

AWS for Abyssinia streaming

Prepared by group 2

Company overview

Abyssinia streaming is
audio streaming company



Works on music and
audiobooks



New to the cloud concept



Located in Ethiopia



Global customers



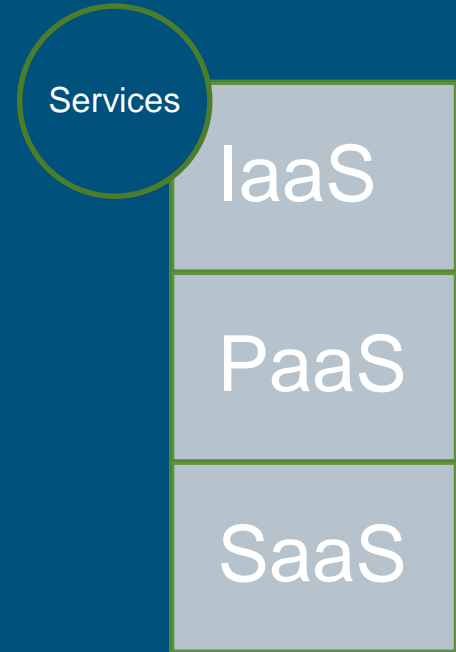
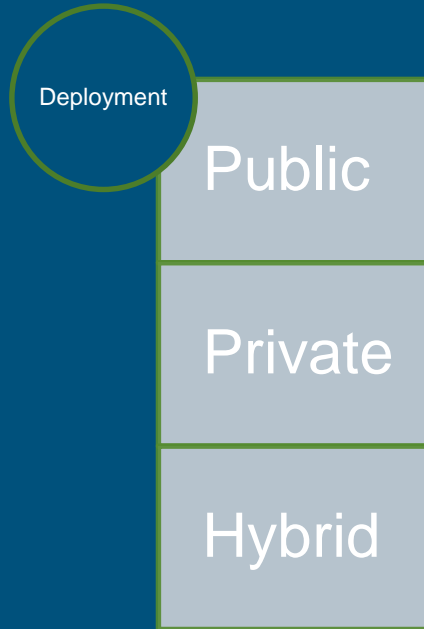
problems



Cloud computing

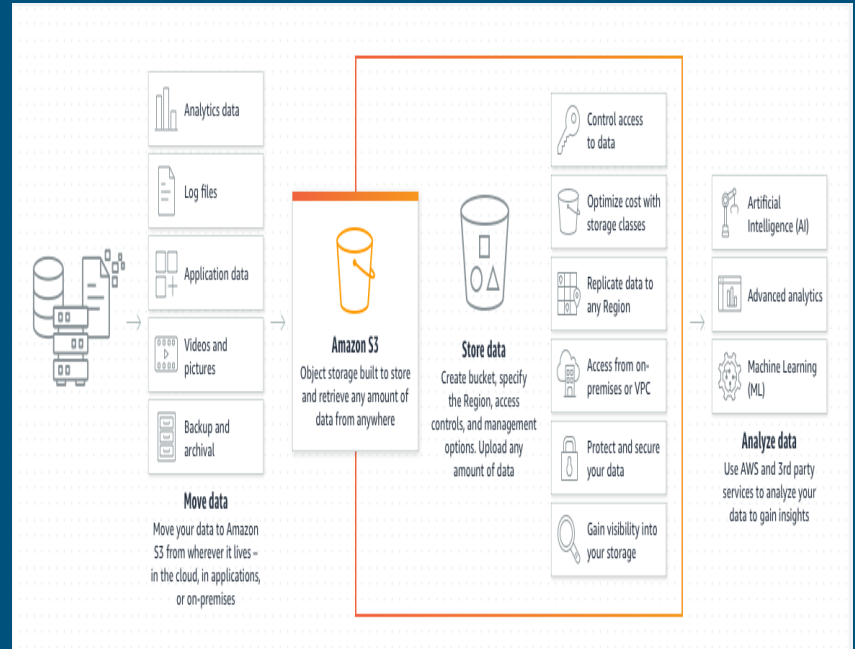
Cloud computing

- Delivering network, computing, storage, and other services to the user via the internet.



