



The Payara Platform Survey

2024

Digitalization Trends Among Java
and Jakarta EE Developers



Survey Highlights

Our recent survey provides valuable insights into how Payara Platform, Java and Jakarta EE users are shifting towards newer versions and adopting the latest innovations.

The responses demonstrate how users are utilizing Payara Platform, Jakarta EE, and enterprise Java solutions to drive their digital transformation efforts. This trend emphasizes that these technologies remain highly relevant and provide essential tools for future-proofing software applications and business operations, while ensuring long-term stability, security, and innovation.

Survey Objective

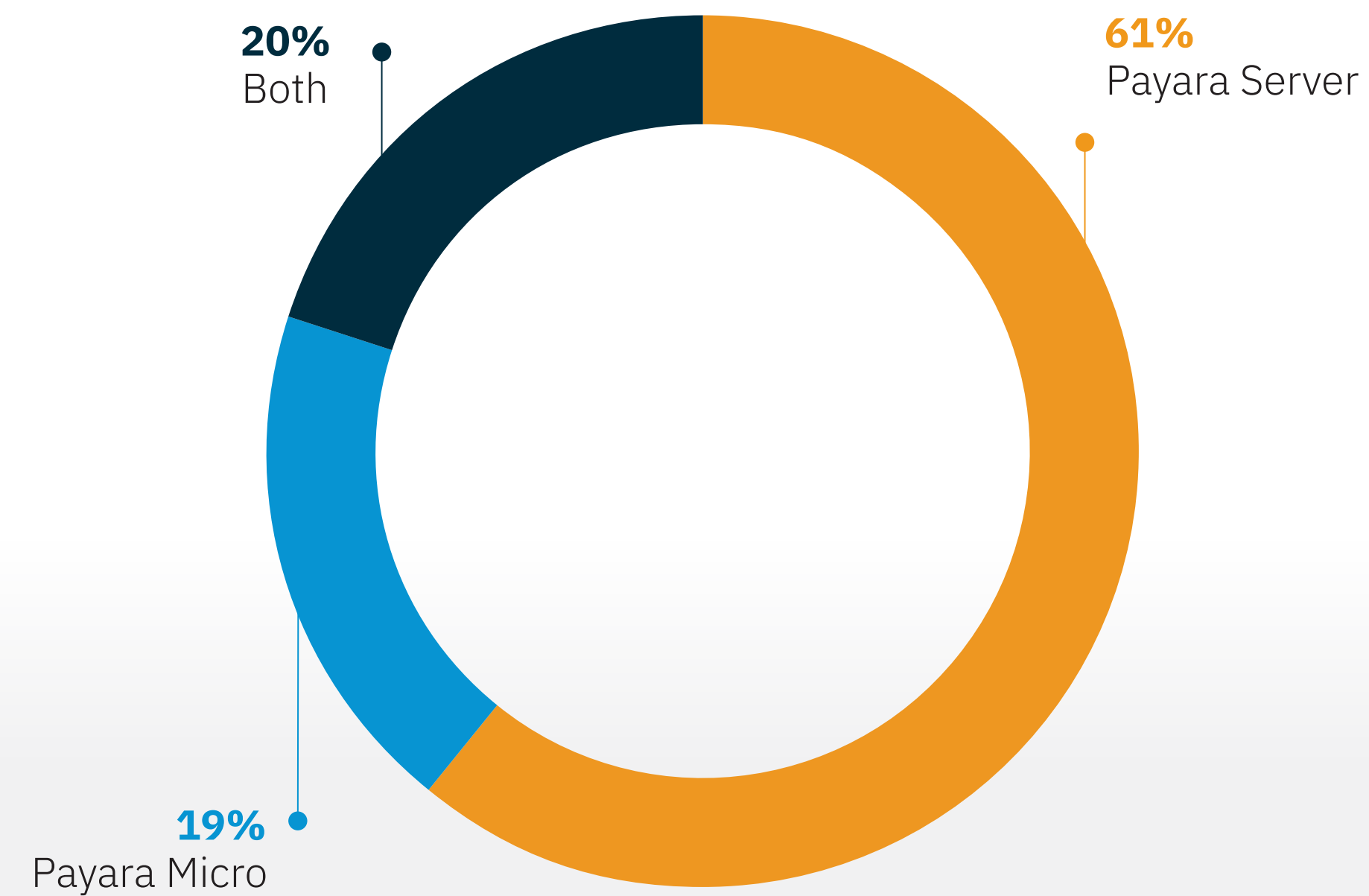
In April 2024, we conducted a survey to gain insights into the evolving landscape of digital transformation in application software development and management, particularly focusing on those who use the Payara Platform, Java and Jakarta EE. To this end, we invited anyone subscribed to our Payara blog and marketing communications to share their experiences and current practices. Our goal was to understand the digital tools and technologies driving our users' development projects, the software versions they prefer, and their future plans in this rapidly changing environment.

As digital transformation continues to shape the way businesses operate, we were keen to explore the trends influencing current choices and how companies are preparing for the future. From the tools they rely on to the strategies they are adopting, our users' input is invaluable in helping us shape the Payara Platform Roadmap for 2025 and beyond in line with real-world requirements and ambitions.

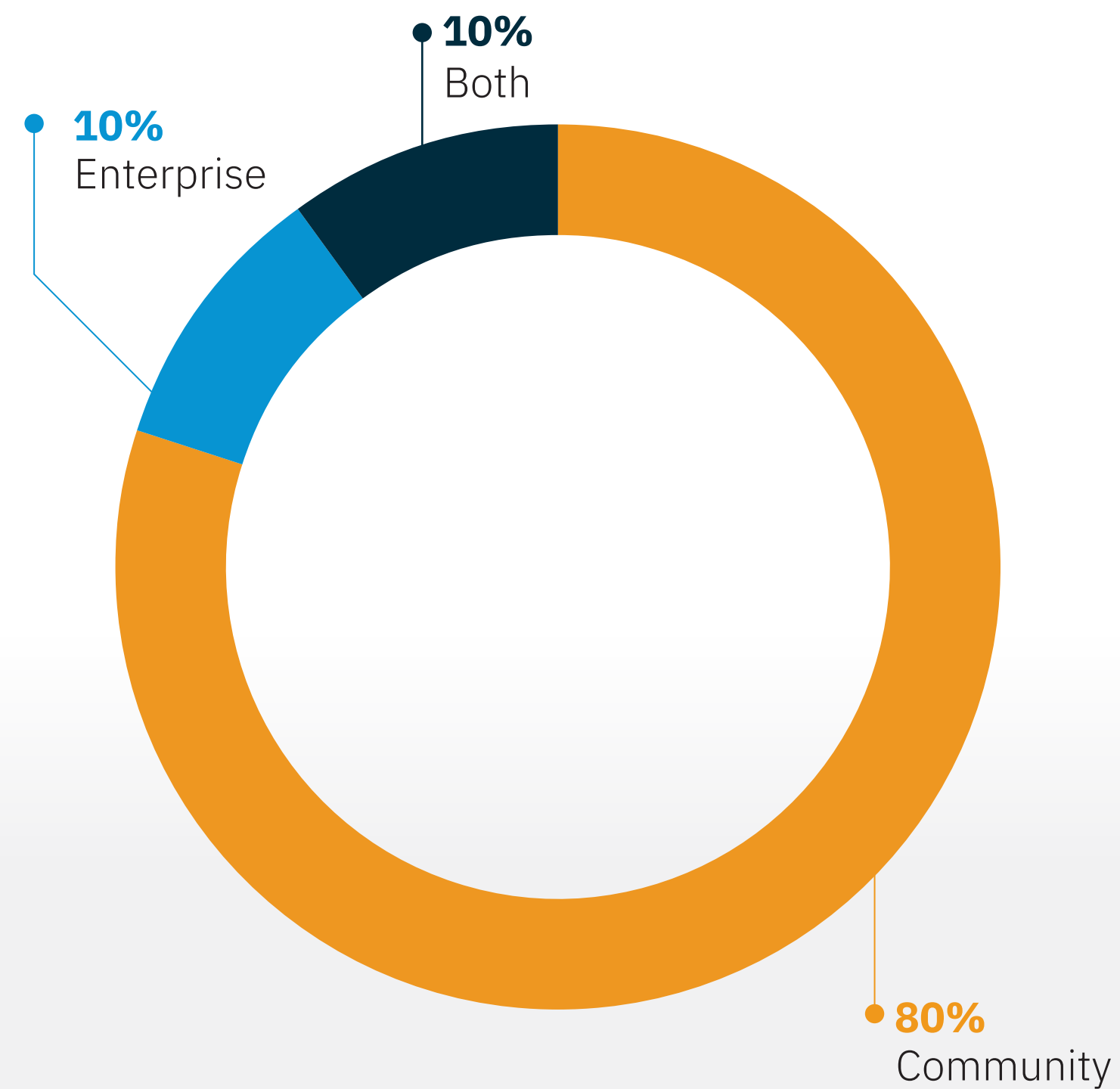
We're passionate about the future of Jakarta EE and Java, and we're committed to mapping the ecosystem to ensure we stay ahead of the curve. This report provides a snapshot of how the community is evolving—revealing whether the use of a specific technology stack is part of a broader trend or a unique approach. It also offers insights into the pace at which others are adopting new versions, giving a sense of where companies stand in the digital transformation journey.

