



Linux Academy

Amazon Web Services

AWS Concepts: Course Material & Features



Linux Academy: AWS Concepts

Course Material

- Video lessons
 - Quiz
- “What’s Next” Video
 - Study Guides
 - Note Cards

Course Features

- Course Scheduler
 - Community
 - Study Groups



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.



What is the "cloud"?



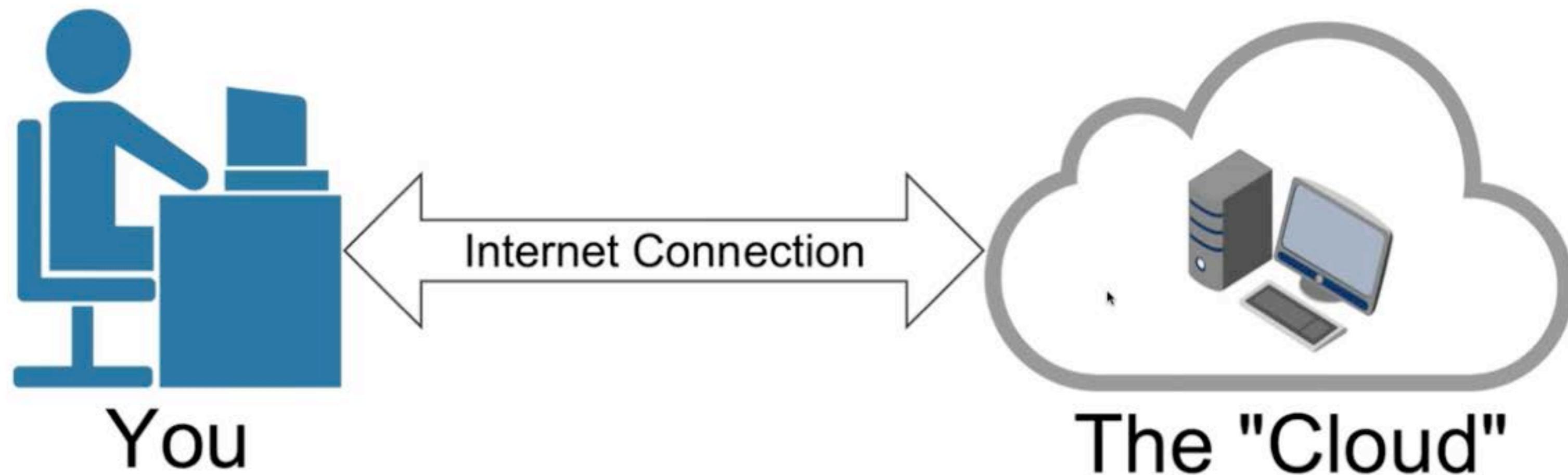
iCloud



DropBox

"Store your files in the cloud"



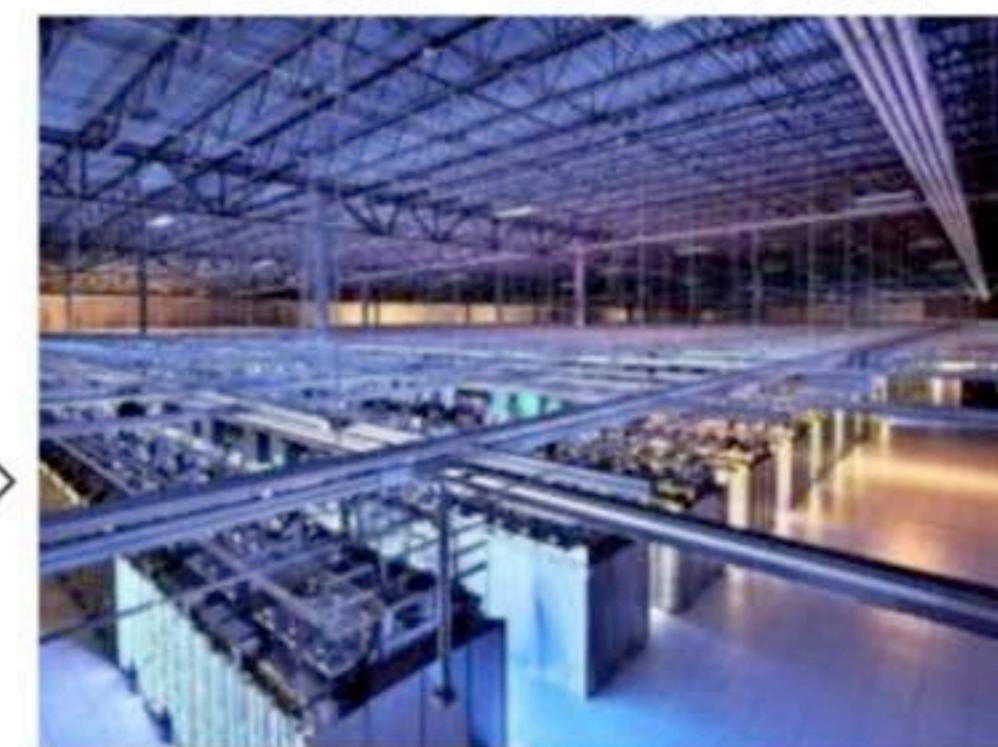




You



Data Center



iCloud
DropBox
Amazon Web Services



Storage

Networking

Developer
Tools

Computing
Power



Virtualization

Databases

Analytics

Security

Amazon Web Services is a **Cloud** services provider
Also known as Infrastructure as a Service (IaaS)



Why do individuals and companies use AWS?

What are the benefits?

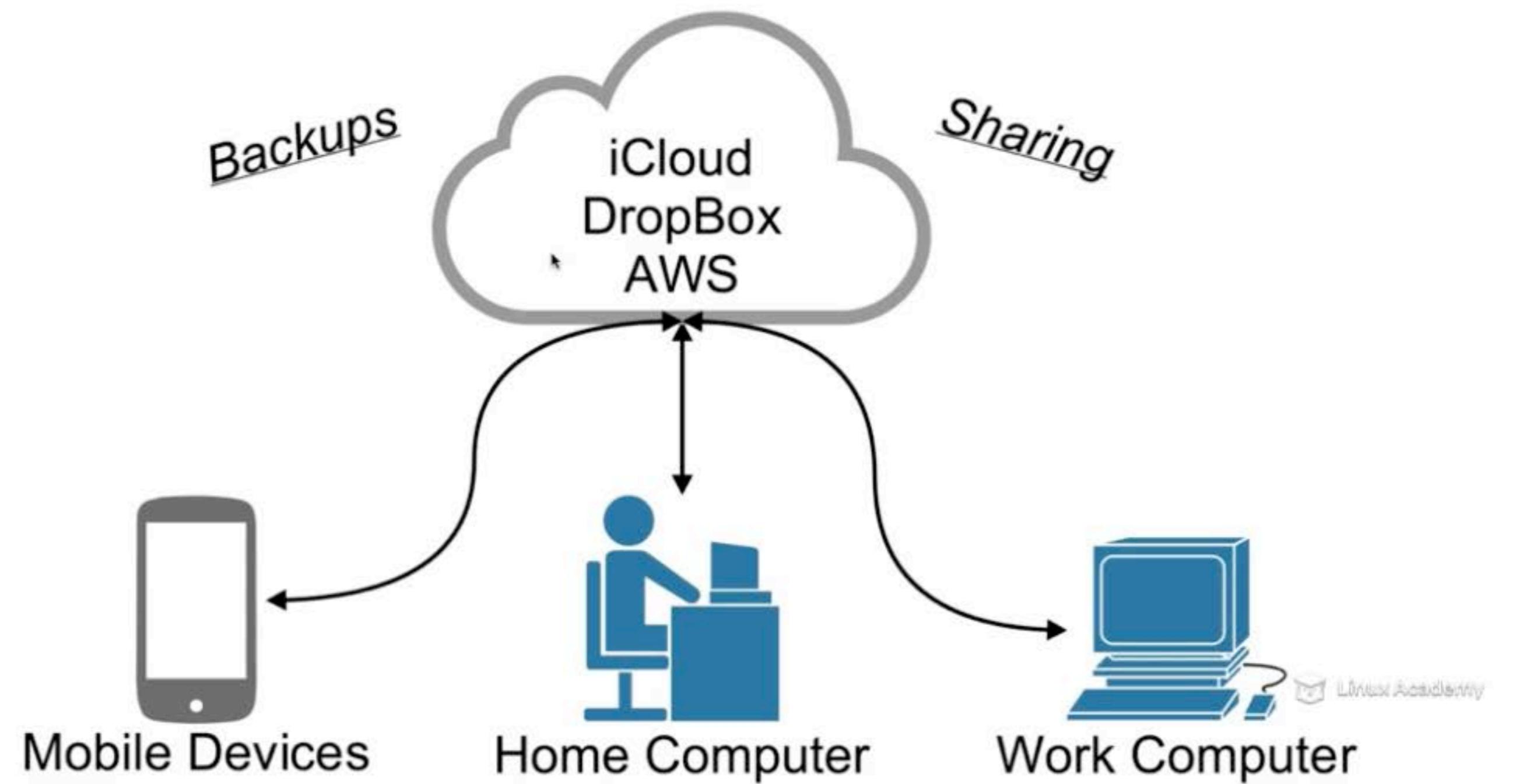
How is the “Cloud” different from what has been used in the past?



Common Personal Uses of Cloud Services

Cloud Terminology
#1: "*High Availability*"

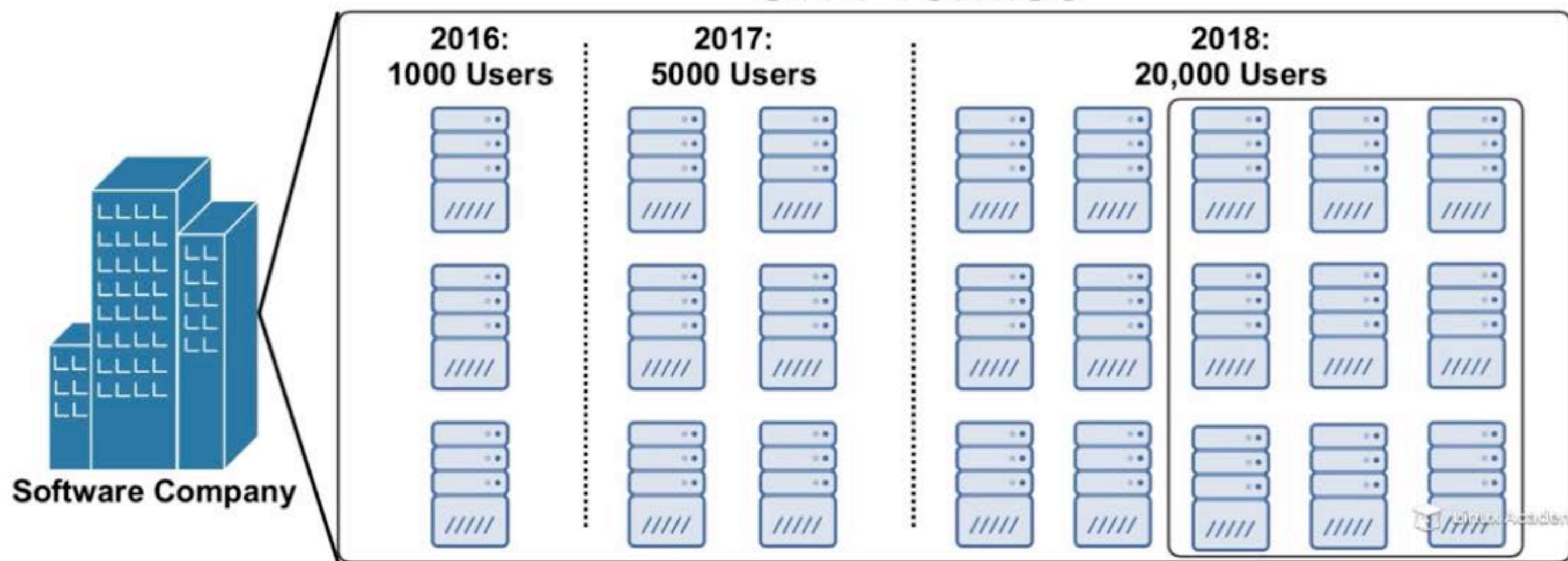
Cloud Terminology
#2: "*Fault Tolerant*"





