
Planning Your Cloud Migration

Changing the Tires While Driving

snagajob

Why

Know your motivation, what are you trying to accomplish

Why Would Snagajob Move the Infrastructure

You'll need to remember later what made you start this journey and where you're going

ONE INFRASTRUCTURE

- Lower staff needs
- Higher stability through single toolset for monitoring/managing
- Opens path to single data model
- Opens path to single Identity/SSO



LOWER COST

- Autoscale
- Reserved Instances
- Prepaid Instances
- _aaS
 - ECS
 - Elasticsearch
 - RabbitMQ

HIGHER DEVELOPMENT VELOCITY

- Less time on infrastructure management
- One dev stack, economy of scale
- Solve hard problems once, e.g., encryption standards and libraries



What

What are you packing for the trip?

Measure Twice Cut Once

And Don't try this alone.

PROOF OF CONCEPT

- First pass migration plan
- Paper exercise, prove there is value
- Think through challenges, blockers, and solutions



EXPERIENCE

- Whatever cloud, find an expert
- No need to repeat others' rookie mistakes
- Major cloud solutions offer lots of options and complexity
- Consulting firm
- Internal experience
- Hired experience



VALUE PROPOSITION

- Get Executive Backing
- Savings goals of project
- Efficiency goals - quantify
- Realistic cost in cash, infra time, dev time, consultants
- Realistic timeline
- Document and quantify the value this has to the company





SELL

The plan

What to take with you

You've already won or lost on this before you walk out the door.



FIX

- Monolithic Deploy
- Monolithic host
- Queues on Localhost
- Old DAL + Drivers
- All services one server

REPLACE WHAT I LOST

- Backup/Restore
- NIDS
- A/V

LEAVE BEHIND

- Elasticsearch Cluster
- RabbitMQ Management
- Docker Hosting



TAKE WITH YOU

- Get value sooner by keeping some things the same
- Monolithic app layer vs microservice
- MS SQL vs MongoDB

How

Improvise, Adapt, Overcome

How

Stay true to your Values

SMALL MILESTONES

- ETL and Customer Reports
- Independent services
- Show value and success
- Move monolith and MSSQL



ADAPT

- Use Agile principles
- Map and prioritize tech debt
- Dedicate Dev resources to remove blockers
- Dedicate Infra resources to accelerate move

COMMUNICATE

- Keep stakeholders informed
- Surprises are part of moving
- Keep sponsors focused on the value
- Prepare for Customer questions
- Show value quickly





Thank you

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