

# IBM WorkLight Infraštruktúra na vývoj aplikácií pre mobilné zariadenia

Marcel Košťál

**e**FOCUS



# Computing Evolution



# Mobile Apps – Top Challenges



Creating rich, yet cost-effective mobile apps in a fragmented technological landscape

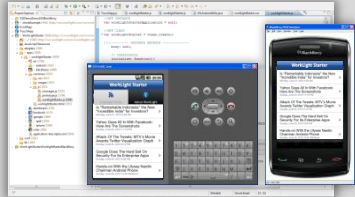


Connecting the enterprise back-end services in a secure and scalable manner



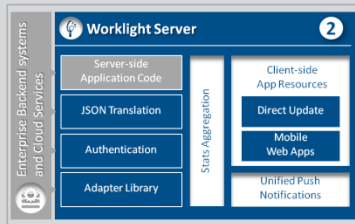
Controlling the growing portfolio of applications deployed “in the wild”

# Worklight Overview



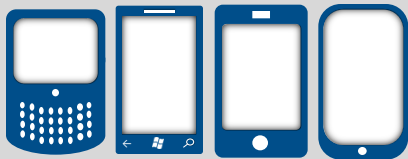
## Worklight Studio

The most complete, extensible environment with maximum code reuse and per-device optimization



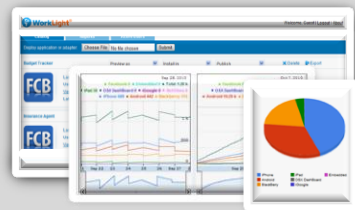
## Worklight Server

Unified notifications, runtime skinning, version management, security, integration and delivery



## Worklight Runtime Components

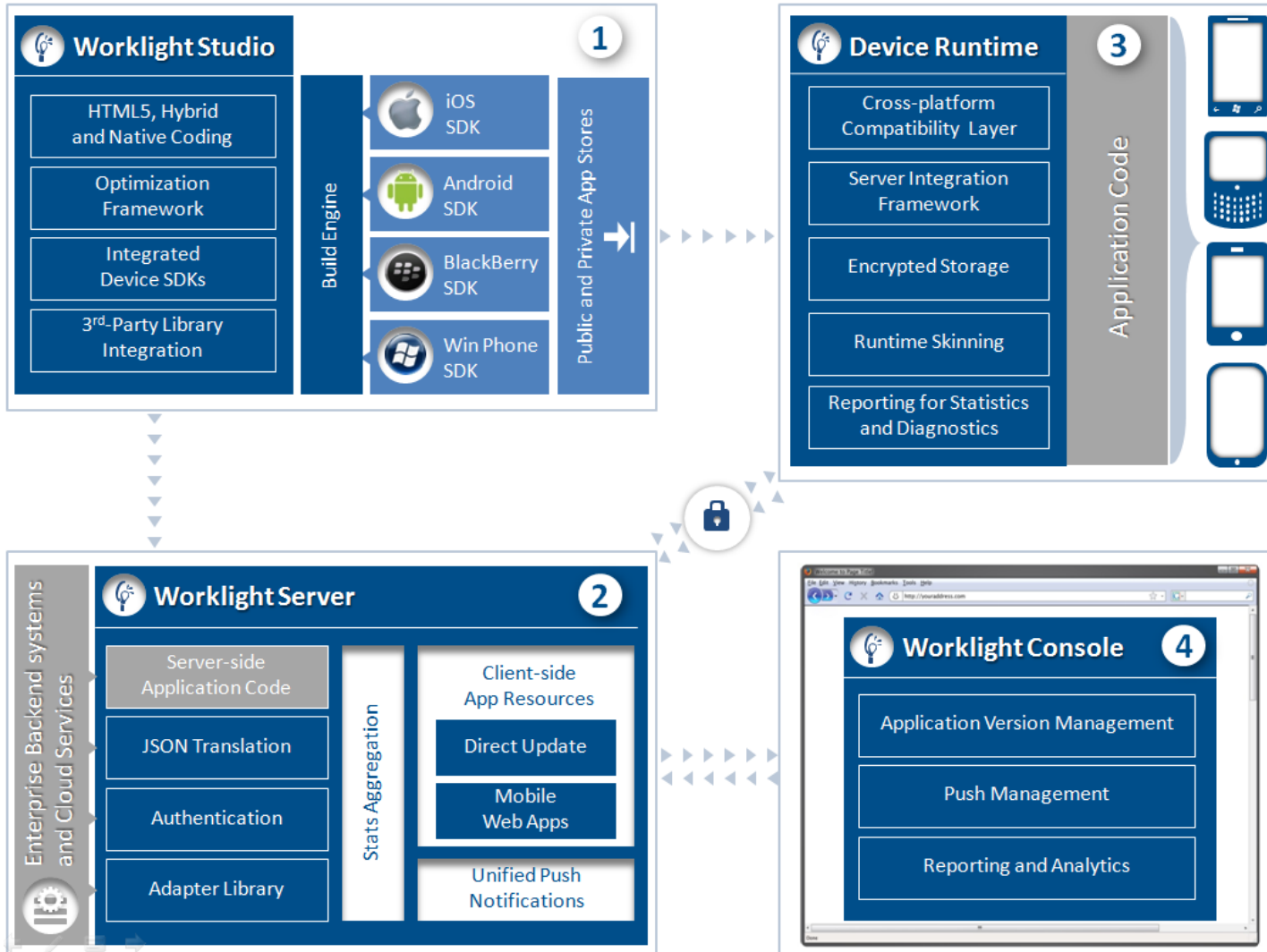
Extensive libraries and client APIs that expose and interface with native device functionality



