

Rapid Application Development for Cloud

JAVA CONFERENCE

AUGUST 20, 2011 • BANGALORE

siliconindia

Shekhar Gulati



Hi, my name is .. Shekhar Gulati

- Senior Java Consultant at Xebia
- Spring, Big Data, NoSQL enthusiast
- Freelance Writer

- sgulati@xebia.com
- Twitter handle : shekhargulati

Agenda

- Spring Roo
 - Why, What, and How – Demo
- CloudFoundry
 - PaaS, Why, What, and How – Demo
- Conclusion

Spring Mission

#J2EE or JavaEE should be easier to use.

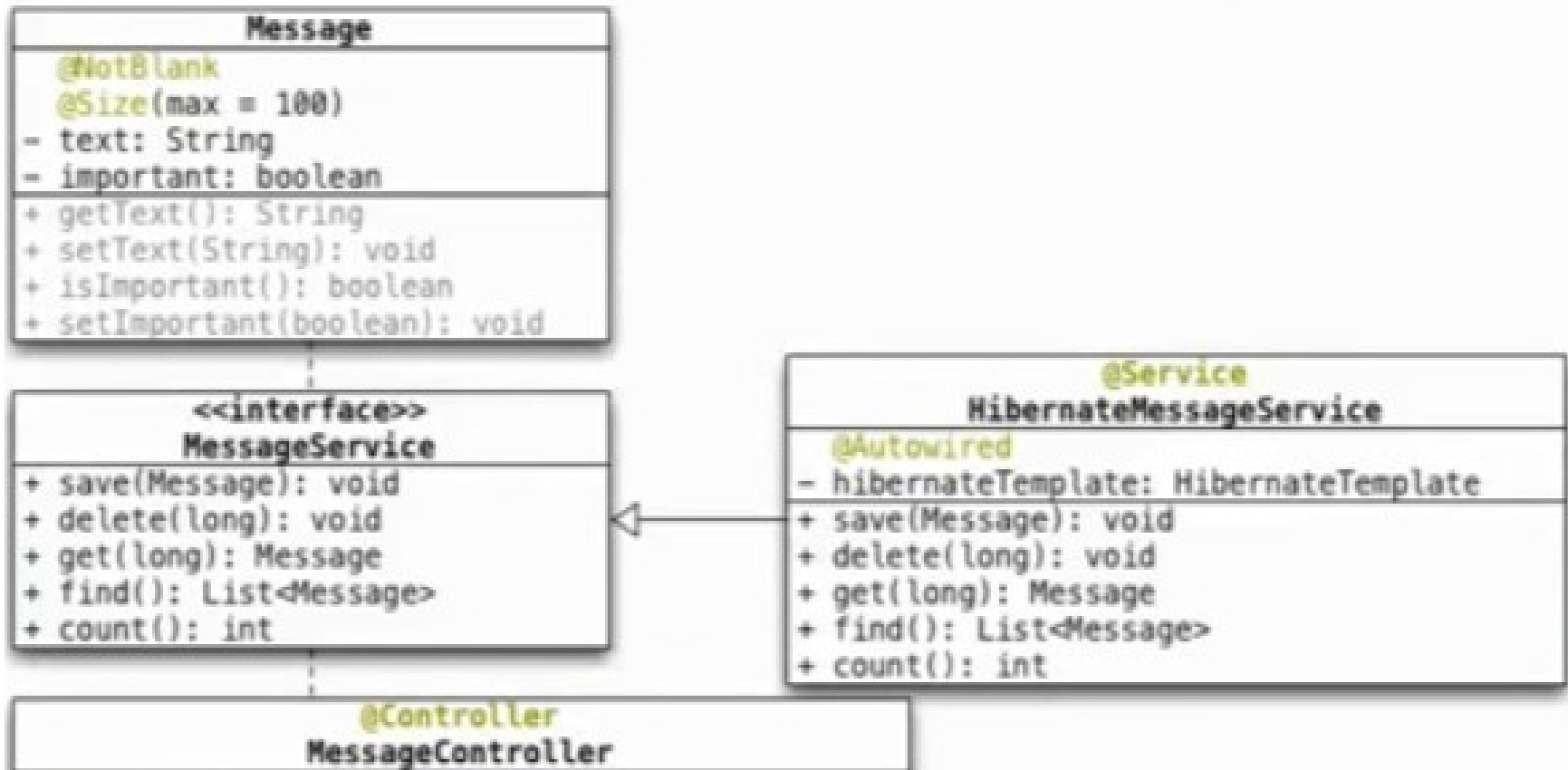
Mission Accomplished

Now What?

Problems

- Lot of code to write for very simple applications.
- Lot of configuration stuff
- Java developers are not productive compared to Grails, Rails or Python developer.
