

DESIGNING FOR MASSIVE SCALABILITY IN THE CLOUD

Linear Scaling, Pattern-Driven, Open, Cloud-Enabled

EVER DEBATED HOW TO BUILD A MASSIVELY-SCALABLE SYSTEM?

OR WONDERED HOW *THE BIG GUYS*, SUCH AS GOOGLE, TWITTER AND FACEBOOK DO IT?

DEBATED HOW TO USE NoSQL, BIG DATA, MAP/REDUCE AND THEIR CONTEMPORARIES?

IF YOU ANSWERED YES TO ANY OF THESE QUESTIONS...THEN THIS IS THE WORKSHOP FOR YOU!



In this workshop you will learn how to design your enterprise systems to be highly-available and linearly-scalable under massive loads and challenging low-latency requirements with GigaSpaces platforms.

This workshop will give you the tools to achieve the above by employing well-proven patterns used by massively-scalable systems such as Google, Amazon, Twitter, and Facebook, and leverage the most recent developments in scalable architectures, such as Map/Reduce, NoSQL, and Big Data.

You will learn how to:

- ✓ Build your enterprise system using open-source stacks such as JBoss, Tomcat, Cassandra and HBase, making the end-to-end stack highly-available and scalable as a single cohesive solution.
- ✓ Onboard your end-to-end stack to a cloud of your choice while keeping your system cloud-agnostic.
- ✓ Migrate your production system in a gradual and controlled manner from legacy architecture to a scalable future-proof architecture, using simple best practices and methodology.

In addition, you will examine different common meta-use-cases seen across various enterprise systems in E-Commerce, Financial Services, Telco, Healthcare, and others, and discuss effective architectures to satisfy these use cases.

WORKSHOP DETAILS

AUDIENCE

System Engineers
Enterprise Architects
CTOs

KNOWLEDGE REQUIREMENTS

Enterprise System architecture background
Java knowledge
Eclipse IDE knowledge is a plus

LENGTH

3-4 Hours

BONUS

Plenty of hands-on sessions and demos

TOPICS OF DISCUSSION

THE PATTERN-DRIVEN PATH TO SCALABILITY

- Scaling the Data Tier
- Data Processing at Massive Scale
- Building an Elastic Web Tier
- Designing for Continuous High Availability and Fault Tolerance
- Elastic Scaling Into The Cloud
- Designing Your Application for Global Scale

LEARNING FROM EXPERIENCE: EXAMINING REAL-LIFE CASE STUDIES

- Read/Write Scale w/o Complete Re-write
- Cloud Onboarding w/o Vendor Lock-In: Moving into the cloud with no code change
- Real-Time Analytics for Big Data: Real-time processing on a massive scale

ABOUT GIGASPACE

GigaSpaces Technologies is the pioneer of a new generation of application virtualization platforms and a leading provider of end-to-end scaling solutions for distributed, mission-critical application environments, and cloud enabling technologies. GigaSpaces is the only platform on the market that offers truly silo-free architecture, along with operational agility and openness, delivering enhanced efficiency, extreme performance, and always-on availability. Our solutions are designed from the ground up to run on any cloud environment, and offer a pain-free, evolutionary path to meet tomorrow's IT challenges.

Hundreds of organizations worldwide are leveraging GigaSpaces' technology to enhance IT efficiency and performance, including Global Fortune 500 companies, from top financial service enterprises, e-commerce companies, online gaming providers, and telecom carriers. For more information, please visit <http://www.gigaspace.com>, our blog at <http://blog.gigaspace.com>.