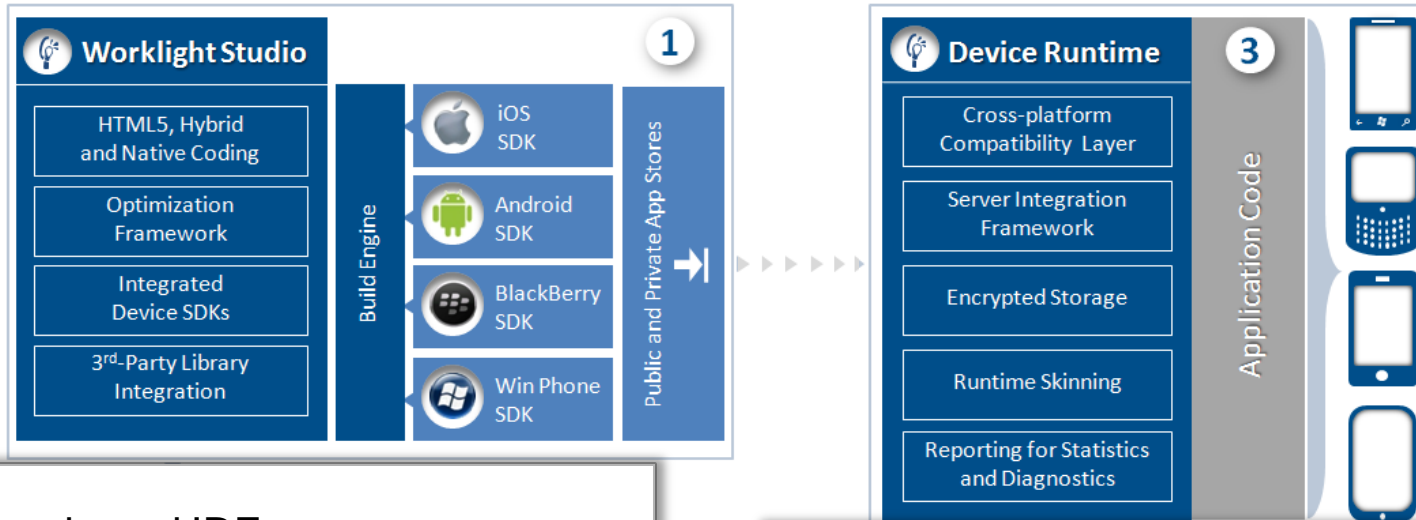
## Worklight Console

A web-based console for real-time analytics and control of your mobile apps and infrastructure

