

# Deploy and Scale Spring Boot with confidence.



## Oracle Backend for Spring Boot and Microservices

Did you know **80% of enterprise Java development uses Spring Boot framework?** – Spring Boot provides low-code application development productivity by write-once run-anywhere from multiple infrastructure and cloud vendors. Microservices architecture has become increasingly popular in recent years due to the benefits it provides like **agility, scalability, and availability**, where individual services can be scaled independently, *allowing each service to be developed, deployed, and maintained by independent development teams*. Microservices deployments face complexity challenges because microservices are designed to be isolated and focused, creating a network of loosely coupled services that need to communicate and must be managed and deployed separately. **DevOps** require new expertise for developers and operations teams where platforms, people and processes are in sync yet don't block each other. Kubernetes makes this ease-of-use portable across cloud and on-premises deployments.

The [Oracle Backend for Spring Boot and Microservices](#) allows Java developers to provision and deploy a dev/test/prod backend with a single click to run their applications, that will run on **Kubernetes** and with the **Oracle Database**.

### The OBaaS platform

**Oracle Backend as a Self-Service (OBaaS)** brings several benefits to the deployment of microservices, and it's considered one of the twelve patterns for success implemented in a microservices-based application. Some of the main advantages are:

- **Reduced development time:** allows developers to focus on building their business logic rather than worrying about the underlying infrastructure – shrinking time to market for new features.
- **Lower infrastructure costs:** avoid upfront costs of setting up and maintaining your infrastructure with a cloud infrastructure. This can be especially a benefit for small and medium enterprises.
- **Enhanced security:** built-in security features, integrating off-the-shelf security for deployment are critical to protect your application and data by design.
- **Ready platform services:** services to exchange messages, host APIs, create inbound and outbound, routes manage distributed transactions, orchestrate service discovery, and many others are readily available.

Spring Boot Platform deployed on Oracle Cloud with automatic resource definitions; or with custom installs to bring your own database, networks, and Kubernetes.

“Oracle has simplified the creation and deployment of a Spring Boot stack so we can focus on business applications and microservices; DevOps is really simplified.”

**Alessandro Dugo,**

Architect, SMI Group

### Platform Services Included:

The following services are part of the solution:

- Oracle Cloud Infrastructure
- Oracle Container Engine for Kubernetes
- Oracle Cloud Infrastructure Compute
- Oracle Autonomous DB
- Oracle Transactional Event Queues (TxEventQ) with Kafka compatibility
- Oracle Transaction Manager for Microservices

### Oracle Support:

For questions email or slack:

[obaas\\_ww@oracle.com](mailto:obaas_ww@oracle.com)

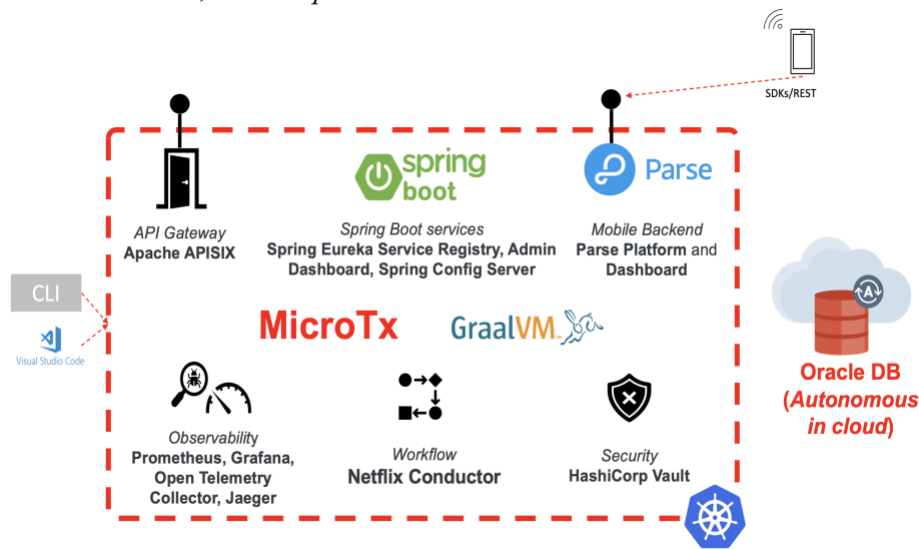
Slack channel:

<http://bit.ly/CustomerSlackOBaaS>

The OBaaS platform has been released to run on **Oracle Cloud Infrastructure (OCI)**, **Microsoft Azure**, and **custom deployments on-premises infrastructure with bring-your-own (BYO) database, networking, and Kubernetes**.

Working with a **Command Line Interface (CLI)**, a **Visual Studio Code VS extension**, applications can be built and deployed with a code transparent introspection to create related resources very easily, taking advantage of the data and apps services of the converged Oracle Database.

The following platform services are deployed in Kubernetes to support Spring Boot microservices: *Spring Eureka Service Registry, Admin Dashboard, Spring Config Server, Apache APISIX Gateway Server, Oracle Transaction Manager for Microservices (MicroTx), Prometheus, Grafana, Open Telemetry Collector, Jaeger, Netflix Conductor, HashiCorp Vault*.



**Parse Platform** helps build modern mobile applications with mobile SDK APIs, full-stack JavaScript to build Android and iOS native mobile apps, as well as web apps with backend in node.js and Express. An **Oracle Database adapter** uses the converged Oracle Database with Parse. The **Parse Dashboard** is included into the platform to allow managing your mobile apps and data.

The availability of a provisioned backend platform unifies Developers, Architects, DevOps Engineers, Platform Engineers, and DBAs like never before, and this simplifies the end-to-end lifecycle of modern enterprise applications.

To get started with these platforms from the OCI marketplace please the follow:

- Quickstart guide and Documentation: <https://bit.ly/oraclespringboot>
- CloudBank – a hands-on lab with OBaaS: <https://bit.ly/CloudBankOnOBaaS>
- OCI Marketplace listing [https://cloudmarketplace.oracle.com/marketplace/en\\_US/listing/138899911/](https://cloudmarketplace.oracle.com/marketplace/en_US/listing/138899911/)



“We needed a platform to operate in 90+ countries – cloud and on-prem, and OBaaS with Kubernetes as its multi-cloud operating system fit our requirements - so we could focus on our application features and not the underlying infrastructure of data and messaging, service discovery, API gateway, and many other platform services needed in a complete platform.”

**Vijay Nair**

Architect, Financial Services  
GIU

Oracle Database customers contact Oracle Support at

<https://support.oracle.com/portal/>