Check out the results and see what's new for Payara Platform, Java and Jakarta EE users. We hope this report provides you with valuable insights and sparks new ideas as you navigate the ongoing digitalization.

Which Payara Platform do you use?



Which edition of Payara Platform do you use?



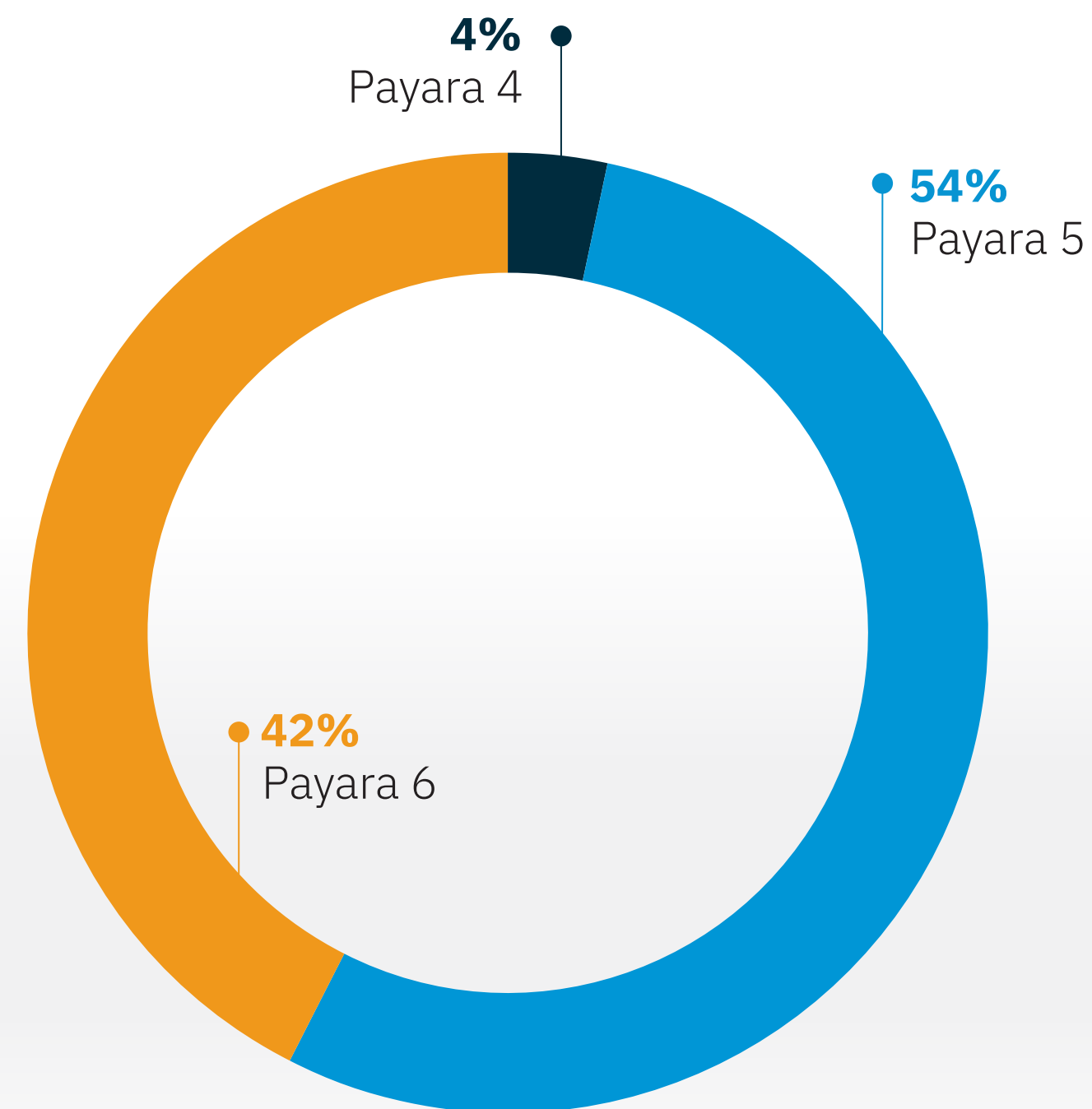
Payara Platform Enterprise: Software. Security. Stability. Support.

Choose Payara Enterprise if you're migrating mission critical software from another application server or if you are planning to run Payara Platform in production.

Payara Platform Community: Create. Innovate. Elevate.

Choose Payara Platform Community for software development experimentation projects, or when innovation is higher priority than security and stability.

Which version of Payara Platform do you use?



