Datasheet

How Payara Platform Fits into Your Cloud Strategy

The Payara® Platform - Production-Ready, Cloud Native and Aggressively Compatible.

Executive Summary

When you want to take advantage of the cloud to improve your business, but you're worried about moving existing Java EE applications –the Payara Platform offers a strategy to minimize expense and disruption to your business operations. You can leverage your developer's existing skillset to lift and shift your applications to the cloud with no retraining of the team required to get started.

The Payara Platform's open source technology is ideal for Java developers looking to run applications in the cloud, whether you need to move existing Java EE applications into the cloud or you're looking to build new, cloud-native Jakarta EE applications on public cloud. The Payara Platform works the same across any environment: public, private, hybrid, or multi-cloud, and its cloud-native, so it seamlessly integrates with cloud platforms and tools to help you manage and automate it all.

Cloud Integrations Reduce Expenses

You may think it's too expensive to move Java EE applications into the cloud or that you have to learn and use a different framework to build applications on the cloud. The Payara Platform helps overcome these hurdles as you can leverage the skills of your organization's current Java EE application developers to lift and shift existing applications into the cloud rather than rewriting the applications for a cloud environment.

The Payara Platform is open source, so there are no licensing fees required to download and use it in production like other application servers which charge customers additional fees to use their servers in the cloud.

Choosing a public cloud reduces your hardware expenses while providing scalability. Need another server to support your growth? No need to buy one, wait for delivery, and pay for installation – the cloud offers immediate access to scale up and down as needed.

JAKARTA EE COMPATIBLE

Server Requirements

Derived from GlassFish Server Open Source Edition, Payara Server uses the same basic system requirements:

- JDK8u163 or above
- 512MB RAM

Support for Any Operating System Running One of the Following Java Virtual Machines

- Oracle JDK8 (u162+)
- Azul Zulu JDK8 (u162+)
- OpenJDK JDK8 (u162+)
- Oracle JDK 11 (11.0.4+)
- Azul Zulu JDK11 (11.0.4+)
- OpenJDK JDK11 (11.0.4+)

Payara Platform integrates with the major cloud platforms, including:

- Microsoft Azure
- Amazon Web Services (AWS)
- Google Cloud Platform
- Alibaba Cloud

Integration with Your Cloud Platform's Infrastructure as a Service

For developers and administrators using the cloud for the first time, or moving existing Java EE applications to the cloud, you can rely on your cloud platform's Infrastructure as a Service (IaaS) capabilities to deploy Payara Server in a familiar way. You use IaaS to configure virtual machines and network elements to build a similar topology as would be built in an on-premise data center, using virtualization technology or physical hardware – while gaining the cost and flexibility advantages of on-demand cloud infrastructure.

Integration with Containers and Microservices

To take advantage of an elastic, scalable deployment without worrying about Virtual Machines, network elements, and other IaaS concerns, the Payara Platform integrates with containerization technology – including Docker. You can customize your Docker images or use the standard set of Docker images that come with the Payara Platform to build container images. The platform's standard Docker images can be used as a base with an additional configuration layer containing your application. For Payara Micro, the base image takes advantages of the "hollow JAR" capabilities to create a single, small layer that changes rapidly as your application evolves.

Related Products & Services

- Payara Enterprise Production Support
- Migration & Project Support
- Payara Accelerator Consultancy
- Three Release Streams
- Payara Micro - microservice and cloud environments
- Payara Scales - high-density memory store and WAN replication

Payara Enterprise Production Support

Options include:

- 24x7 – for mission critical environments
- 10x5 – business hours support

Ensures service level agreement (SLA) operation of your application server with:

- Unlimited tickets
- Customer Knowledge Base
- On-boarding support
- 10-year support lifecycle
- Fully supported production binaries
- Fully supported ecosystem components
- Access to Zulu Enterprise-fully-supported builds of OpenJDK

The Payara Platform integration with containers is ideal for microservices, is aligned to modern architectures and continuous delivery pipelines, and provides the advantage to quickly create and destruct containers for elastic workloads or rapid testing. If you have a more complex Microservices architecture consisting of multiple interacting microservices, it's possible to create container groups to start different Payara microservices together on the same compute resource.

