

Building Modular Cloud Applications with OSGi



ctepower

About me



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@BertErtman



Observations

- ❑ Extremely agile
(first mover advantage)
- ❑ Architecture (and code base)
should be able to cope with change



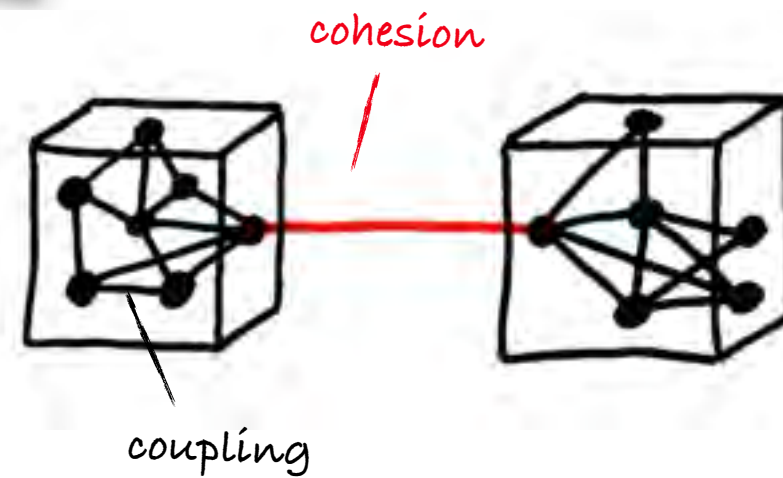


Modularity
is the answer

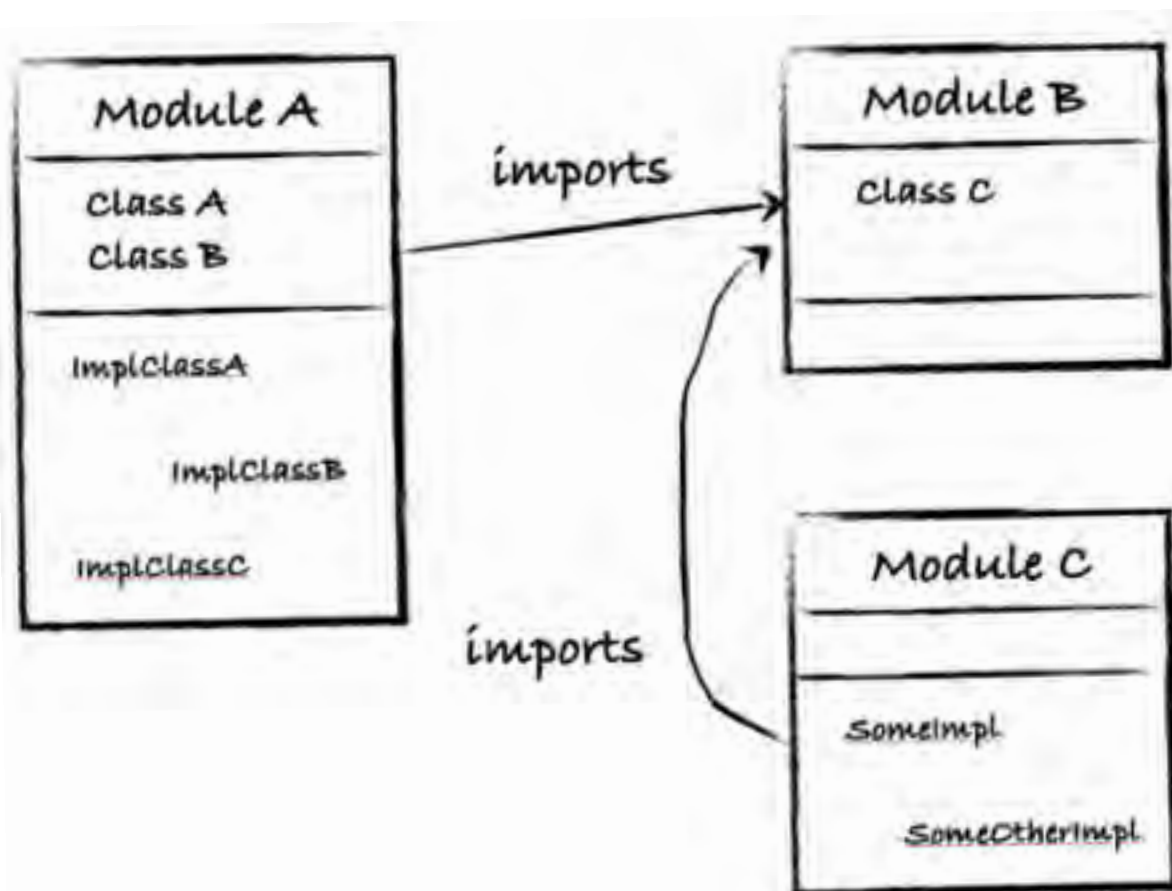
What we learned about OO design in university :