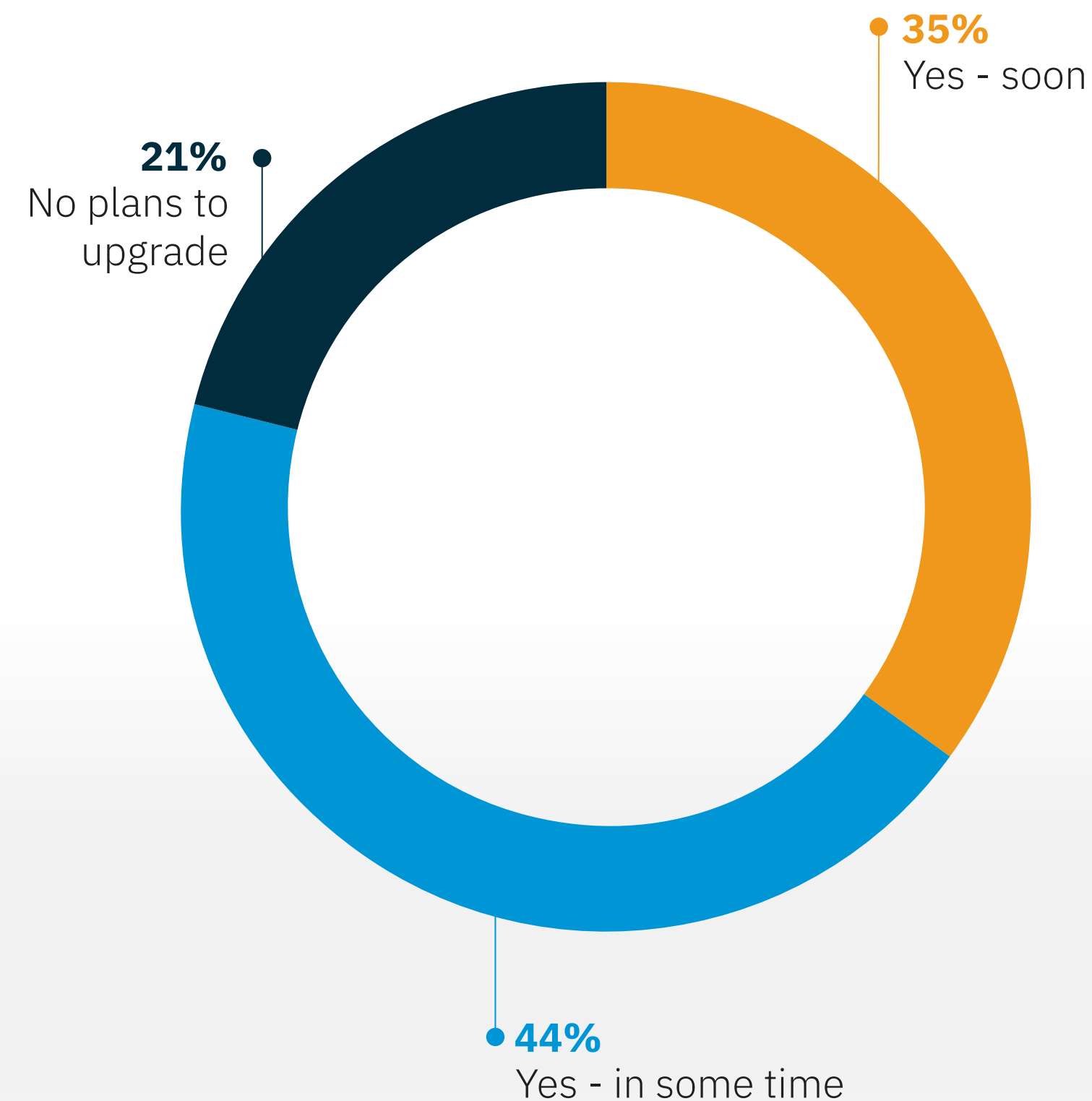
Embracing Innovation in Payara Platform

The latest trends in Payara Platform adoption highlight a clear shift toward adopting more modern and up-to-date versions, as businesses increasingly recognize the need to stay competitive in a rapidly evolving tech landscape.



While most users are now leveraging Payara Platform version 5 and 6, there are still many businesses that find version 4 valuable. To support them, we have lengthened the lifecycle beyond the set 10 years, offering Lifetime Extended Support.

Are you planning to upgrade to Payara 6?

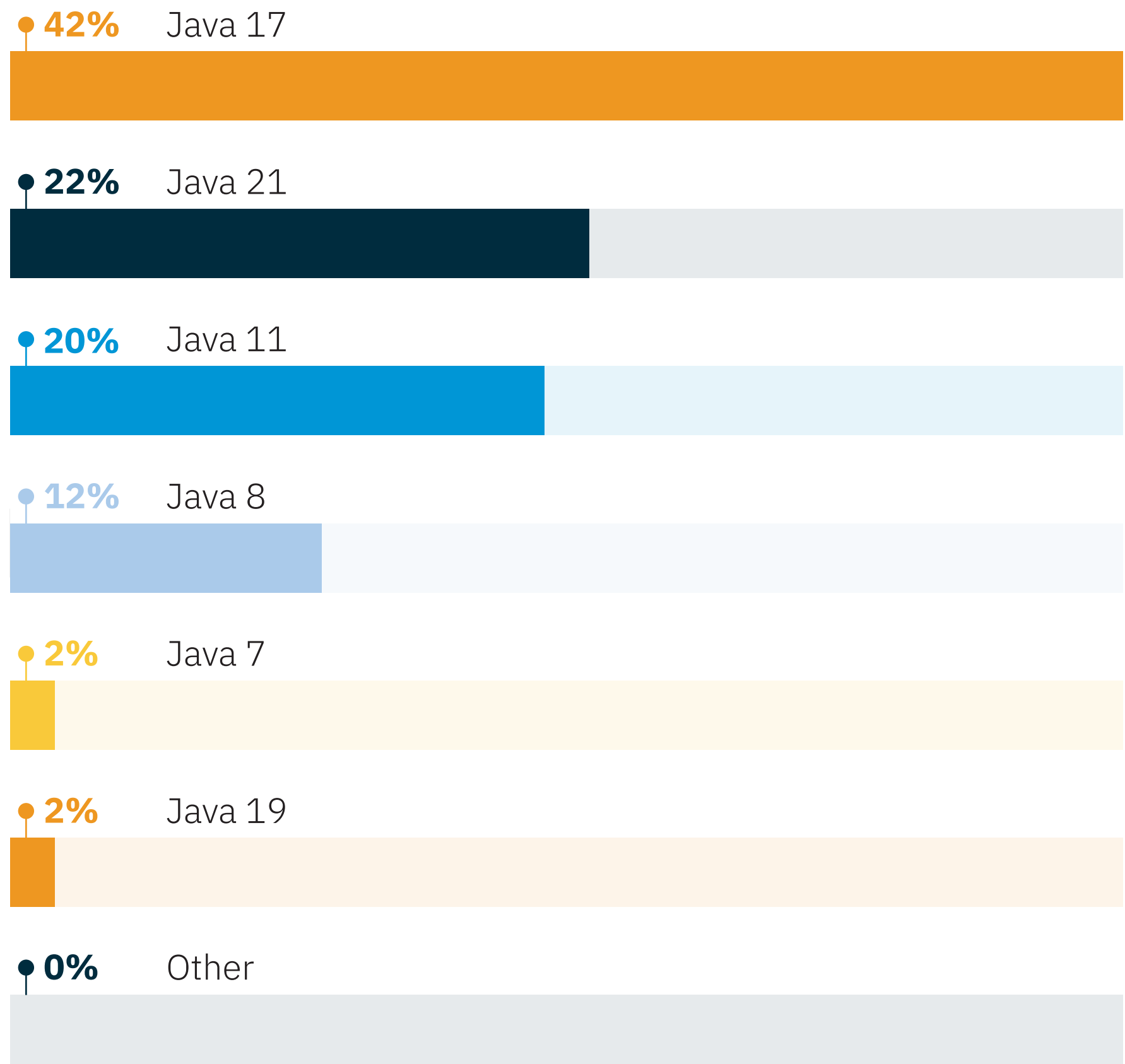


Payara 6 Community was released in its first stable version in November 2022, with Payara 6 Enterprise following in March 2023. These allow you to use Jakarta EE 10 and MicroProfile 6 with Payara Platform, with Payara Enterprise offering a fully supported, production-ready version of Payara Platform.

This year's survey shows a shift in Payara Platform users' plans to upgrade to Payara 6. The percentage of users intending to upgrade "soon" has increased significantly from 26% to 35%, suggesting growing urgency or readiness among some users. Meanwhile, 21% still have no plans to upgrade, just 1% below last year, reflecting a consistent segment of users who are either satisfied with their current version or hesitant to transition.

If you are still using Payara 5 or Payara 4, remember it is no longer updated in Community version, but you can get it fully supported and updated with Payara 5 Enterprise.

Which Java version do you use?



Futureproofing Java Systems

The ongoing digital transformation is driving a clear trend toward adopting the latest technologies, as evidenced by the shifting patterns in Java version usage among Payara Platform users as well as migrations from legacy to more up-to-date application servers.

