From Desktop to Enterprise Java to the Cloud

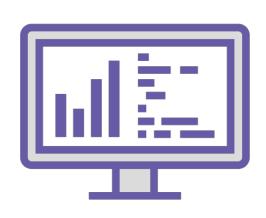


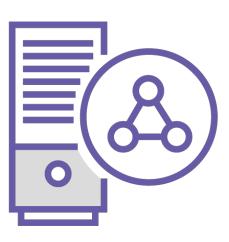
Sander Mak
FELLOW & SOFTWARE ARCHITECT

@Sander_Mak

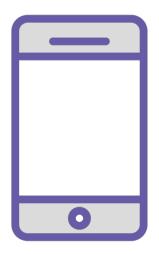
Overview

Desktop Enterprise Java Cloud Android



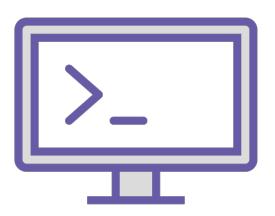






Desktop Java

Single machine, interactive applications



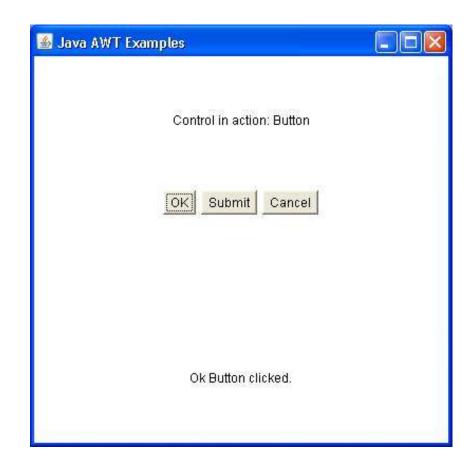


AWT

Abstract Windowing Toolkit

Native OS controls

Simple graphics primitives

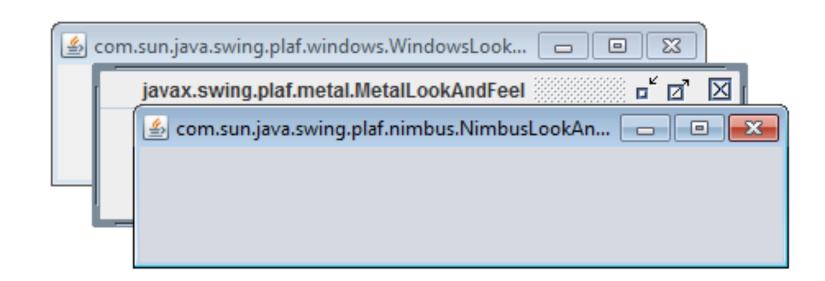


