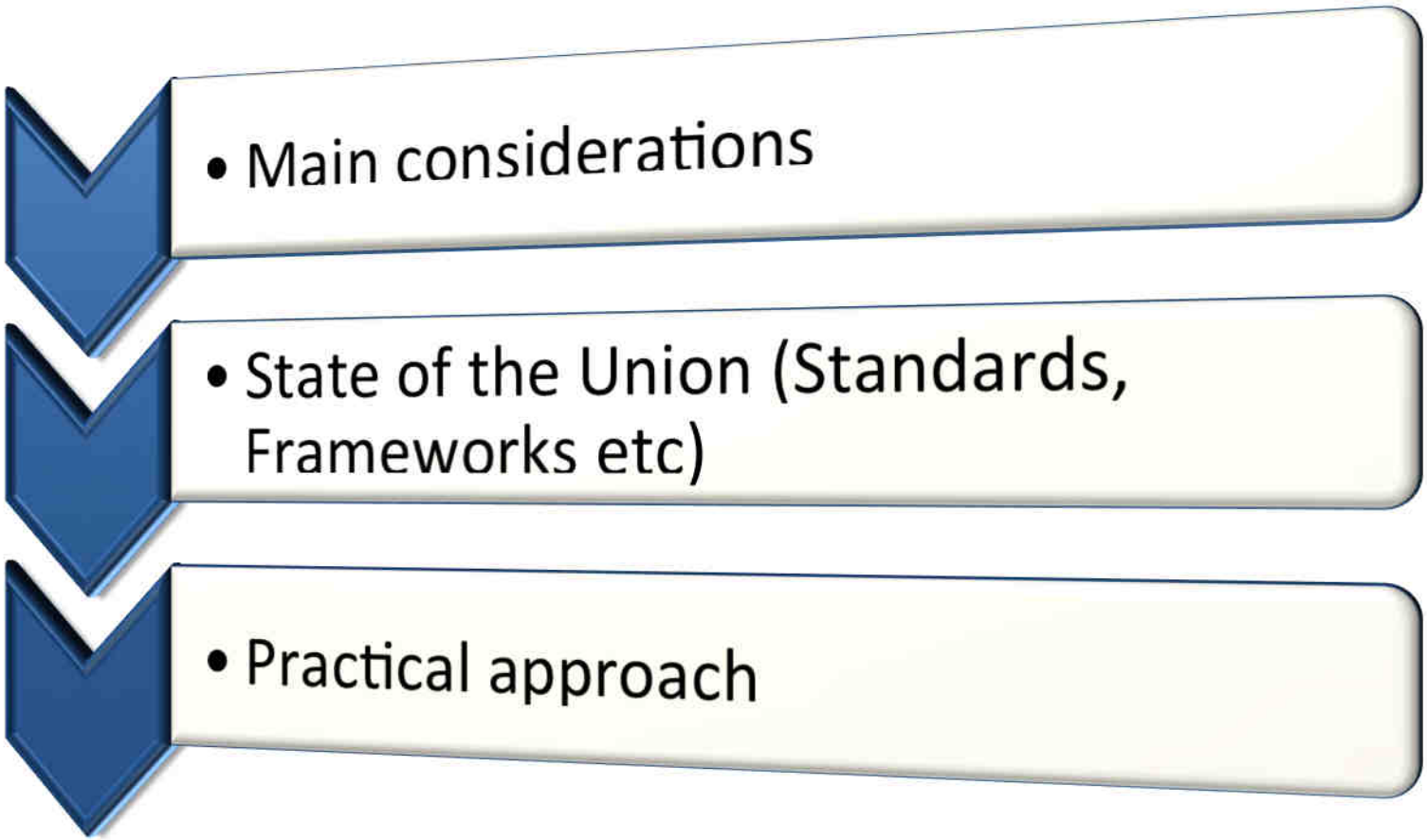


Choosing the right cloud strategy

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GIGASPACES
SINGLE PLATFORM. COMPLETE SCALABILITY

Agenda



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Main considerations



Avoid lock-in



The right cloud for the Job



Hybrid Cloud



Cloud bursting

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Lessons from Zynga and SONY

- Zynga moved from Amazon to Private cloud



- Sony moved from Amazon to Racksapce



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Lessons from Mixpanel and Beatunes..



Moved from Rackspace to Amazon

"First was **Slicehost** back when everything was on a single 256MB instance.. Second was **Linode** because it was cheaper (money mattered to me at that point). Lastly, we moved over to the **Rackspace** Cloud because they cut a deal with Ycombinator... Even with all the lock in we have with Rackspace (we have 50+ boxes)..it's really not about the money but about the features and the product offering, here's why we're moving"



Moved from Amazon to EQ8 Hetzner

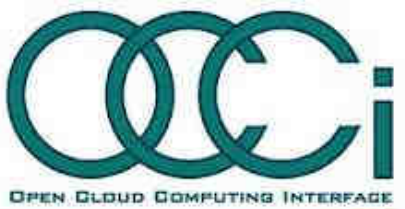
Amazon: "two servers $380/month. Add roughly $220/month for backup snapshots and EBS for the (pretty large) database and your total **yearly costs are $,7200**"

EQ8: "two 24GB RAM, i7-920 Quad-Core, 2x1.5TB HDD (Software-RAID 1) servers for **$3,530/year** at a hosting company that you can actually call"

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CLOUD API PORTABILITY - State of the UNION

- Standard
  - OCCI
  - VCloud
- OpenSource Cloud
  - OpenStack
  - Cloud.com
  - Eucalyptus
- Abstraction frameworks
  - Jclouds
  - Deltacloud











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And after three years of Countless attempts…



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REALISATION I



Standards

- not in the foreseeable future



OpenSource Cloud

– Still early



Cloud Abstraction

– Practical short term solution

- Doesn't cover all forms of Clouds yet (Azure, Private Cloud, Vmware..)

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REALISATION II

APP PORTABILITY



!=

CLOUD PORTABILITY



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APP PORTABILITY != CLOUD PORTABILITY (Cont..)

- OS (Linux, Windows) looks pretty much the same on all clouds
  - OS runs pretty much the same on all clouds
  - OS are packaged In different image format but that part is abstracted from the application code anyway.
- Compute & Storage are pretty common in most clouds
  - Compute & Storage could be easily abstracted across clouds
- Elasticity, Scaling, Continues Availability
  - The same effect on the application regardless of the underlying cloud.
  - The process of scaling & fail-over is done outside the app code

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Realization III – Private vs public cloud

- Its not about the cost
- Its all about control
- Controlling your operation doesn't mean that you need to own the data center



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THANK YOU!

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