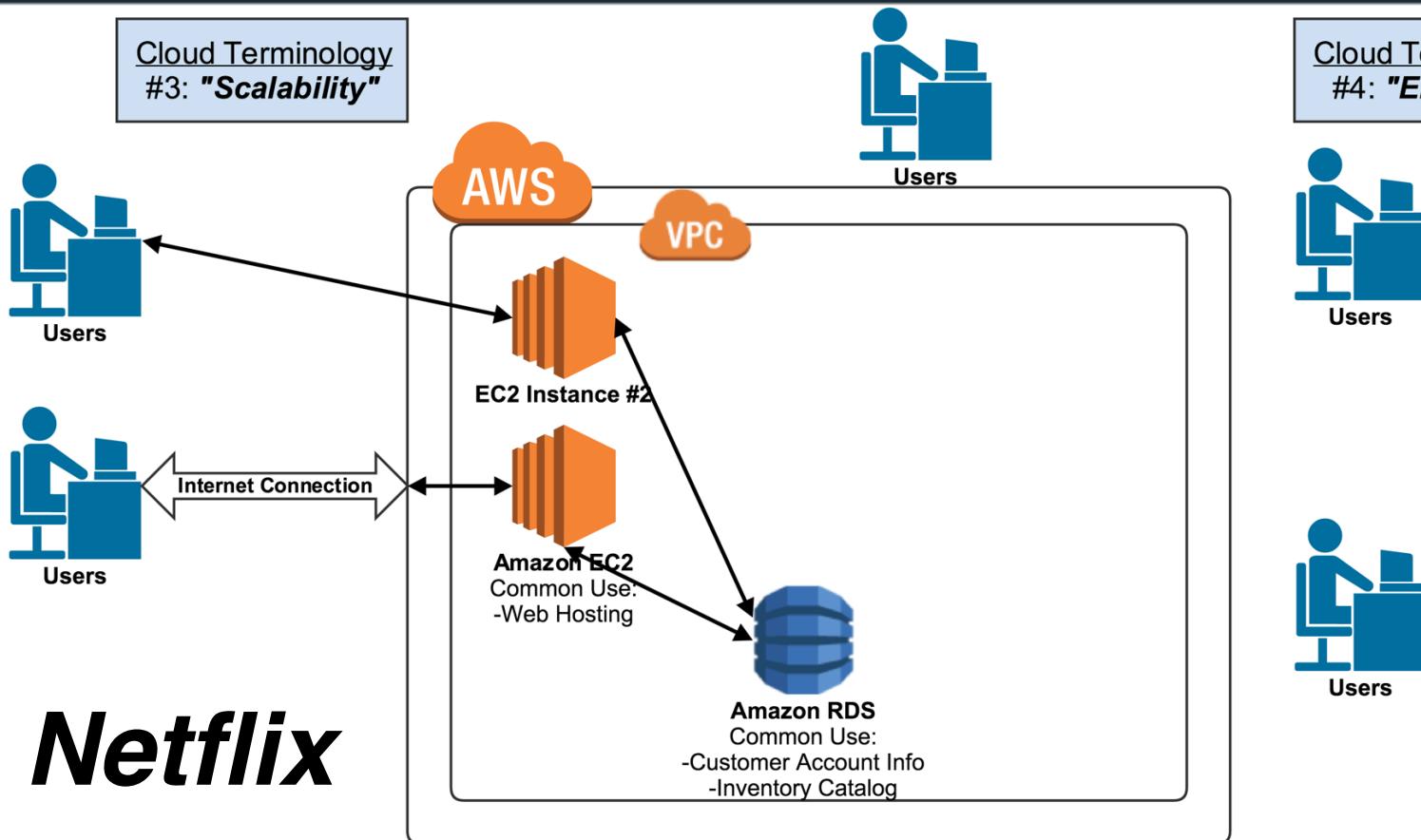
Cloud Terminology  
#4: ***Elasticity***





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

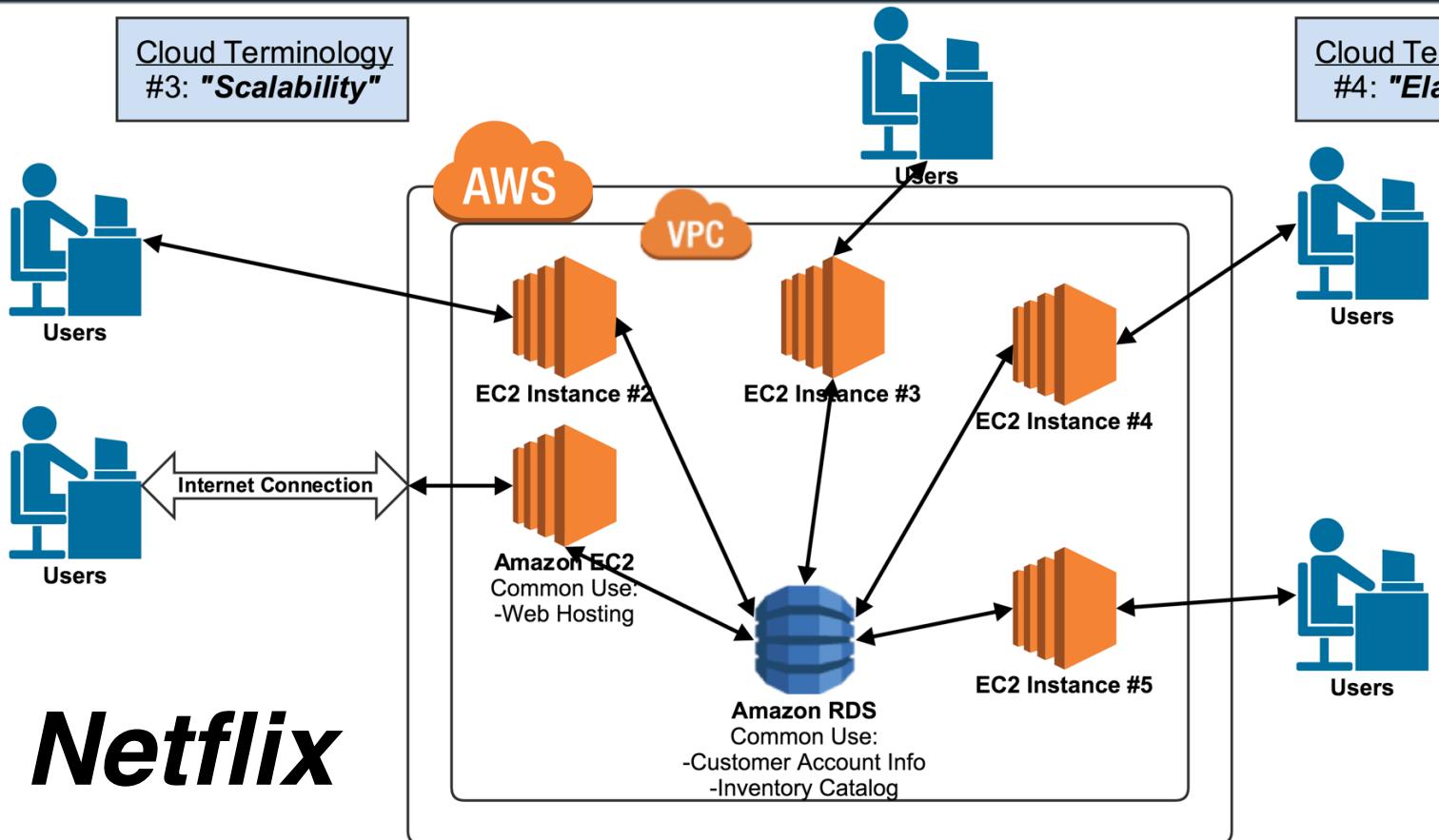
Cloud Terminology  
#4: **"Elasticity"**





Cloud Terminology  
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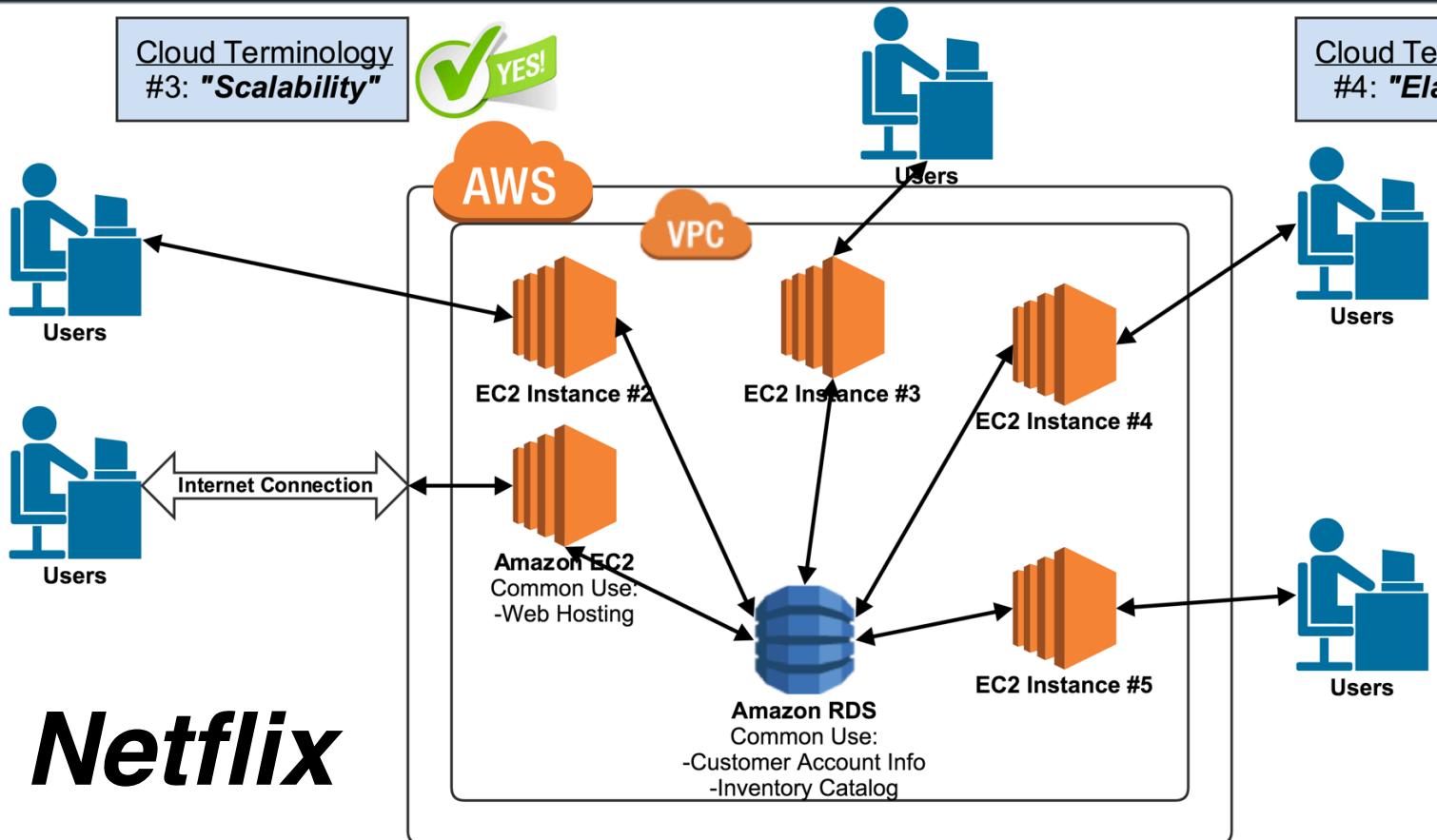
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Cloud Terminology  
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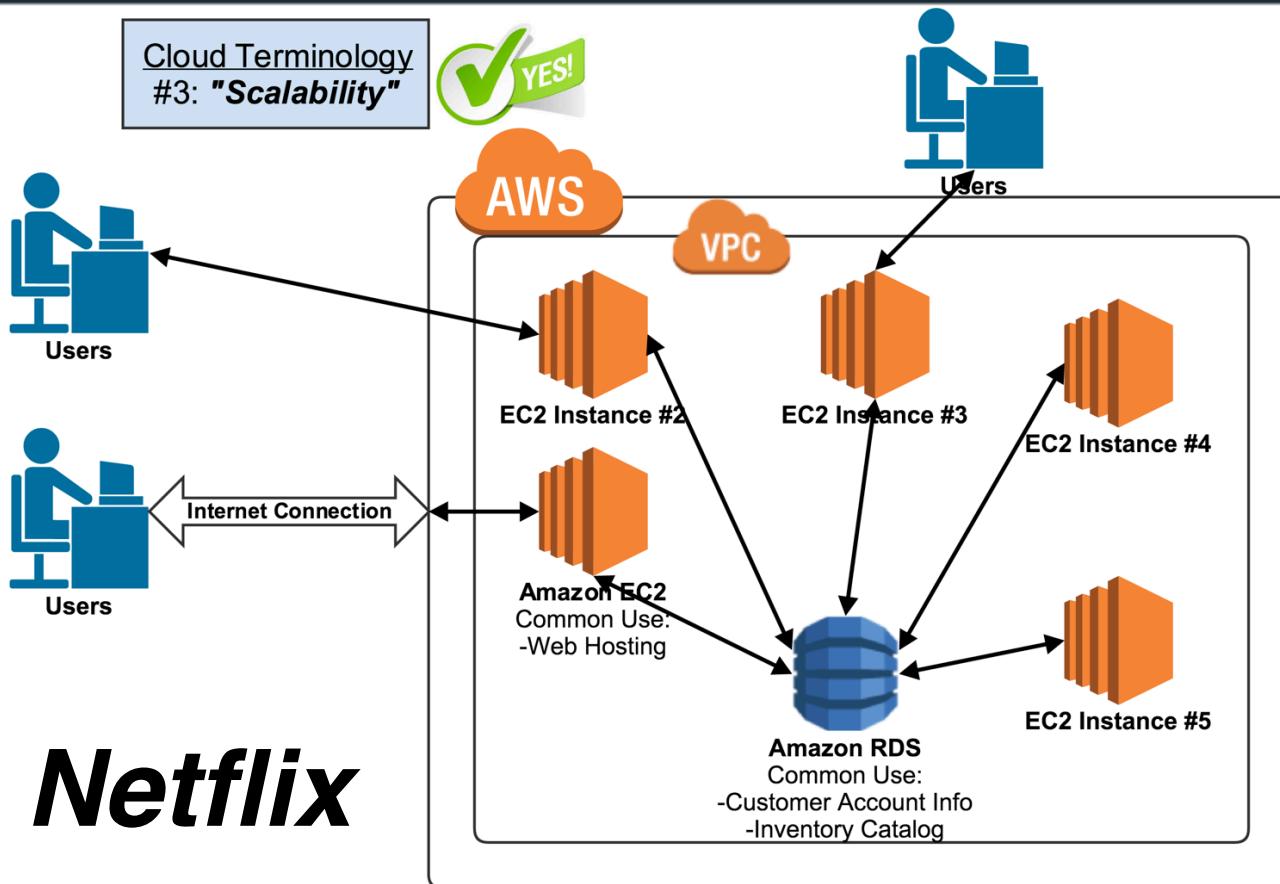




