Kubernetes: A Gateway Drug for Vendor Lock-In

Ernesto Garbarino





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Rod Johnson

Rod Johnson is an enterprise Java architect specializing in scalable web applications. He has worked with both Java and J2EE since their release, and he is a member of JSR 154 Expert Group defining the Servlet 2.4 specification.

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Apex Developer Guide



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Search in document	Q,
Contents	
Apex Developer Guide	-
Getting Started with Apex	-
Introducing Apex	-
What is Apex?	
Understanding Apex Core	
Concepts	
When Should I Use Apex?	
How Does Apex Work?	
Developing Code in the Cloud	
What's New?	
Apex Development Process	Å
Apex Quick Start	÷
Writing Apex	+
Running Apex	9
Debugging, Testing, and Deploying Apex	+

What is Apex?

Apex is a strongly typed, object-oriented programming language that allows developers to execute flow and transaction control statements on Salesforce servers in conjunction with calls to the API. Using syntax that looks like Java and acts like database stored procedures, Apex enables developers to add business logic to most system events, including button clicks, related record updates, and Visualforce pages. Apex code can be initiated by Web service requests and from triggers on objects.

Available in: Salesforce Classic (not available in all orgs) and Lightning Experience Available in: Enterprise, Performance, Unlimited, Developer, and Database.com Editions

You can add Apex to most system events.





Source: homeglowdesign.com

Programmer to Programmer

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Source: The Lord Of the Rings

Source: Zoolander





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Source: Zoolander

The Twelve Factors

I. Codebase

One codebase tracked in revision control, many deploys

II. Dependencies Explicitly declare and isolate dependencies

III. Config Store config in the environment

IV. Backing services Treat backing services as attached resources

V. Build, release, run Strictly separate build and run stages

VI. Processes Execute the app as one or more stateless processes

VII. Port binding Export services via port binding

VIII. Concurrency Scale out via the process model

IX. Disposability Maximize robustness with fast startup and graceful shutdown

X. Dev/prod parity Keep development, staging, and production as similar as possible

XI. Logs Treat logs as event streams

XII. Admin processes Run admin/management tasks as one-off processes

Source: 12factor.net



The Twelve Factors

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Source: 12factor.net



One Kubernetes Vendor Multiple Clouds

My Cloud's Managed Kubernetes







One Kubernetes Vendor Multiple Clouds

My Cloud's Managed Kubernetes







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Source: Michael Zhang - Delight Images

Serverless

"Servers are an increasingly useless abstraction. Useful to infrastructure engineers, but not to app developers"

> Charity Majors CloudNative London 2018



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Big Tech's grip on the world could trigger the next financial crash

Former HSBC boss sees parallels between pre-2008 banks and the technology firms on which society has become hooked

By James Cook and Morgan Meaker 30 November 2020 • 6:28pm

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We're making the same mistakes with Big Tech as we made with banks during the 2008 financial crisis - and









Source: PBS

Source: The Economic Times



← I/O Glue Code

Immutable Functions (Business Logic)

- Flask Boto3

Vendor-Agnostic Intellectual Property



Anti lock-ln is a "solution" that I buy from a vendor

Sound architectural principles





Beginning Kubernetes on the Google Cloud Platform

A Guide to Automating Application Deployment, Scaling, and Management

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