Python Enterprise vento di libertà

by Simone

Abstract

ell'enterprise la scalabilità verticale è ferma, l'HTTP Session è un dramma, XML è considerato un bug, i DB vengono messi in discussione, JMS è saturo, SOA un bluff. Parlerò di una diversa filosofia per le architetture Enterprise Pythone dinamico, poject criented, offre un forte supporto a Europython 2011 una estesa libreria standard e, non da pare puè essere imparato in pochi giorni. Molti programmatori Python possono confermare un sostanziale aumento di produttività e ritengono che il linguaggio incoraggi allo sviluppo di codice di qualità e manutenibilità superiori. In questo talk parlerò quindi di produttività e qualità. Il talk è un chiaro mezzo per diffondere python.

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Enterprise Software EAS

Services provided by enterprise software are typically business-oriented tools such as online shopping and online payment processing, interactive product catalogue, automated billing systems, security, content management, IT service management, customer relationship management, resource planning, business intelligence, HR management, manufacturing, application integration, and forms automation.

Enterprise Architecture EA

The software is intended to solve an enterprise-wide problem (rather than a departmental problem) and often written using an Enterprise Software Architecture.



Enterprise Application



Enterprise Application



Software Architect



Software Architect





So.. what Enterprise is?

I'm confused :-(

I've seen things...

...you people wouldn't believe.

С

HTTP Session Replication (100+) OutOfMemoryE (GC, Leak, perm gen, ecc) Response time (30sec+) Kilomentri di code JMS Database mono-connection (transactional?) CPU 200% per le XML trasformations SOA XML-JOINS EJB extend BufferOutputStream Keep alive 120sec Servlet throw threads hose components will be lost in time... like tears in rain

Time to Market

Mobile (+ device) Presentation Logic -> Client side (ajax) Backends -> new horizon (nosql db) Productivity -> KISS limit the complessity



Application world wide

- Socials:
 Twitter
 Facebook
 Linkedin
 Buzz
 Google Apps
- etc...

Solve a wide problems? Solve scalability problems? Have a multiple geo-distribution? Are Enterprise?



Memory issue?

We use just a node for server. (don't ask me why) JVM -Xms == -Xmx == 512Mb 1GB, 2 o 3? <u>server stop for 120sec+</u>

If we add more CPU? But we have 8 CPU ... and only one is used (30%)

Can we buy a new big server?

The scalability has a cramp





- XML
- SOAPTransport Protocol
- WSDL Standard Format
- UDDI and XML Standard Formats
- Attachments
- Authentication
- (and kilometers of standard)



HTTP is not enough? REST?

EJB









TODO list or event driven

SOA



nothing to lose

Do you need help?



Consultants we can solve all your issues

Don't ask me to do something tell me what you need >>> import this The Zen of Python, by Tim Peters

Beautiful is better than ugly. Explicit is better than implicit. Simple is better than complex.

Complex is better than complicated.

Special cases aren't special enough to break the rules.

Although practicality beats purity.

Errors should never pass silently.

Unless explicitly silenced.

Flat is better than nested.

Readability counts.

Sparse is better than dense.

In the face of ambiguity, refuse the temptation to guess.

There should be one-- and preferably only one --obvious way to do it. Although that way may not be obvious at first unless you're Dutch. Now is better than never.

Although never is often better than *right* now.

If the implementation is hard to explain, it's a bad idea.

If the implementation is easy to explain, it may be a good idea.

Namespaces are one honking great idea -- let's do more of those!

Why python is the best choice?

Because the pythonist exist

In italy all company search Java or DotNiet developers Who cares pythonists?

> That's just only the first smell to why this pythonists are so special

In the world, if you have python in your CV, you have a different contractual power.

What is the secret of success?

append better building class CODE compute data def default defaultdict dict dictionary docstrings enumerate equity example expressions function generator http import index item iterator join key line list loop method module name namespace navs num object pep portfolio print python result return seit setdefault Sort string tuple useful value work

the answer is within yourself

...because we like python!

- beautiful source code
- simple indentation
- dynamic
- we can change a type on fly of an object
- because I can, you can, we can...

beacuse is a language that leaves me free

Fear can hold you prisoner. Hope can set you free. refactor your code

HA Clusters Failover Clusters



Somebody told you it was a complex problem?

Better Failover...



.. or maybe you could use NoSQL

WebServices
Remote Invocation
Distribuite Task
Messaging

suds / SOAPpy / jsonrcp
PyRo / RPyC
Celery
Stomp / JMS Bridge



Productivity





Maintenance

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