Common Enterprise Uses of Cloud Services

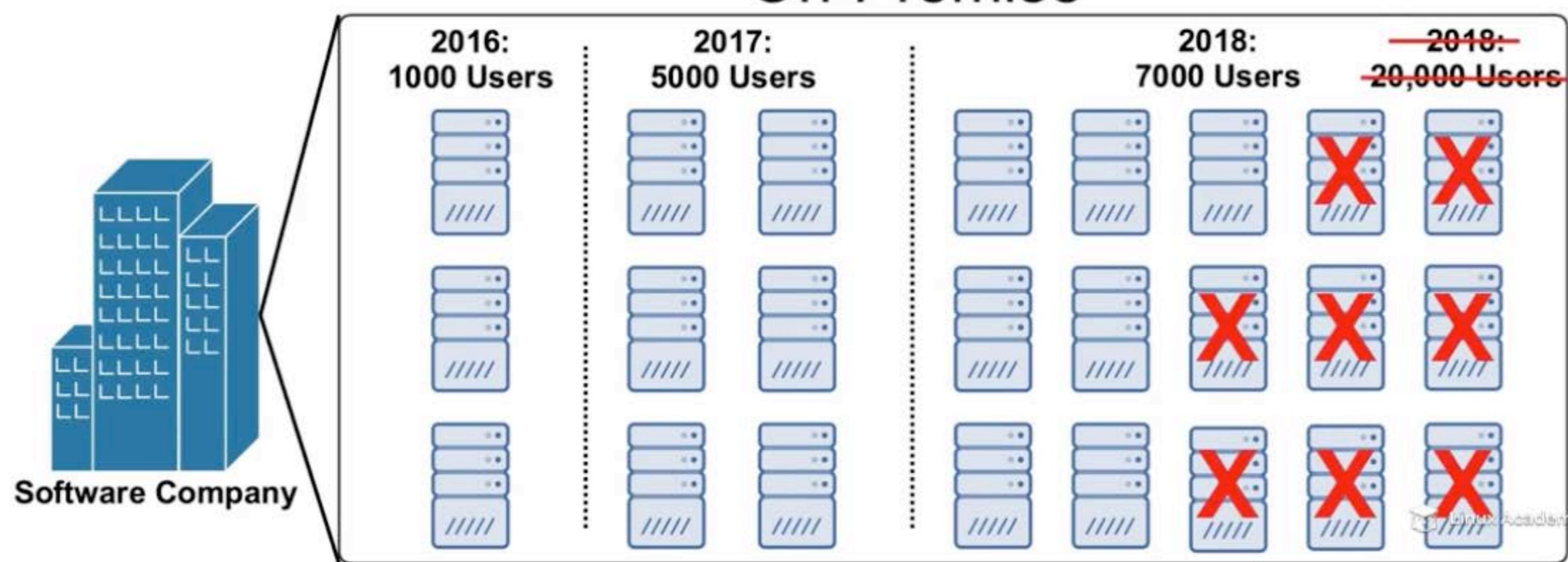
On-Premise





Common Enterprise Uses of Cloud Services

On-Premise

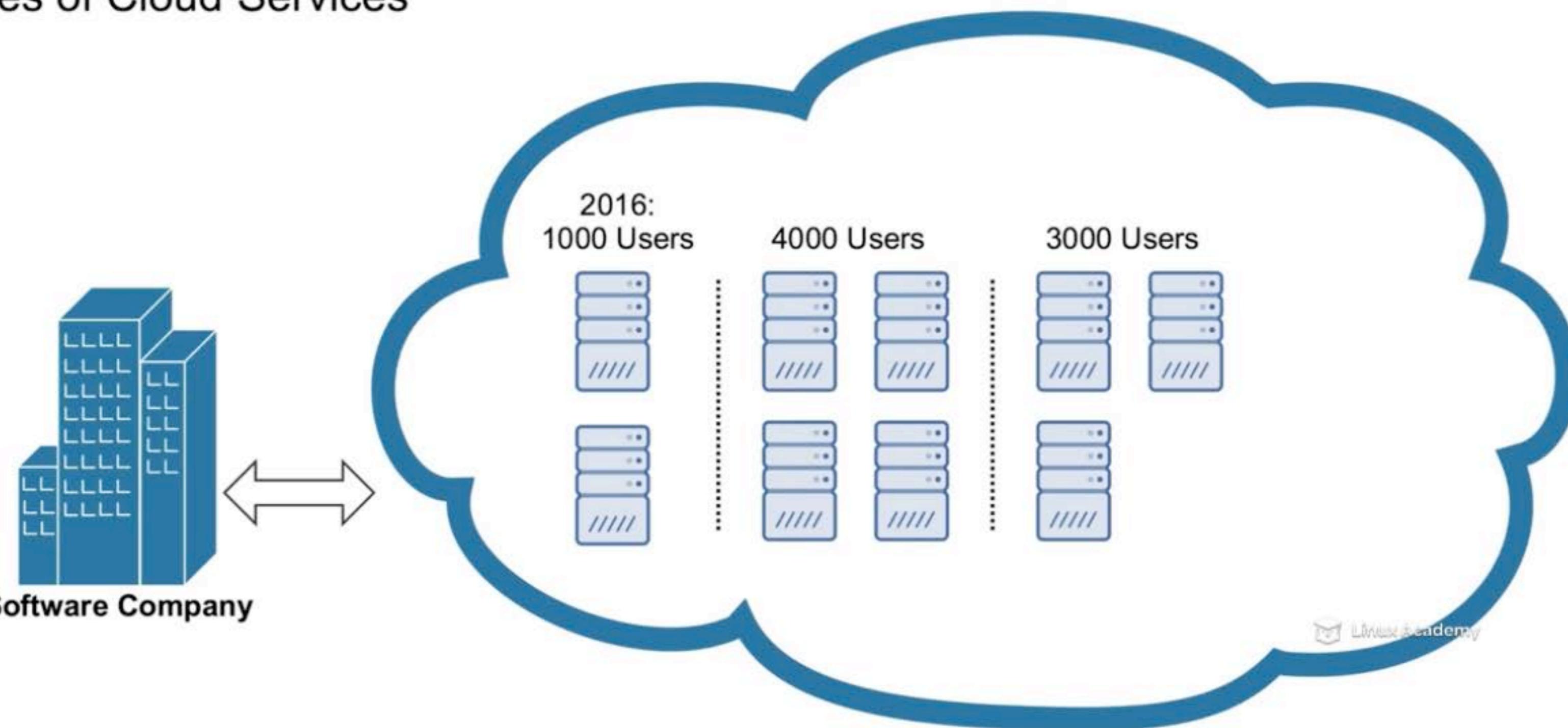




Common Enterprise Uses of Cloud Services

Cloud Terminology
#3: "*Scalability*"

Cloud Terminology
#4: "*Elasticity*"





Recap:



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

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

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

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



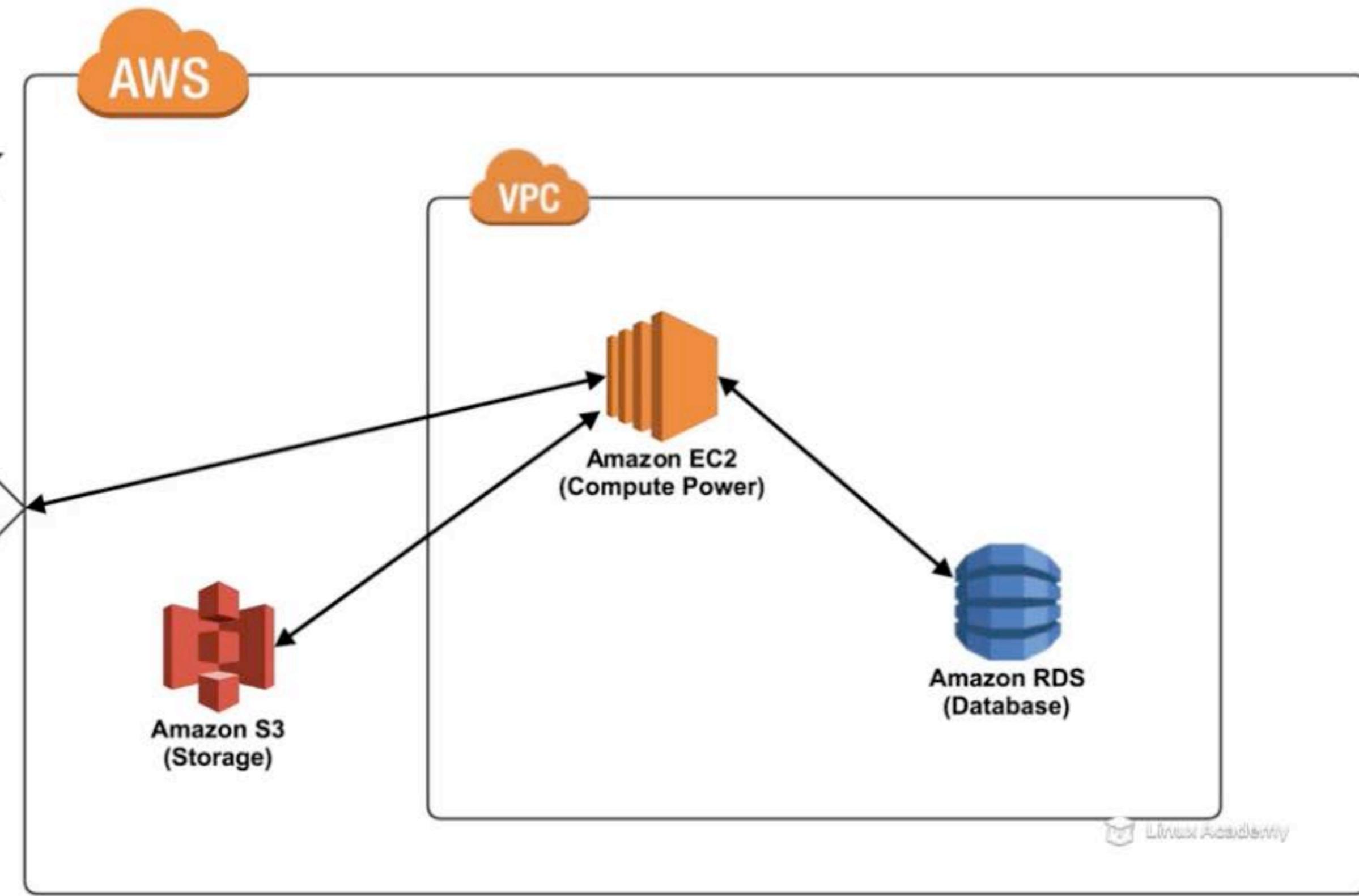
What's Next?



Facebook & Netflix



Internet Connection





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Introduction to AWS

Thank you for watching!