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Cloud Terminology  
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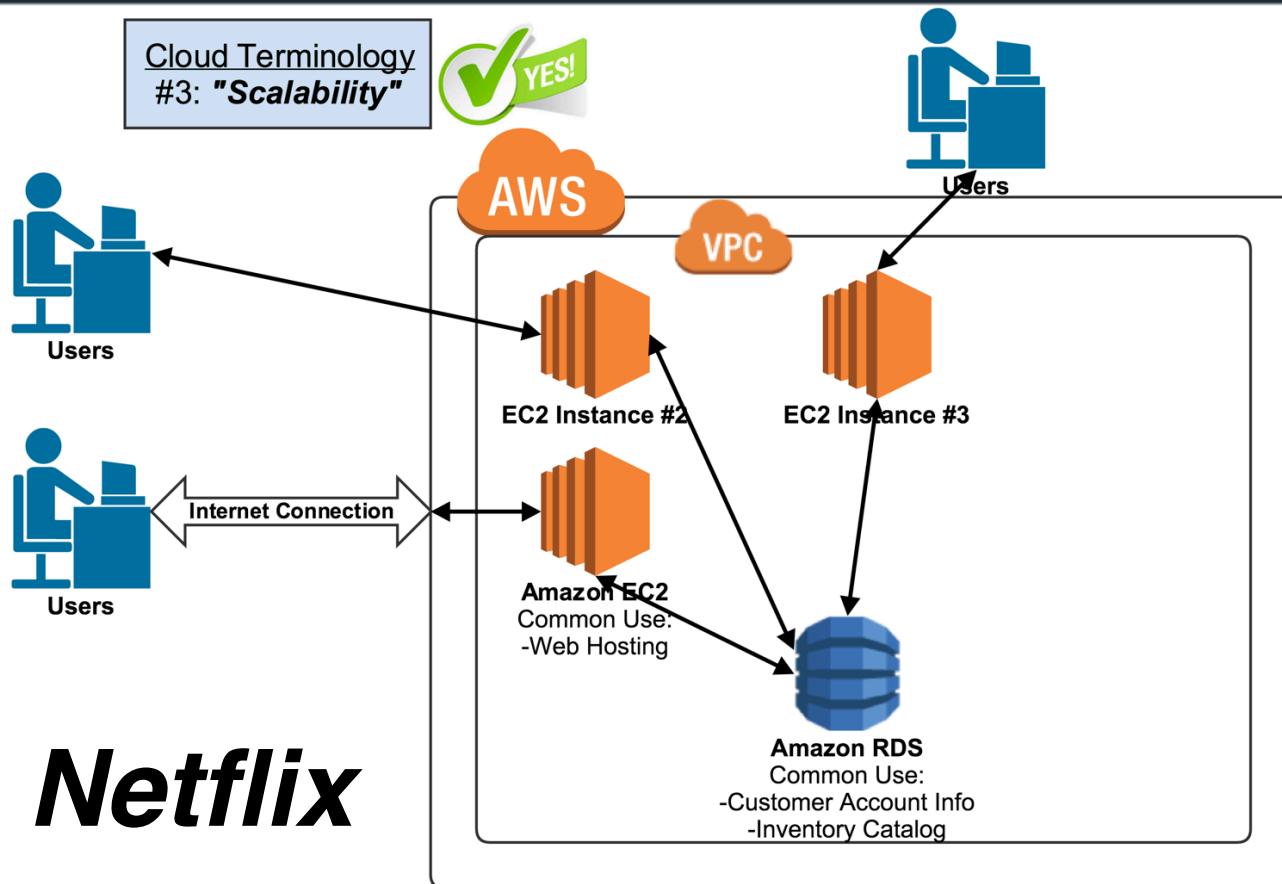




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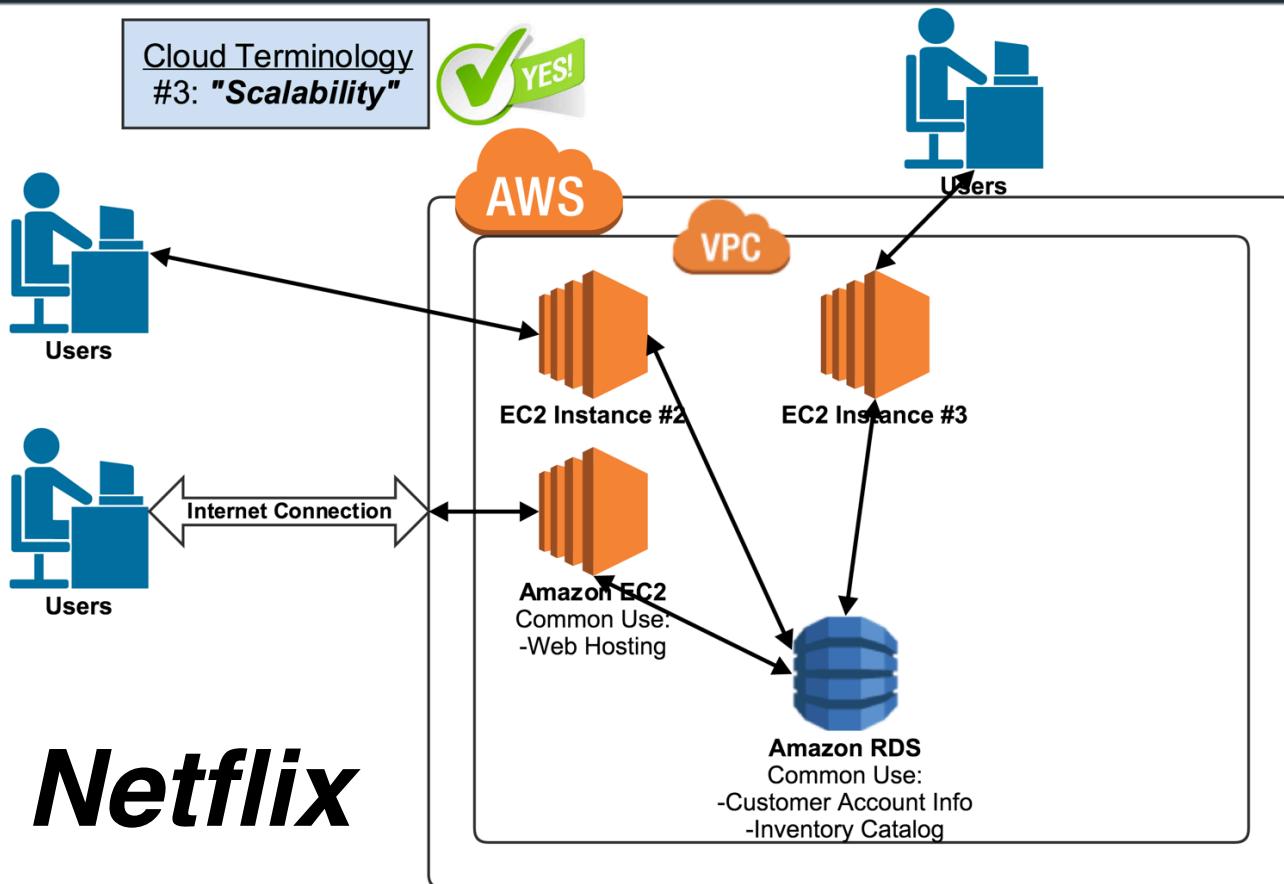