- But Java is still most popular and used language.

Example Application



Enter Spring Roo

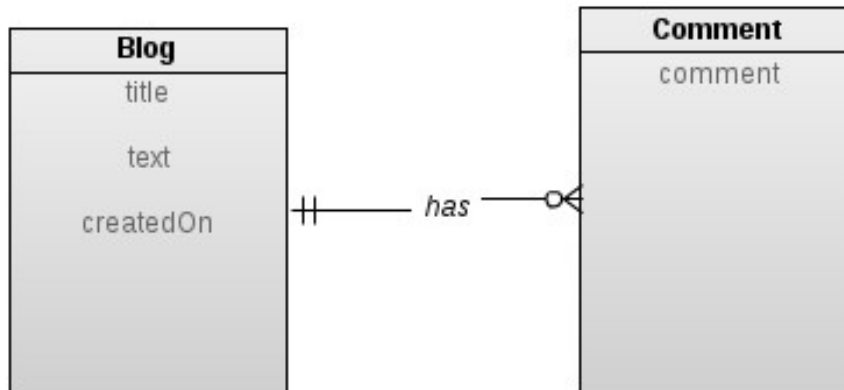
- Easy to use productivity tool
- Code generator – Spring based enterprise applications.
- Development time only.
 - No runtime
 - No negative performance impact
 - No memory overhead
 - No Roo deployment
- Use best of breed.

Why should you learn Spring Roo?

- Great learning tool.
- Follows Spring best practices.
- Standard based – JPA, JSR303 etc.
- Will keep you updated with Spring.

Demo - Building a Blog

Entity Relationship Diagram (ERD)



Feature Covered & Show Code

- Project Management
- Entity support
- Field management
- Persistence
- JUnit testing
- Spring MVC controller
- Spring Security