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Introduction to AWS: VPCs



Provide a

High-Level Introduction

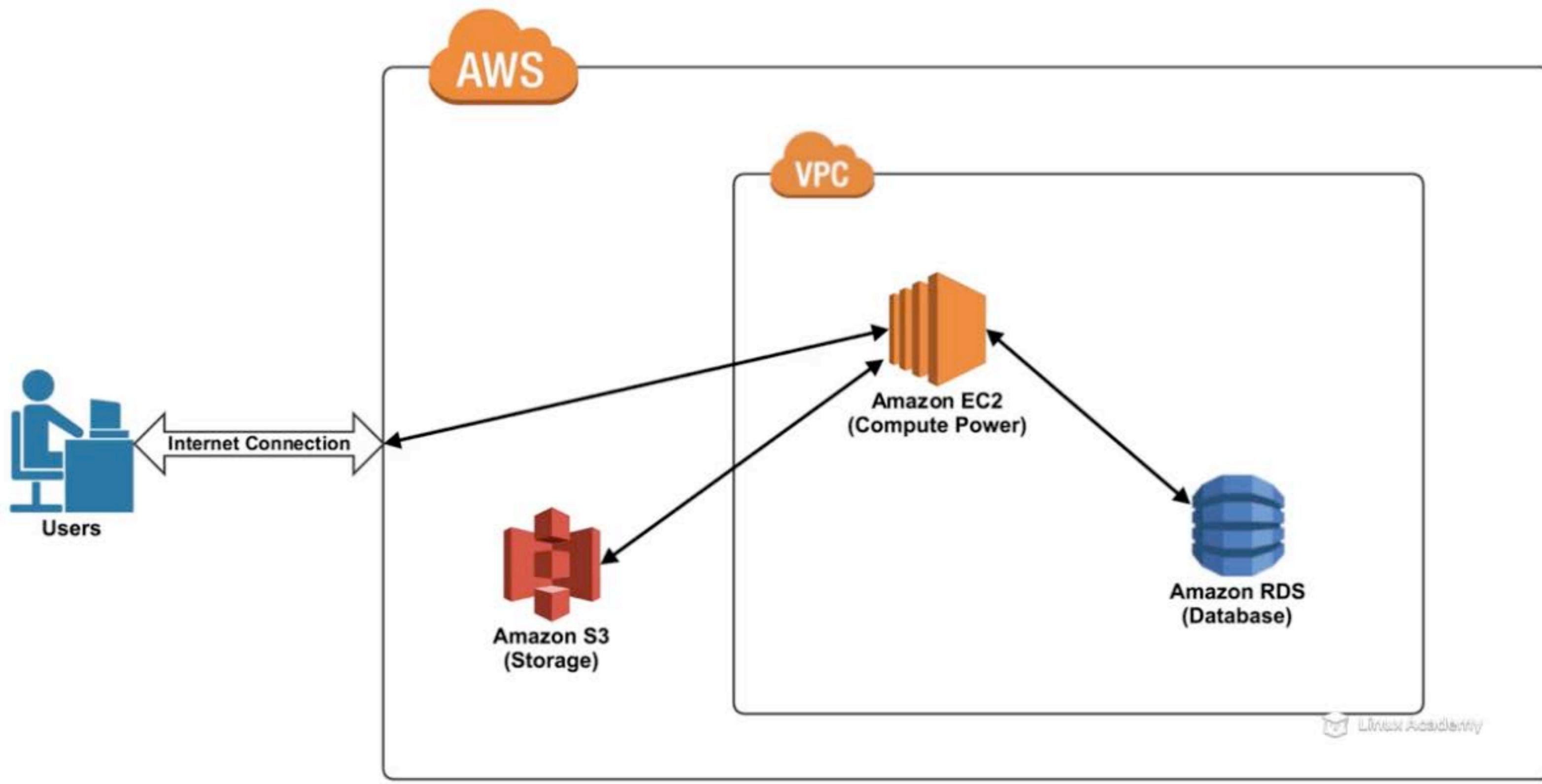
to Amazon Web Services, using

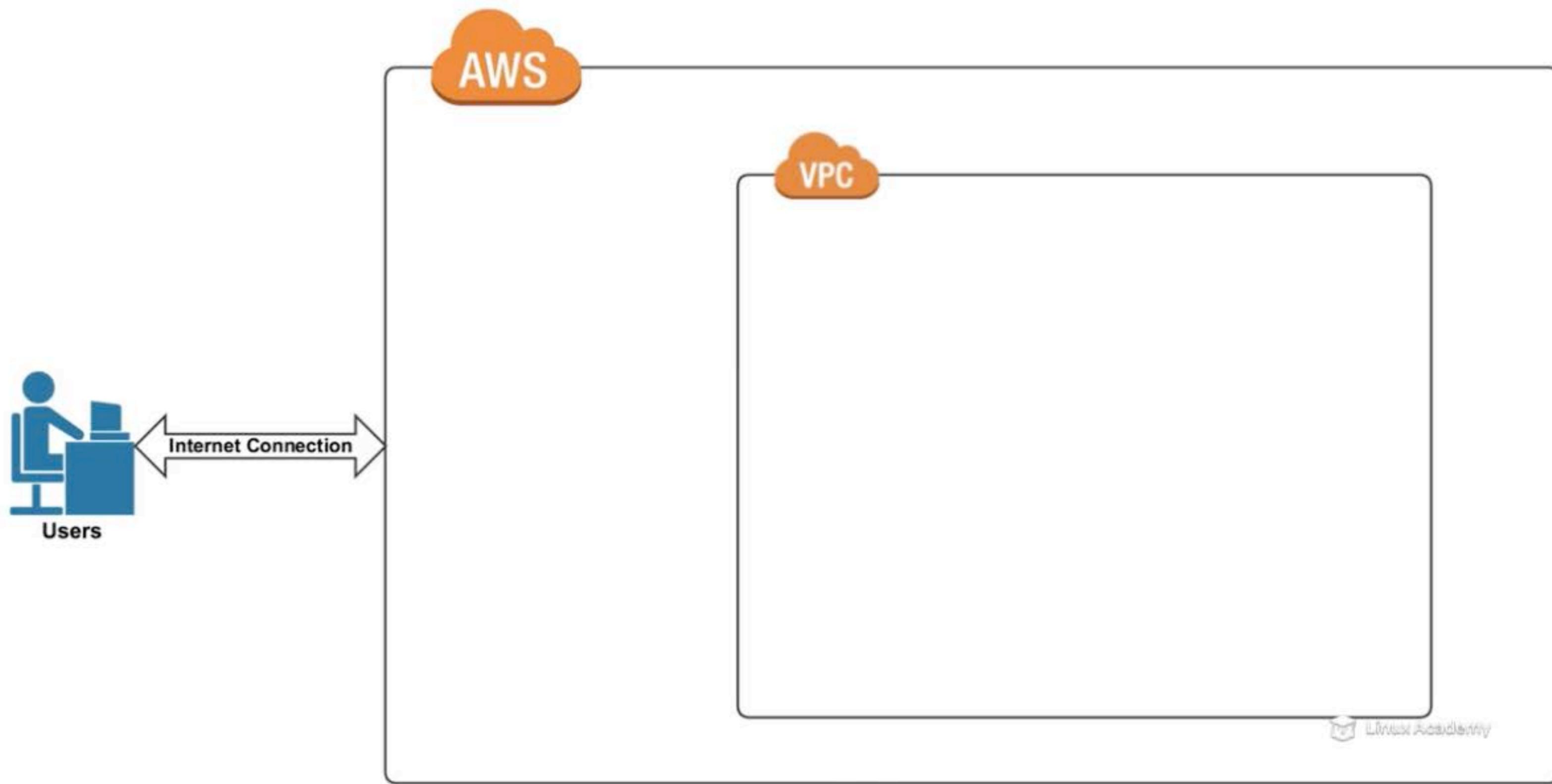
Oversimplification of Concepts

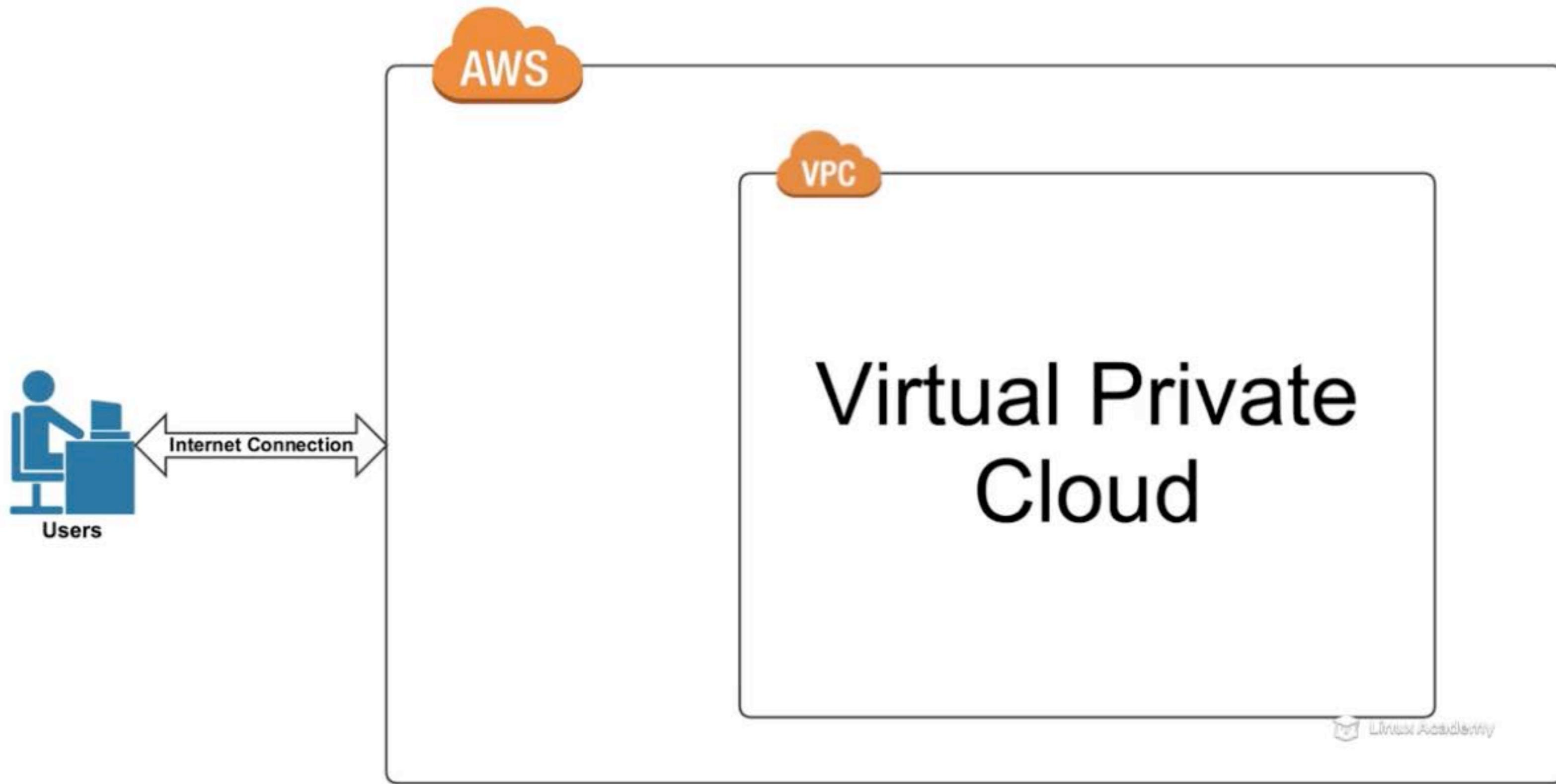
for the purpose of providing a

Frame-of-Reference

for you to move forward.

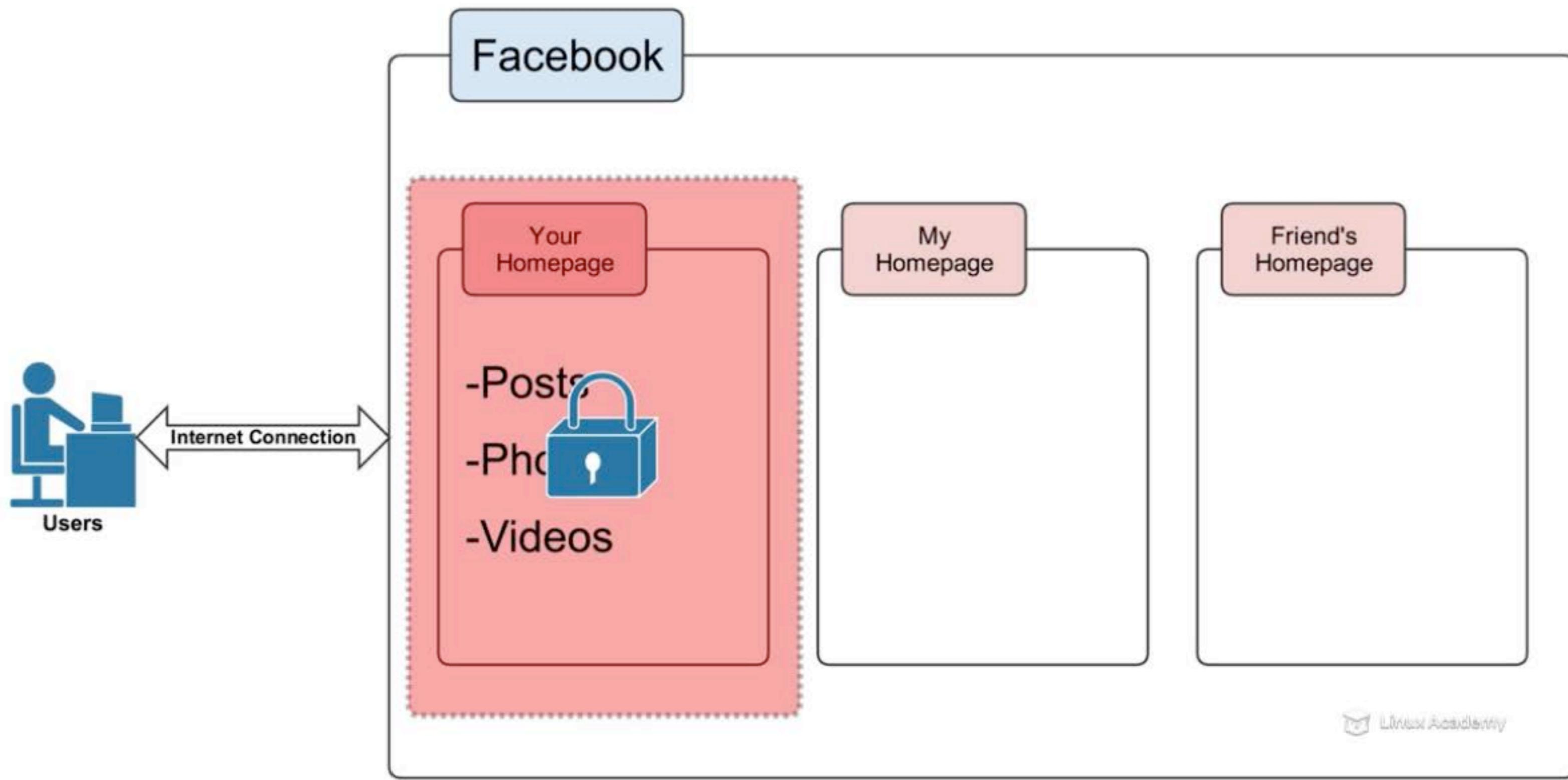


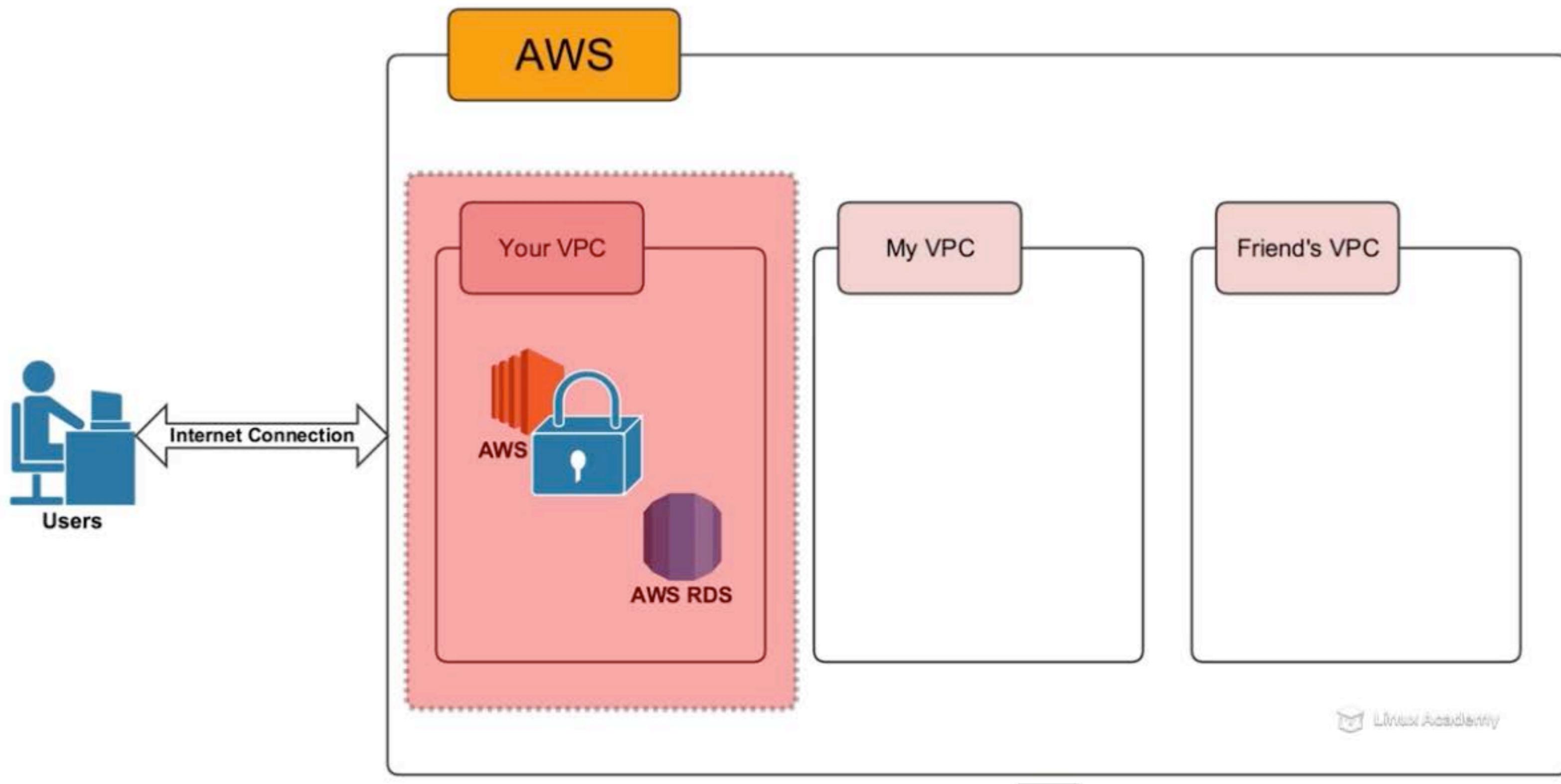






Facebook







Recap:

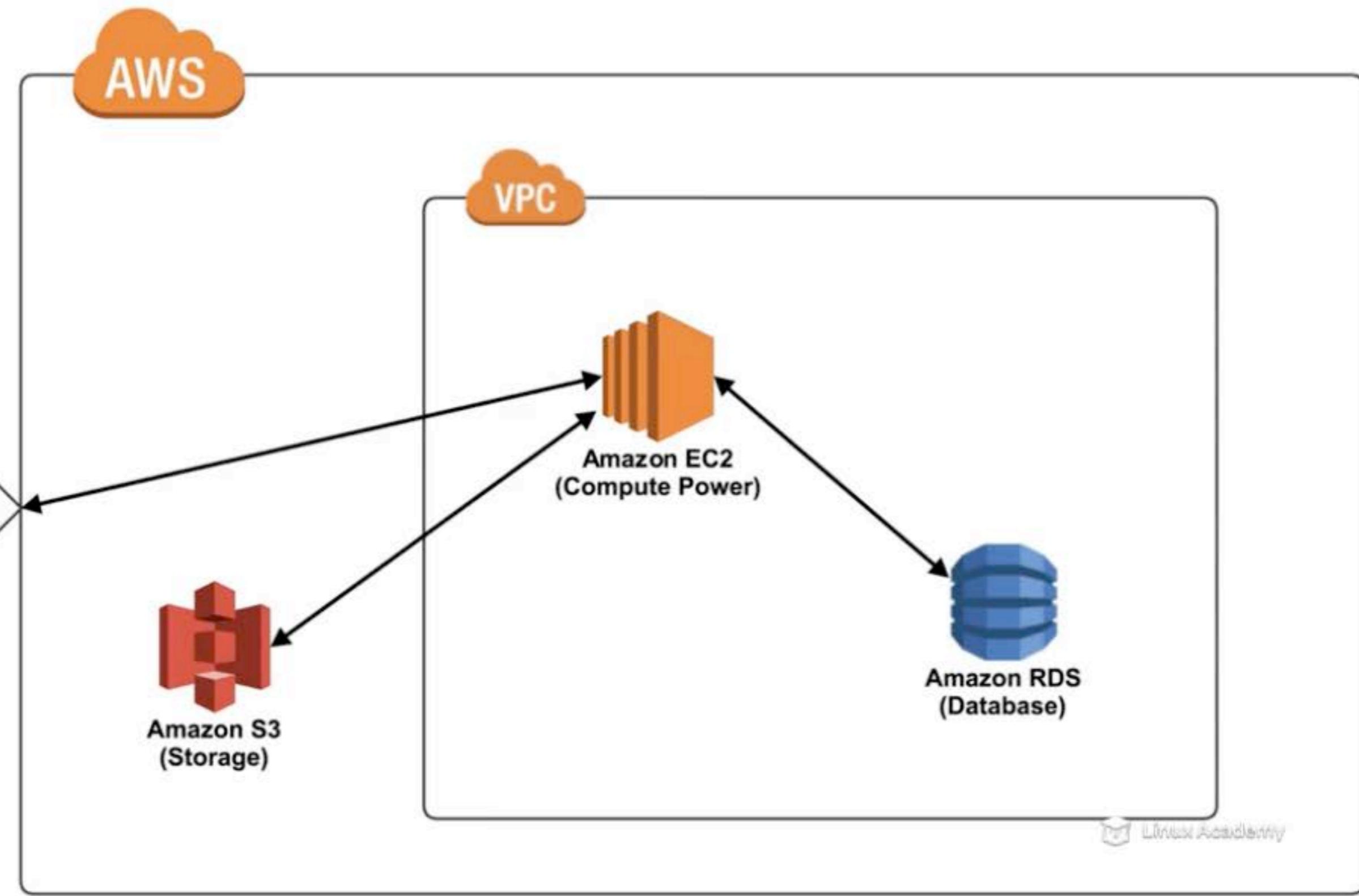
A ***Virtual Private Cloud*** is your private section of AWS, where you can place AWS resources, and allow/restrict access to them.



What's Next?