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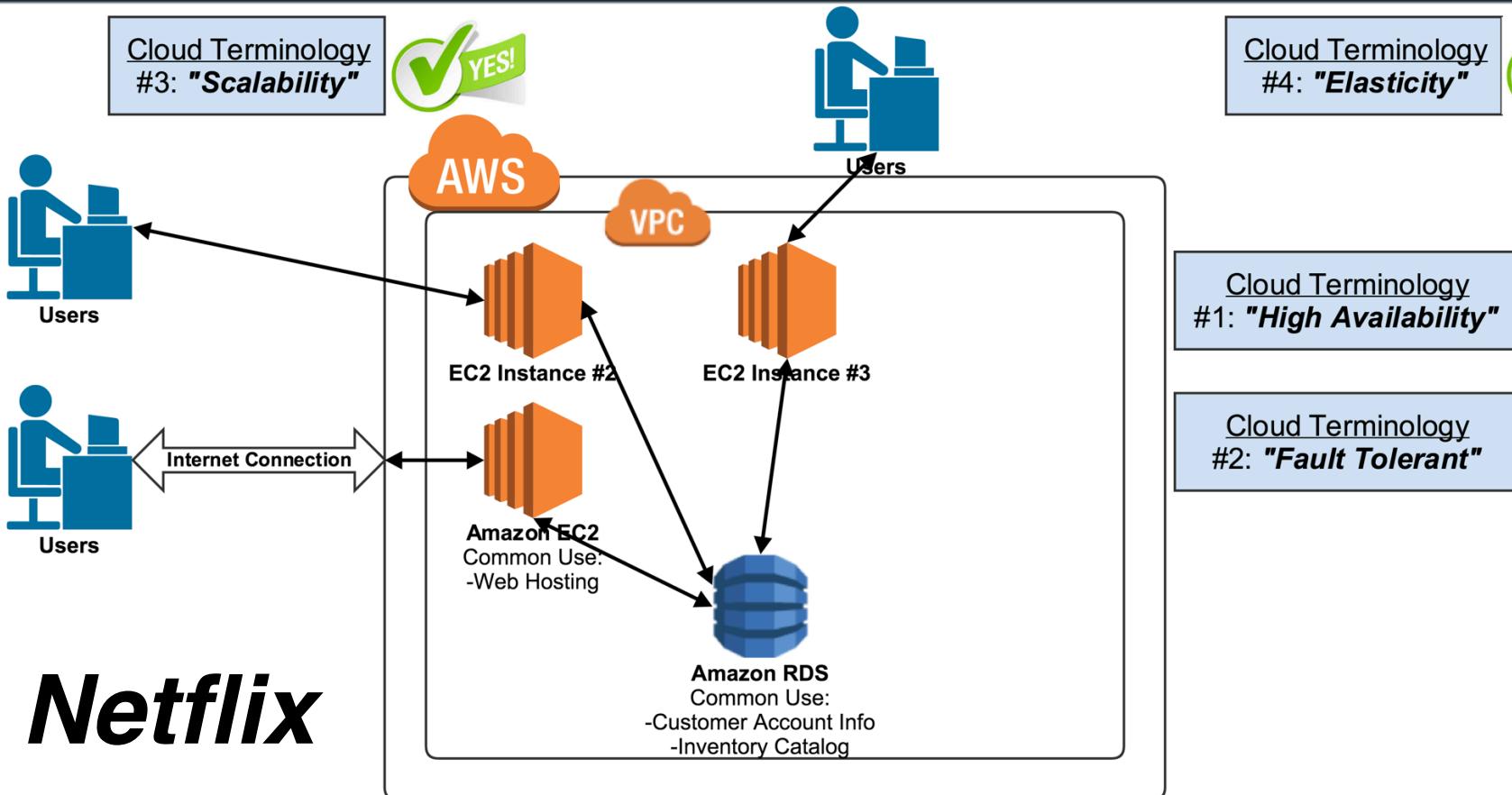




Cloud Terminology  
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Cloud Terminology  
#4: **"Elasticity"**