Prevent
(tight)
coupling

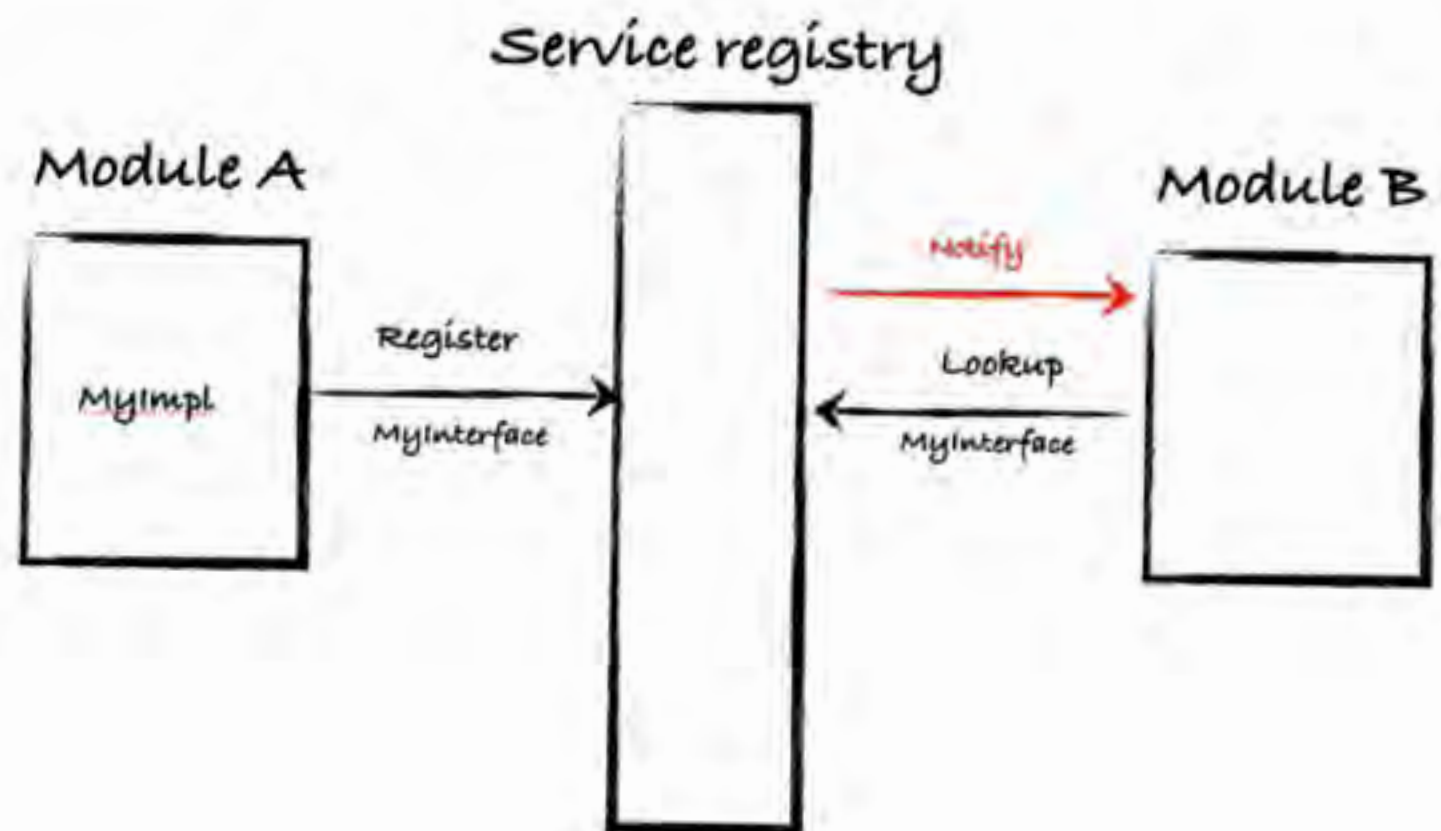
Promote
cohesion



Modules



Service Lookups



What do we need

for modularity?