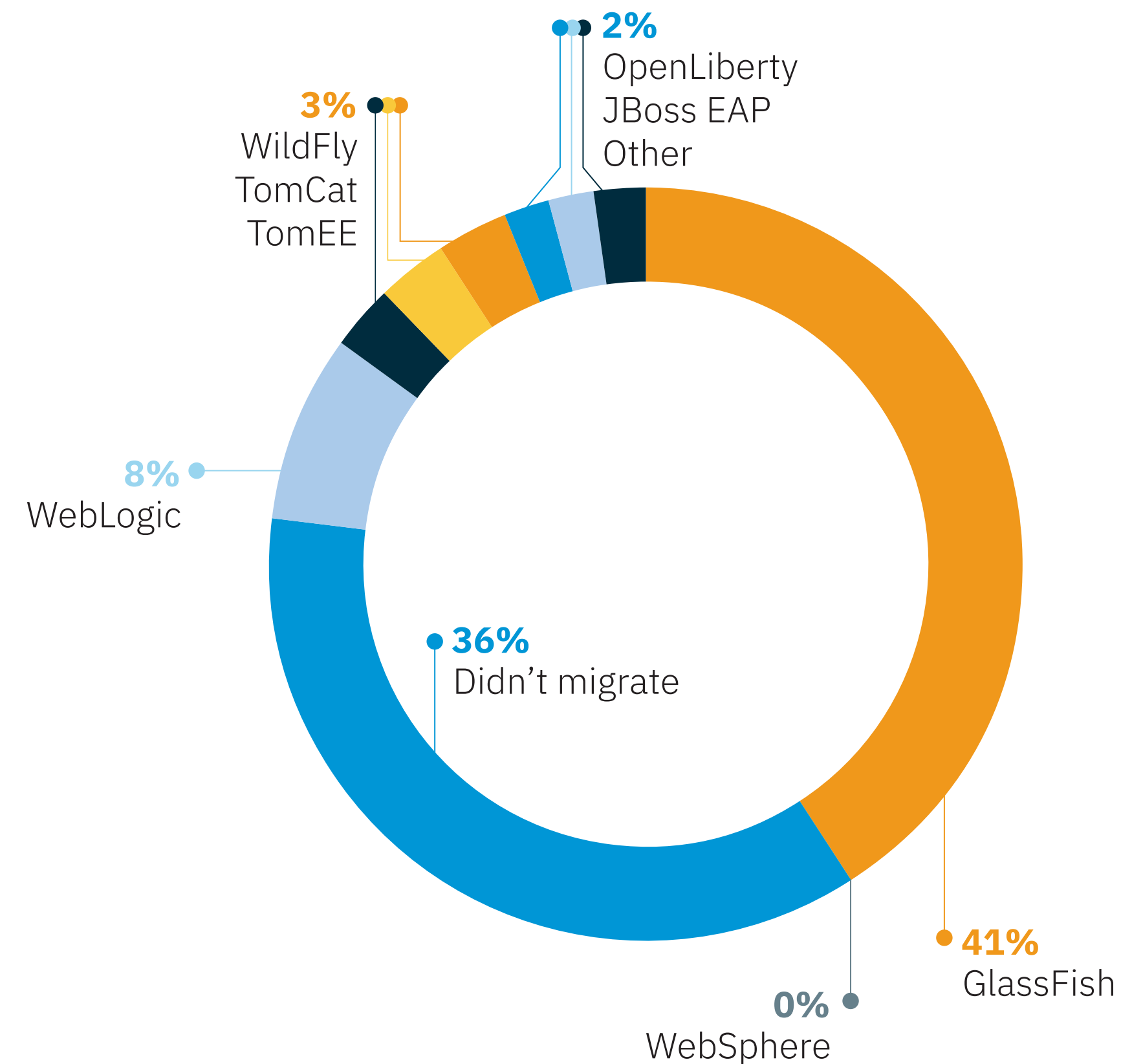


This year's survey reveals a significant shift in Java version adoption among Payara Platform users compared to last year. Java 17 maintains its stronghold with a steady 42% usage, identical to 2023.

However, Java 21, the newest Long-Term-Support (LTS) release, has quickly gained traction, capturing 22% of users, as we expected last year.

Older versions have seen a decline: Java 11 usage has dropped from 31% to 20%, and Java 8 has decreased from 19% to 12%. This trend highlights a clear move towards newer Java releases, with users increasingly adopting the latest innovations while gradually phasing out older versions.

What application servers did Payara users migrate from?

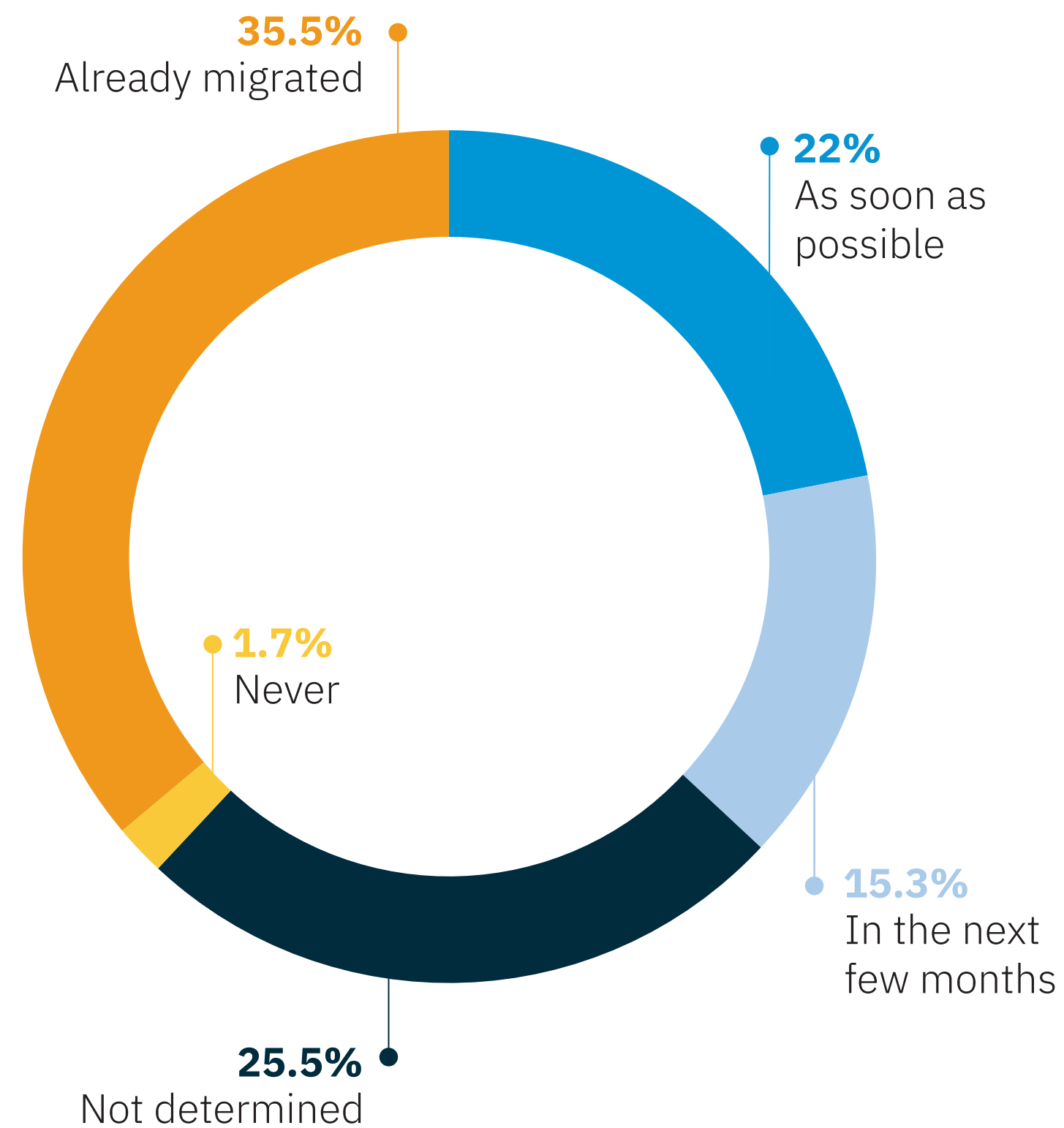


As in previous years, GlassFish remains the most popular application server to migrate from, and many WebLogic users are also shifting to Payara Platform.

Last year, we were glad to see that many developers chose us when moving to Jakarta EE for the first time, or for brand-new projects. In 2024 this number is even higher, at 35.5% in comparison to last year's 27%.

It's great to know Payara Platform is your first choice for running Jakarta EE apps.

When do you plan to migrate to the Jakarta namespace?



Embracing Innovation in Payara Platform

The latest survey indicates a slight increase in the number of users who have already migrated to the Jakarta namespace, rising to 35.5% from 32% last year.