# Worklight Architecture



# Cost-effective Development



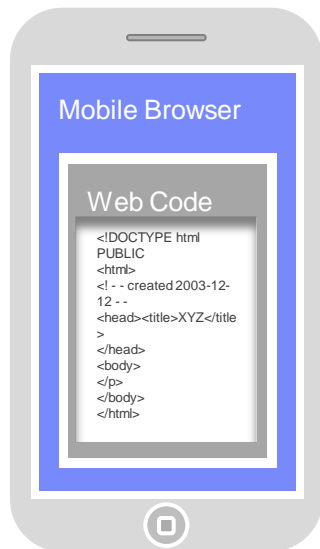
- Eclipse-based IDE
- Combining native and standard web technologies in one multiplatform app
- Environment-specific optimization
- 3rd-party libraries integration
- Device SDK integration
- Back-end connectivity utilities

- Framework for server integration:
  - Secure server connectivity
  - Authentication
  - Remote disable & notification
  - Push registration
  - Dynamic page loading & caching (soon)
  - Event reporting for analytics & audit
- Cross-platform compatibility layer
- Runtime Skinning
- Secure encrypted storage

# Worklight Mobile Application Types

## Web Apps

Written in HTML5 JavaScript and CSS3. Quick and cheap to develop, but less powerful than native.



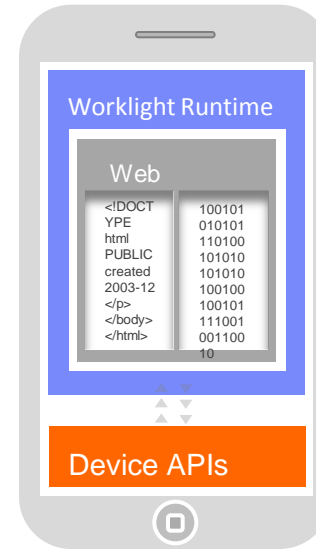
## Hybrid Apps - Web

Source code consists of web code and included Worklight libraries and executed in a native shell.



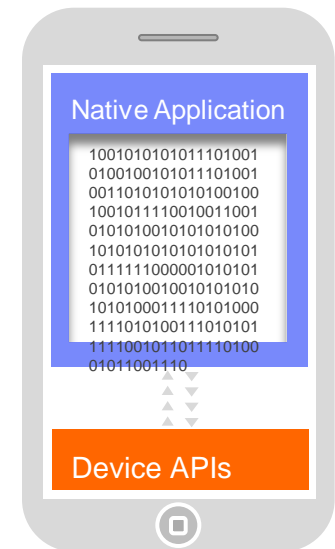
## Hybrid Apps-Mixed

User augments web code with native language for unique needs and maximized user experience.



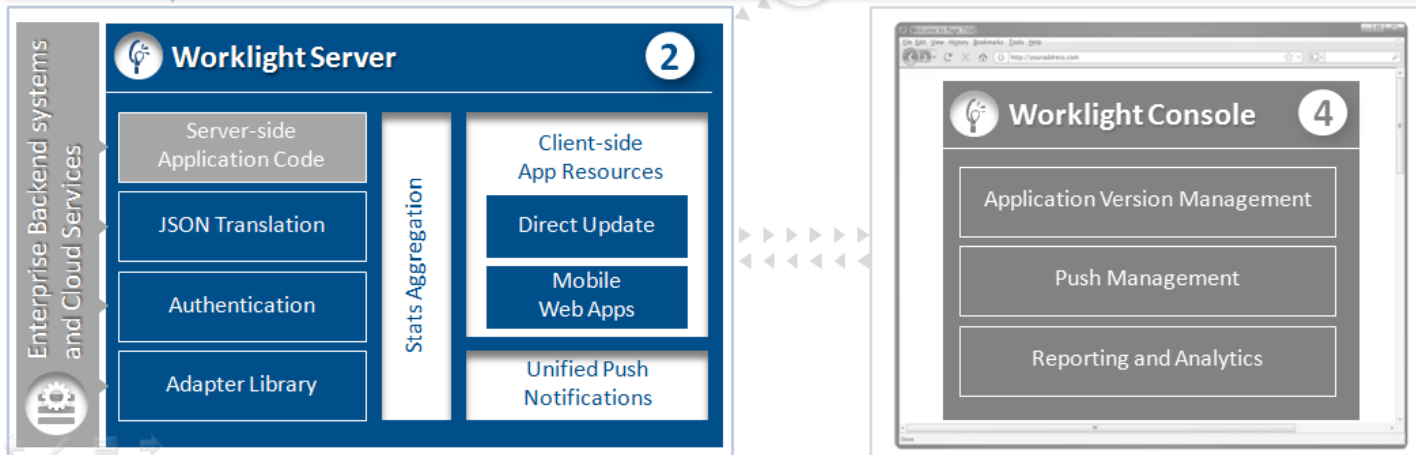
## Native Apps

Platform-specific. Requires unique expertise, pricey and long to develop. Can deliver higher user experience.