design →
consequences

Architectural
focus on
modularity

Runtime
dynamic
module
framework

High-level
enterprise APIs



← Let's not
reinvent the
wheel

↑
Right now,
OSGi is the
only option

Components

- ☐ Auth
- ☐ Blob stores
- ☐ MongoDB
- ☐ Multi-tenancy
- ☐ OpenSocial
- ☐ Search
- ☐ Remote Services
- ☐ REST
- ☐ Template
- ☐ Web
- ☐ JPA
- ☐ ...



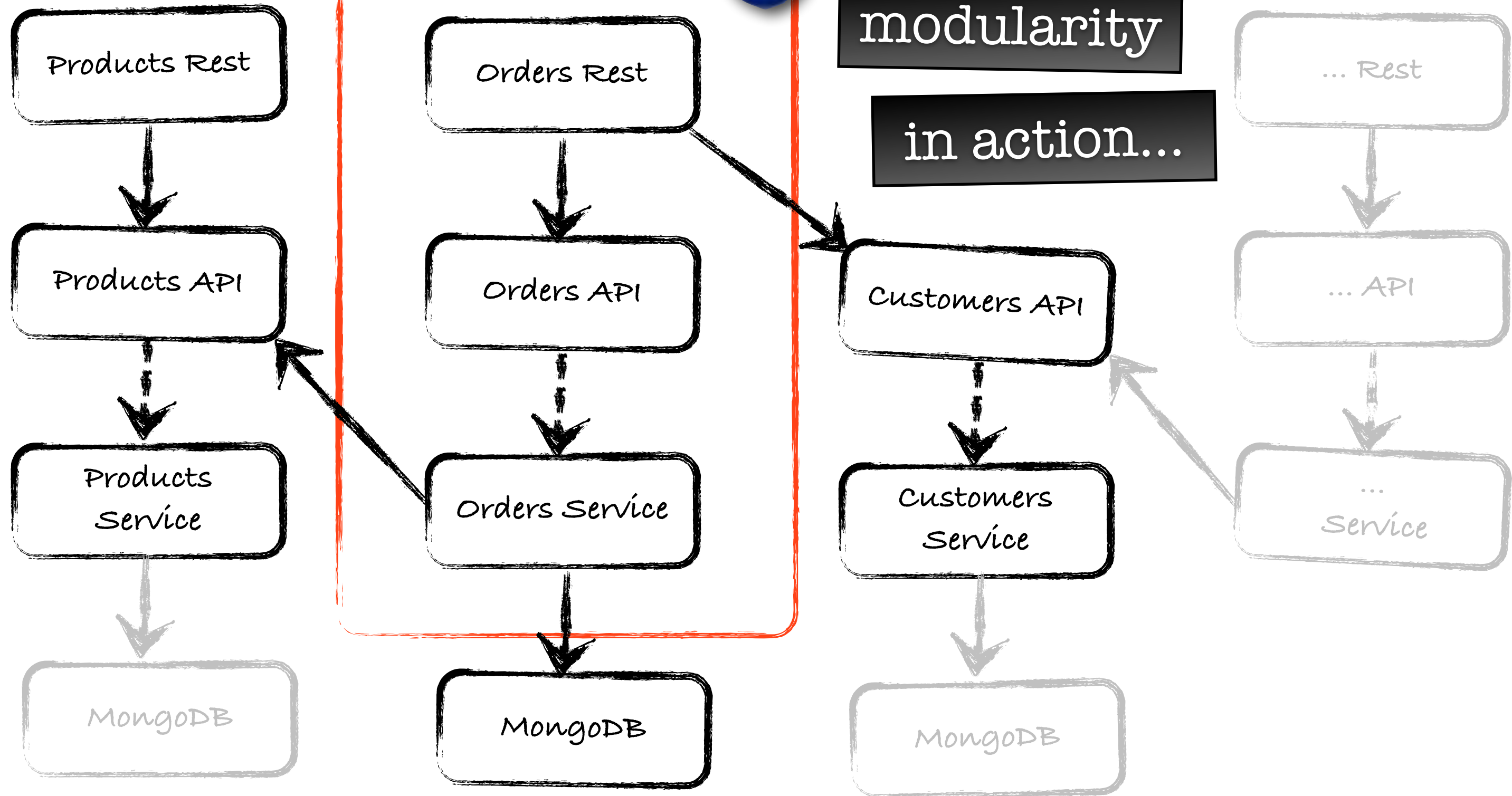
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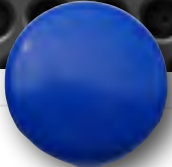