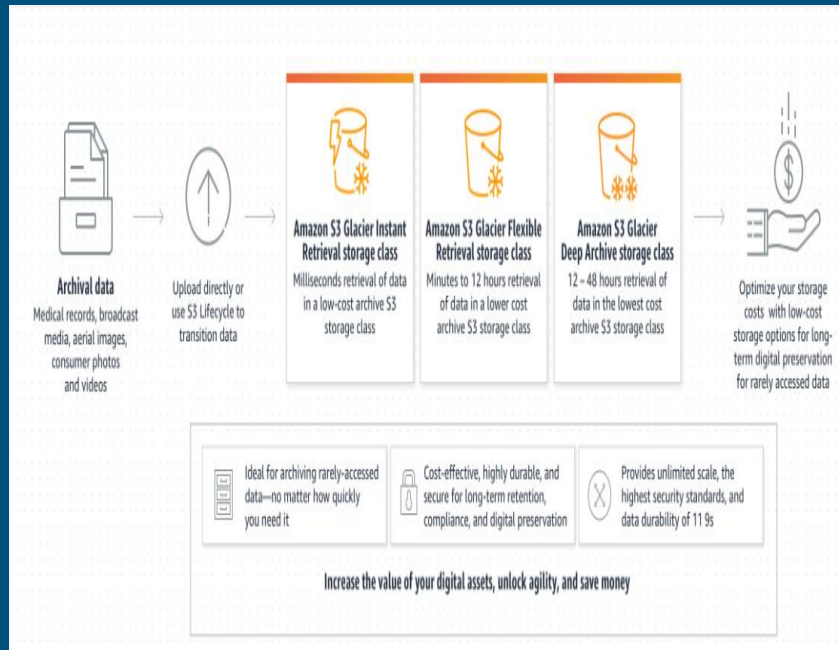
Amazon S3

- Is an object storage service offering industry-leading scalability, data availability, security, and performance. Customers of all sizes and industries can store and protect any amount of data for virtually any use case
- Helps to improve ingestion speed



Amazon S3 Glacier

- Is used as a data archive, largely for the files' metadata.
- The combined benefit of Amazon S3 and Amazon S3 Glacier is that it provides a low-cost way for retrieving the metadata—which contains information about the artist and the track.



