

FULL STACK



Introduction to Cloud Computing

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Building a Business Case for Cloud



Learning Objectives

By the end of this lesson, you will be able to:

- 🕒 Explain the reasons Airbnb chose to move to the cloud
- 🕒 Explain Airbnb's financial implications of moving to the cloud
- 🕒 Describe how AWS helps Airbnb maintain business continuity
- 🕒 List the benefits Airbnb enjoyed after its cloud migration



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Financial Implications of Using Cloud

Rent or Ownership?



Rent

- Cost
- Upgrade options
- Safety
- Quality



Ownership

- Cost
- Maintenance
- Real estate



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Airbnb: Business Use Case

Airbnb

Who They Are

Airbnb connects travelers with property owners.

Started over a decade ago, the company is now estimated at a valuation of \$31 bn.



Airbnb

What They Foresaw

As Airbnb grew, they foresaw:

- High investment in information technology
- High infrastructure costs



What They Needed

Airbnb realized that to succeed, they would have to:

- Move fast and stay lean
- Focus resources on their core business rather than on taking care of the infrastructure



Airbnb

What Their Solution Was

Airbnb decided to rent the infrastructure and services by migrating to the cloud.

Today, Airbnb's business is hosted completely on AWS Cloud.



Airbnb

Which Cloud Services They Use

- EC2
- Aurora DB
- S3
- DynamoDB
- Elastic Cache
- Route 53



Airbnb

What They Have Achieved

- Flexibility
- Lower operating cost
- No downtime
- More innovation
- Higher security



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Business Continuity

How They Maintain Business Continuity

- Airbnb used innovative solutions while migrating from Amazon RDS to Amazon Aurora to preserve business continuity.
- They completed this database migration on cloud with a downtime of just 15 minutes.
- Airbnb uses AWS' monitoring services to supervise all the servers through a single console.



Key Takeaways

- AirBnB migrated to the cloud, as it offered a flexible, cost-effective, scalable, and secure solution.
- AWS helped preserve business continuity for AirBnB by reducing downtime, monitoring its services, and providing innovate solutions.
- AirBnB now focuses on operating core business while the cloud provider manages infrastructure.