Swing

Pure Java GUI

Cross-platform look & feels

Model-view-controller



JavaFX

Declarative Uls: FXML

Advanced components

Skinnable with CSS

3D graphics

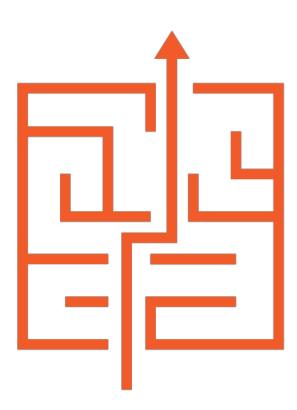


OpenJFX

Application

Java SE APIs

Java Virtual Machine



Enterprise Application

Java EE APIs

Java SE APIs

Java Virtual Machine

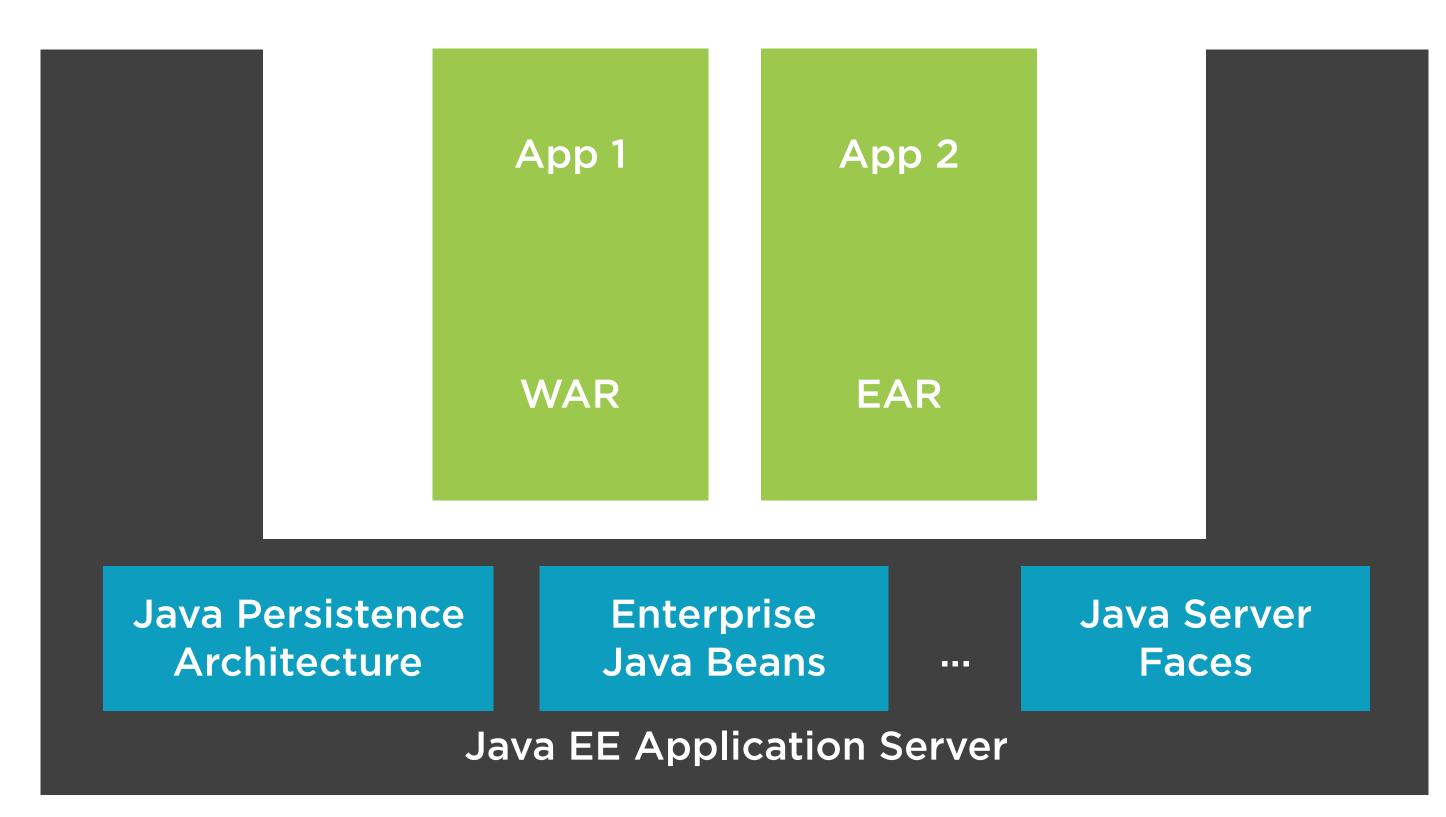
Data persistence

Web applications

Security

Messaging

JSON/XML handling



Wildfly (Red Hat)

WebSphere (IBM)

WebLogic (Oracle)

Tomcat (Apache)



