

Payara Cloud Vs AWS

What You Need To Know



Introduction

For businesses leveraging Jakarta EE for application development, the choice of a cloud platform is an important decision that can determine operational efficiency, scalability and overall cost-effectiveness. Two options in this space are Payara Cloud and Amazon Web Services (AWS). While both platforms offer cloud-based solutions, they cater to distinct needs and priorities. This quick reference guide comparison aims to shed light on the key differences between Payara Cloud and AWS, aiding businesses like yours in making an informed decision based on their specific capabilities and how they can support your requirements and goals.

PAYARA CLOUD	AWS (EQUIVALENT SERVICES)	BUSINESS CONSIDERATIONS	TECHNICAL CONSIDERATIONS
PaaS (Platform as a Service)	IaaS (Infrastructure as a Service, using different offerings) or PaaS (using services like Elastic Beanstalk)	Payara Cloud offers a managed platform, reducing operational overhead. AWS provides more flexibility but requires more management.	Payara Cloud abstracts complexities of Kubernetes and Docker. AWS requires manual configuration and management of these technologies.
Specifically designed for Jakarta EE and MicroProfile applications.	General-purpose cloud platform. It supports various technologies, including Java and Jakarta EE.	Payara Cloud offers specialised optimization for Jakarta EE applications. AWS provides a wider range of services but may require additional configuration for optimal Jakarta EE performance.	Payara Cloud simplifies deployment and management of Jakarta EE applications. AWS offers more flexibility but requires more expertise for Jakarta EE deployment.
One-click deployment and automatic scaling for Jakarta EE applications	Elastic Beanstalk offers similar deployment and scaling features, but requires additional configuration.	Payara Cloud prioritises ease of use and rapid deployment. AWS offers more customization options but may have a steeper learning curve.	Payara Cloud automates infrastructure setup and scaling. AWS requires manual configuration to implement similar functionality.
Built-in multi-tenancy support.	Requires manual configuration using AWS Identity and Access Management (IAM) as well as resource isolation.	Payara Cloud simplifies multi-tenant application management. AWS offers more granular control but requires additional setup for multi-tenancy.	Payara Cloud provides a streamlined approach to multi-tenancy. AWS requires more complex configuration for resource isolation and access control.

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End-to-end security with encryption, role-based access control and automatic security updates.	Offers various security services like Identity and Access Management (IAM), Virtual Private Cloud (VPC) and AWS Shield, but requires manual configuration.	Payara Cloud prioritizes security with built-in measures. AWS provides a wide range of security options but requires extensive expertise for their effective implementation.	Payara Cloud automates security updates and configurations. AWS requires manual configuration and ongoing management of security settings.
Monitoring and alerts through a centralised dashboard.	CloudWatch provides monitoring and alerting functions but requires setup and configuration.	Payara Cloud offers a user-friendly interface for monitoring. AWS provides more comprehensive monitoring options but may be more complex to set up.	Payara Cloud integrates monitoring and alerting seamlessly. AWS requires integration and configuration of CloudWatch to include similar functionality.
Seamless integration with databases and third-party services.	Offers a wide range of database and integration services but requires manual configuration.	Payara Cloud simplifies integration with common services. AWS provides more options but may require more effort for integration.	Payara Cloud streamlines the integration process through externalisation of configuration. AWS offers more flexibility but requires technical expertise for integration.
Offers Jakarta EE expert support.	Offers various support plans with varying levels of assistance.	Payara Cloud provides specialised support for Jakarta EE applications. AWS offers general support for its vast array of services.	Payara Cloud's support team is focused on Jakarta EE expertise. AWS support covers a broader range of topics but may not have the same in-depth level of Jakarta EE knowledge.

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Conclusions

Choosing between Payara Cloud and AWS boils down to your organisation's specific needs and priorities. If your applications are built on Jakarta EE and you prefer a managed platform with simplified deployment as well as automatic scaling, Payara Cloud is the ideal choice. Its specialised focus on Jakarta EE ensures best performance and compatibility, while its user-friendly interface and built-in security features streamline operations.

On the other hand, if your business requires a wider range of cloud services beyond application hosting, and you need the utmost flexibility as well as customization, AWS might be a better fit. AWS's extensive service portfolio and global infrastructure cater to diverse needs, but it requires more technical expertise and manual configuration to achieve similar functionality as Payara Cloud for Jakarta EE applications.

If you need a combination of the two platforms, you can always use Payara Server on AWS for your Jakarta EE workload. However, you will need to do extensive “plumbing” to have an optimal Jakarta EE deployment setup.

Ultimately, the best platform for your business depends on your specific requirements, priorities and budget. Your choice should be guided by your business interests and drive to deliver better value to your customers, faster!



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