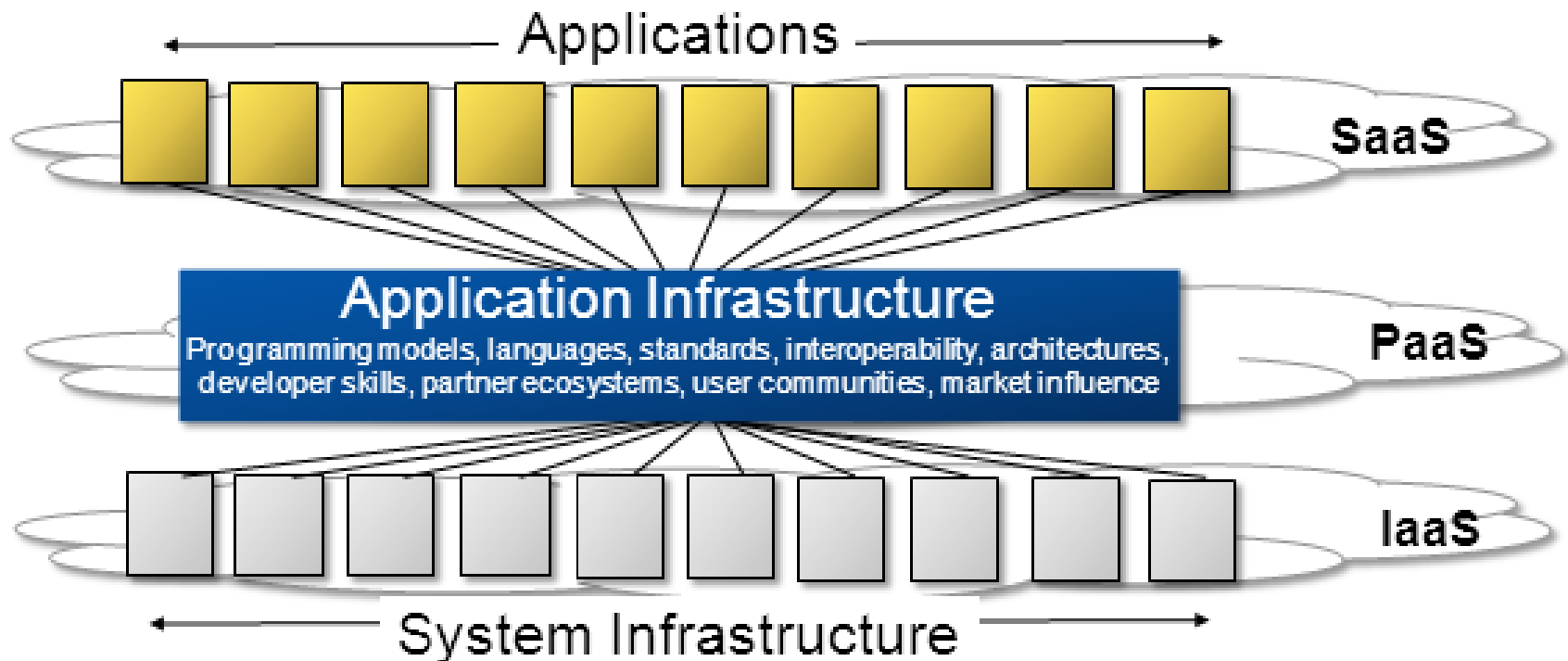
There is lot more

- GWT support
- Selenium Testing support
- Internationalization support
- Social sites support like twitter, youtube
- NoSQL support – Neo4J
- Add-on creation support
- Third party add-ons

Now I want to deploy my application.

Where should I deploy?

Platform as a Service: The Strategic Center of Cloud-Computing Architecture



Issues with existing PaaS

- Can't run existing code
- Tied to particular environment
- Vendor lock-in(lack of Cloud portability)
- Deployment on public cloud only
- Need to change mindset
- Support for diluted frameworks