Stop talking...
and show me code!

modularity

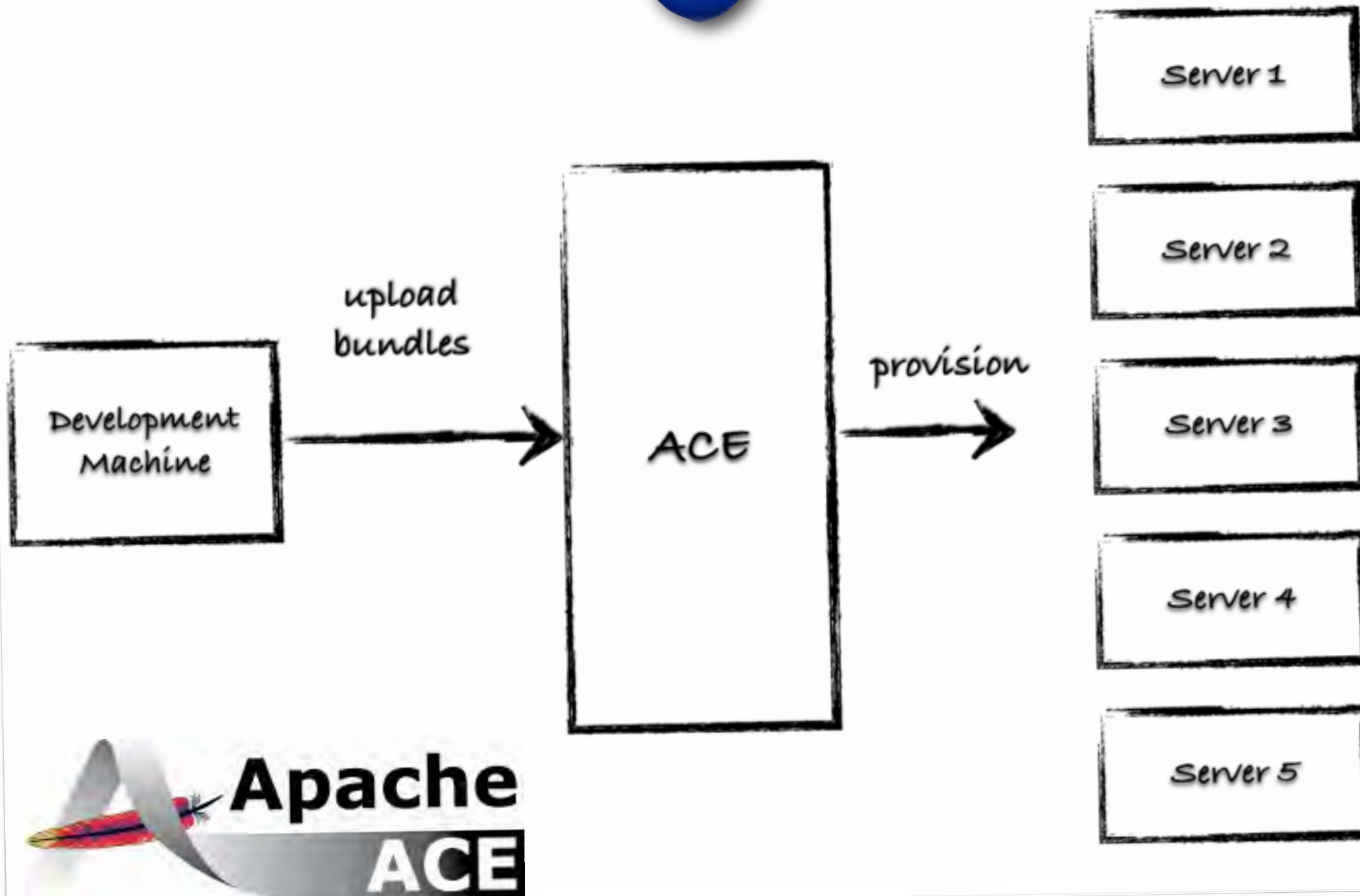
in action...



