

“LIFT AND SHIFT” FAILS BECAUSE THE CLOUD IS NOT WELL UNDERSTOOD

A Lesson in Cloud Architecture

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Bad applications moved to the cloud will be bad applications in the cloud

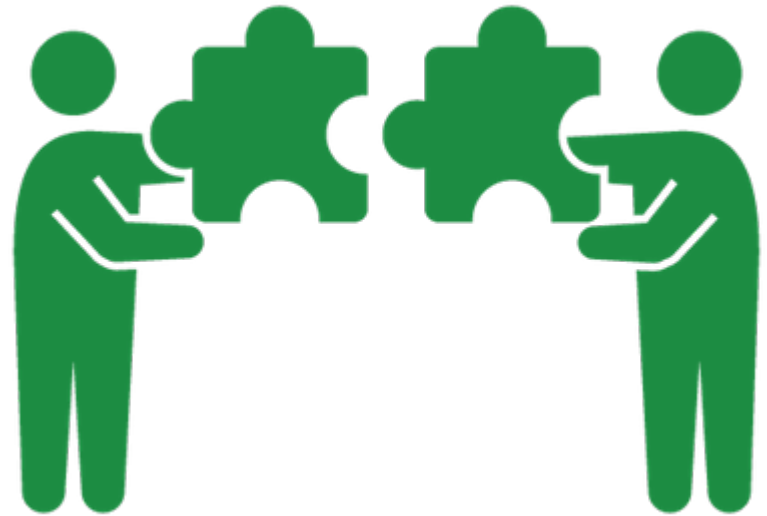
“Although most enterprises are reluctant to spend the money to redesign and rebuild applications, that fact is you’ll spend the money anyway: If you do not use your public cloud resources effectively, you’ll pay more to operate the applications. That accumulated cost is usually much higher than the cost of refactoring an application in the first place.”

David Linthicum, InfoWorld



Decouple Application Components

- Assume there will be outages
- Decouple individual components
- ~~Monolithic applications~~
- Component dependencies = failure risk
- Asynchronous systems = for uptime, performance, scalability



Implement Elasticity & Automation

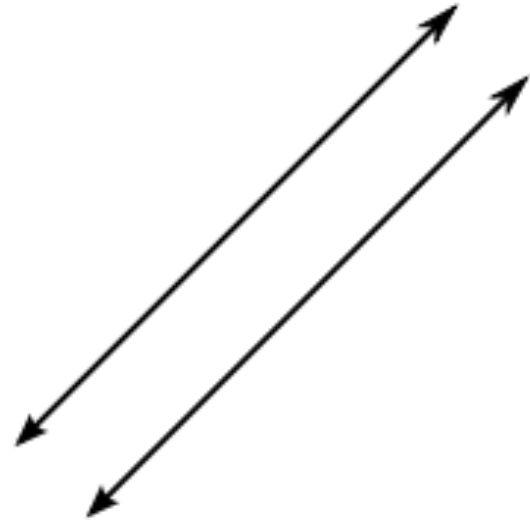
- Automate early, with open standards = flexibility
- Use config. mgmt tools
- Chef, Puppet and Ansible. More here: [DevOps Tools for the Canadian Cloud](#)

Implement Parallelization

Consider the following process:

- if 1 server = 6 hours
- then 2 servers = 3 hours

- Disperse load & maximize the fit of your provisioned resources



Storage Option Flexibility

SSD vs. Object Storage?

(fast but
expensive)

(inexpensive but
reliable)

Is your data static or dynamic?



Questions?

More information:

<https://www.clouda.ca/blog/general/lift-shift-fails-cloud-not-well-understood/>

Or talk to the Cloud pros.

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