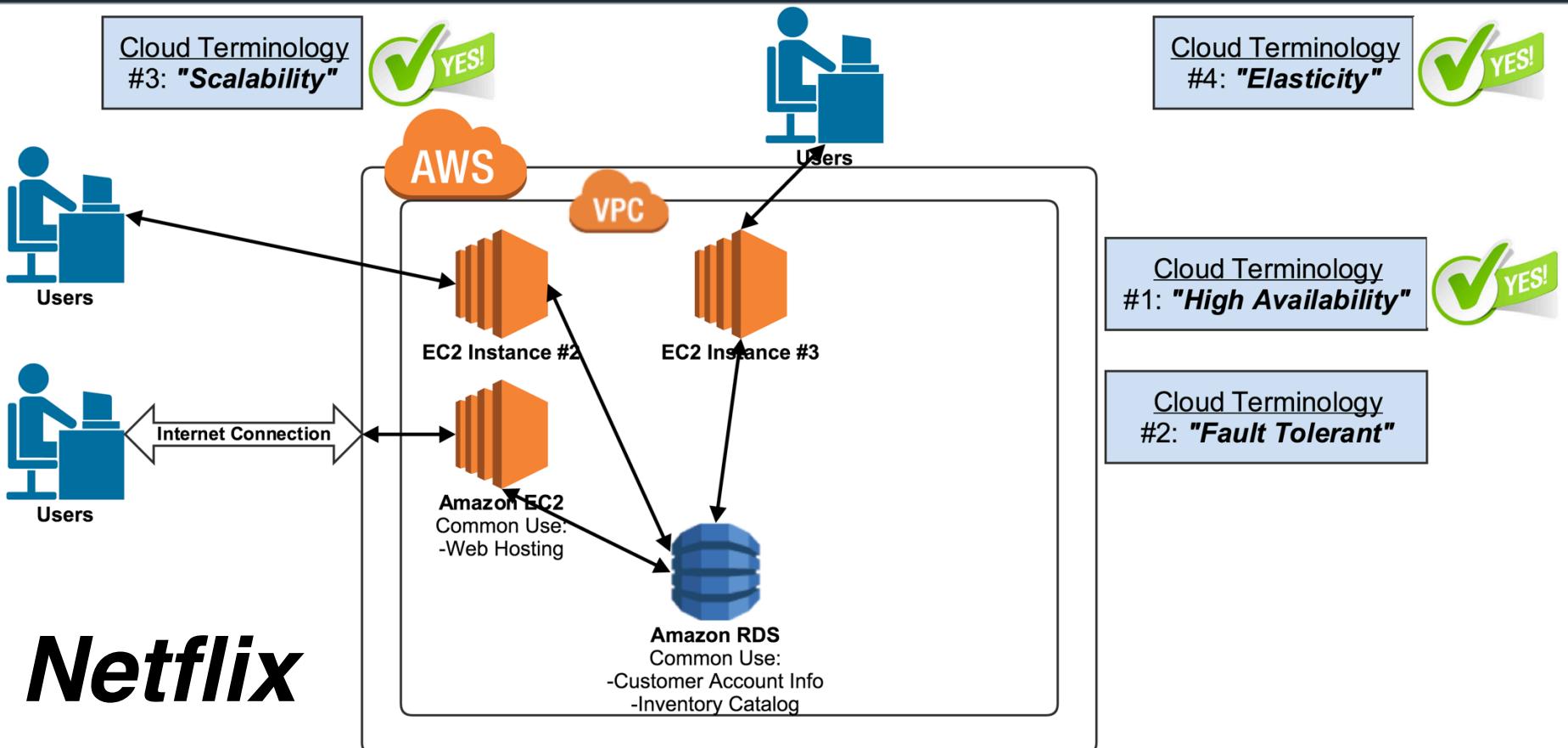


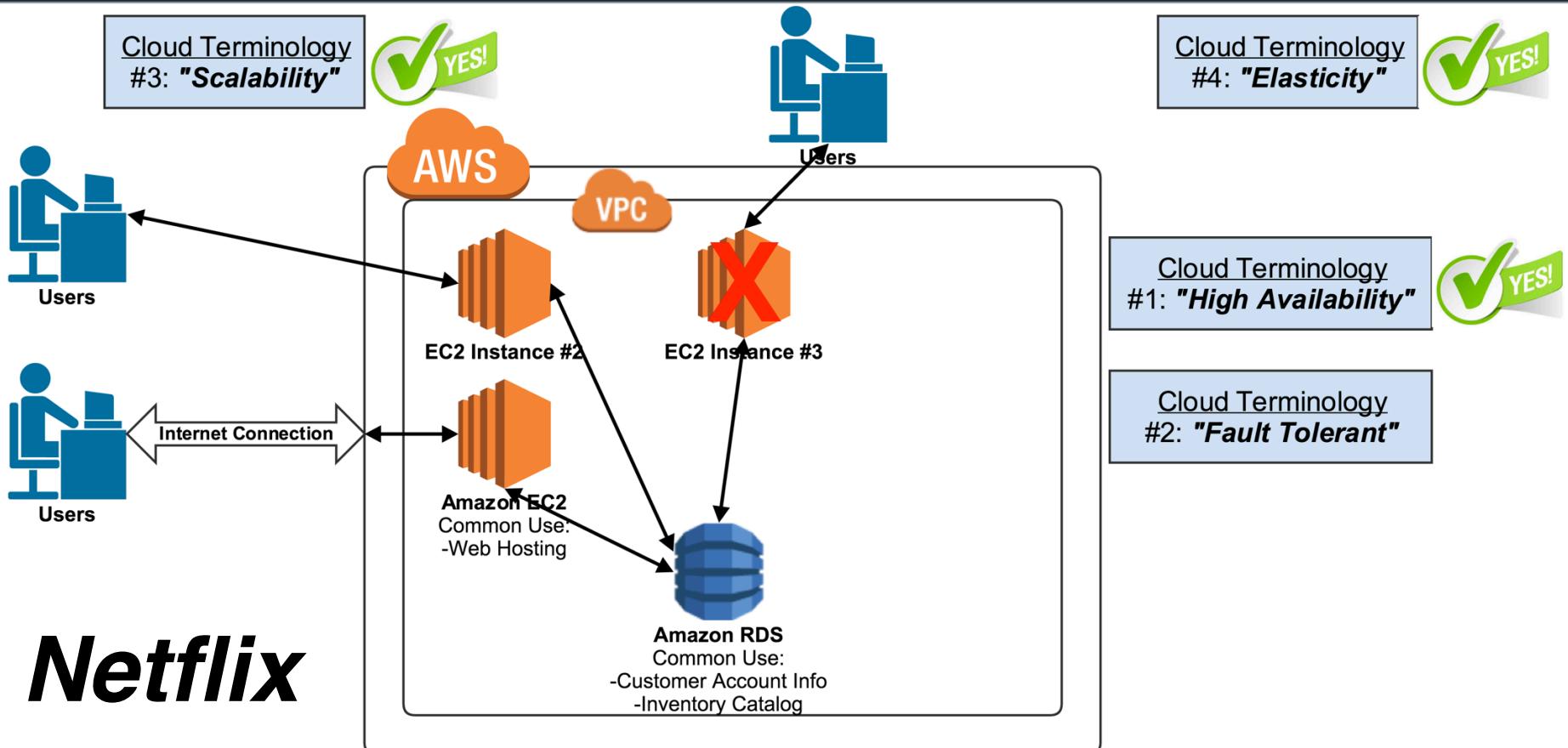


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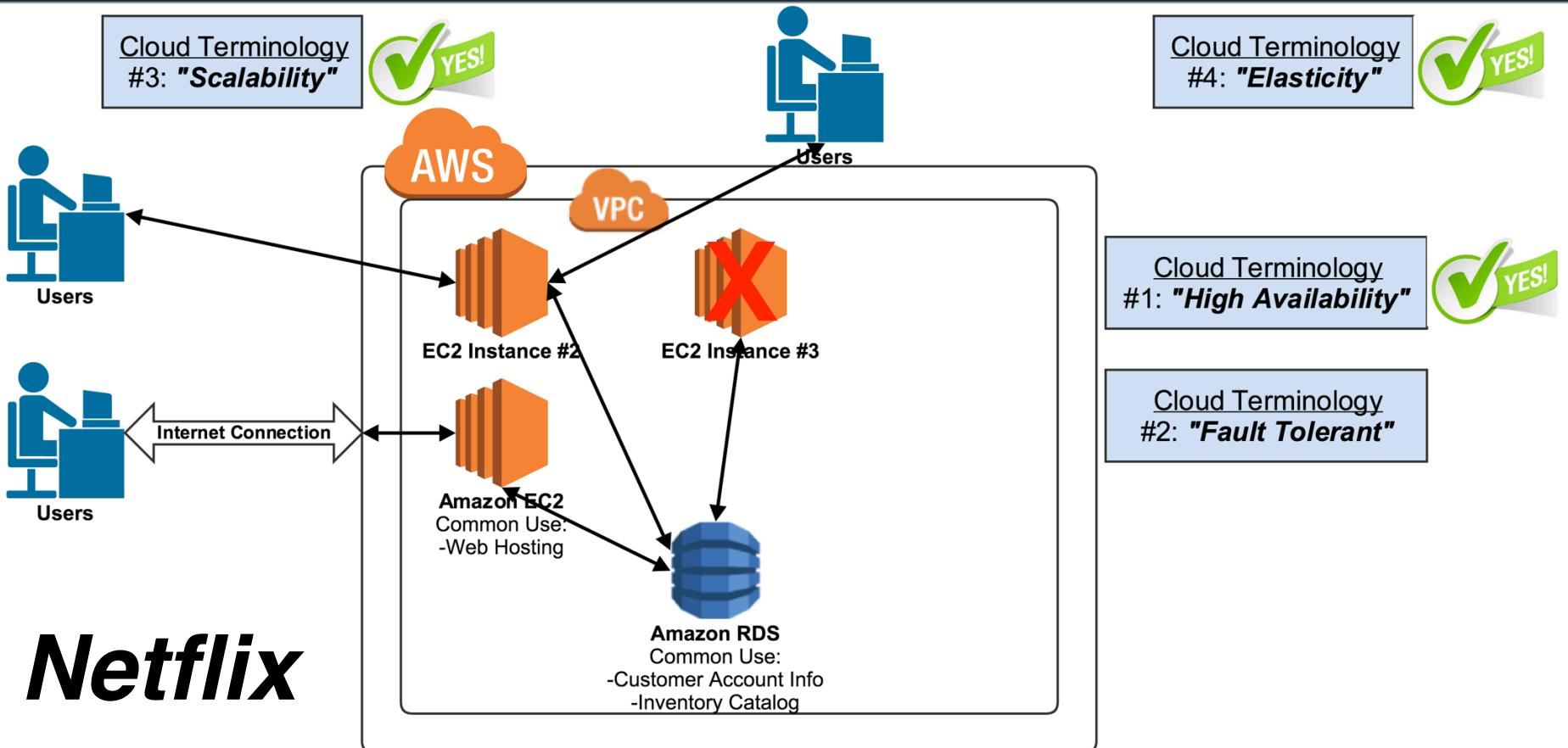




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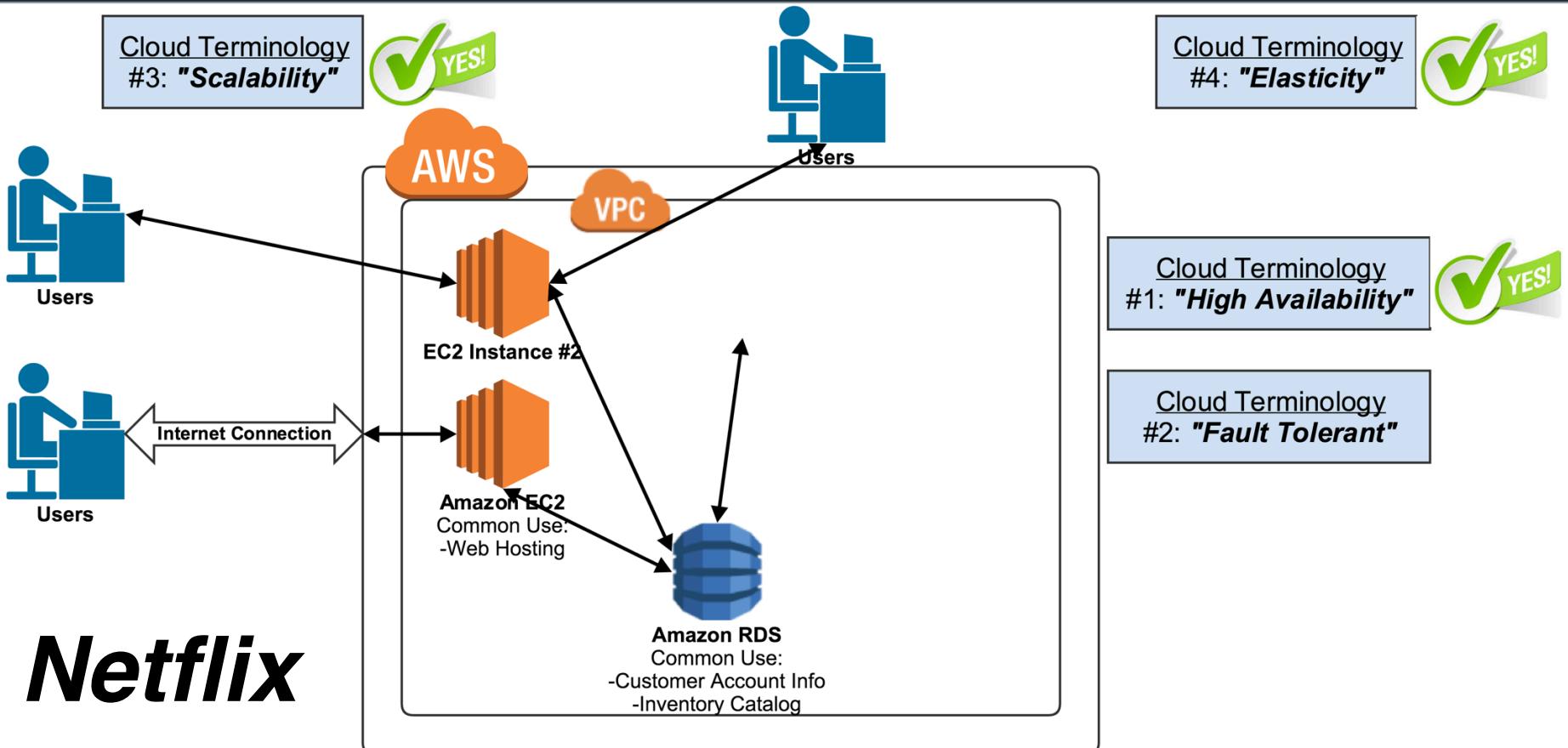




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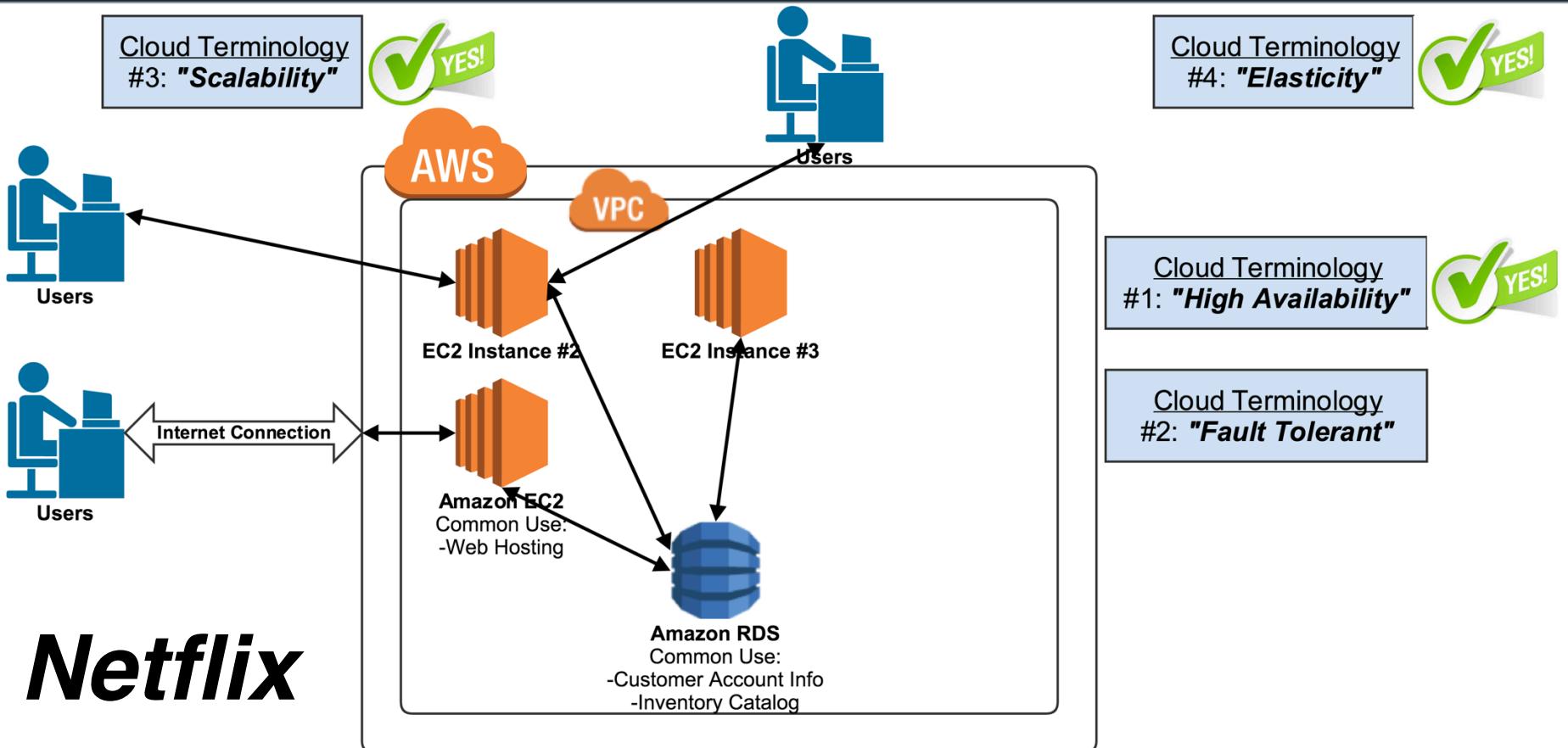