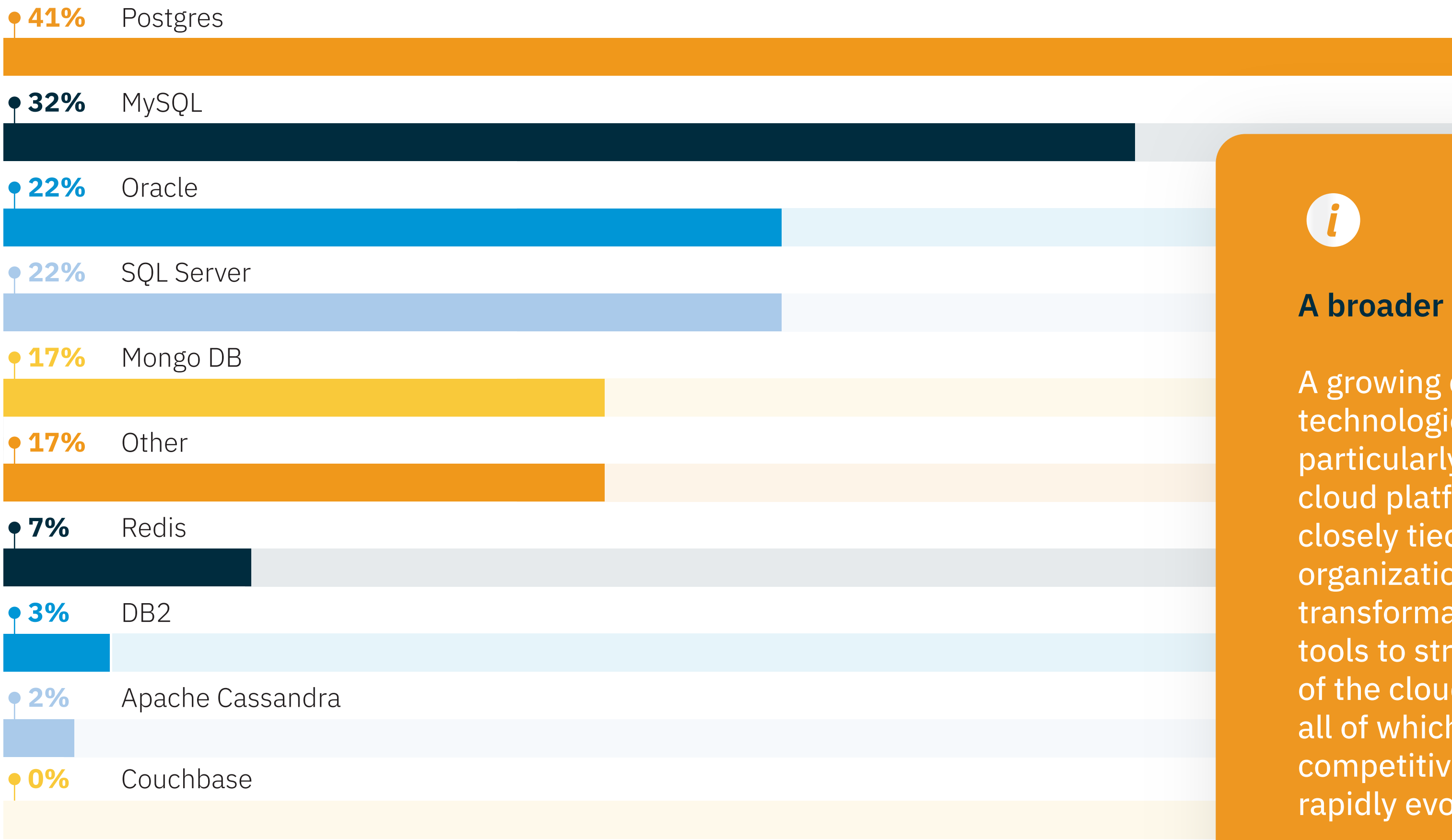
However, a significant portion of users, nearly 65%, have yet to make the transition. Among these, 25% remain undecided, down slightly from 29% last year, while 22% plan to migrate as soon as possible, a decrease from 27% previously.

Despite the gradual progress, most users are still navigating their migration plans.



When the open source software organization Eclipse Foundation took up stewardship of Java EE, it did not have rights to the javax namespace. The transition has now been made to the jakarta namespace and Java EE renamed Jakarta EE

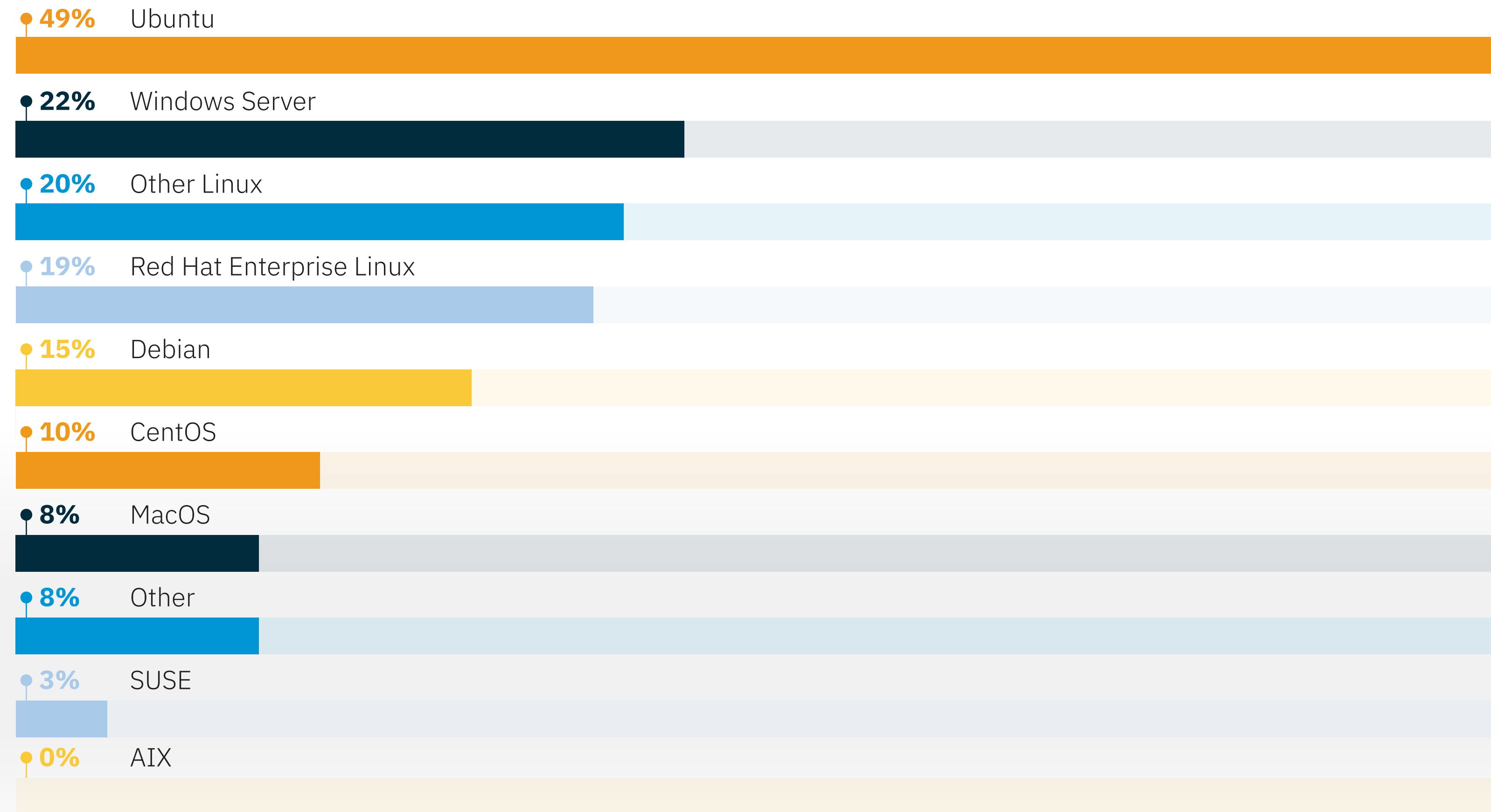
Which data storage system do you use with Payara Platform?