Java EE Application Servers

Future of Java EE

Java EE 8 last Oracle release

Move to Eclipse Foundation

Spring Framework

jakarta.ee



Strategic Members







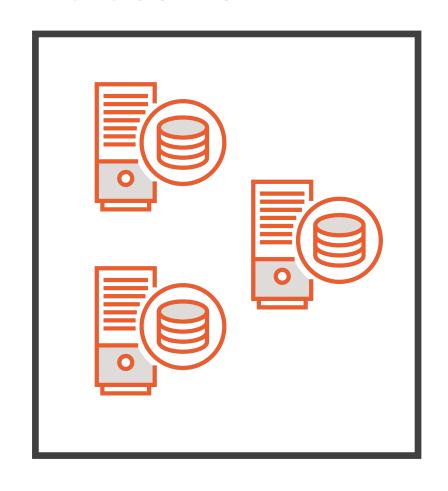


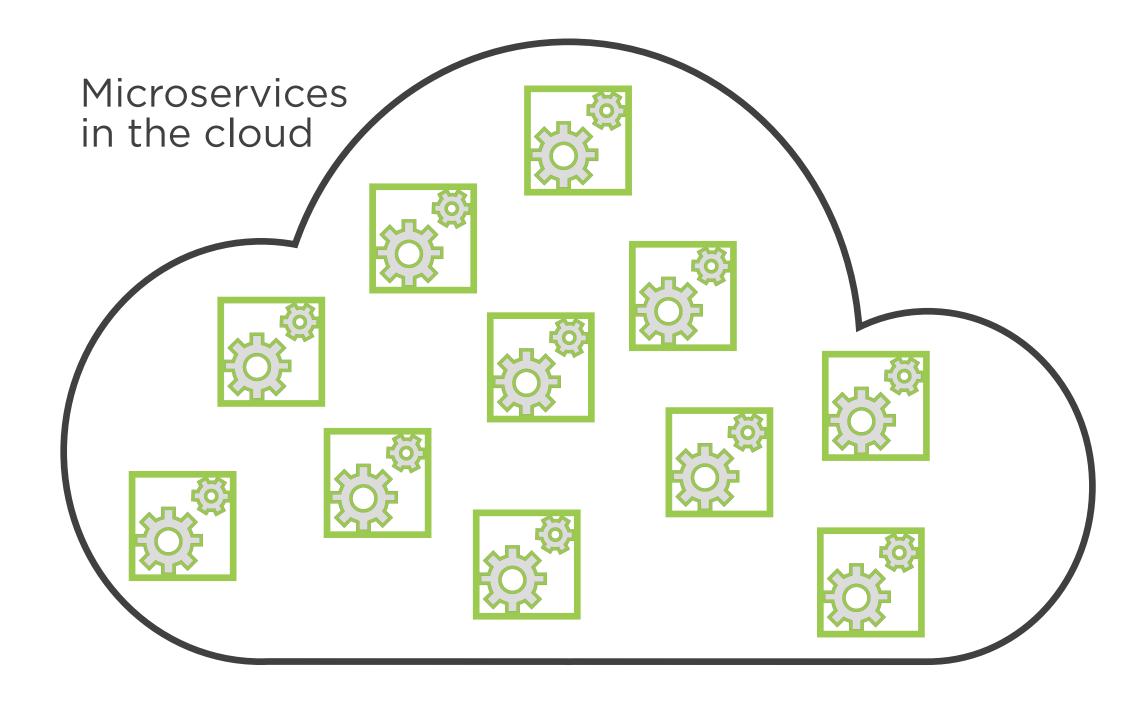




Java in the Cloud

Datacenter





Java in the Cloud

Spring Boot Application

Spring/ Netflix Libraries

Java SE APIs

Java Virtual Machine

Microframeworks

Spring Boot

MicroProfile

Vert.x

Play Framework

Android

Java primary development language

Java!= Android Java



Android

Java Language (7, subset of 8)

Java Bytecode

DEX (Dalvik Executable Format)

Android APIs

Java SEish APIs

Dalvik Virtual Machine

Summary



AWT, Swing and JavaFX



Java EE becomes Jakarta EE



Microframeworks: Spring Boot



Java != Android Java