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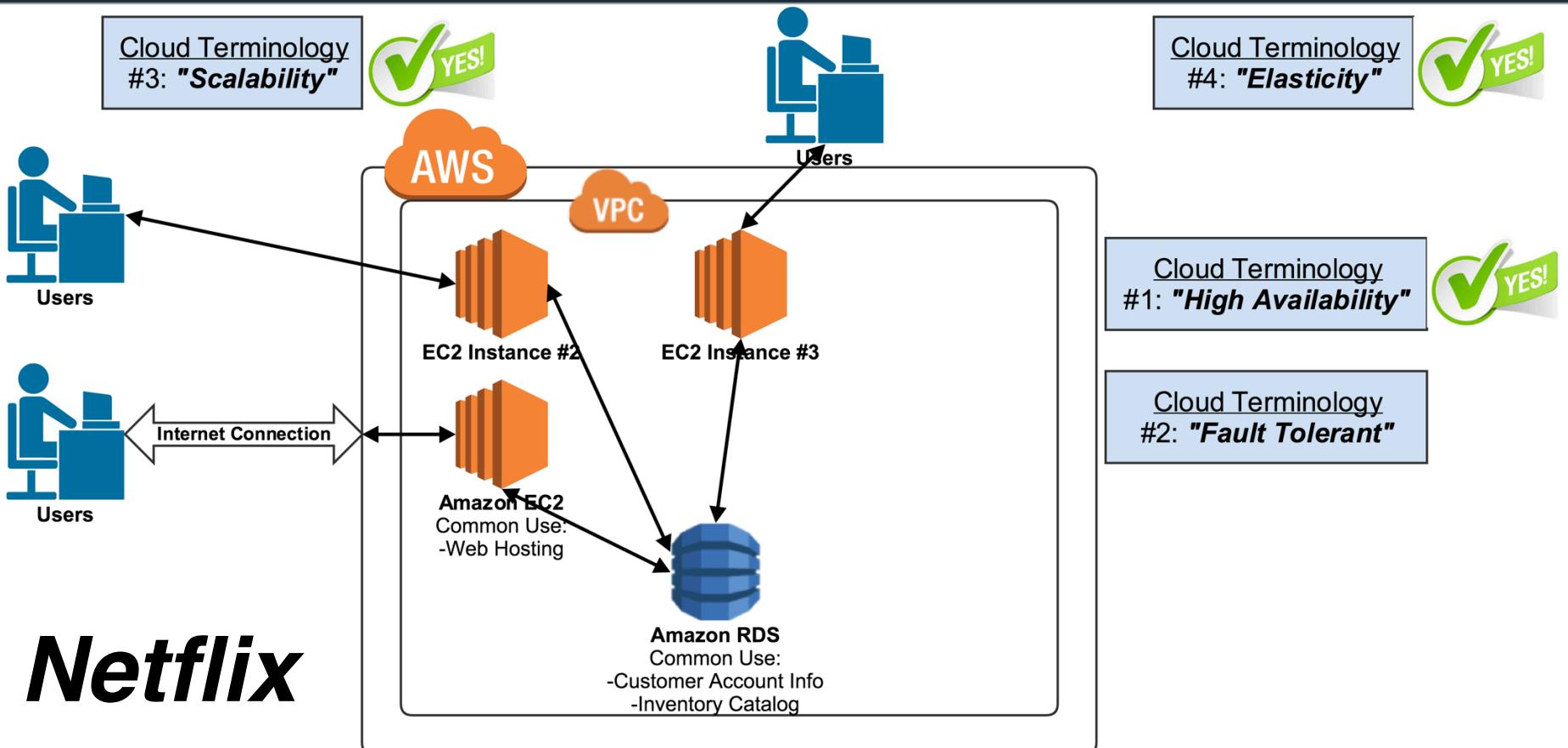


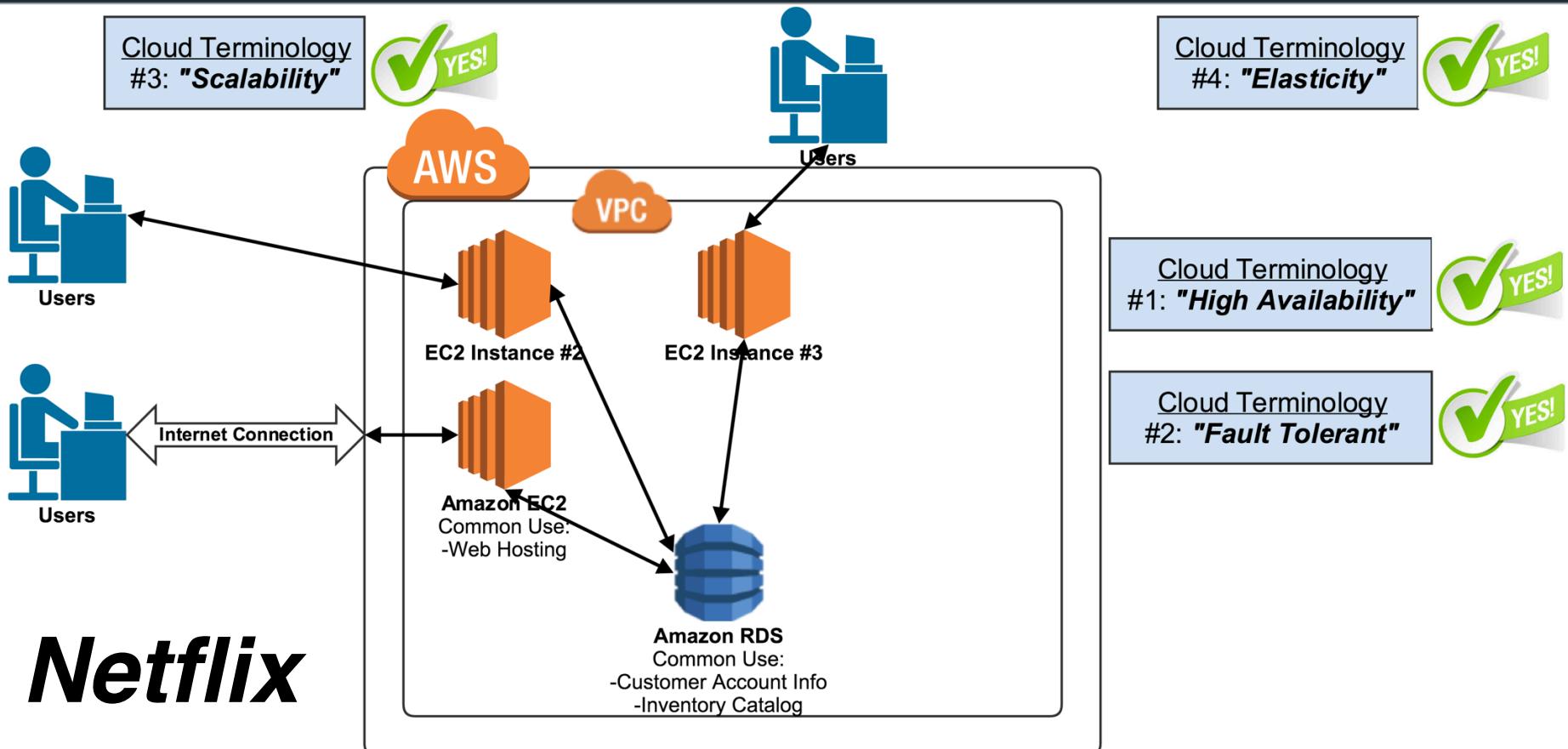


Cloud Terminology  
#3: **"Scalability"**



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





# *Recap:*

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

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

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

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

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



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NETFLIX ORIGINAL ARRESTED DEVELOPMENT

SEASON 1

1 Pilot 21m 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 Top Banana 22m 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 Bringing Up Buster 22m A reluctant Michael takes Buster under his wing while attempting to get closer to an increasingly distant George-Michael.

4 Key Decisions 21m Michael falls in love with Gob's girlfriend. Meanwhile, Lindsay bonds with an environmentalist, and Buster gets a romantic note from Lucille's rival.

5 Charity Drive 21m Michael trades in his bicycle for his father's car and ends up giving a ride to a terrified stranger who mistakes Michael for a killer.

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# Amazon Web Services

## Introduction to AWS: RDS

Thank you for watching!



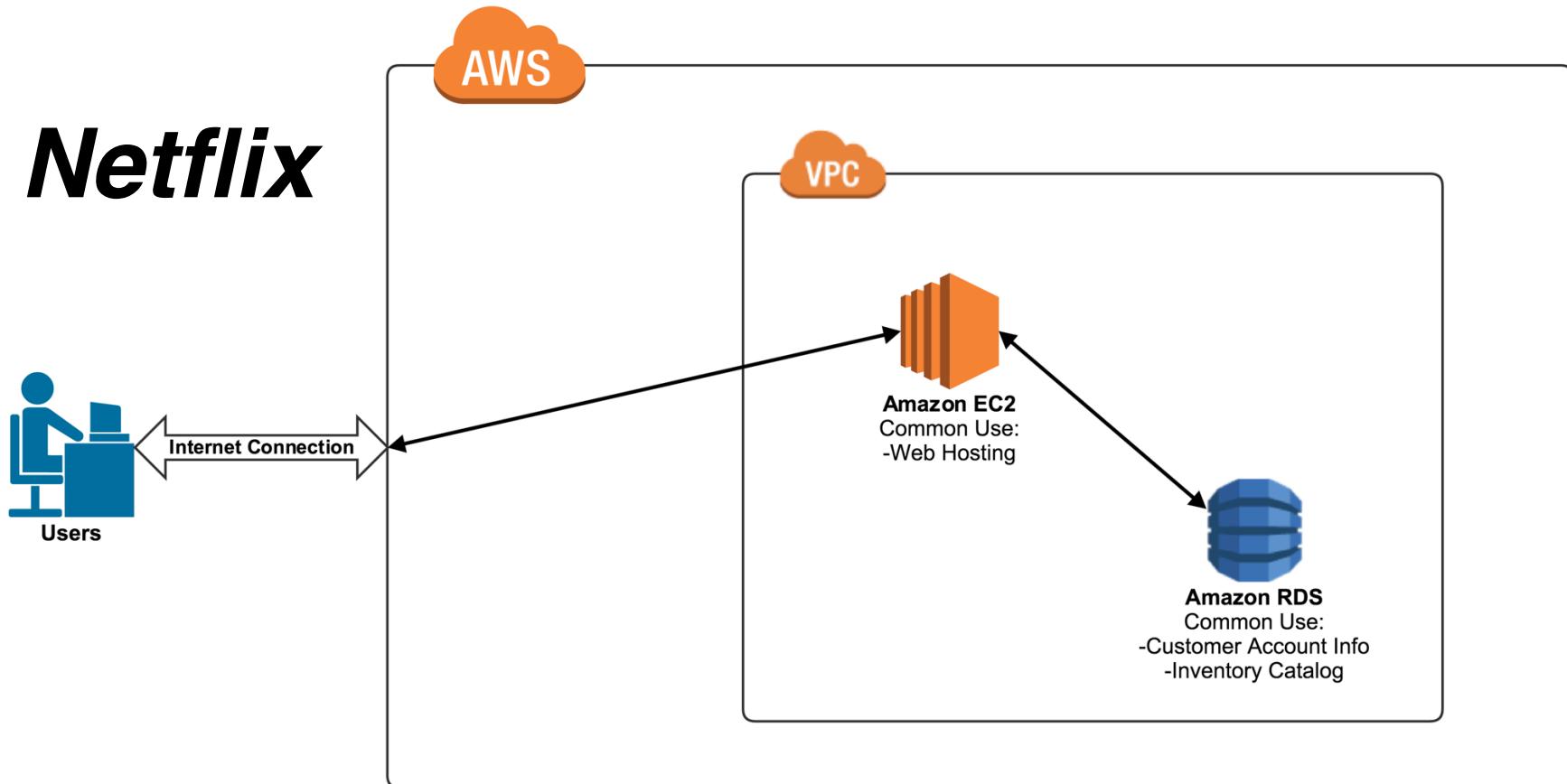
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# Amazon Web Services

## Introduction to AWS: S3

Provide a  
***High-Level Introduction***  
to Amazon Web Services, using  
***Oversimplification of Concepts***  
for the purpose of providing a  
***Frame-of-Reference***  
for you to move forward.