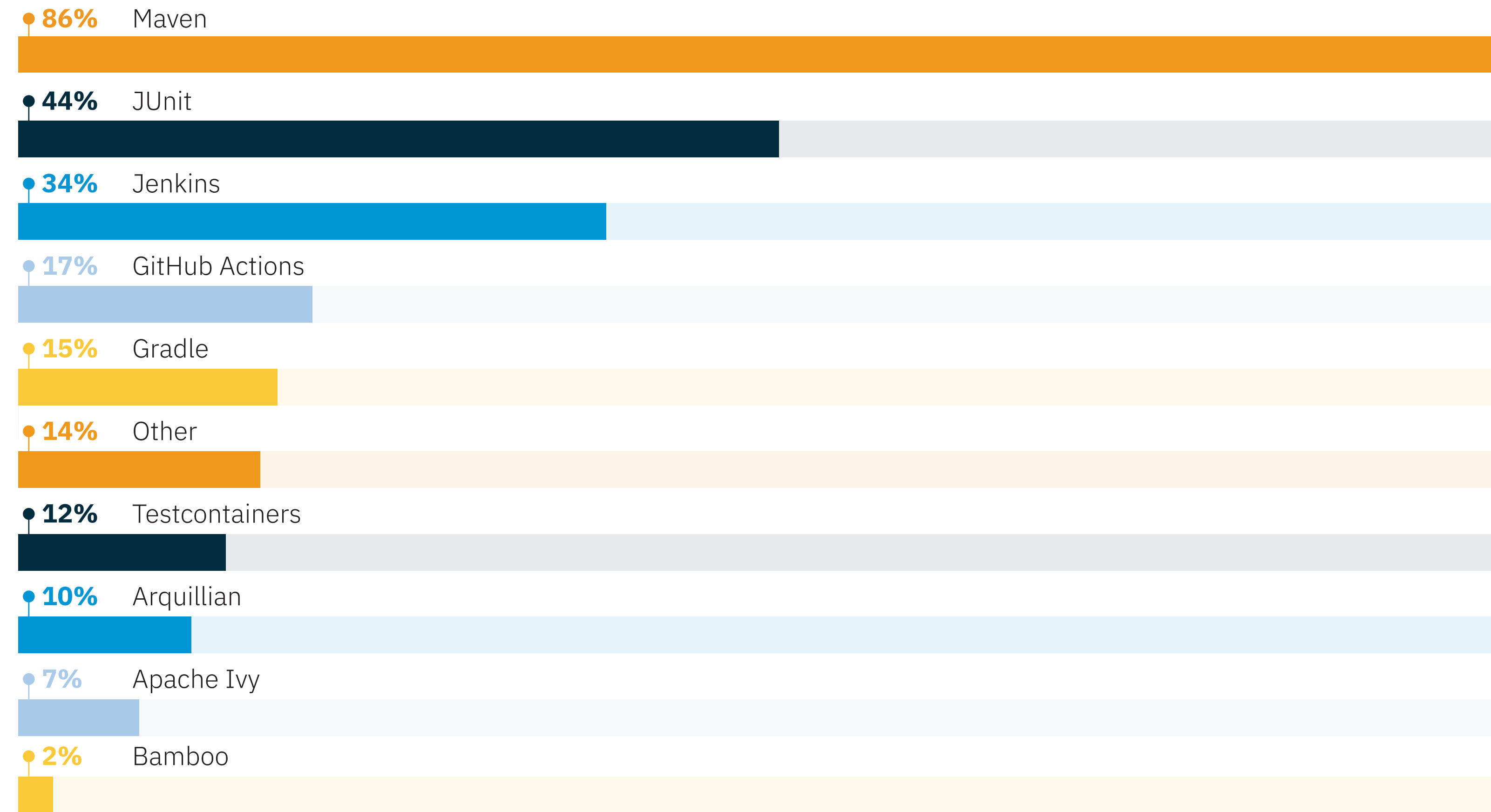
A broader landscape for technology tools.

A growing diversification in the tools and technologies used by Payara Platform users, particularly in the increased adoption of IDEs, cloud platforms and data storage solutions, is closely tied to broader digitalization efforts. As organizations push forward with digital transformation, they're embracing a wider array of tools to streamline workflows, harness the power of the cloud, and reinforce their security postures, all of which are critical in maintaining competitiveness and driving innovation in today's rapidly evolving digital landscape.

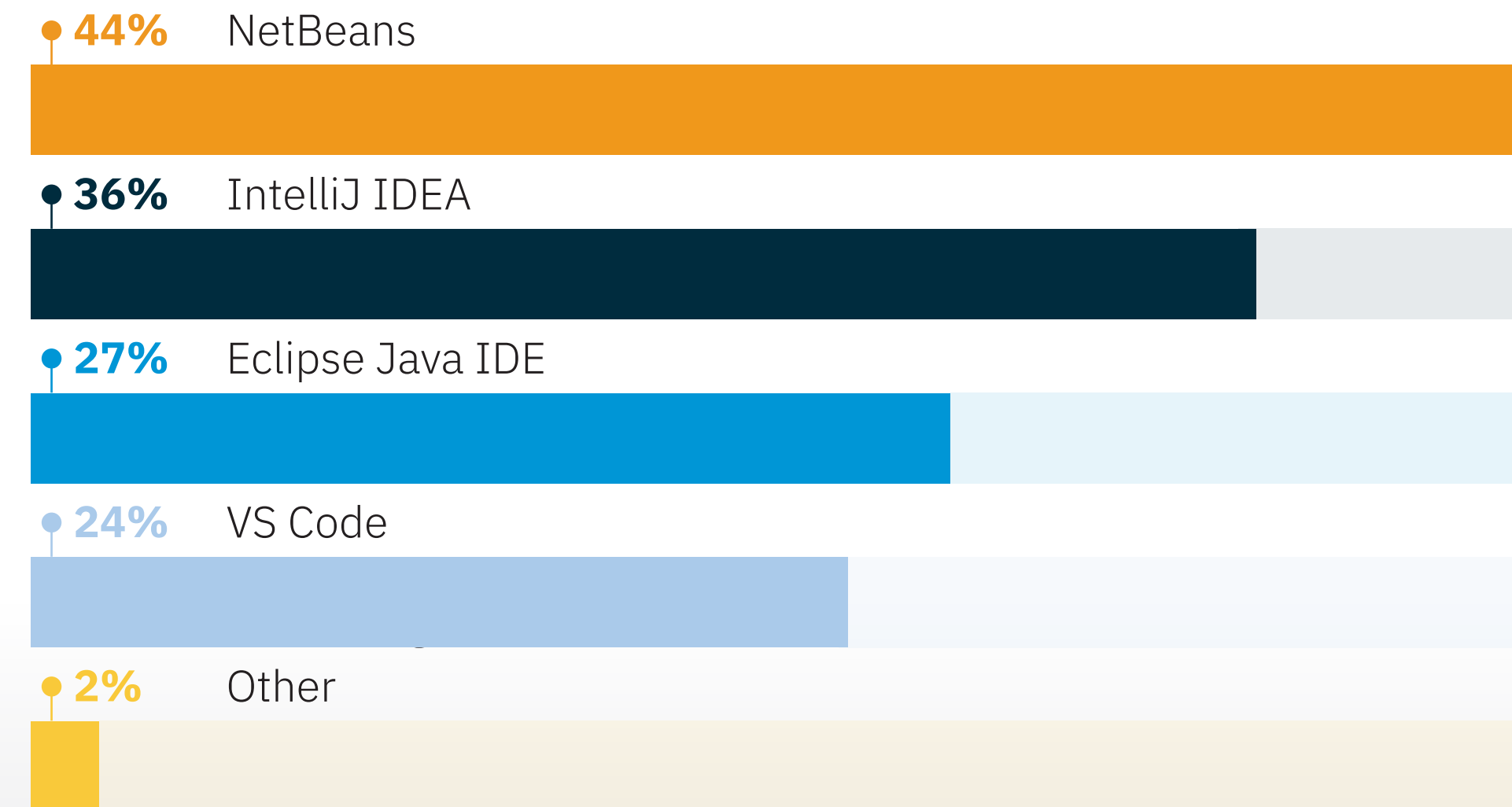
Which Operating Systems do you use with Payara Platform?



Which of these tools do you use?



Which IDEs do you use with Payara Platform?

