Not Dead Yet!
Cloud Breathes New Life into SOA

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SOA is Dead!!
Not Dead Yet!

SOA = Best Practices

- You don’t have to follow them all
- There’s no rule how many you must follow before you can say you’re “doing SOA”
- Many SOA best practices aren’t specific to SOA
- Best practices are always relative

The Right Tool for the Job
SOA by Any Name

• “SOA” is too “techie” for the business
• SOA is a broad set of best practices
• Many SOA best practices build on existing practices

Doing it Right More Important than Calling it SOA

Relationship between Cloud & SOA

• SOA is an architectural approach; it is a philosophy guiding the development and management of applications
• Cloud is a deployment and operational model suited to host certain Services under a SOA initiative
• Cloud in the SOA context: Service implementation deployment option
• SOA in the Cloud context: application-level abstraction of Cloud resources

Cloud is inherently Service-Oriented
From SOA to Cloud

SOA

What SOA really is

The SOA technical challenge

Buy an ESB & hook it up

Where’s my SOA?

Dead

EA Style focused on achieving business agility via composition of Business Services

Doing SOA

How to achieve business agility with Cloud

Services that abstract functionality & data

How to work with the Cloud

Cloud

We’re not Talking About Web Services!

- Web Services Pros:
  - Relatively mature
  - Supported by most enterprise software
  - Transport protocol independent
  - Robust security & governance capabilities

- Web Services Cons:
  - Don’t guarantee interoperability
  - Loose coupling still a challenge
  - Verbose messages
  - Technical complexity
REST to the Rescue!

- **Representational State Transfer**
  - Web-friendly approach to addressing resources on a network
  - Uniform interface (GET, POST, PUT, DELETE) resolves many issues with Web Services
  - Simpler but less powerful than SOAP-based Web Services integration

Is REST about APIs?

**NO!**

- Like confusing building design with mixing the mortar
- REST is about distributed hypermedia applications
- If you don’t want one, then *don’t use REST!*
What is REST Anyway?

• Representational State Transfer (REST) is a style of software architecture for *distributed hypermedia systems* such as the World Wide Web

• Roy Fielding looked at the Web and saw that it was *good*

The Challenge of Architecture

• The old way: Web Services-Based SOA
  – Middleware-centric
  – Complex governance
  – Difficult

• The new way: REST-Based SOA
  – Hypermedia-centric
  – Lightweight

*BUT… most RESTafarians don’t get it!*
Hypermedia, SOA & the Cloud

• Cloud Computing driving the Enterprise to the world of Web scale
• Hypermedia core to the Web and also essential for elastic, stateful apps in the Cloud
• REST-Based SOA: Can hypermedia replace your ESB?

The Enterprise Context for SOA

• SOA & Cloud among many interrelated trends
• Change is the one constant
• Five "Supertrends":
  – Complex Systems Engineering
  – Location Independence
  – Global Cubicle
  – Democratization of Technology
  – Deep Interoperability
Thank You!

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