An Amazon S3 pricing comparison

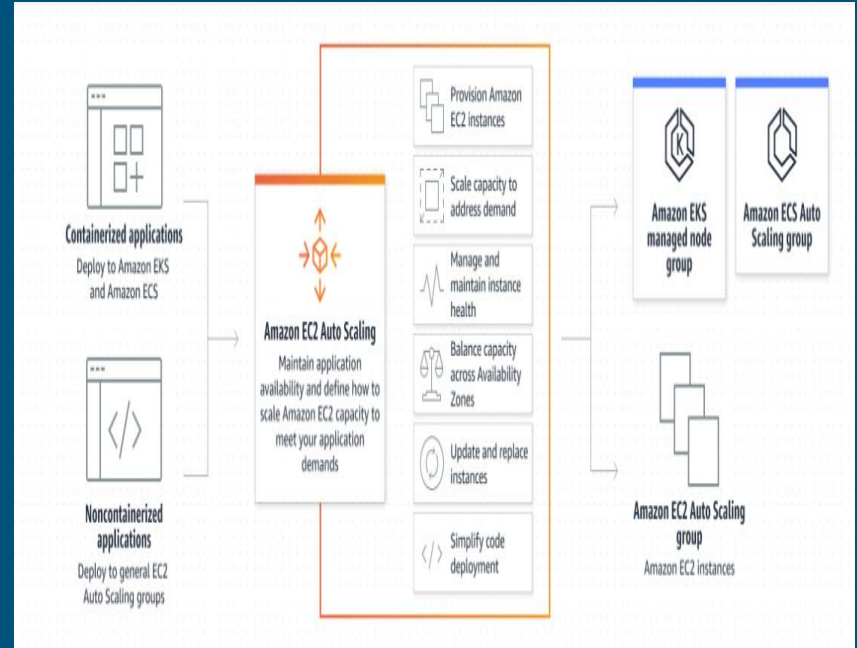
TIER	PURPOSE	COST PER GB PER MONTH
S3 Standard	General-purpose storage	\$0.023
S3 Intelligent-Tiering monitoring and automation	Data with unknown or changing access patterns	\$0.0025 per 1,000 objects plus monthly storage fee
S3 Intelligent-Tiering Frequent Access tier	Frequently used data with unknown or changing data access patterns	\$0.023
S3 Intelligent-Tiering Infrequent Access tier	Infrequently used data with unknown or changing data access patterns	\$0.0125
S3 Intelligent-Tiering Archive Instant Access tier	Archived or frequently used data with unknown or changing data access patterns	\$0.004
S3 Standard-IA (Infrequent Access)	Infrequently accessed data that needs on-demand millisecond access	\$0.0125
S3 One Zone-IA	Data that can be recreated if necessary, but that is accessed infrequently and needs millisecond access	\$0.01
S3 Glacier Instant Retrieval	Data that needs to be accessed once a quarter with millisecond access speeds	\$0.004
S3 Glacier Flexible Retrieval (Previously known as S3 Glacier)	Long-term backup and archive with retrieval times ranging from 1 minute to 12 hours	\$0.0036
S3 Glacier Deep Archive	Long-term data storage that can be accessed within 12 hours	\$0.00099

SOURCE: BRENN ROBERT, BASED ON U.S. EAST (VIRG) REGION

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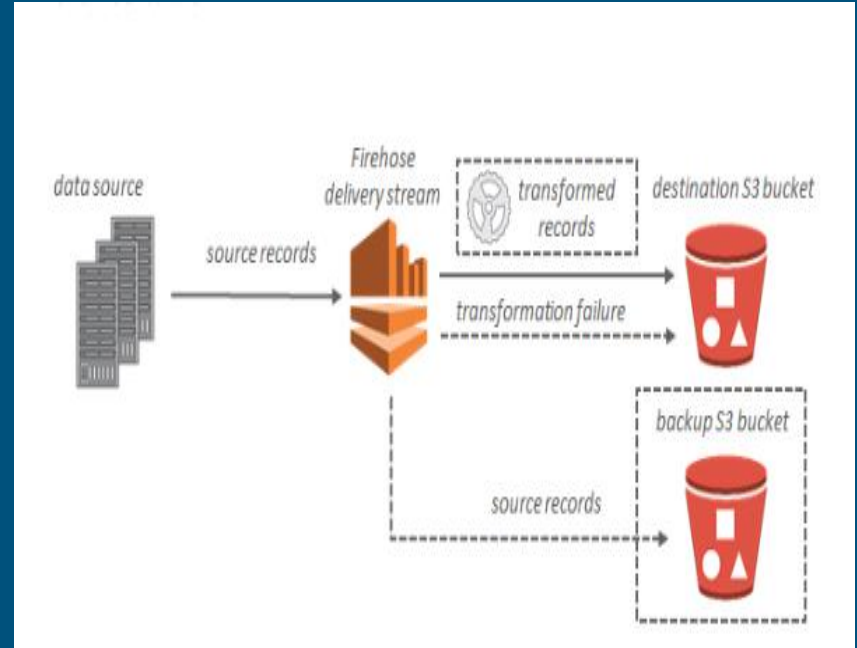
Amazon EC2 Auto Scaling

- It automatically adds or removes compute instances to maximize the performance of the streaming service
- **Amazon EC2** Auto Scaling features have no additional fees beyond the service fees for **Amazon EC2**, CloudWatch (for scaling policies), and the other AWS resources that you use.