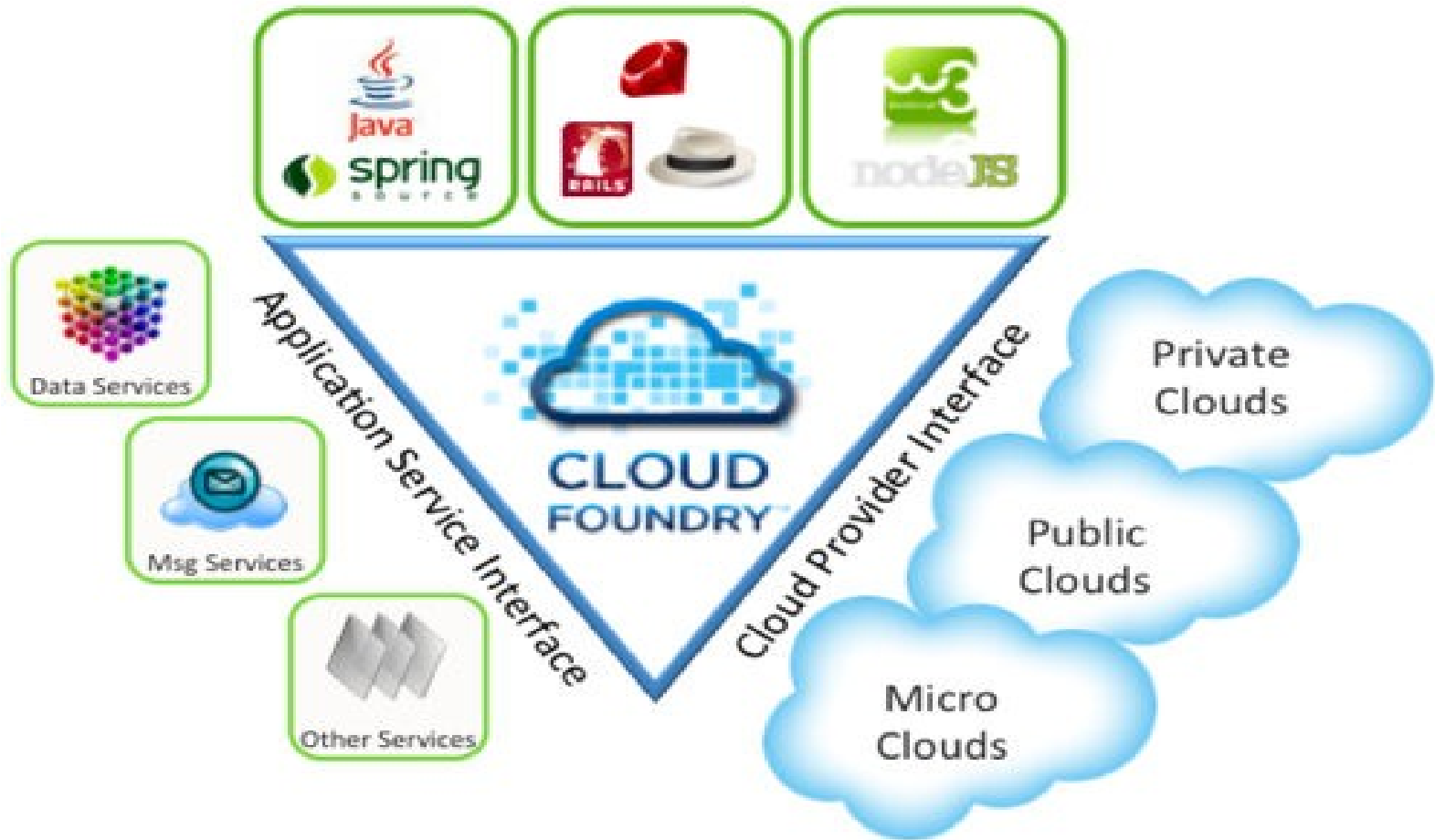
**CLOUD
FOUNDRY™**

The Open
Platform as a Service

Enter CloudFoundry

- Open Source
- Multi language, Multi framework, Multi Application services, and Multi Cloud.
- Cloud Portability
- Cloud Foundry is both
 - deployment destination
 - layer that allows deployment to a choice of clouds, both public and private.

Cloud Foundry - The Open PaaS



Deployment Options

- STS
- VMC command line
- Spring Roo Cloud Foundry Add-on

Demo - Deploy to Cloud Foundry

- Switch to MySQL
- CloudFoundry commands
 - login
 - deploy
 - start, stop
 - create a service, bind a service
 - list of apps and services
 - delete the application.

There is lot more ...

- NoSQL databases support
- Ruby, NodeJS, Scala, Groovy support.
- RabbitMQ support
- Micro Cloud support
-

Conclusion & Q/A

- Roo delivers serious productivity gains for Java.
- Roo is easy to learn and use
- No runtime, no lock-in no risk
- CloudFoundry allows you deploy your application as it is without any change.
- Spring Roo + CloudFoundry is match made in heaven.