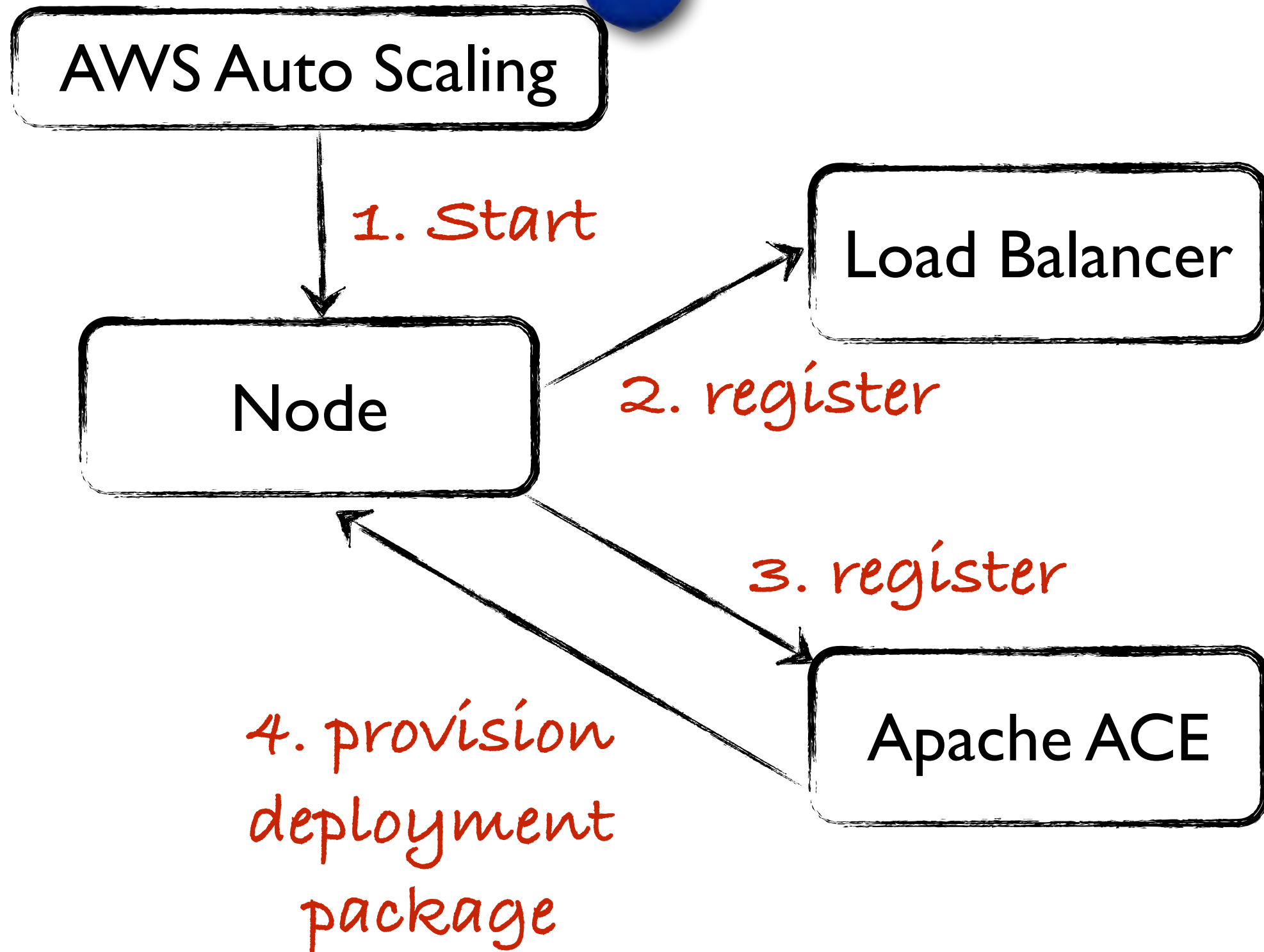


What about
deployment?