Internet Connection

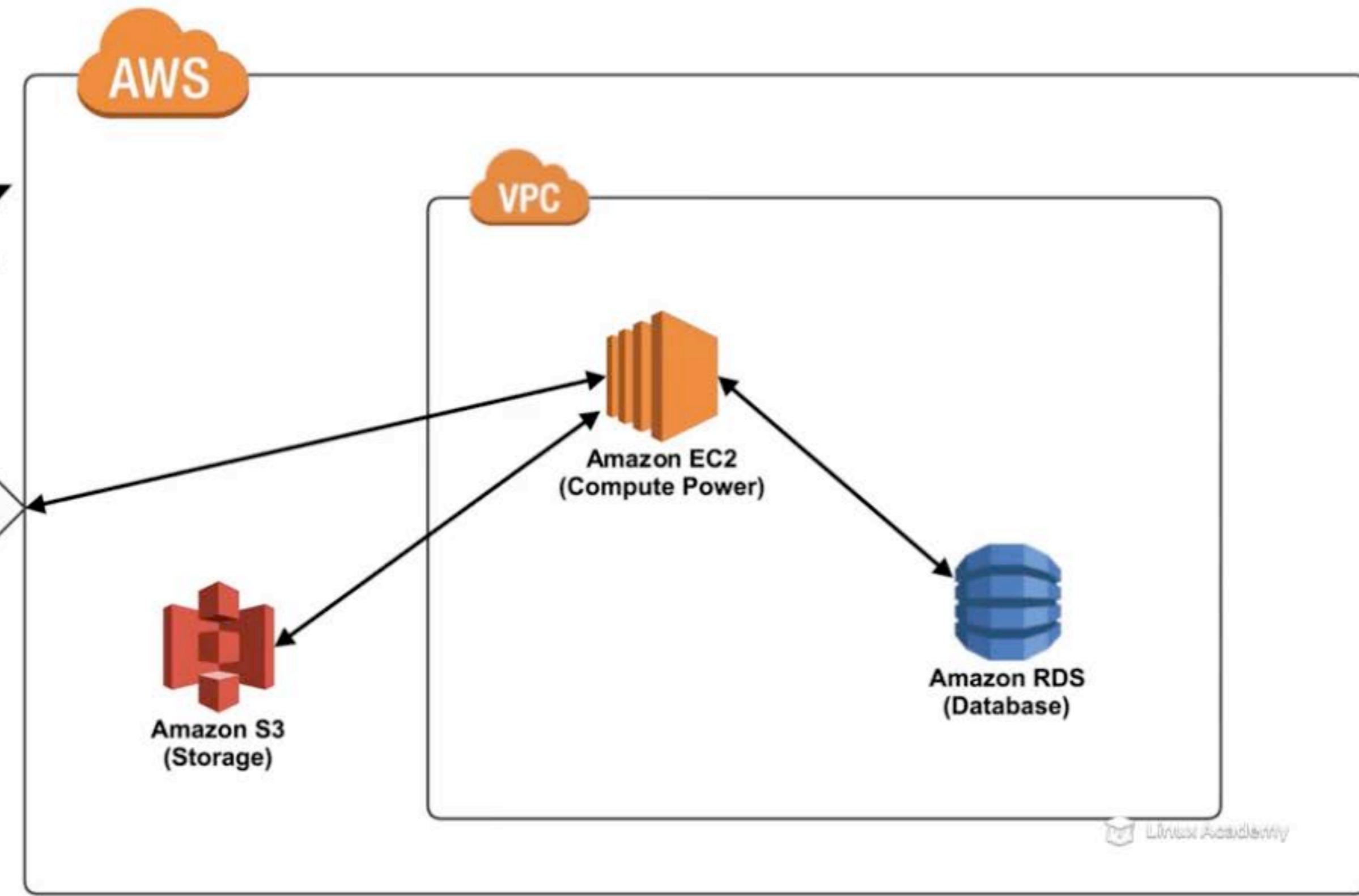




Netflix



Internet Connection





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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

High-Level Introduction

to Amazon Web Services, using

Oversimplification of Concepts

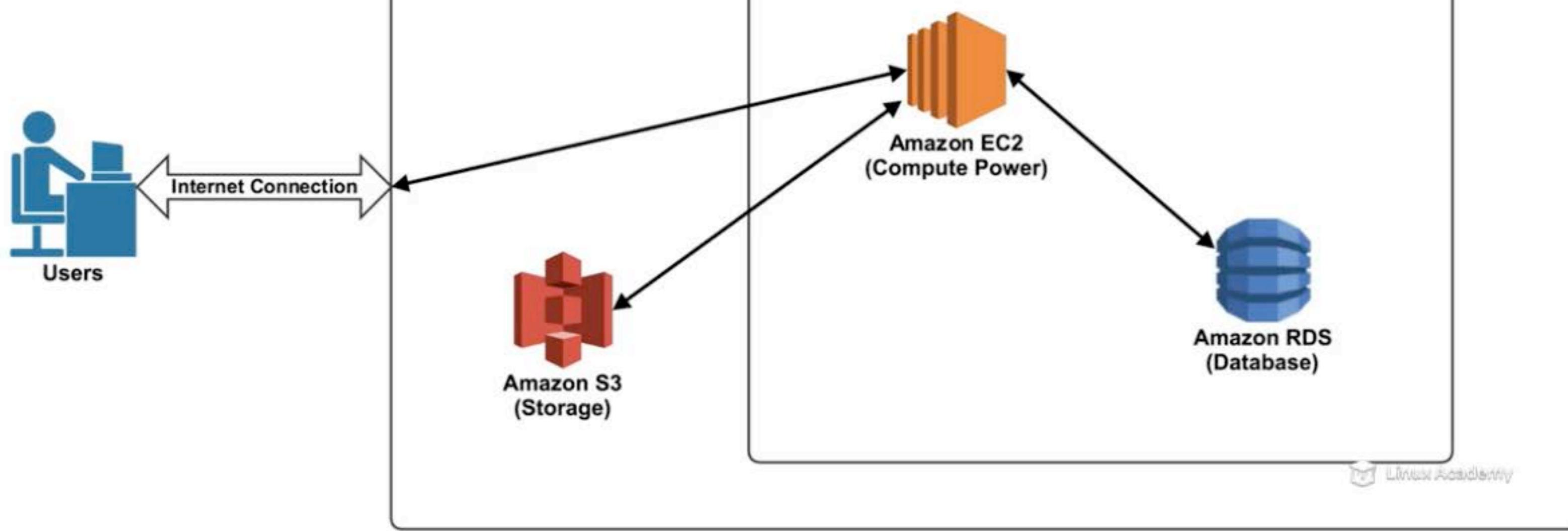
for the purpose of providing a

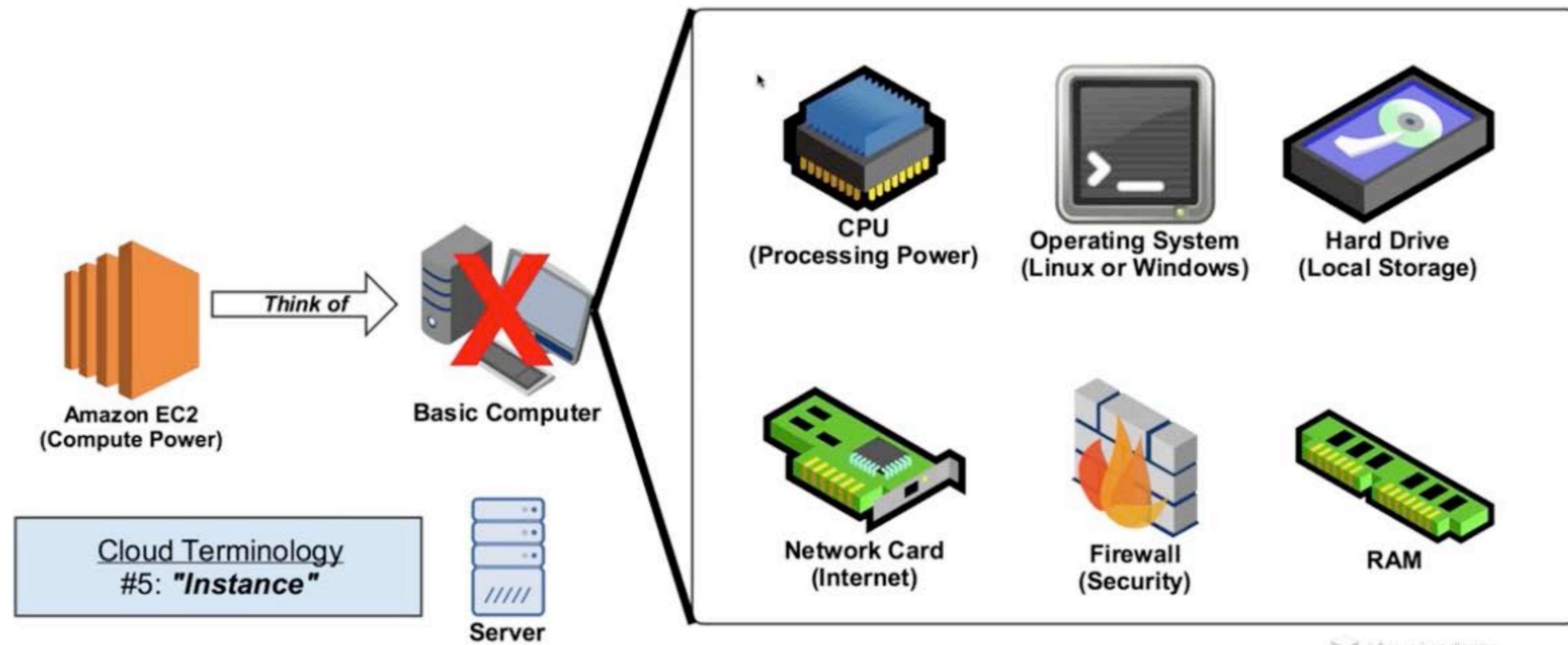
Frame-of-Reference

for you to move forward.



Netflix







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See what's next.

WATCH ANYWHERE. CANCEL ANYTIME.

JOIN FREE FOR A MONTH

No commitments

Watch anywhere

Pick your price

Sign In

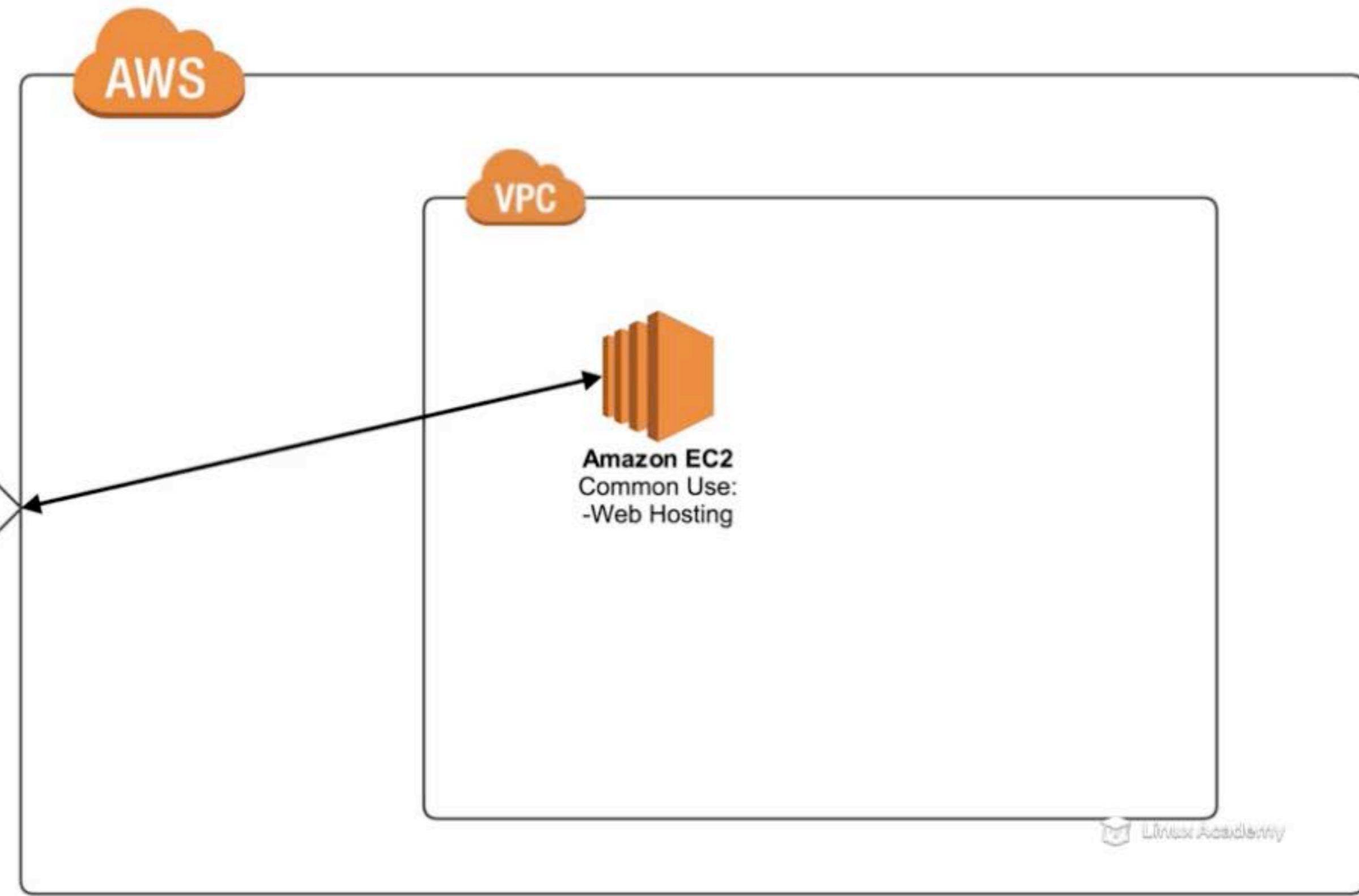
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Internet Connection





Recap:

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

Cloud Terminology

#5: "**Instance**"



The image shows the Netflix sign-in page. The background features a dark, moody cityscape with the Empire State Building and other skyscrapers. In the foreground, there is a close-up portrait of the superhero Daredevil wearing his red mask and suit. The sign-in form is centered over the background. It includes fields for 'Email' and 'Password', a 'Forgot your email or password?' link, a 'Remember me on this device.' checkbox, a red 'Sign In' button, and a blue 'Login with Facebook' button. Below the form, there is a link for new users to 'Sign up now.'

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Sign In

Email

Password

Forgot your email or password?

Remember me on this device. ?