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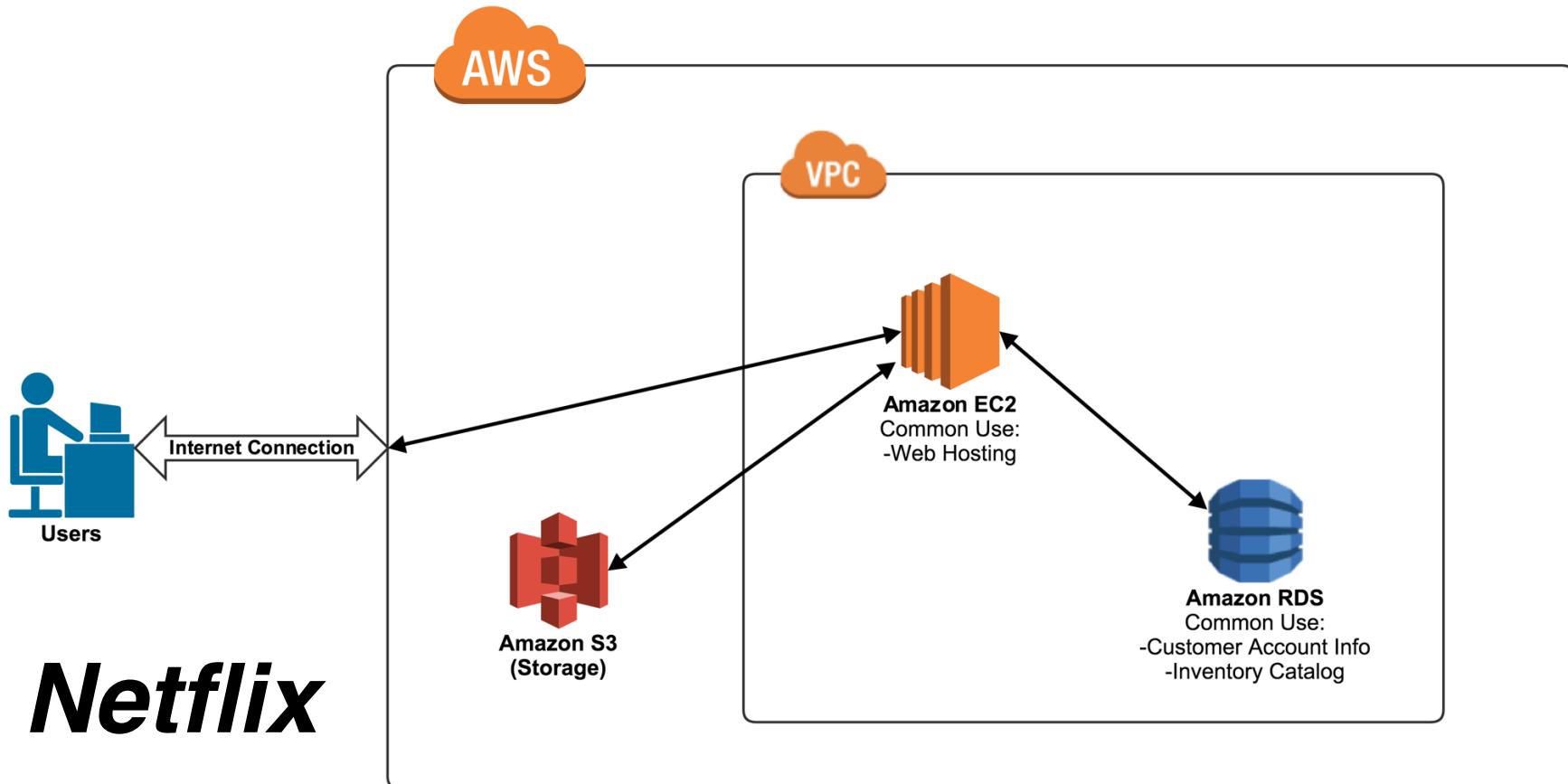
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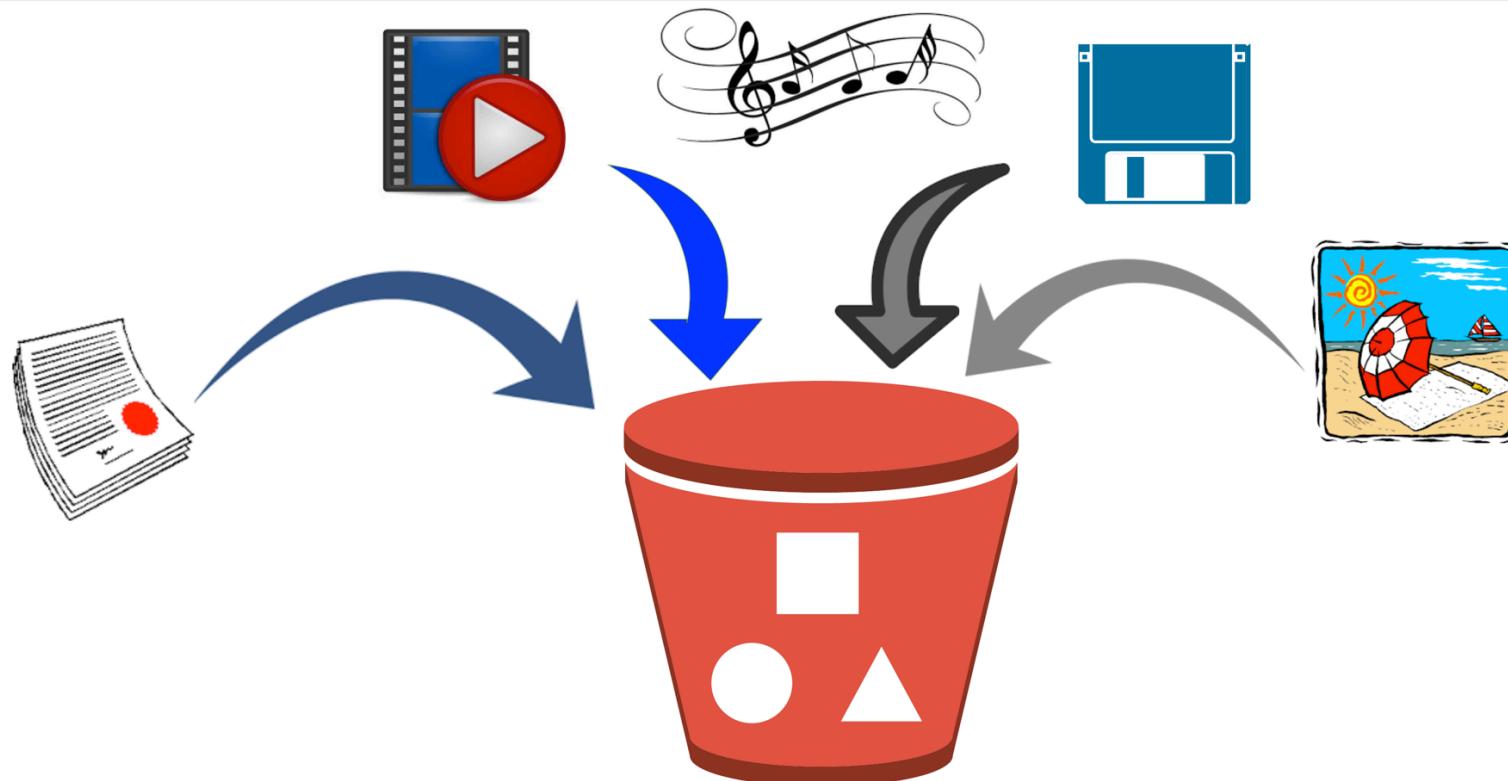
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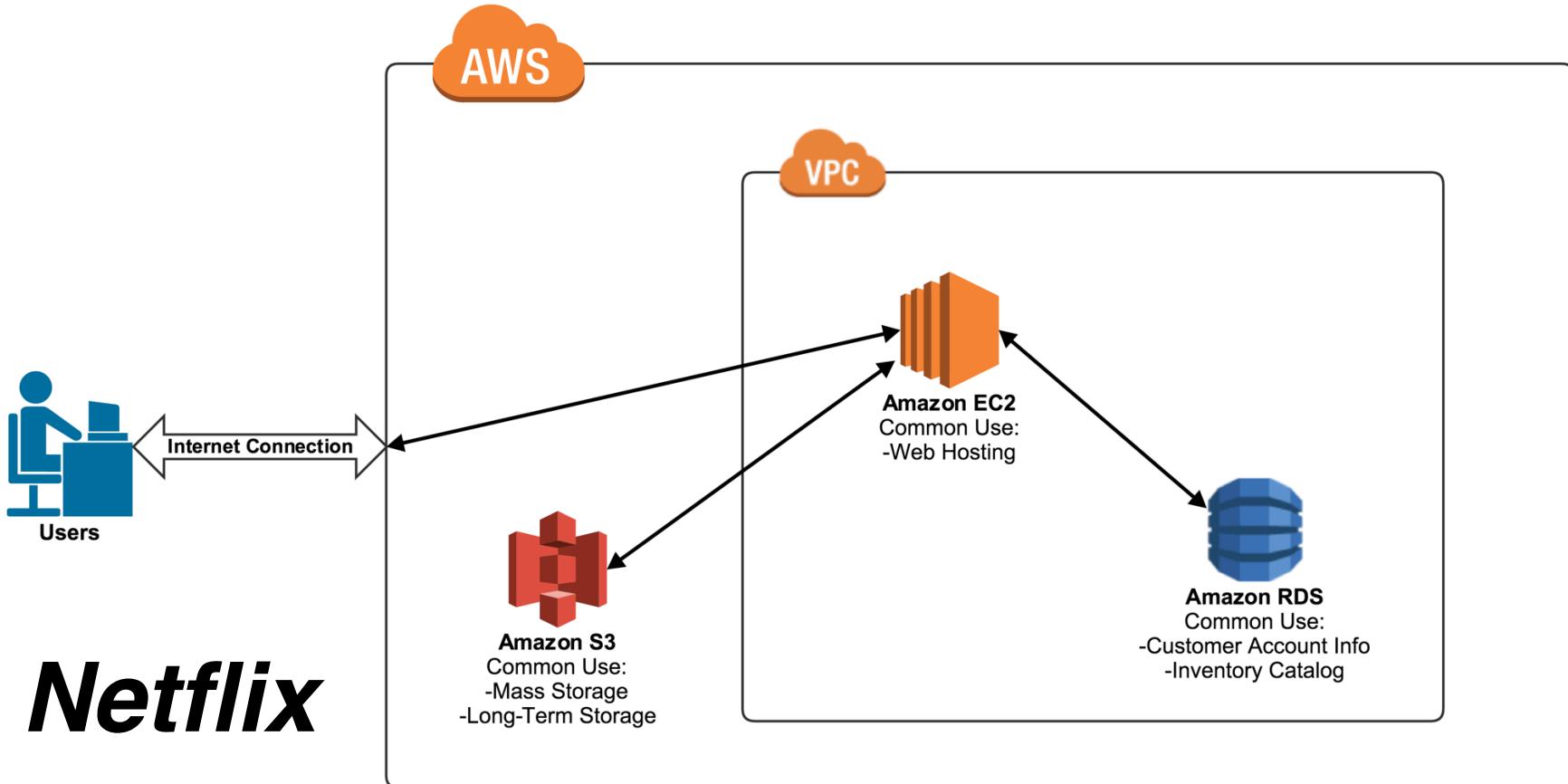
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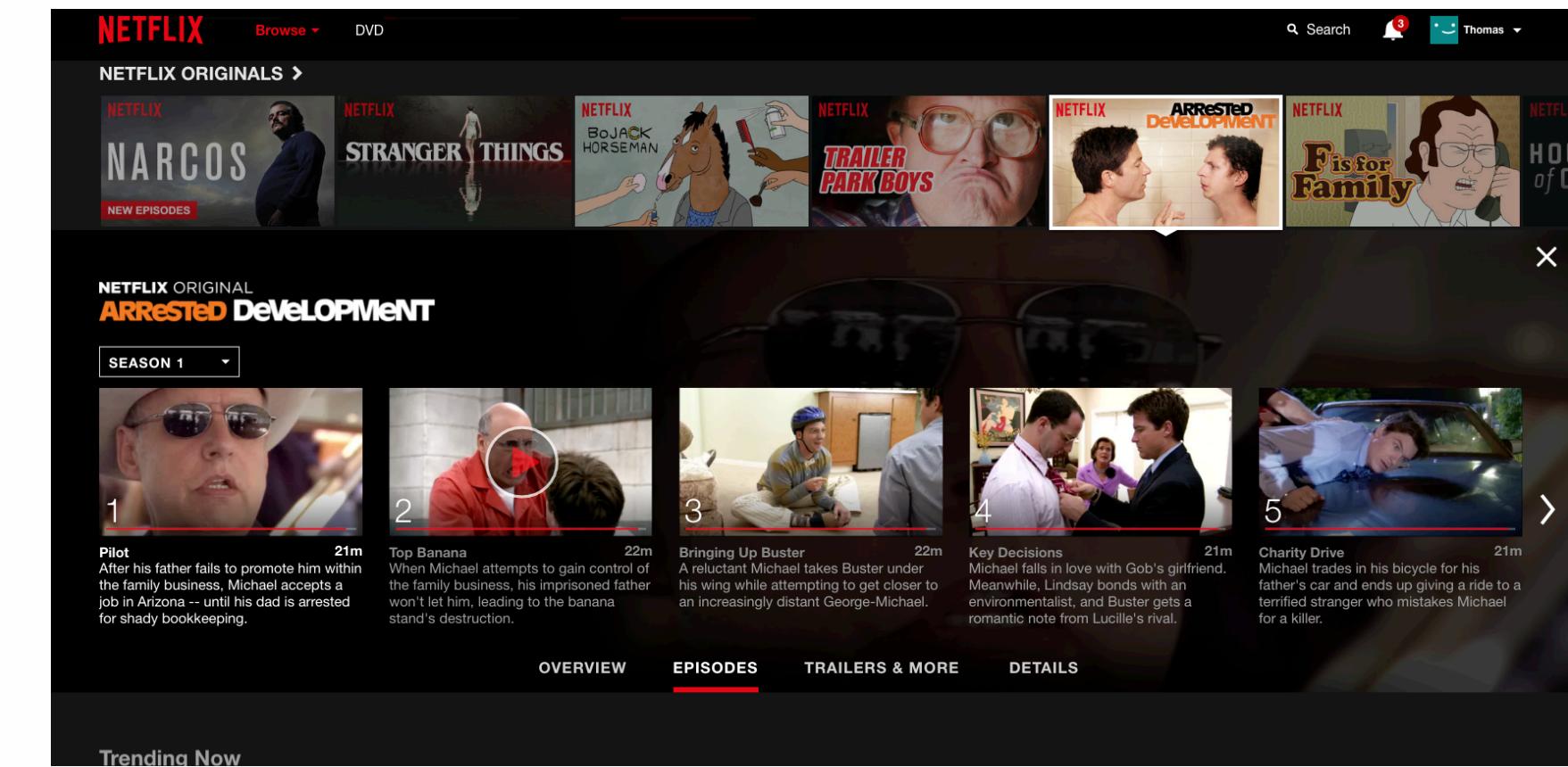