Provisioning Server

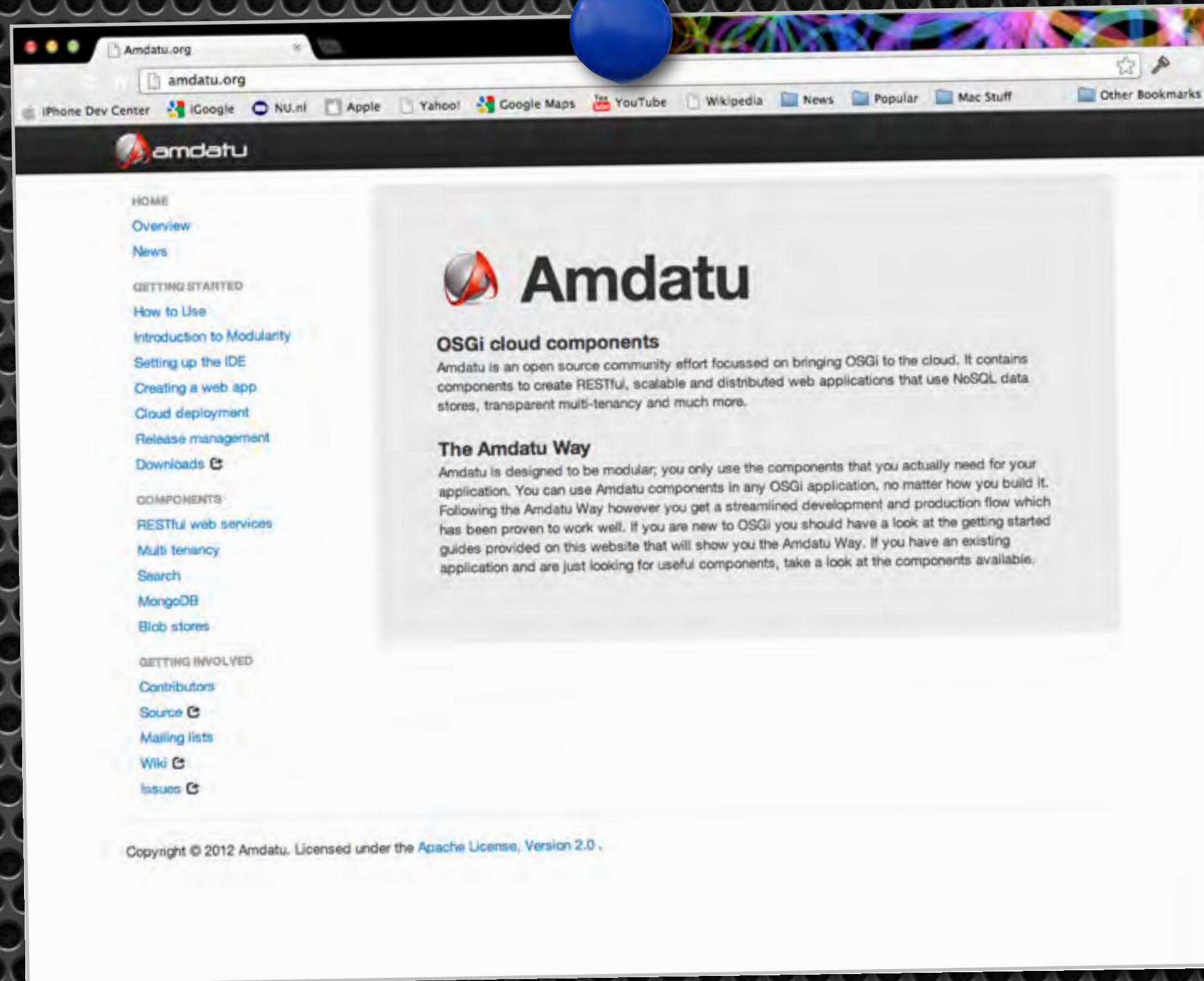


Provisioning servers



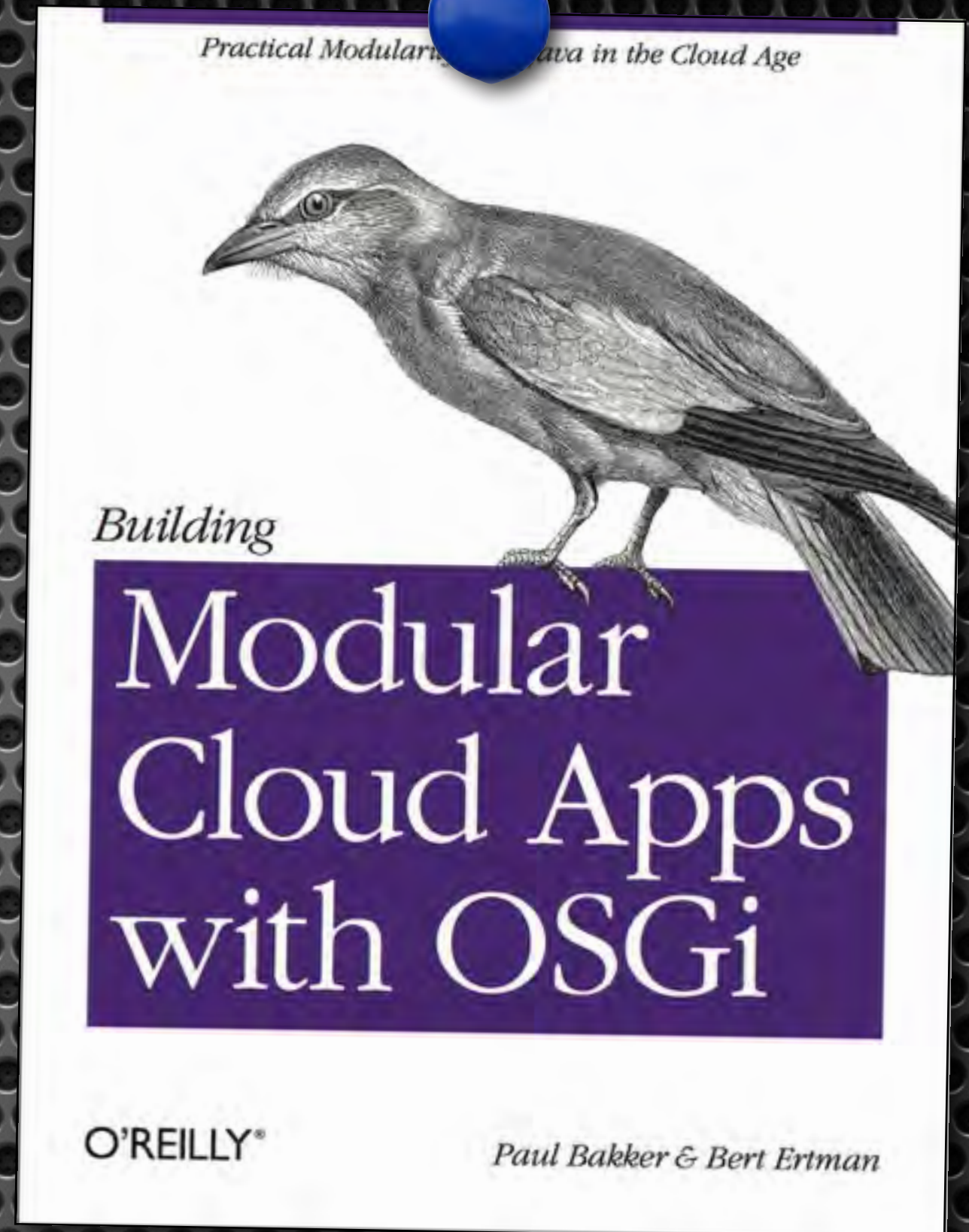
wrap up





Shameless self-promotion...

- ❑ Book available NOW!
- ❑ Book signing today @ 1.30 pm
(O'Reilly Booth, JavaOne Pavilion)
- ❑ Free books for the early birds...



Dank u

Merci

Danke

Mahalo

Obrigado

Grazie

Gracias

Thank
you

Tak