

Vert.x 3: What's new?

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#jfall15





I write code

sometimes



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Trends

Microservices

Event Driven

Scalable



Vert.x is a toolkit for creating reactive applications on the JVM, supporting multiple development languages simultaneously.



Trends

Microservices

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VERT.X 3



Vert.x-web



redis



mongoDB

JDBC
Java Database Connectivity



Core API

- Java 8 only
- Fat Jar
- Vert.x Runtime
- Java, Javascript, Groovy, Ruby
- Event Bus
- Connectivity, Filesystem



Vert.x-web

- HTTP Server
- REST
- Event Bus Bridge (Websockets)
- Cookie management
- Security



Event Bus Services

- Wrap Event Bus calls in a service
- Deploy Verticle somewhere
- Create proxy where needed



Persistence integration

- Async API's
- MongoDB, JDBC, Redis, SQL



Vert.x-unit

- Problem: test completes before code is finished
- Context for testing async code
- `Async.complete()`
- `Context.fail()`



Pluggable metrics

- Dropwizard Metrics
- Measured (HttpServer, EventBus, etc.)
- JMX
- Registry
- Gauge, Counter, Histogram, Meter, Timer, etc.



Shell interaction

- SSH / Telnet
- Deploy, undeploy, list
- Metrics
- Event Bus interaction
- Extend with custom commands



**Looking for a Microservices toolkit?
Reactive, Scalable and Event Driven?
Needs to run on the JVM?**



**Looking for a Microservices toolkit?
Reactive, Scalable and Event Driven?
Needs to run on the JVM?**

VERT.X

Tim Fox: “Vert.x 3- be reactive on the JVM but not only in Java”

16 November 17:00 Amsterdam

Vert.x 3.0: What's new?

Erwin de Gier



“please rate my talk in the
official J-Fall app”



There's more

- Reactive streams implementation
- Docker
- Openshift cartridge
- Deploy from Maven repo
- Mail, Stomp, JCA



Performance

[https://www.techempower.com/benchmarks/
#section=data-r8&hw=i7&test=plaintext](https://www.techempower.com/benchmarks/#section=data-r8&hw=i7&test=plaintext)