LEAP 2015 AGENDA

# Clouds and Distributed Architecture

## May 12, 2015

## 9:00 AM – 5:00 PM

**Presenter**: Ralph Squillace ([rasquill@microsoft.com](mailto:rasquill@microsoft.com))

**Bio**:

Ralph Squillace is a senior content engineer for the Microsoft Azure Infrastructure team based in San Francisco, California. He works directly with customers trying and breaking Azure, as well as writing, publishing, and teaching cloud and distributed architecture and devops development mainly on Linux workloads and working with Linux, Mac, and Windows. He's responsible for the Azure CLI documentation, as well as Azure documentation for Docker, CoreOS, and various container orchestration systems such as Deis, Weave, Kubernetes, Mesos, and Docker's machine, swarm, and compose for contained applications.

When he was young, he did his graduate work in history at the University of California, Berkeley. Yes, he is aware that he is supposed to be an historian; you don't need to tell him. Instead, Ralph started his software career with OLE32 and then COM, after which he was a developer for several years, working on tools and applications for Microsoft and several other Seattle–based companies. He began writing articles for developers with the threading, async, and remoting documentation for .NET 1.0.

He’s been around a bit since then. He worked on natural language processing and analytics across Microsoft developer and third party sites to identify customer desires and real-world customer patterns – whether they’re on Azure or not. He spent a year advising customers with the Azure Customer Advisory Team (Azure CAT) in the United States, Europe, and the Middle East, and delivering architecture presentations as well as [developer presentations at conferences](http://vimeo.com/43548795).

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| Attendees: | A Bunch of Talented People |
| Please read: | Anything you can grab. |
| Please bring: | A ton of detailed questions I can’t answer, but can find out. |

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| 8:30-9:15 | Introduction Food, Coffee, Milling about and general noise  Why we’re here, what we’ll do, LEAP, and who is Ralph Squillace | [Location] |
| 9:15-10:15 | Cloud Computing: Making Failure and Advantage What cloud is. Why it is good. What is bad. How to begin thinking. How is this connected to customers?  Break your brain. | [Location] |
| 10:15 – 10:30 | Bathrooms are this way!! Run!! | [Location] |
| 10:30 – 11:00 | Cloud Competition: The Landscape Azure, Amazon, and others…  A note on languages.  Break your brain. | [Location] |
| 11:00 – 11:10 | Time for a break? I know you people. Time is needed. | [Location] |
| 11:10 – 12:00 | The Microservice Approach What it is. Why now. | [Location] |
| 12:00 – 1:00 | Everyone Needs Food | [Location] |
| 1:00 – 2:00 | The High Order Bits: Design of Distributed Apps  * Stateless components and stateful services; microservices * Automate like you \*\*should\*\* have focused on setup.exe, but didn’t. * Stupidly optimize the corners, including hybrid opportunities * Upgrading & app lifecycle: Netflix, Microsoft Azure, and others. | [Location] |
| 2:00 – 2:10 | OK, OK, break time again. | [Location] |
| 2:10 – 3:00 | The Next Highest Order: Patterns  * Compute * Storage * Separation * Communication * Prem/nonprem * … | [Location] |
| 3:00 – 3:10 | Storage Break | [Location] |
| 3:10 – 4:00 | Service Fabric and The Actor Model  * The Azure API and its feature set * Actors | [Location] |
| 4:00 – 4:10 | LAST BREAK: Power up | [Location] |
| 4:10-4:30 | Distributed Applications and Security Compromises A very direct discussion of illegal and (unfortunately) legal compromises and what it can mean for architects.  There will be no deck here. Discussion. |  |
| 4:30 – 4:40 | Internet of Things: Super- and Super-Dis-connectivity and Designing Failure So many bits and pieces.   * When they matter * When they don’t, but their aggregate does | [Location] |