Sign In

Login with Facebook

New to Netflix? [Sign up now.](#)

Questions? Call 1-866-579-7172

[Gift Card Terms](#)

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[Privacy Statement](#)



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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



Provide a

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Oversimplification of Concepts

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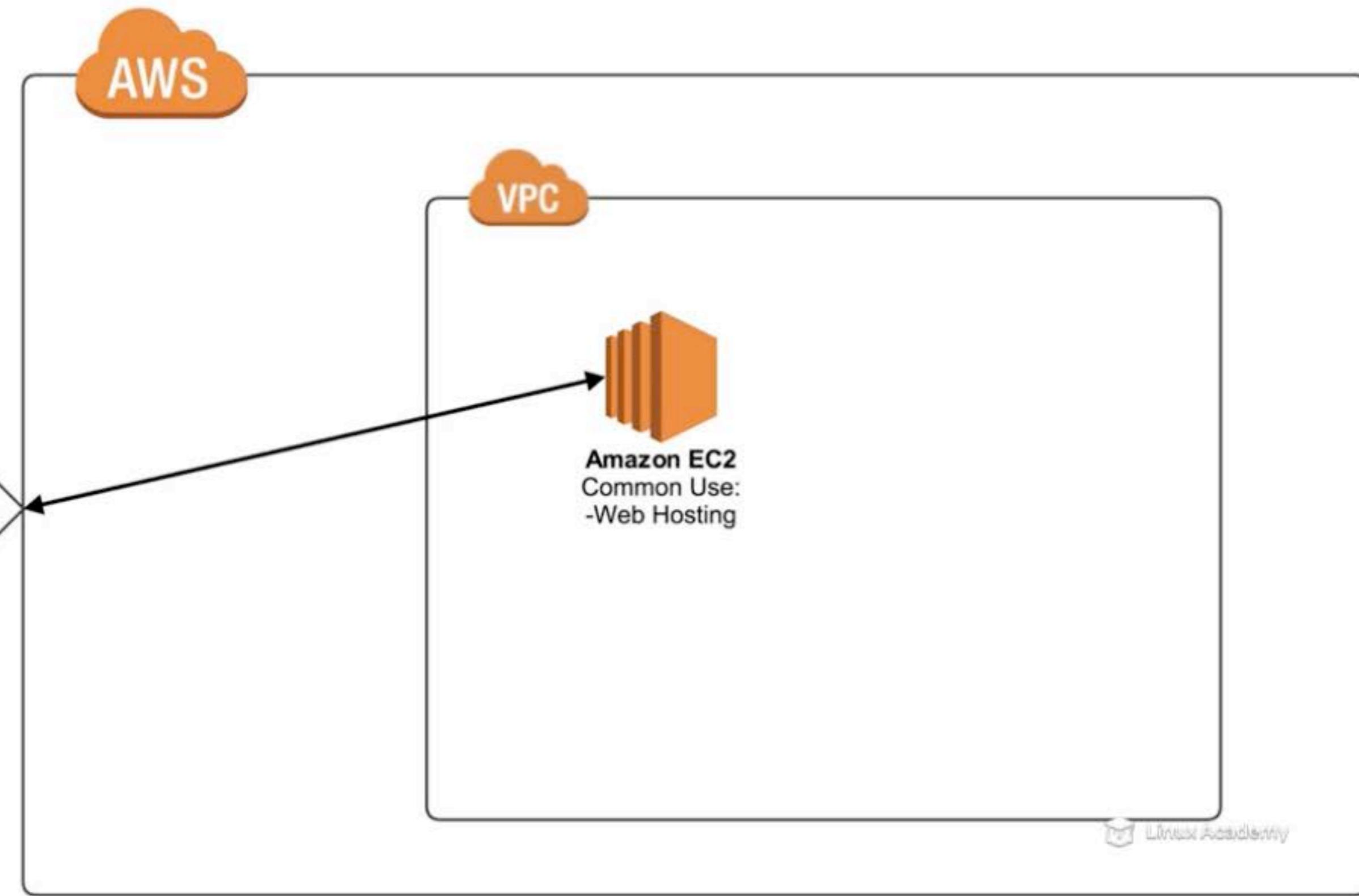




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Internet Connection





NETFLIX

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JOIN FREE FOR A MONTH

No commitments

Watch anywhere

Pick your price

Sign In

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The image shows the Netflix sign-in page. The background features a dark, moody cityscape with the Empire State Building and other skyscrapers. In the foreground, there is a close-up portrait of the superhero Daredevil, wearing his signature red mask and suit. The Netflix logo is visible in the top left corner of the sign-in box.

Sign In

Email

Password

[Forgot your email or password?](#)

Remember me on this device. ?

Sign In

Login with Facebook

New to Netflix? [Sign up now.](#)

Questions? Call 1-866-579-7172

[Gift Card Terms](#)

[Terms of Use](#)

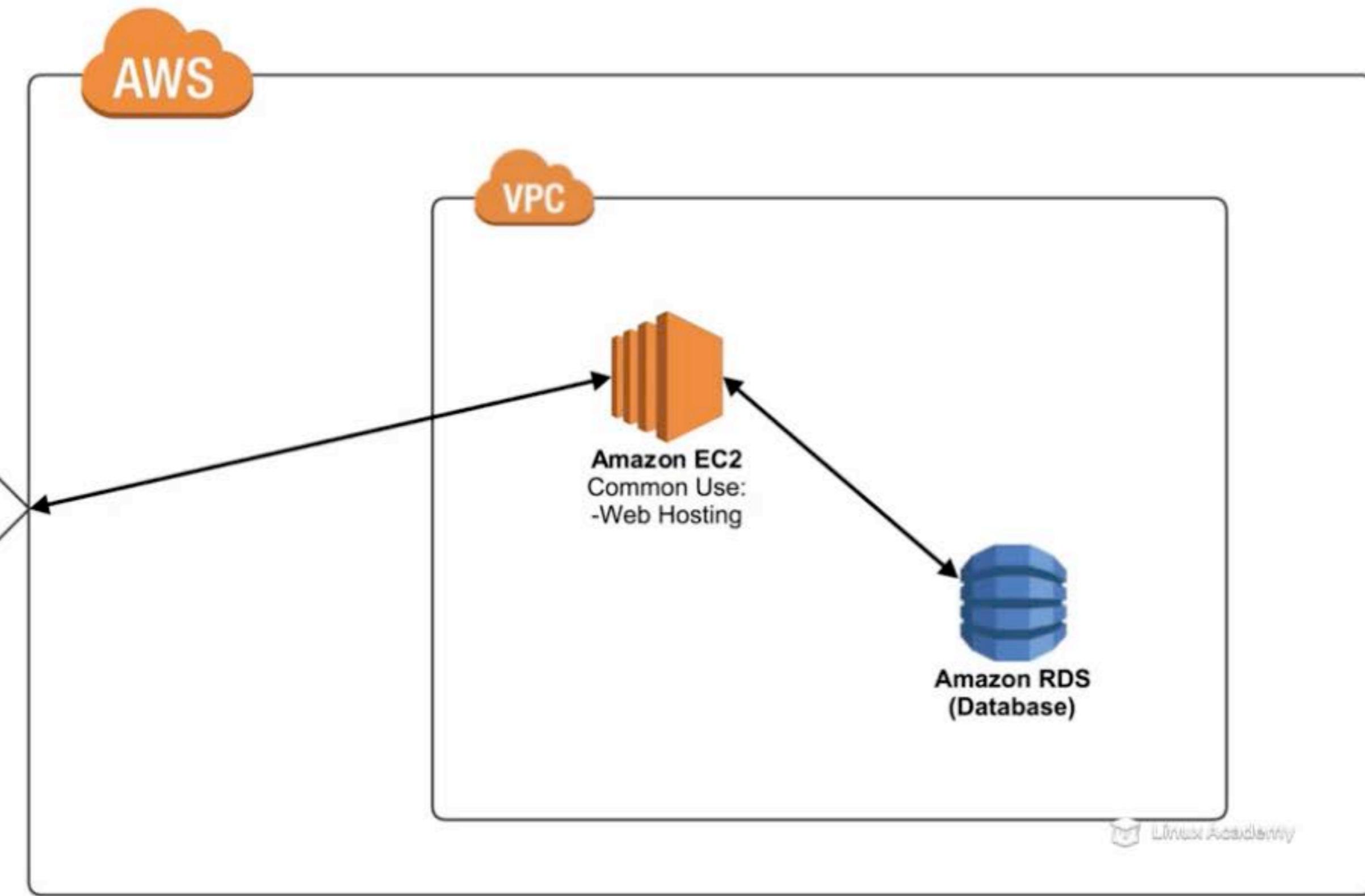
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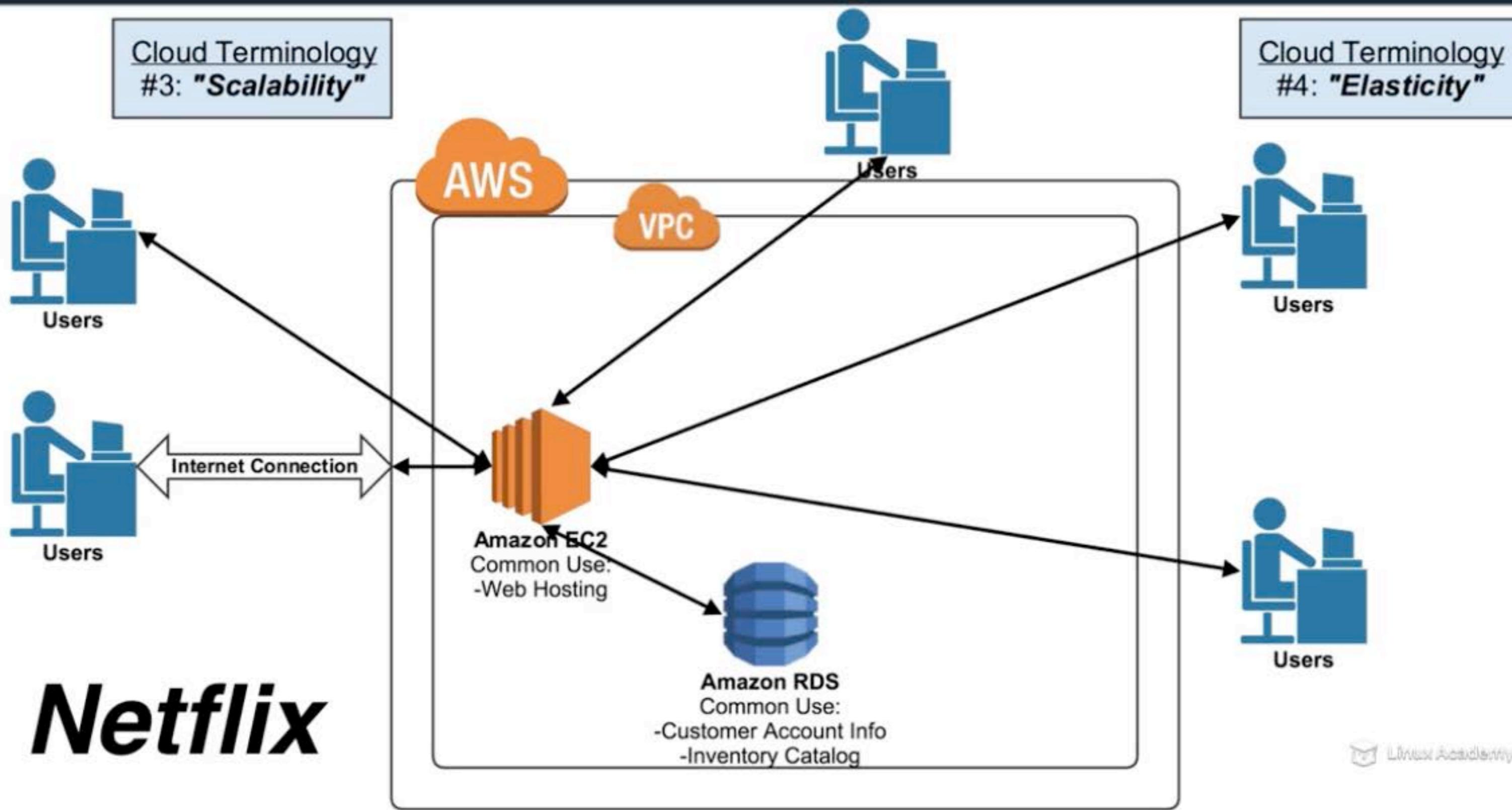
Popular on Netflix

Watch It Again

Linux Academy

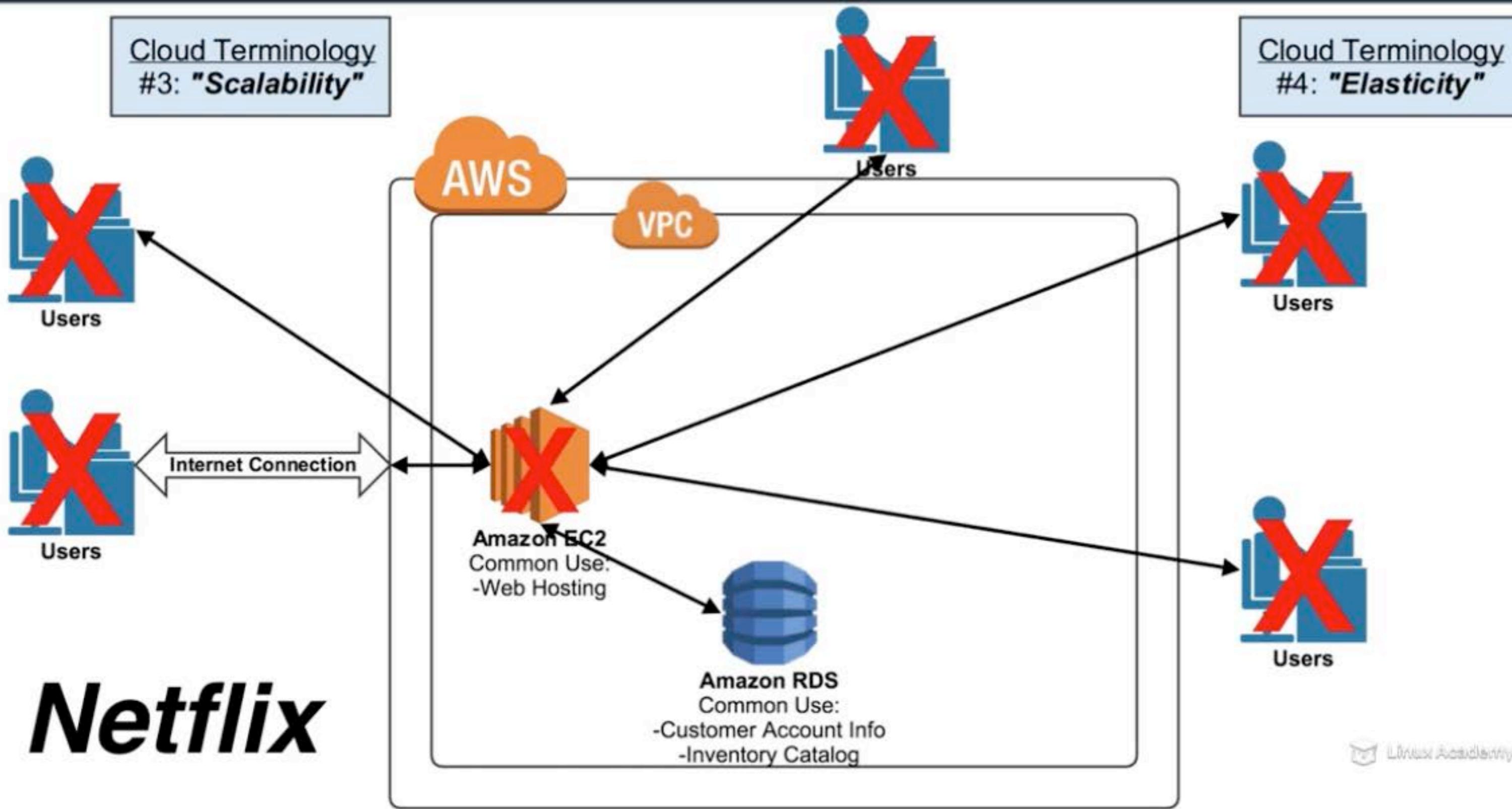


Cloud Terminology
#3: "**Scalability**"





Cloud Terminology #3: "Scalability"