AWS S3:  
Unlimited Storage "Bucket"



# *Recap:*

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



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SEASON 1



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## Introduction to AWS: S3

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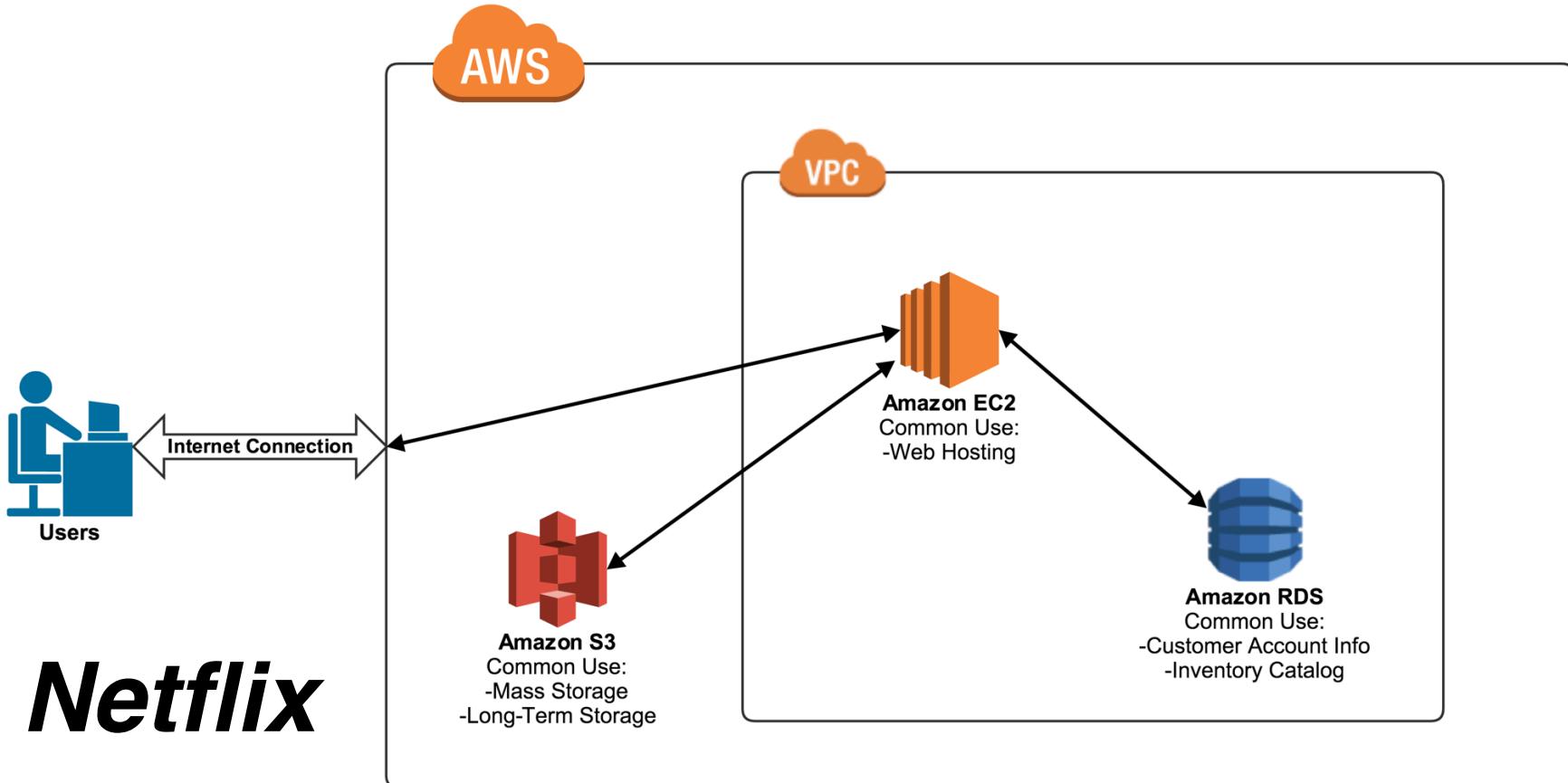


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# Amazon Web Services

## Introduction to AWS: EC2 (part 2)

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**ARReSTeD DeVELOPMeNT**

SEASON 1 



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Pilot  
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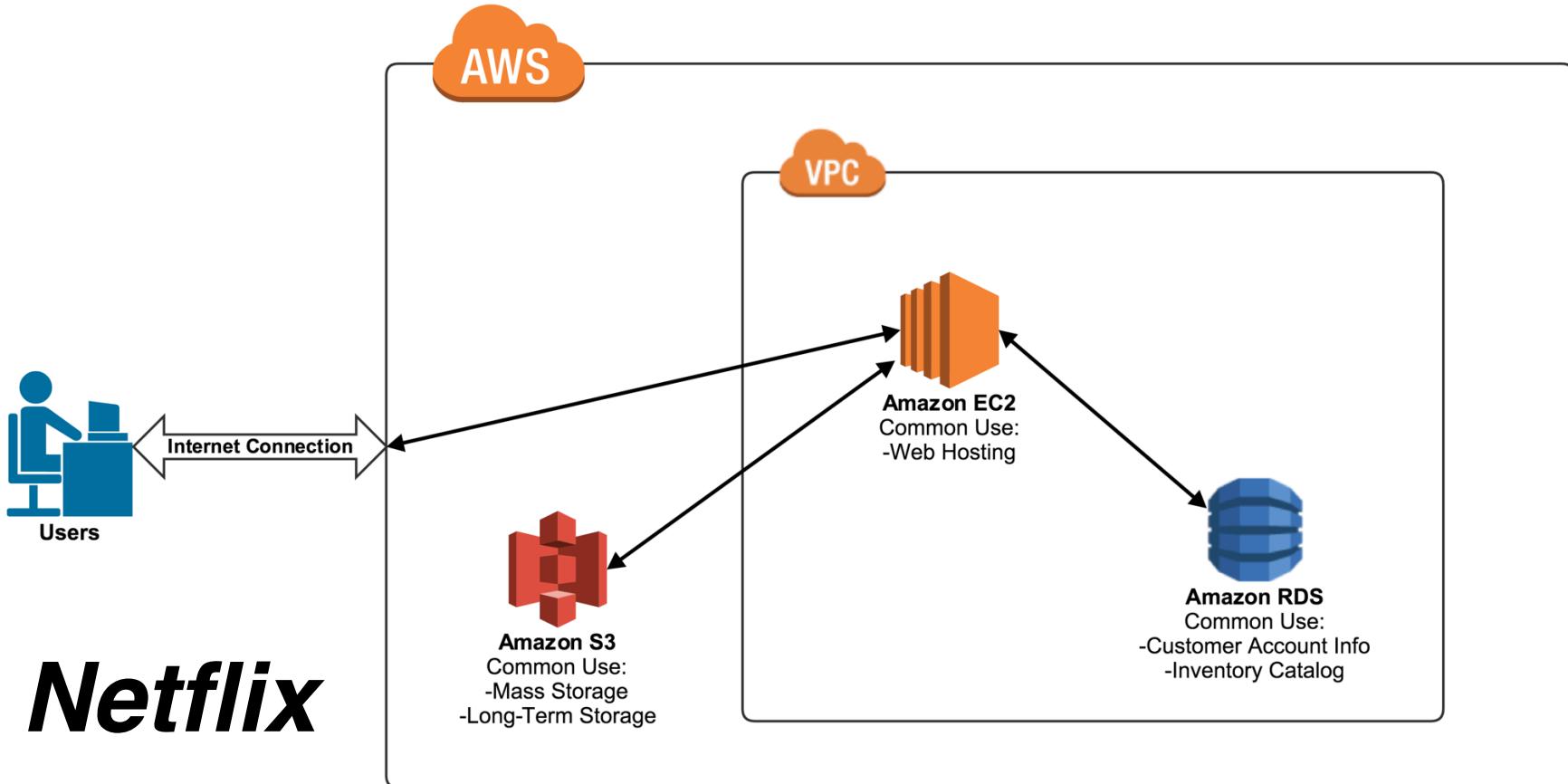
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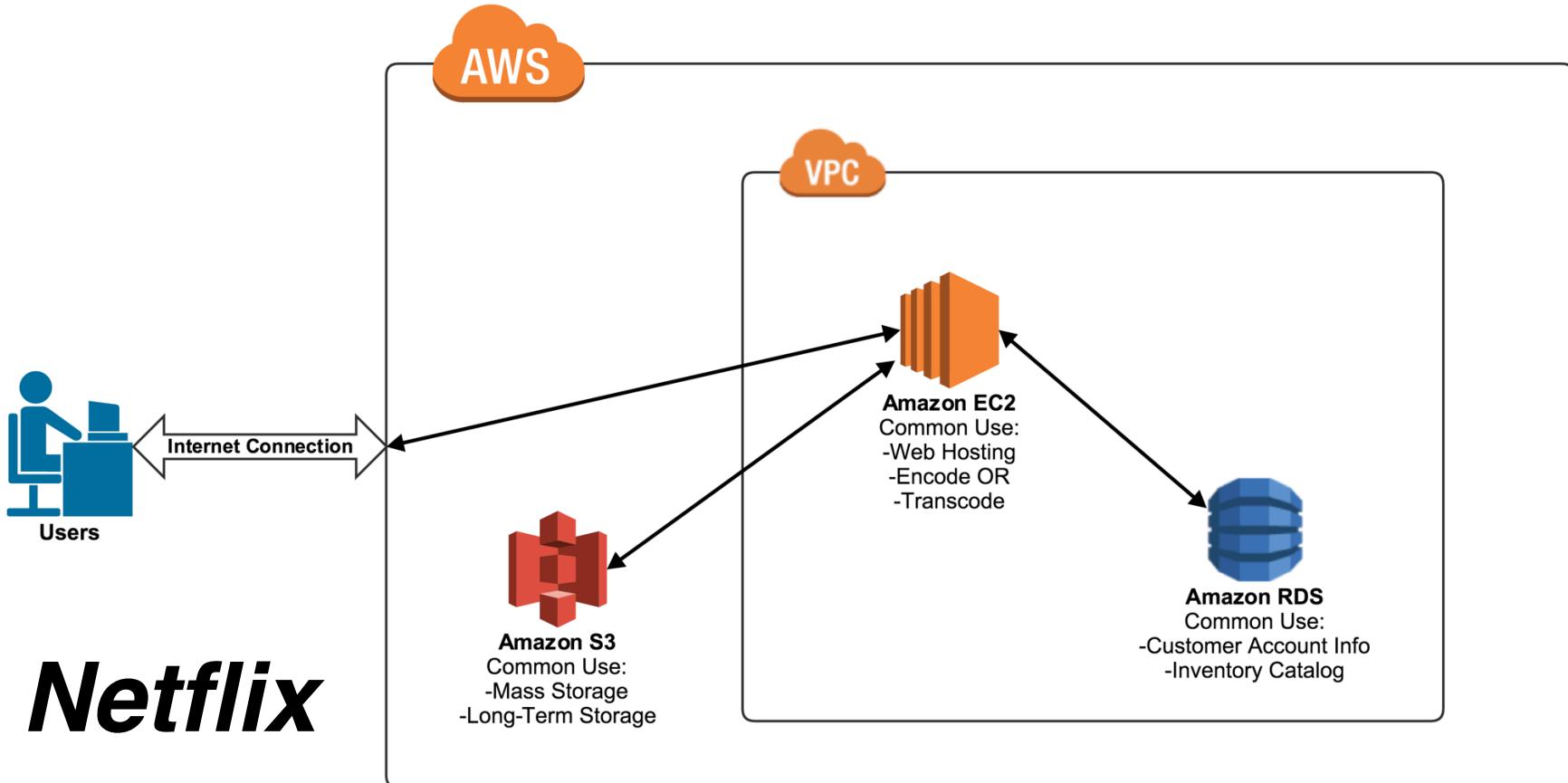
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# *Recap:*