Integration with Kubernetes

The Payara Platform integrates with Kubernetes out-of-the-box. To adapt your application to different environments, the Payara Platform can read container environment variables and Kubernetes secrets these can be used to configure database connection URLs, user names, passwords, or any environment-specific application configuration. These environment variables can also be read from the MicroProfile configuration API.

The Payara Platform also supports full clustering and high availability on Kubernetes. The Payara Data Grid provides elastic scaling for in-memory data on Kubernetes containers and can be horizontally scaled in and out automatically via Kubernetes while retaining in-memory data including user session and cache data.

Because the Payara Platform is built for running Jakarta EE and Eclipse MicroProfile applications in the cloud, you can modernize your infrastructure, move away from a monolithic infrastructure, and become more agile all while reducing expenses.

Save Time Using the Payara Platform as Your Cloud Strategy

Most CTOs realize it's not a question of whether or not to move to the cloud, but rather when and how to make the move so that it minimizes expense and disruption to business operations. With Payara Platform's extensive cloud integrations you can leverage your existing team with no retraining necessary.

To make the migration even more painless, commercial support for the Payara Platform is available. Payara Migration & Project Support option can help you migrate to the Payara Platform from WebLogic, WebSphere, GlassFish, or other application servers quickly and efficiently, while Payara Enterprise supports you in production. Your Payara Enterprise Support or Migration & Project Support contract provides support for the Payara Platform in any environment: public, private, hybrid, or multi-cloud, with direct access to Payara Engineers to ask questions and assist you if you have problems in moving your application to the cloud.

For teams in search of faster or more in-depth migration assistance, Payara Accelerator consulting solutions can provide troubleshooting, help with the actual lift and shift of applications, and new architectural design.

Click here to learn more about Payara Support Services

Payara Platform Cloud Resources

- Using Containers with the Payara Platform – Data Sheet
- The Payara Platform and Docker
- Payara Platform and Microsoft Azure – User Guide
- Using Payara Platform with Docker on Microsoft Azure – Data Sheet
- Why Run Java EE Applications in the Cloud with the Payara Platform – Data Sheet
- Build Highly Configurable Applications on Payara Server Using the Eclipse MicroProfile Config API – User Guide
- Payara Platform and Docker Blog Posts
- Payara Platform and Kubernetes Blog Posts
- Payara Platform Migration Guide

Payara Server Resources

Try Payara Server. Experience the benefits of developing Java EE applications in our Java application server.

Download: https://www.payara.fish/downloads

Just getting started with Payara? Watch a video tutorial, read technical overviews and resources to get the most out of Payara Server.

Learn more: http://info.payara.fish/getting-started-with-payara-server-useful-resources

Get involved. Join the Payara Community and help feed the fish! Payara Server is, and always will be, open source and we want your ideas, feedback and collaboration for ensuring Payara Server is the best option for production Java EE applications.

Learn more: https://www.payara.fish/community

About Payara Services, Ltd

We are a dedicated team of professionals devoted to Open Source, Java, our customers, and the community. We are major contributors to the development and engineering effort of the Payara Server Open Source Project and the Payara Foundation.

Our global team of specialist Payara Server Support Engineers delivers 24/7 production, development & migration support directly to our customers worldwide. When our customers need support – they get it straight from the engineers rather than an outsourced help desk employee.

As Solutions Members of the Eclipse Foundation, we invest our resources and expertise to improve, innovate and develop Open Source technologies. We are involved in shaping the future of the industry via our direct contribution to Eclipse EE4J (Payara's Director, Steve Millidge, is a Project Management Committee member), Eclipse MicroProfile, Eclipse IDE and many other projects.

As founding members and active committers to the Eclipse MicroProfile initiative, we contribute to optimize Enterprise Java for microservices architectures with the aim to drive forward industry innovation, further develop and contribute to the open source community.

We love to share Payara Server with the world, and when our commitment to continuous development and support of the Open Source software is combined with contributions from our community, we can ensure the highest quality solution. Let's continue to learn, create and shape the future of the industry together.

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