

# How to Code IDX Solutions that Don't Suck

Amazon Web Services  
Infrastructure Services and IDX

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# Common Problems

## Scalability

- Always adding more servers
- Always adding more storage
- Constantly needing more bandwidth
- Network infrastructure needs to grow

## Hardware

- Failing servers
- Failing storage
- Maintaining Redundancy
- Backups - Backups – Backups
- Network hardware failure
- Security – permissions

## Bandwidth

- Long term contracts
- Overages

## Growing Costs

- Large up front costs for server and network hardware
- Network Admin Salaries

# What are Amazon Web Services

EC2

- Pay as you go resizable computing capacity in the cloud.

EBS

- Block level persistent storage for EC2 instances.

S3

- A fully redundant data storage infrastructure for storing and retrieving data from anywhere on the web.

CloudFront

- A web service that makes it easy to distribute content with low latency via a global network of edge locations.

SimpleDB

- Works in conjunction with S3 and EC2 to run queries on structured data in real time.

# How we implemented AWS

EC2

- Data Retrieving & Processing

EBS

- Short term storage for working files

S3

- Images

CloudFront

- Images – HTML - CSS - JScript

SimpleDB

- Logs

# What we didn't do...yet



Database Servers

Web Servers

Load Balancing

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