# Payara Qube Datasheet

The use of cloud environments can deliver a multitude of benefits to businesses that rely on software applications as part of their operations. For example, by adopting new infrastructure, applications can become core scalable and highly available, more elastic as well as enabling cloud migration. Rearchitecting applications into microservices and containers can bring improved observability and monitoring and fault isolation as well as improved resource utilization & cost efficiency. In addition, using Kubernetes as your container orchestration platform means you can automate deployment, scaling and management of containerized apps and allows you to run your apps with maximum efficiency and uptime.

While all these benefits are desirable, the deployment of applications in the cloud can take up considerable time and resources. In effect, it is estimated that between 20% to 60% of developers' time is typically used to integrate and manage cloud infrastructures. And that doesn't even take into consideration the added overhead of managing your applications with Kubernetes. To fully gain the benefits of cloud computing, it is therefore crucial for companies to leverage solutions that can simplify and streamline application cloud deployments and management. One such solution is Payara Qube.

# Why Choose Payara Qube?

Managing the complexities of cloud infrastructure, Kubernetes, and containerization can be a major drain on your development resources. Payara Qube is a zero-maintenance, unified platform for effortlessly deploying Jakarta EE, Spring, or Quarkus applications on your infrastructure, eliminating Kubernetes complexity while driving standardization, ensuring optimal performance and allowing your team to focus on delivering high-quality, innovative applications that drive your business forward.

## Application Requirements

Payara Qube will run any app following the Jakarta EE Web Profile or Spring Boot specification (Quarkus coming soon).

## What People Are Saying About our related PaaS platform, Payara Cloud

- Adam Bien

"Payara Cloud follows opposite design decisions to the "next-generation standards." The application server cluster becomes a Kubernetes Operator and manages the nodes for you. You don't care about the server and only have to push a ThinWAR to the cloud. Payara Cloud hides the Kubernetes complexity and dramatically simplifies the infrastructure. The infrastructure is strictly separated from the business code. Payara Cloud might become the most productive way to run "boring" applications everywhere."

- Steve Millidge

"We are reimagining what a Jakarta EE runtime is. You bring the .WAR file, we bring the cloud. Let Payara Cloud deal with infrastructure while you build the code."

# Introducing Payara Qube

Payara Qube is a new, unified platform designed to streamline the deployment of enterprise Java applications while driving standardization, eliminating the complexities associated with Kubernetes setup and maintenance.

**Key Benefits for Your Organization**

- **Reduced Operational Costs:** Payara Qube eliminates the need for in-house expertise in Kubernetes and cloud infrastructure management. This results in significant savings in hiring, training and ongoing maintenance costs.

- **Faster Time-to-Market:** With an automated infrastructure setup and streamlined deployment processes, your applications can go live faster, giving you an edge over your competitors.

- **Increased Developer Productivity:** By abstracting your organisation from infrastructure concerns, your developers can focus their energy and creativity on building and enhancing your core applications. We also support them in broadening their expertise.

- **Enhanced Scalability and Reliability:** Payara Qube's automatic scaling capabilities ensure your applications can handle traffic spikes and maintain optimal performance. High availability features guarantee minimal downtime, safeguarding your revenue streams.

- **Support of major Java frameworks:** Jakarta EE, MicroProfile, Spring and Quarkus with a standardized framework for consistent deployment across any environment without compromising performance.

- **Full data sovereignty and infrastructure control:** install on your own data centers and infrastructure within your security perimeter addressing critical security and compliance needs.

- **Compliance:** Like other Payara enterprise products, complies with all relevant legislation and will also be CRA compliant.

- **Expert Support:** Our experienced Payara team is available to provide support and guidance, ensuring smooth operation and resolving any issues promptly.

## What You Get:

- **Fully Managed Kubernetes Environment:** Forget about the complexities of Kubernetes management. Payara Qube provides a user-friendly interface for deploying, scaling and managing your applications without requiring deep Kubernetes expertise.

- **Automatic Scaling:** Payara Qube dynamically scales your applications based on real-time traffic demands, ensuring optimal resource utilisation and cost efficiency.

- **Enterprise-Grade Features:** Benefit from Payara Server's comprehensive suite of features, including clustering, load balancing, failover protection and session replication to achieve high availability and fault tolerance.

- **Monitoring and Logging:** Gain deep insights into your application's performance and behaviour through integrated monitoring and logging tools, empowering you to identify bottlenecks and optimise efficiency.

- **Payara Expertise:** Tap into the knowledge and experience of the Payara team, who are dedicated to ensuring the success of your cloud-native Java and microservice applications.

## For Decision Makers

- Reduce operational overhead and infrastructure costs
- Deploy applications faster and more consistently
- Free up technical team time for business innovation
- No need to hire specialised Kubernetes experts
- Maintain security compliance with on-premises deployment

## For Development Teams

- Focus on building applications, not managing infrastructure
- Deploy your application to any Payara product without rewrites
- Provides a standardised framework for consistent deployment across any environment – on cloud, on premises, or hybrid
- Support for all major Java frameworks
- Simplified deployment without technical complexity
- Broaden your expertise - become more T-shaped

# Try Payara Qube

Ready to experience the power and simplicity of Payara Qube? Contact us for an enterprise trial or sign up for your 15-day free trial of our hosted offering, Payara Cloud, today and discover how easy it is to deploy, manage, and scale your applications in the cloud.

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