

Understanding the Trade-offs



Mike Erickson

DEVELOPER, ARCHITECT, TRAINER, SPEAKER, AUTHOR

@mgerickson





Consultants answer:

- It depends

Time

Cost

Complexity

Memory

Efficiency



Possible Trade-offs

Queuing

Partitioning

Caching

Compression



Queuing

Decouple

Scale independently

Acceptable delay

Time vs efficiency



Data Partitioning

Complexity/consistency vs time

RDBMS vs NoSQL

Distribution

Maintenance



Caching

Cache

Replica

CDN

Memory/consistency vs time



Compression

Code assets

Files

Time vs memory



Globomantics Trade-offs



Review Trade-offs

S3 website

ECS

S3

RDS Multi-AZ

DynamoDB

CloudFront



Possible Future Updates

Compression
reduce image size

Queuing
analyze images



Possible Trade-offs

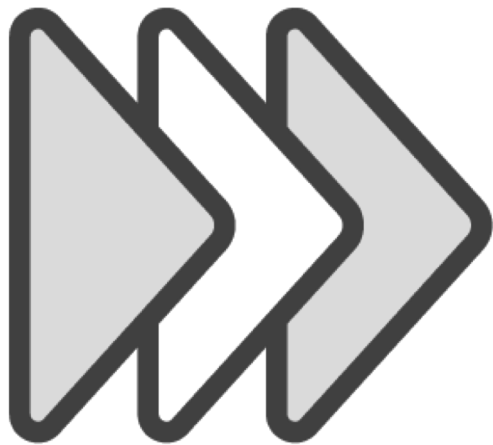
Queuing

Partitioning

Caching

Compression





Build performant architectures on AWS!