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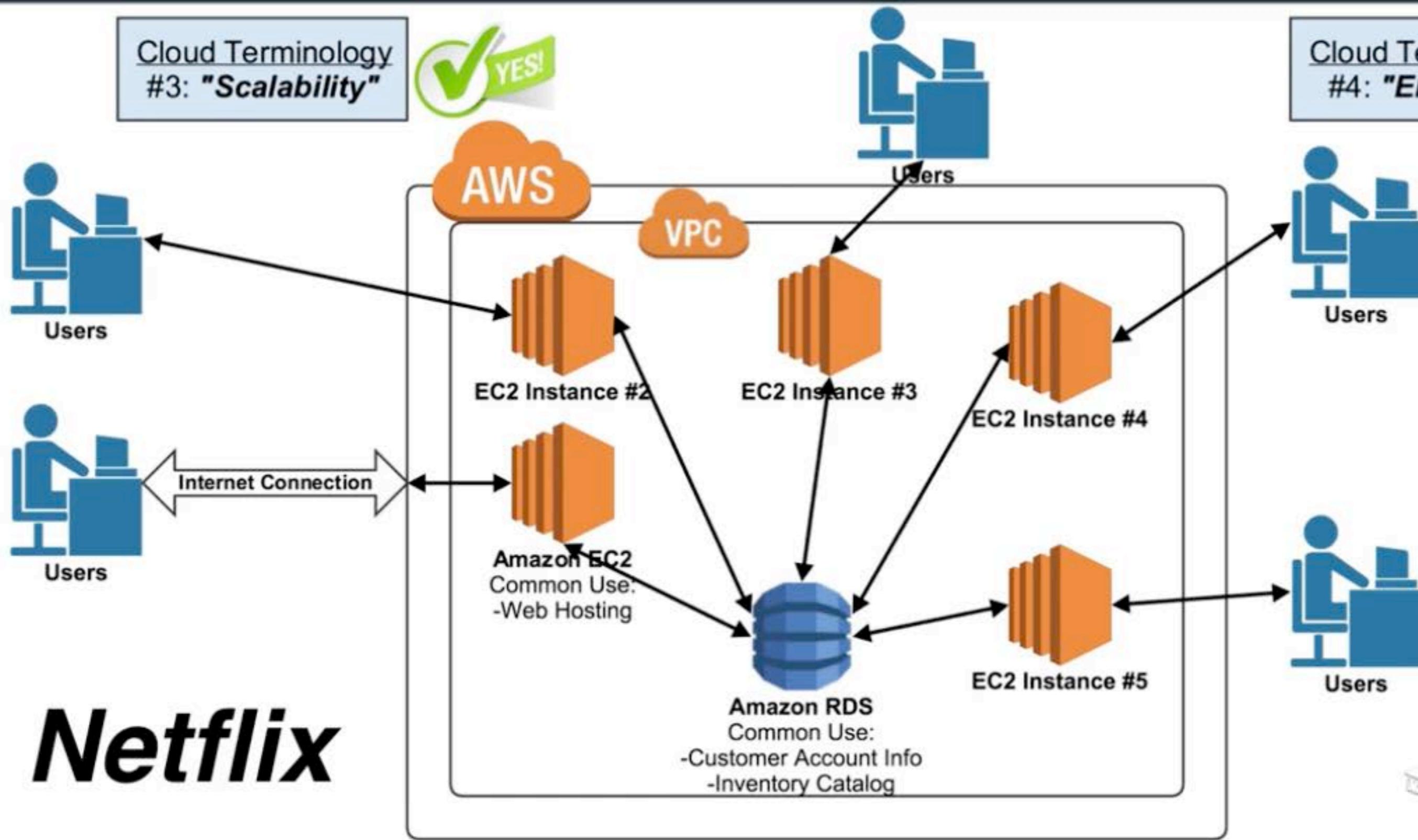
Cloud Terminology #4: "Elasticity"



Cloud Terminology
#3: "Scalability"

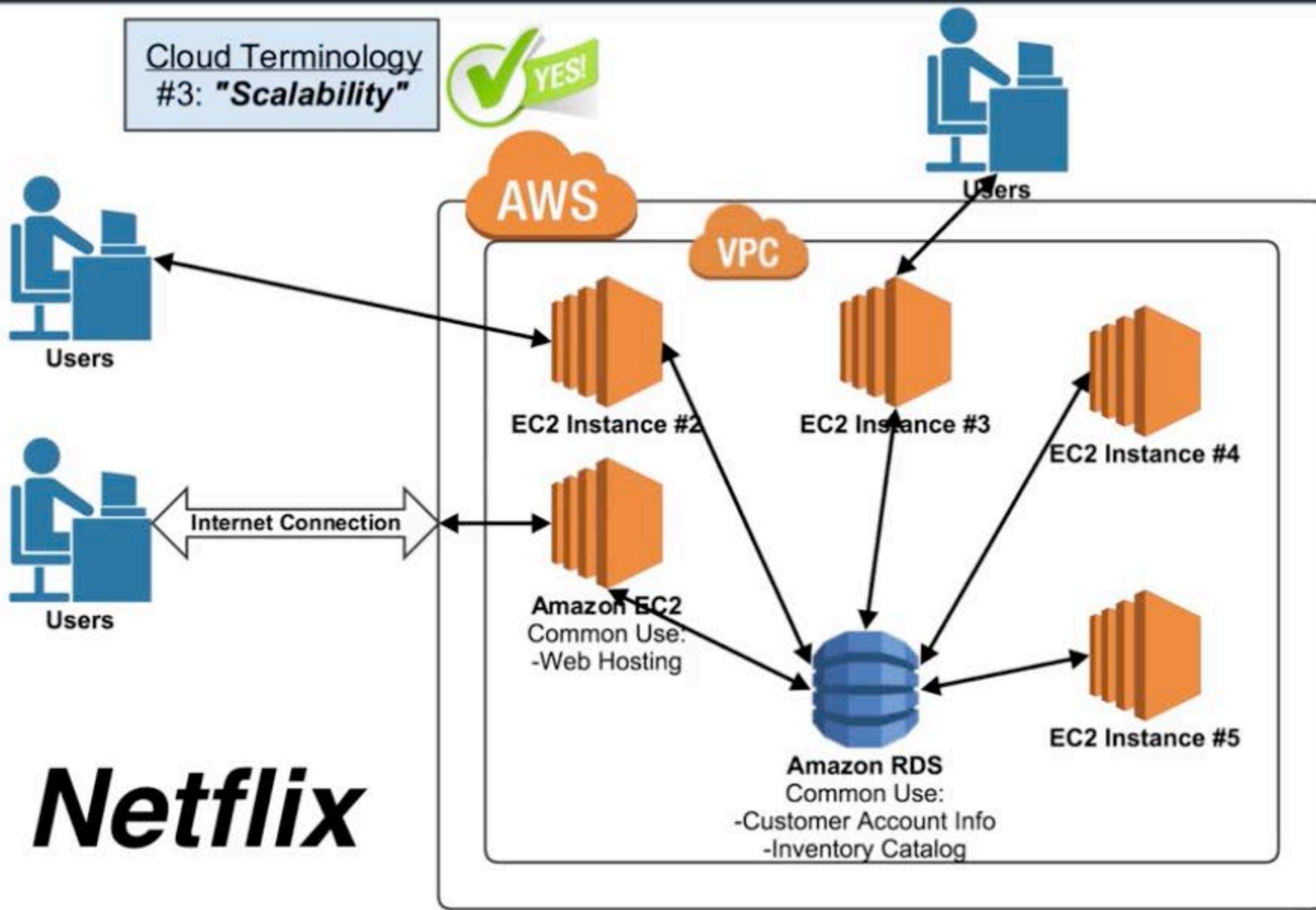


Cloud Terminology
#4: "Elasticity"



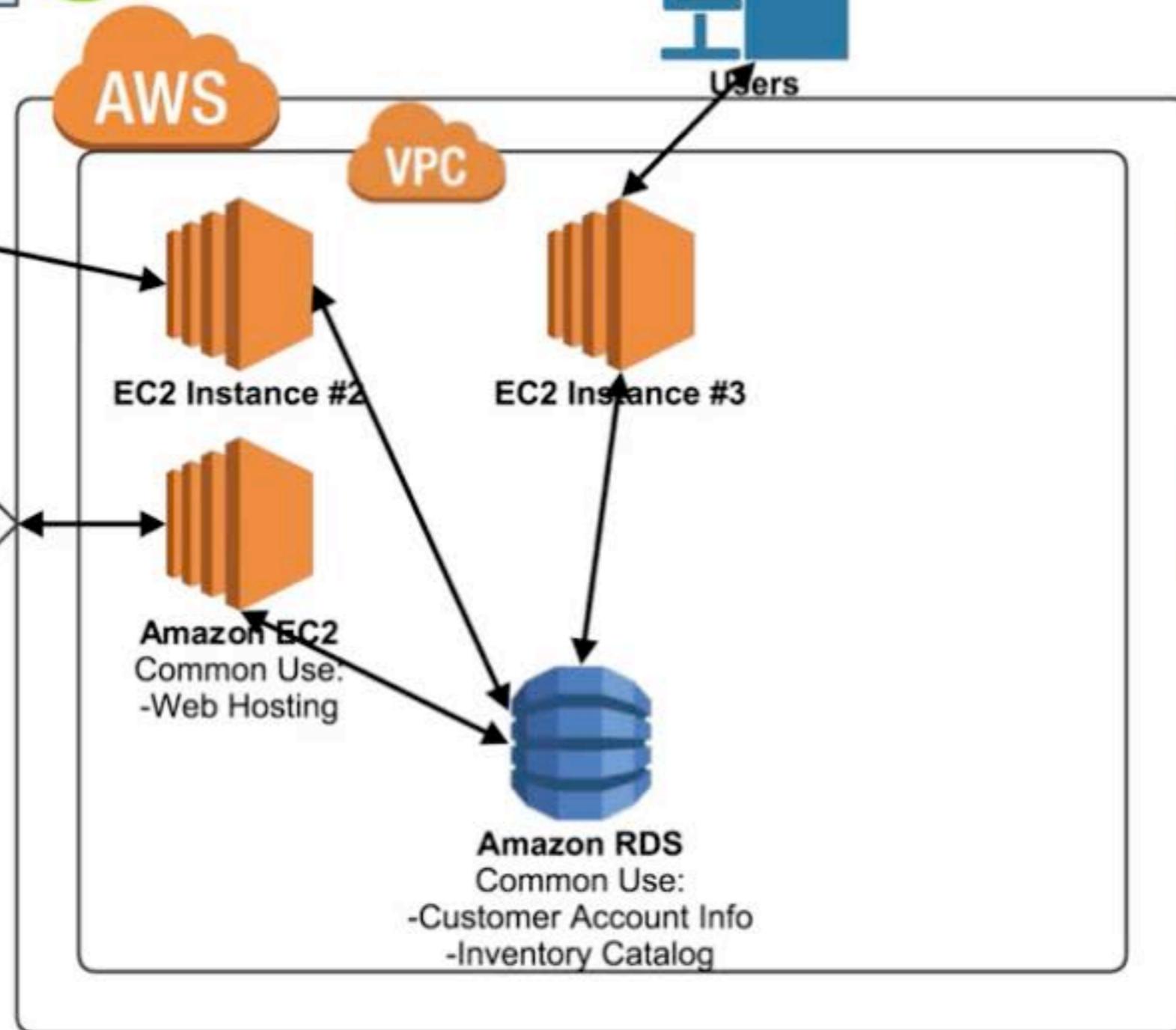


Cloud Terminology
#3: "Scalability"





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



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

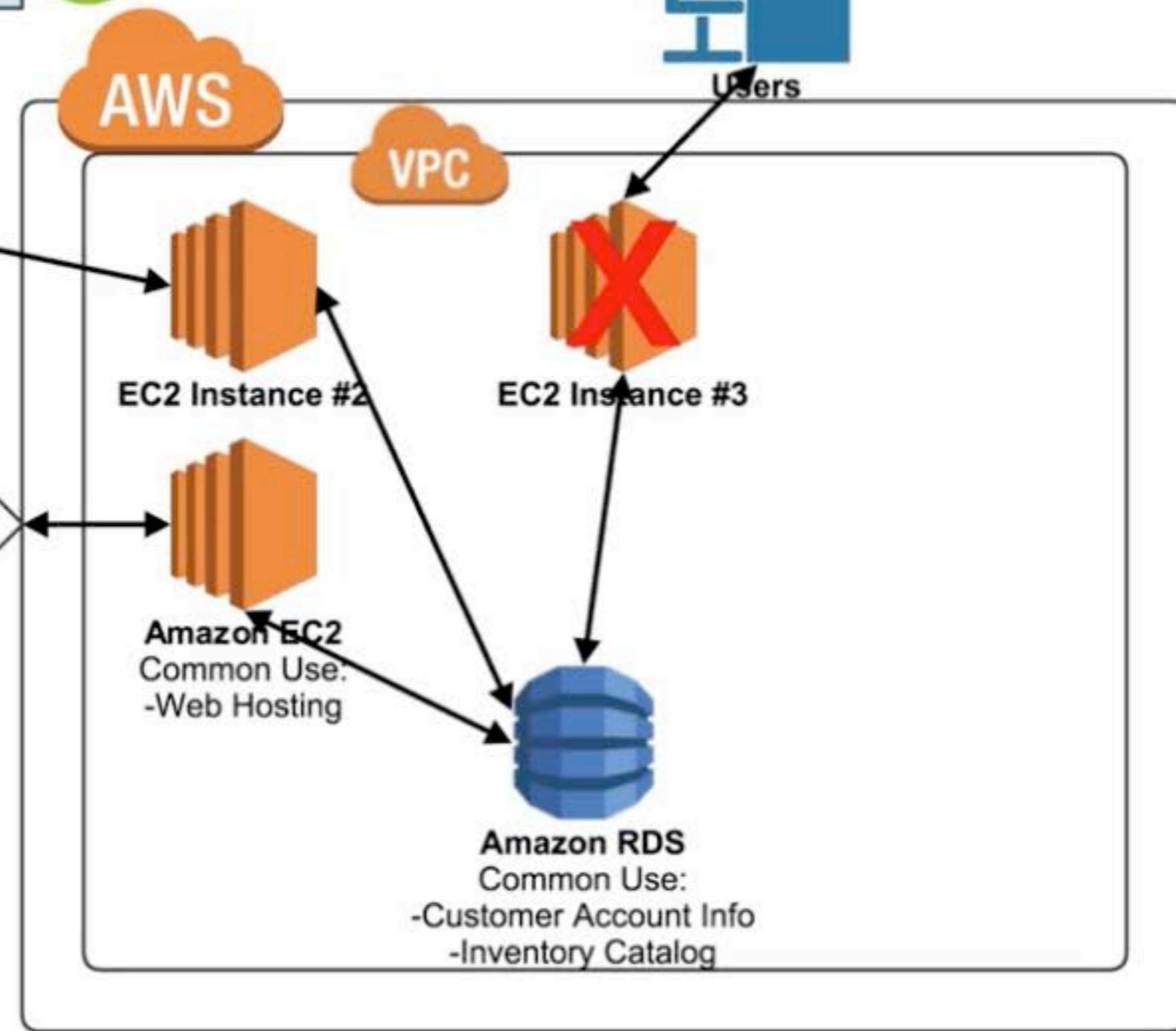


Cloud Terminology
#1: "**High Availability**"

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



Cloud Terminology
#3: "Scalability"



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Cloud Terminology
#4: "Elasticity"



Cloud Terminology
#1: "High Availability"



Cloud Terminology
#2: "Fault Tolerant"



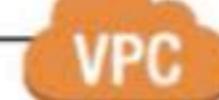
Cloud Terminology
#3: "Scalability"



Users



Users



Users

EC2 Instance #2

EC2 Instance #3

Amazon EC2
Common Use:
-Web Hosting

Amazon RDS
Common Use:
-Customer Account Info
-Inventory Catalog

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Cloud Terminology
#4: "Elasticity"



Cloud Terminology
#1: "High Availability"



Cloud Terminology
#2: "Fault Tolerant"





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 ORIGINALS

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 ex.

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.

OVERVIEW EPISODES TRAILERS & MORE DETAILS

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Introduction to AWS: RDS

Thank you for watching!