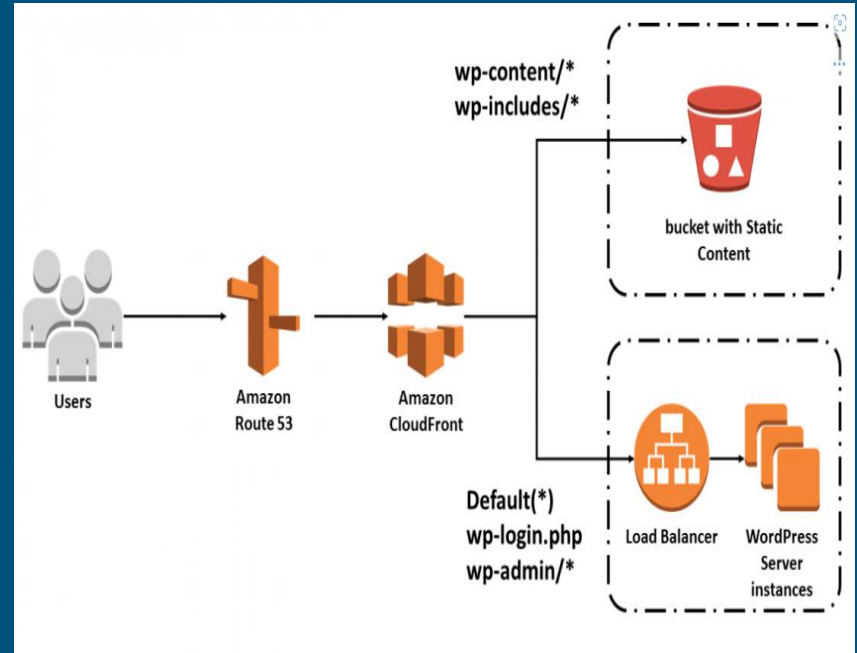
Amazon Kinesis Data Firehose

- Ingest data from music streamed to listeners' devices. streams the data into an Amazon S3 bucket
- Amazon Kinesis Firehose data ingestion costs At a \$0.029 per GB per month for the first 500TB,




AWS CloudFront

- Collaborating with edge locations, contents are delivered to customers with low latency
- Amazon CloudFront is available for free and on on-demand pricing starting at **\$0.085/month** (First 10TB).



TCO calculation

 pricing calculator

FeedbackEnglishContact Sales

Estimate summary [Info](#)

Upfront cost 160.31 USD	Monthly cost 301.06 USD	Total 12 months cost 3,773.00 USD Includes upfront cost
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Getting Started with AWS

Contact SalesSign in to the Console

Groups [Info](#)

My Estimate
▼ presentation ✕

My Estimate

DuplicateDeleteMove toCreate groupAdd supportAdd service

<input type="checkbox"/>	Service Name ▲		Upfront c... ▼	Monthly c... ▼	Description ▼	Region ▼	Config Summary ▼
<input type="checkbox"/>	Amazon CloudFront	✍	0.00 USD	2.24 USD	-	US East (Oh...	Data transfer ou...
<input type="checkbox"/>	Amazon EC2	✍	160.31 USD	39.56 USD	-	US East (Oh...	Operating syste...
<input type="checkbox"/>	Amazon Simple Storage Service (...)	✍	0.00 USD	259.26 USD	-	US East (Oh...	S3 Standard sto...

summary

Problem

- Latency
- Cost
- High demand

Solution

- Cloud Front
- EC2 Autoscale
- Amazon s3 and s3 Glacier

Reference

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<https://docs.aws.amazon.com/firehose/latest/dev/what-is-this-service.html>

<https://alexzywiak.github.io/streaming-files-from-s3-using-aws-cloudfront/index.html>

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