# Connection to backend

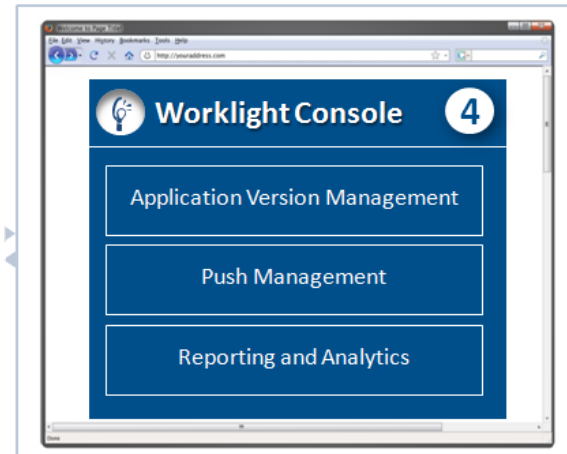
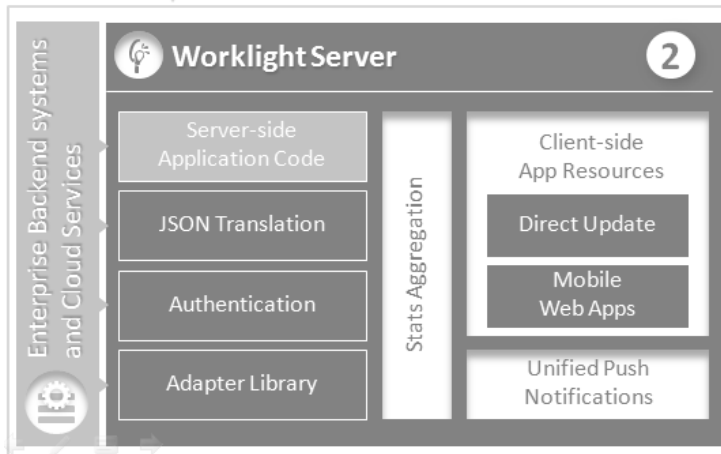
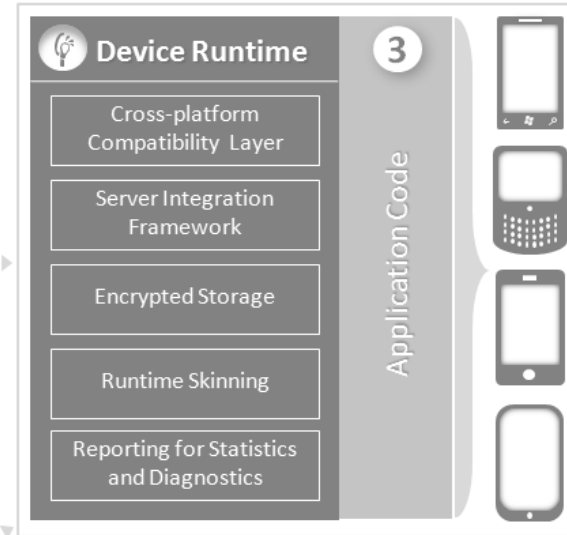
- Distribution of mobile web apps
- Enterprise connectivity:
  - Secure client/server connectivity
  - Direct access to enterprise back-end data and transaction capabilities
  - Authentication enforcement
- Client control:
  - Application version management and remote disabling
  - Direct update of application code
- Unified Push Notifications
- Aggregation of usage statistics





# Application management

- Application Version Management
- Push management
- Usage reports and analytics
- Reports of custom application events
- Configurable audit log
- Administrative dashboards for:
  - Deployed applications
  - Installed adapters
  - Push notifications
- Data export to BI enterprise systems



Ďakujeme za pozornost