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Amazon Web Services

Introduction to AWS: S3



Provide a

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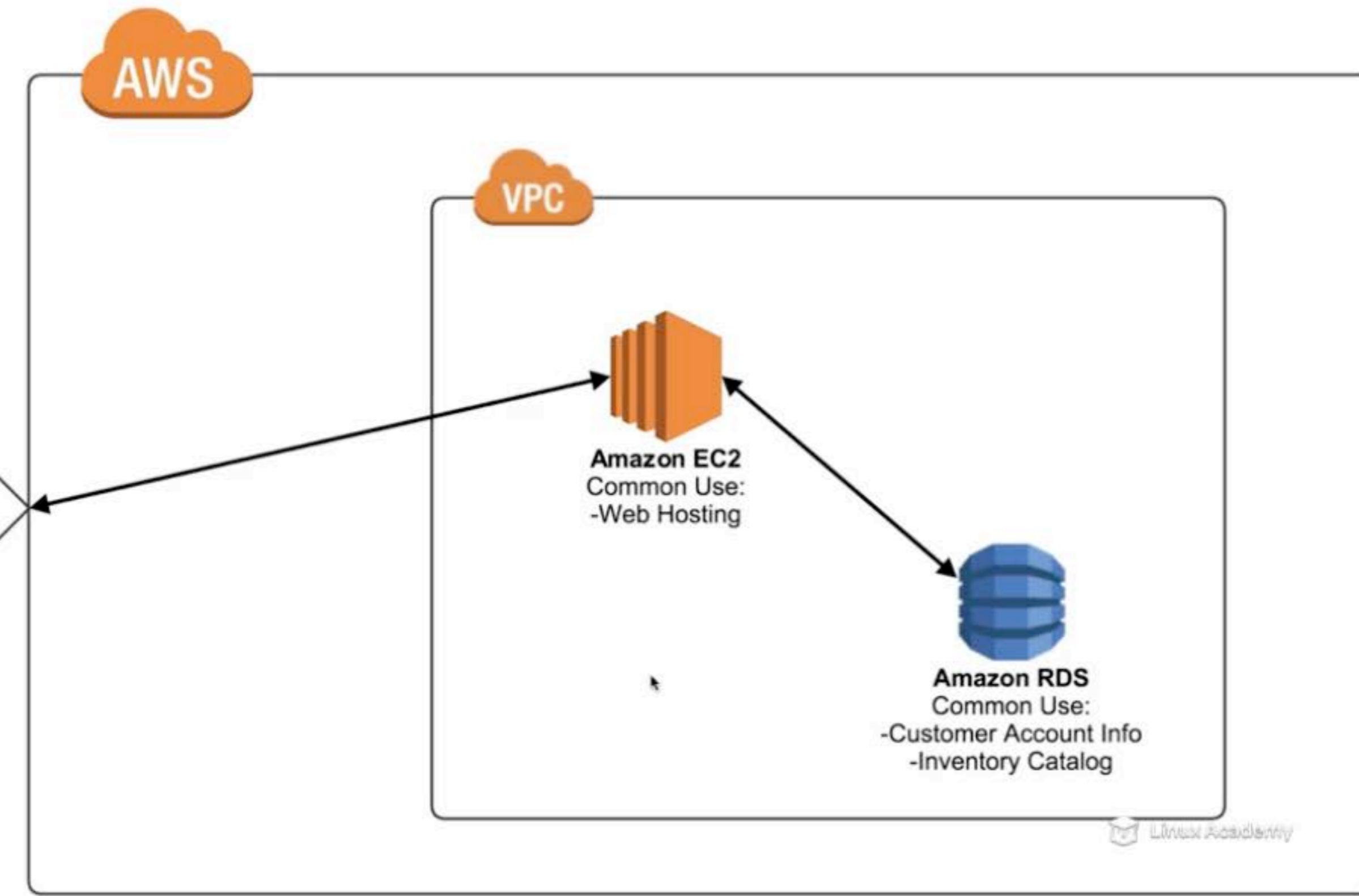
for you to move forward.



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Users





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NETFLIX ORIGINALS

**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.

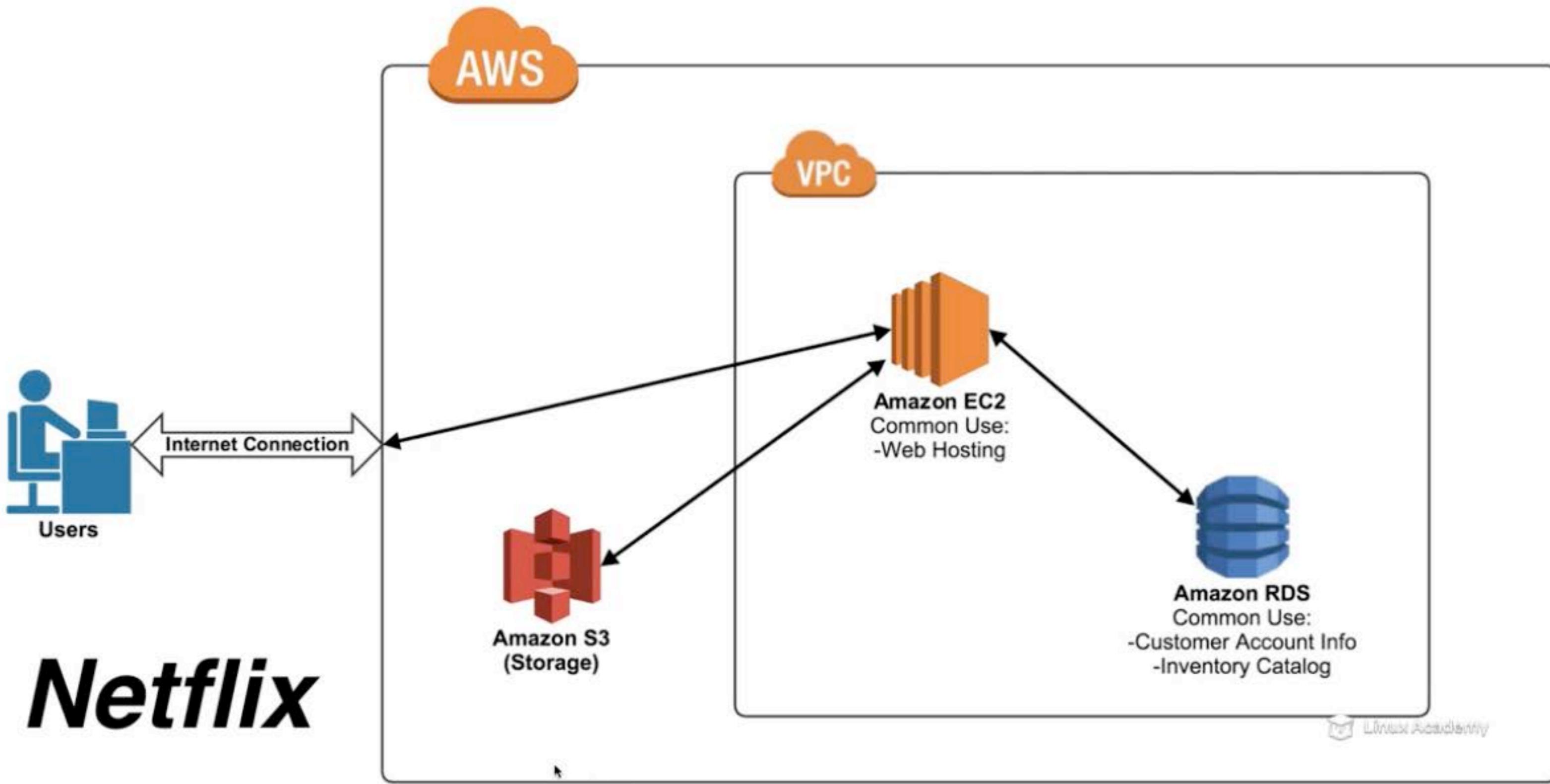
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[OVERVIEW](#) [EPISODES](#) [TRAILERS & MORE](#) [DETAILS](#)

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Recap:

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



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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.

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Introduction to AWS: S3

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Introduction to AWS: EC2 (Part 2)



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NETFLIX ORIGINALS >

NETFLIX ORIGINAL
ARReSTeD DeVELOPMeNT

SEASON 1

1 21m
Pilot
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 22m
Top Banana
When Michael attempts to gain control of the family business, his imprisoned father won't let him, leading to the banana stand's destruction.

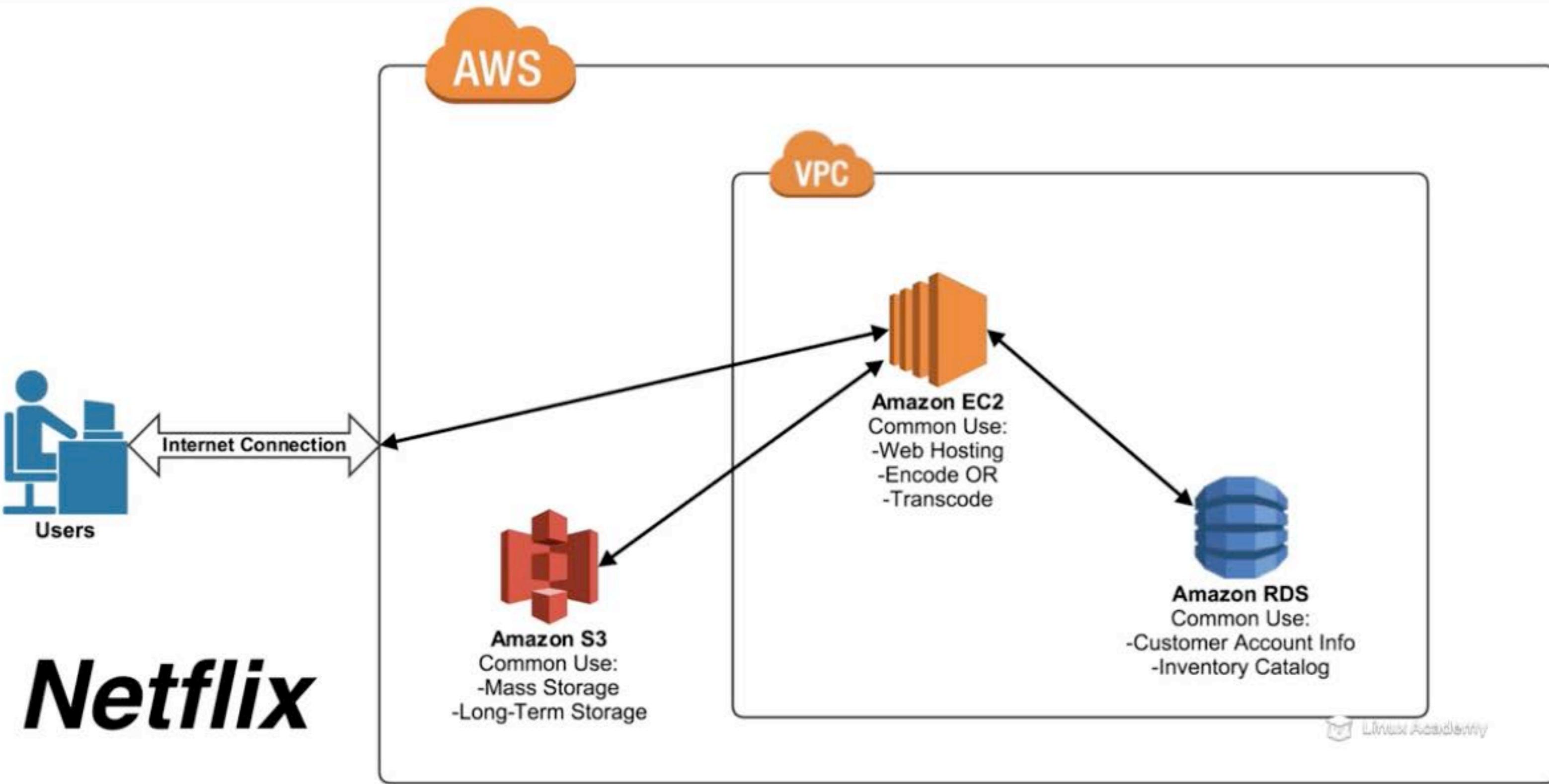
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Bringing Up Buster
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Charity Drive
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OVERVIEW EPISODES TRAILERS & MORE DETAILS

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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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Introduction to AWS: EC2 (part 2)

Thank you for watching!



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Amazon Web Services

Introduction to AWS: Global Infrastructure



Provide a

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Oversimplification of Concepts

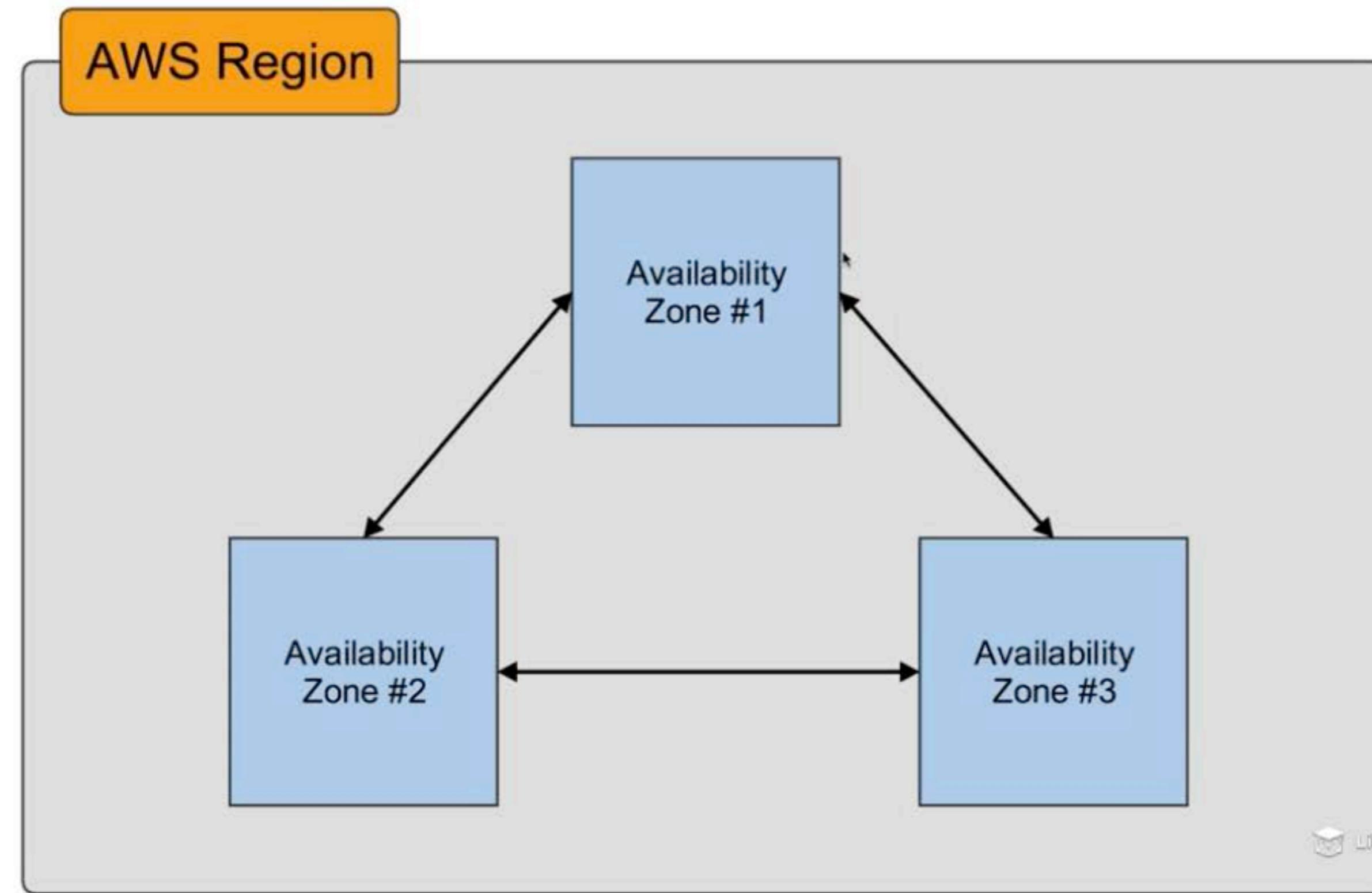
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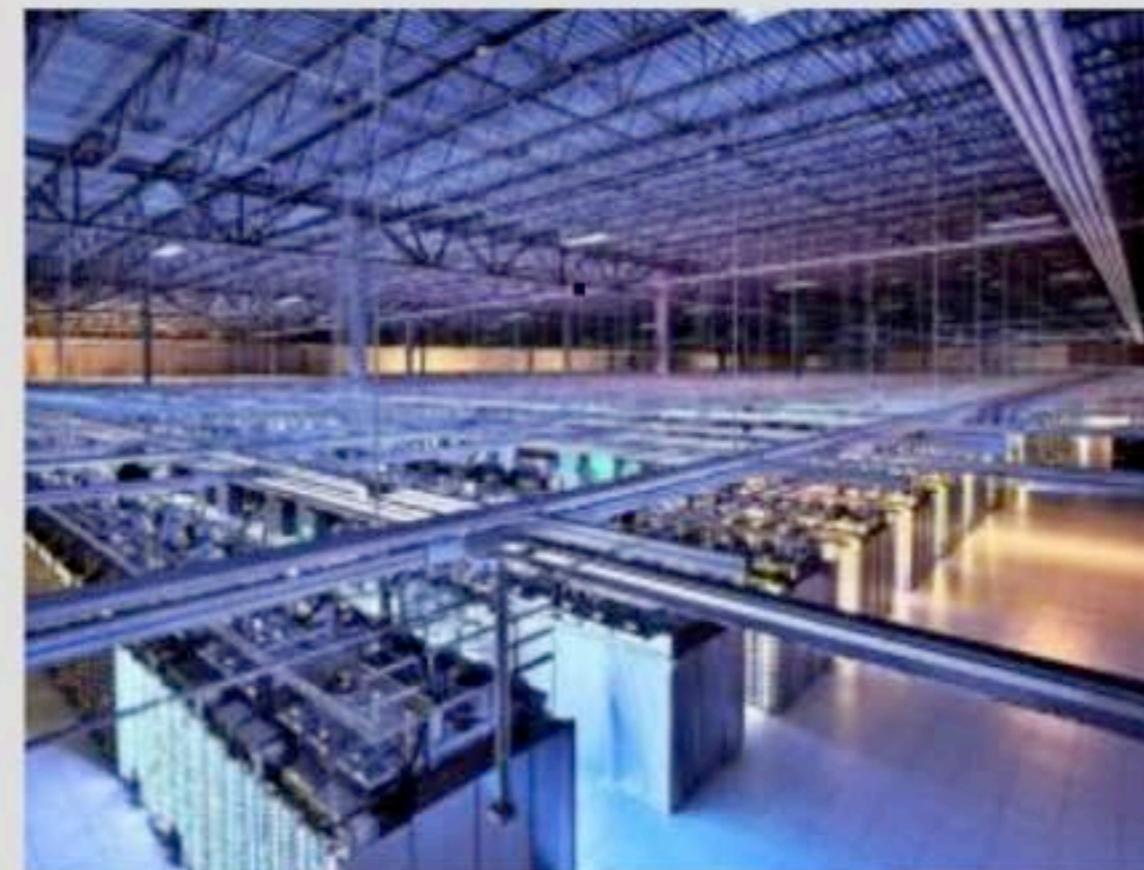
Image source: <https://aws.amazon.com/about-aws/global-infrastructure/>