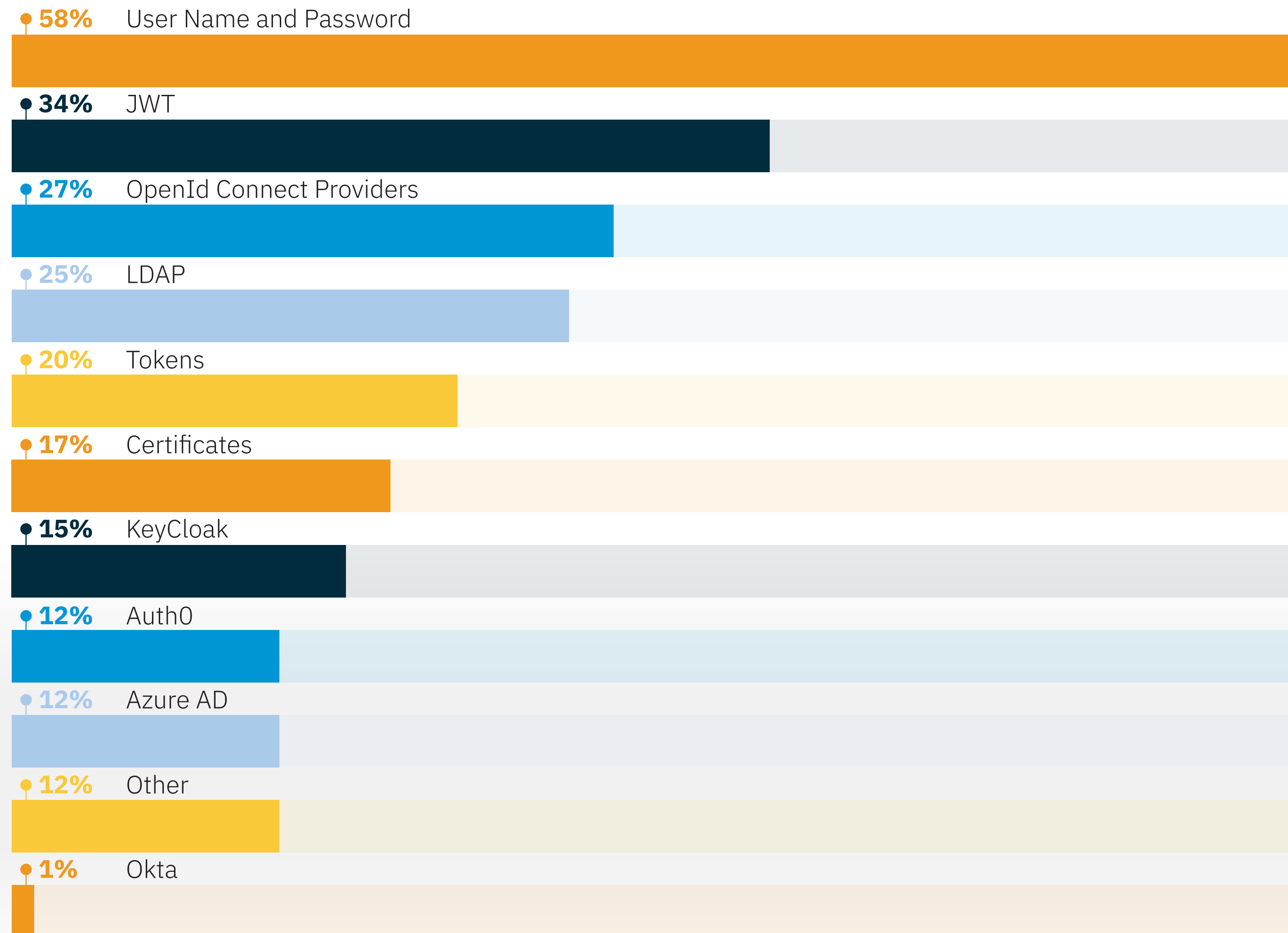


This year's survey reveals a noticeable shift in the preferred IDEs among Payara Platform users, with all major IDEs seeing a decline in usage compared to last year.

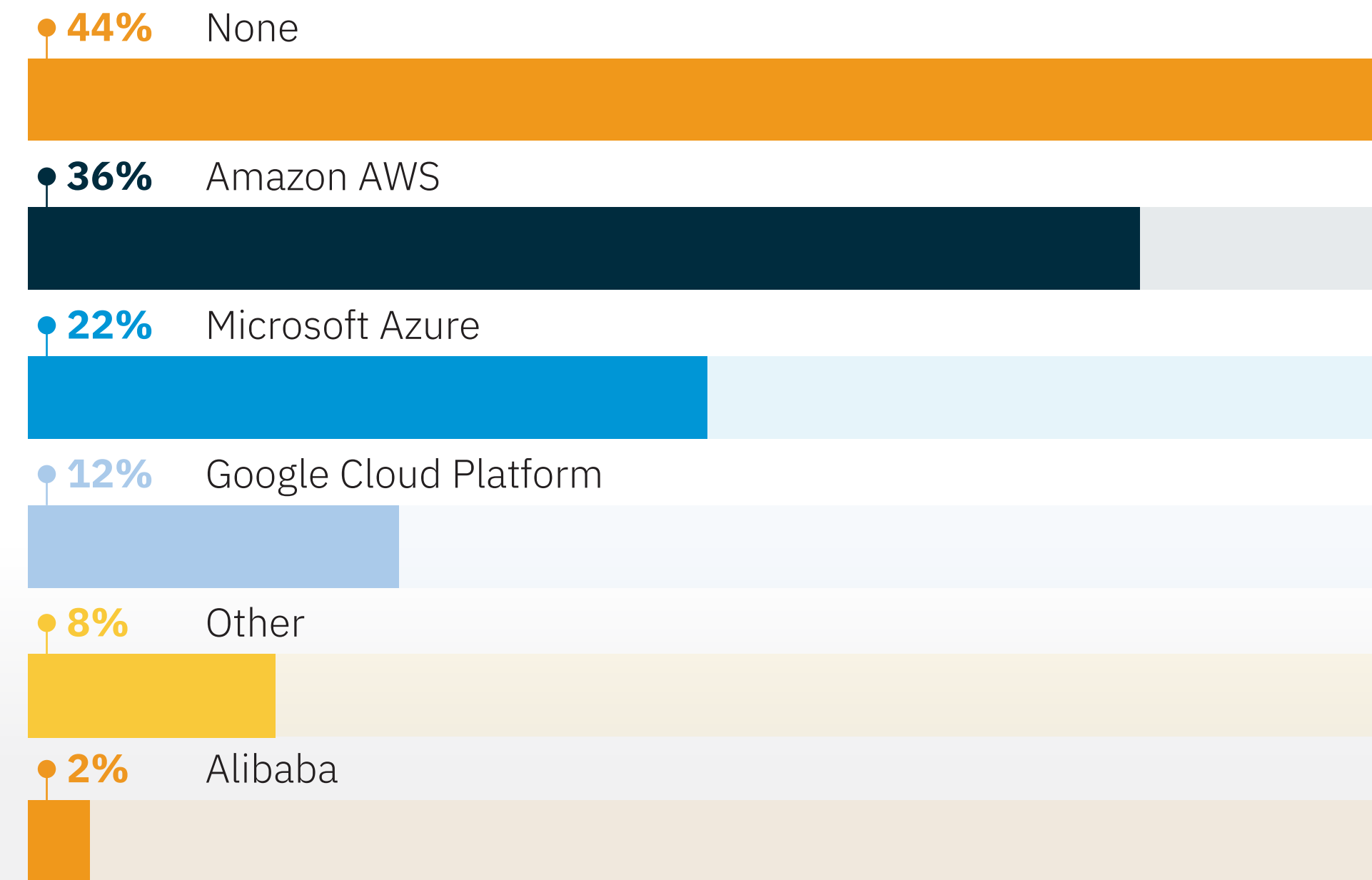
NetBeans remains the most popular choice, but its usage has dropped from 54% to 44%. IntelliJ IDEA has seen a slight decrease, from 37% to 35.6%. Eclipse Java IDE usage has significantly decreased from 45% to 27%, and VS Code has also fallen from 37% to 24%.

These trends suggest a diversification in the tools being used, with no single IDE maintaining its dominance as strongly as before.

Which security providers does your application use?



Which of these public cloud platforms do you use?



Interestingly, this year's survey shows only minor changes from last year's usage of public cloud platforms among Payara Platform users.

