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](https://github.com/squillace/leap2015/blob/master/Cloud%20and%20Distributed%20Architecture%20Overview.pptx?raw=true) 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 (and Distributed) Computing and the Competitive Landscape: Choices are your Advantage](https://github.com/squillace/leap2015/blob/master/TLDR%20by%20rasquill--Azure%20and%20Its%20Competitors--Chappell.pptx?raw=true) But too many is definitely confusing. What cloud is. Why it is good. What is bad. | [Location] |
| 10:15 – 10:30 | Bathrooms are this way!! Run!! | [Location] |
| 10:30 – 11:00 | [**Distributed Architecture: Microservices and Domain Driven Design**](https://github.com/squillace/leap2015/blob/master/Microservices%20Overview.pptx?raw=true) | [Location] |
| 11:00 – 11:10 | Time for a break? I know you people. Time is needed. | [Location] |
| 11:10 – 12:00 | [The Microservice Approach and Docker Containers](https://github.com/squillace/leap2015/blob/master/Containers%20and%20Clusters%20in%20Azure.pptx?raw=true) What it is. Why now. | [Location] |
| 12:00 – 1:00 | Everyone Needs Food | [Location] |
| 1:00 – 2:00 | [**Windows Containers and Windows Servers**](https://github.com/squillace/leap2015/blob/master/TaylorWindowsContainers.pptx?raw=true) | [Location] |
| 2:00 – 2:10 | OK, OK, break time again. | [Location] |
| 2:10 – 3:00 | **High-Scale Storage: Xbox Live**  It’s storage evolution since 2011 with Azure. | [Location] |
| 3:00 – 3:10 | Yet Another Break | [Location] |
| 3:10 – 4:00 | Microservices, [The Actor Model](https://github.com/squillace/leap2015/blob/master/HoopsActorBuild2014.pptx?raw=true), [and Azure Service Fabric](https://github.com/squillace/leap2015/blob/master/FussellModiBuildingServiceFabricApps.pptx?raw=true)  * 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 bit about [Azure Stack](http://blogs.technet.com/b/server-cloud/archive/2015/05/04/microsoft-brings-azure-to-the-datacenter-for-the-next-generation-of-hybrid-cloud.aspx)) 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](https://github.com/squillace/leap2015/blob/master/ClemensVDanRosanovaIoTSecurity.pptx?raw=true) So many bits and pieces, and the security issues therein. | [Location] |