Availability Zone

Data Center:





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Introduction to AWS: Global Infrastructure

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Introduction to AWS: What's Next?



Congratulations!
On completing AWS Concepts

Let's talk about what you should do next.



Linux Academy:

Share your success!

- Post your Linux Academy ‘Certificate of Completion’ on LinkedIn.
 - Share your success on the Linux Academy community.
- Answer questions by other students on the Linux Academy community
 - and earn reputation points.



Linux Academy:

Short, Quick Training Material

- Listen to our Podcast.
- Read some of our blog posts.
- Watch some “Quick Training” videos.



Linux Academy:

Comprehensive training

- Professional Certification Prep Courses
- Non-certification Skill Development Courses

Diagram Key

Category

Platform

Beginner Course

Intermediate Course

Advanced Course

Coming Soon

Cross Category Prerequisite

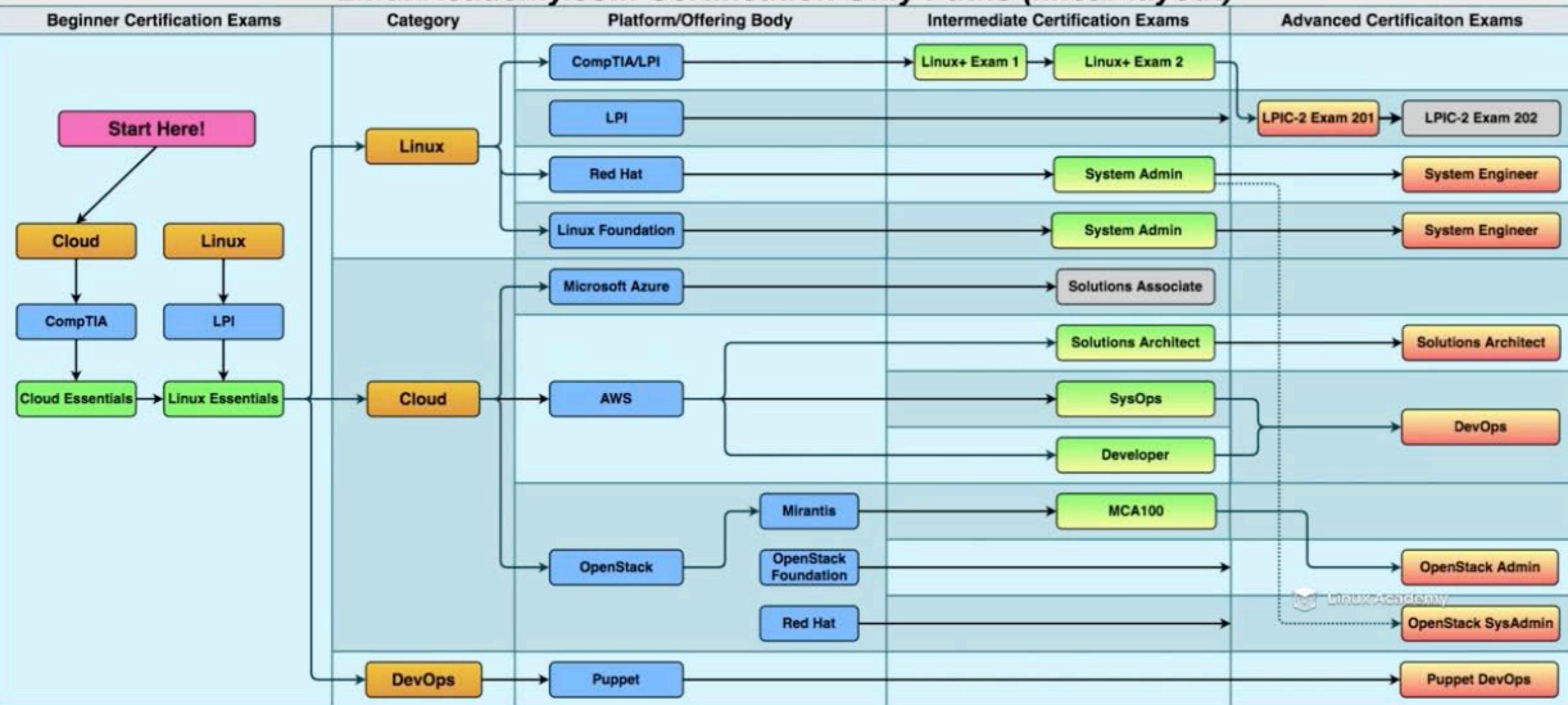
LinuxAcademy.com Certification Only Paths (linear layout)



Diagram Key

Category

Skill Group

Beginner Level Course

Prerequisite: None

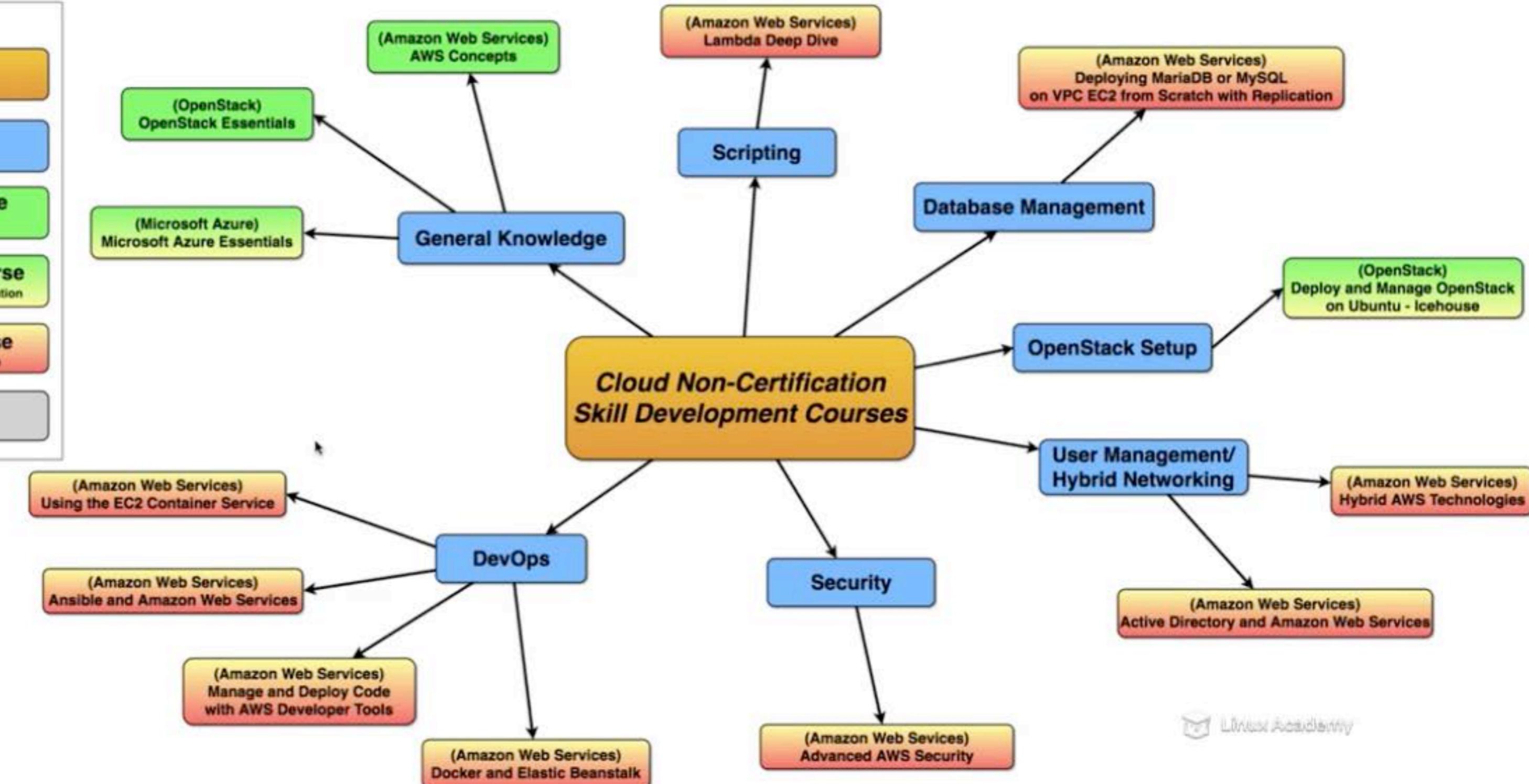
Intermediate Level Course

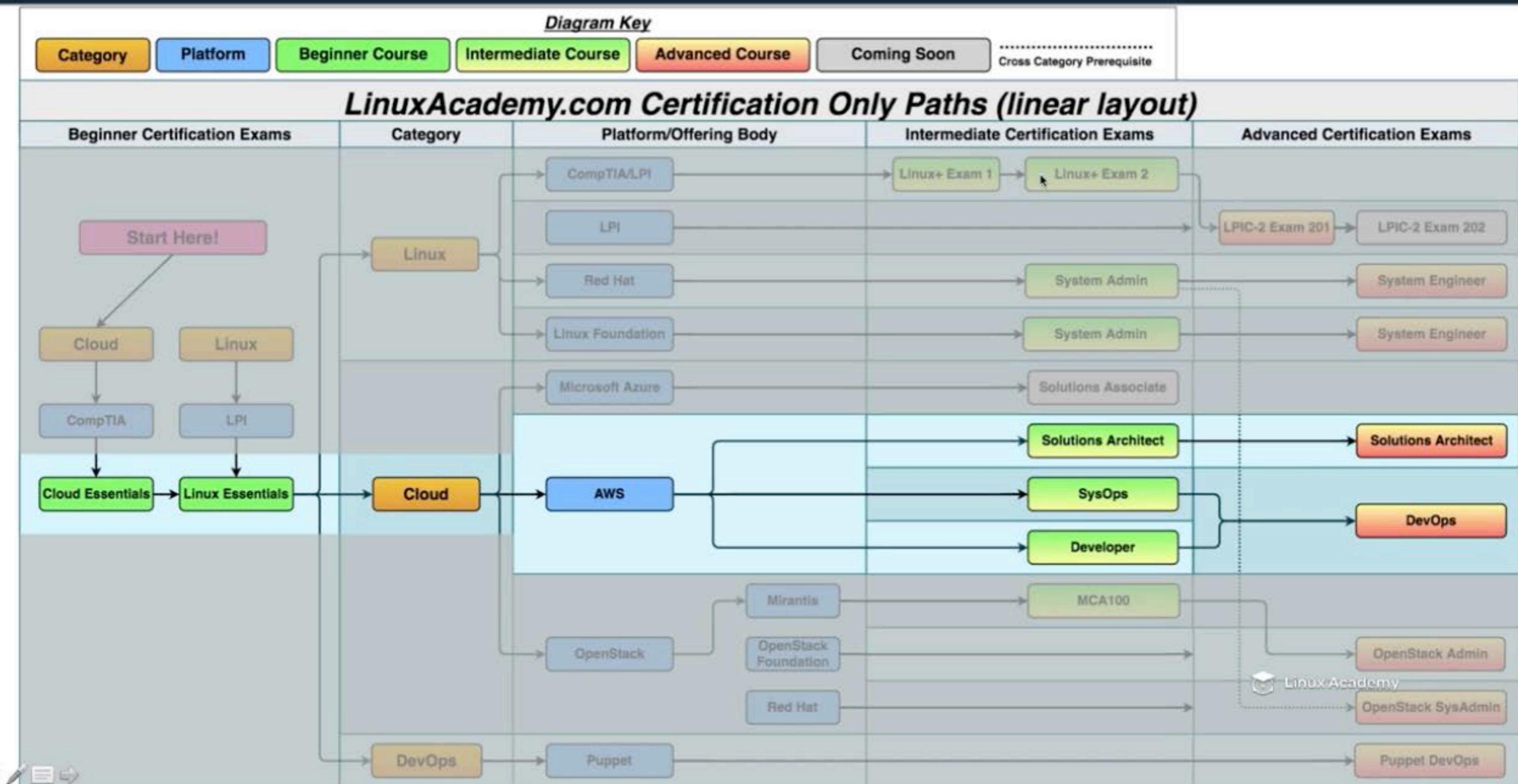
Prerequisite: Cloud Essentials Certification

Advanced Level Course

Prerequisite: Any AWS Certification

Coming Soon







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Introduction to AWS: What's Next?

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