Amazon **EC2**, good for any type of “processing” activity.



Image source: <https://aws.amazon.com/about-aws/global-infrastructure/>



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# Amazon Web Services

## Introduction to AWS: EC2 (part 2)

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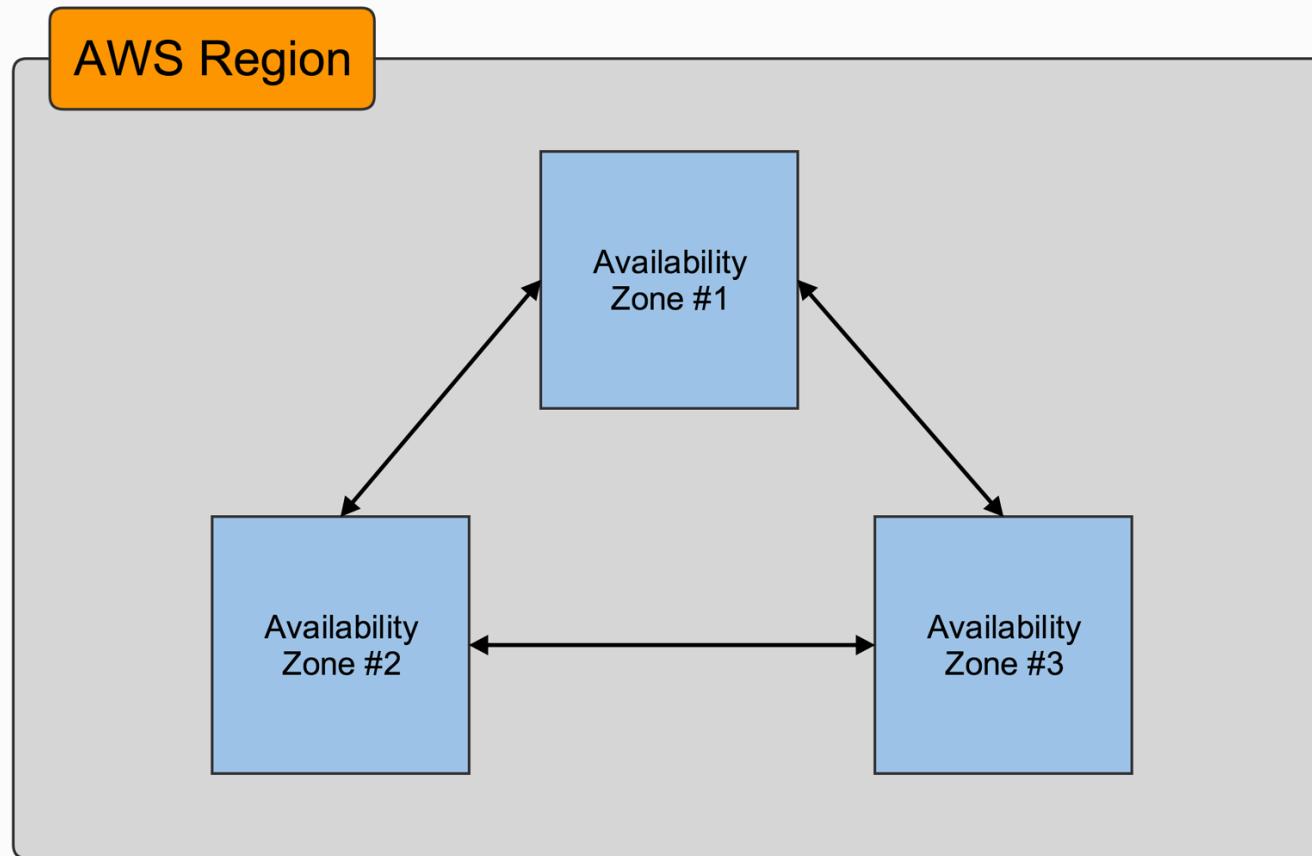
# Amazon Web Services

## Introduction to AWS: Global Infrastructure

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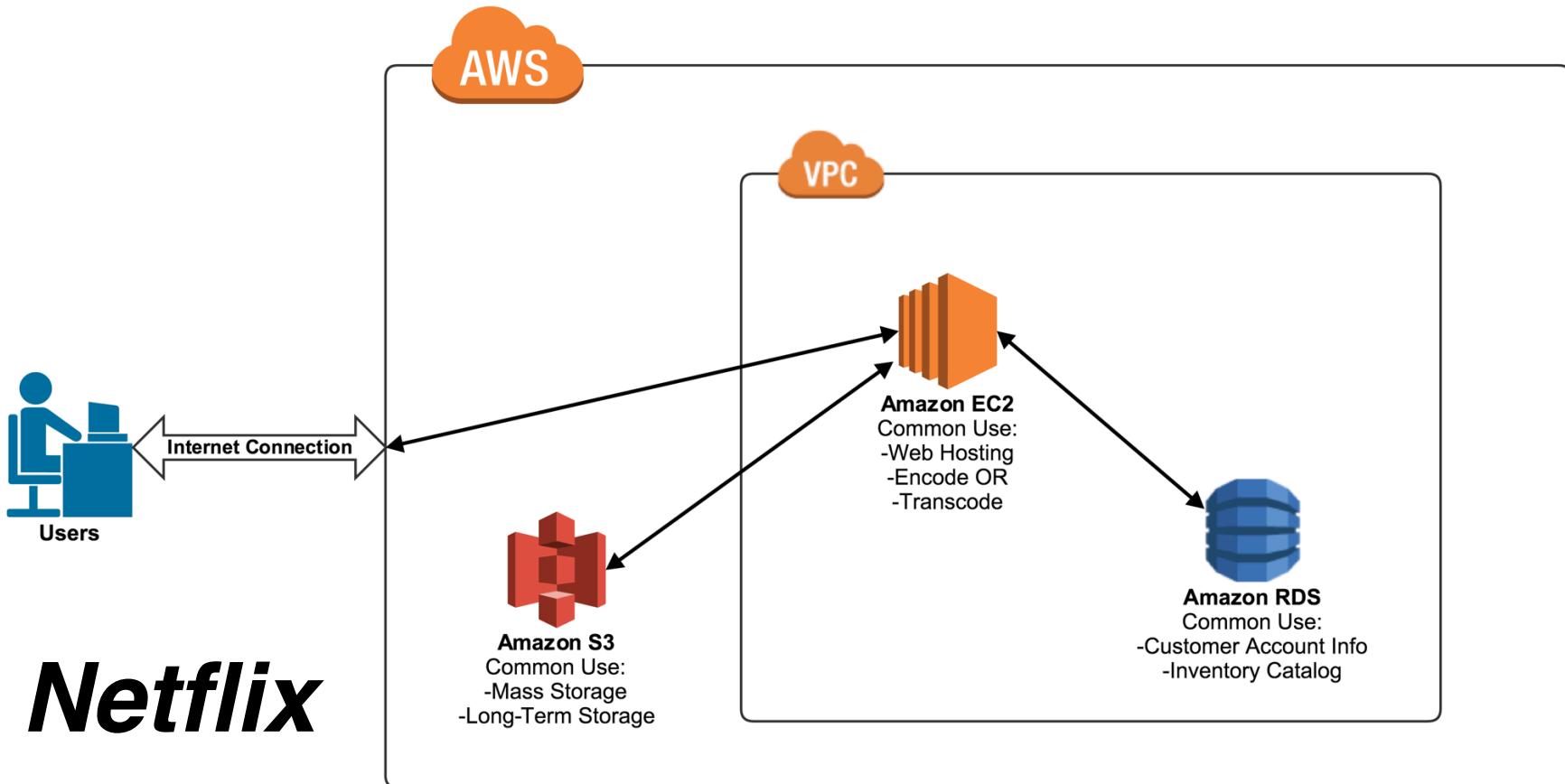
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Availability Zone

# *Data Center:*







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# Amazon Web Services

## Introduction to AWS: Global Infrastructure

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