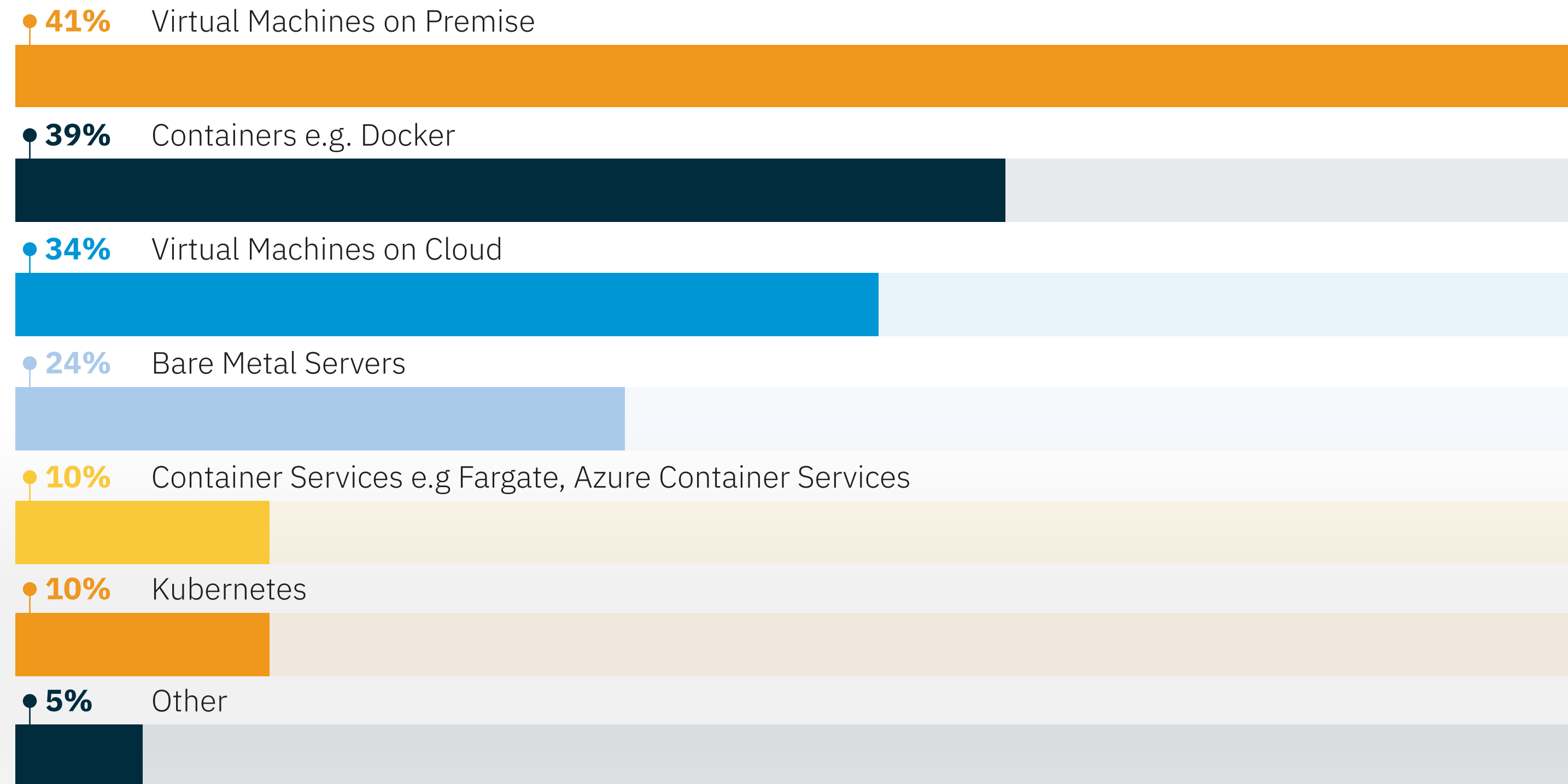
The percentage of users not utilizing any public cloud platforms increased only from 42% to 44%.

Amazon AWS remains the most popular choice, with a marginal increase from 35% to 35.5%.

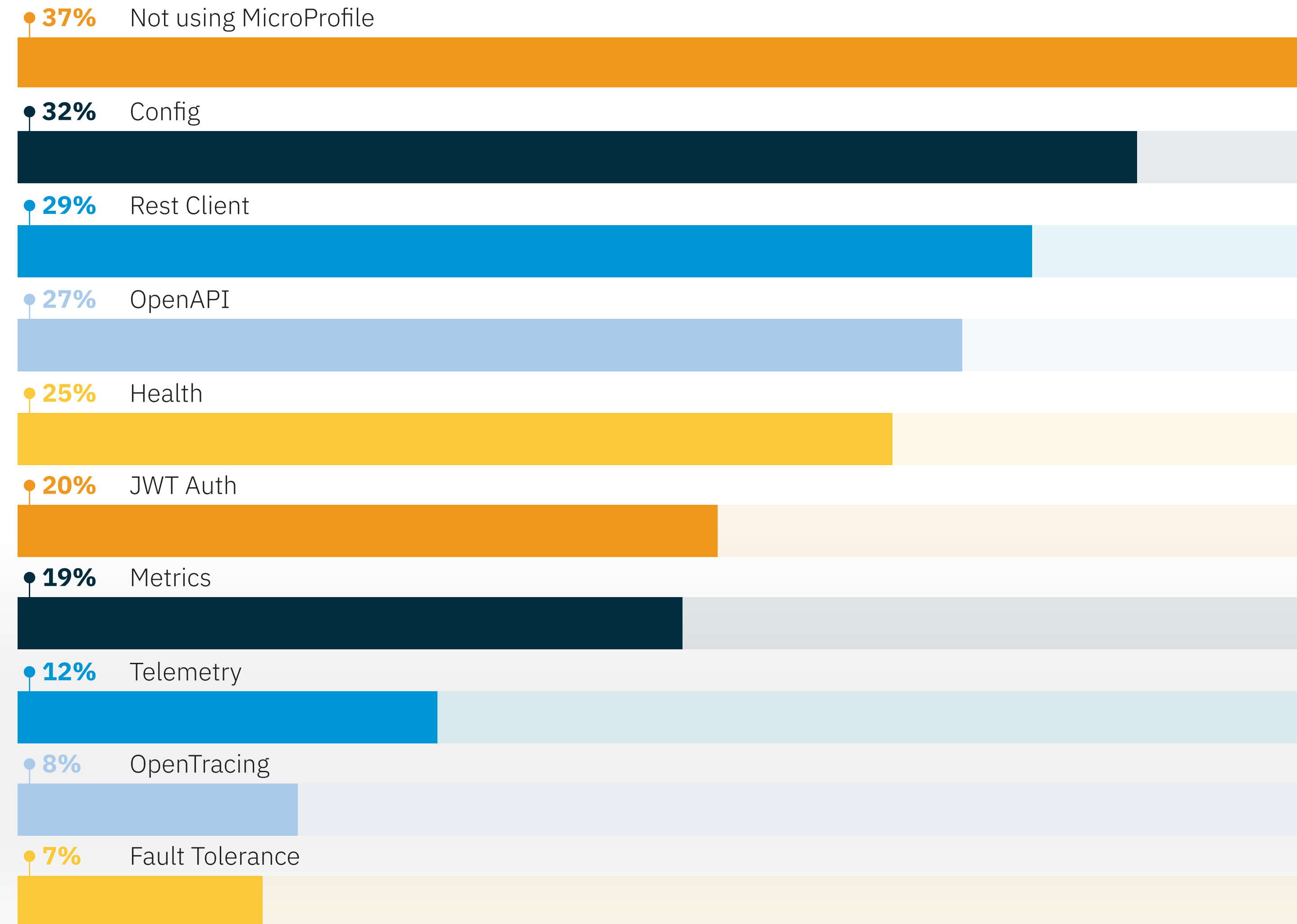
Microsoft Azure saw a slight decline, dropping from 25% to 22%, while Google Cloud Platform usage held steady at 12%.

Notably, Alibaba Cloud made a small entry into the mix with 1.5% of users, up from 0% last year, reflecting a gradual diversification in cloud platform adoption.

What do you run Payara Platform on?



Which MicroProfile APIs are you currently using?



Build Fast. Deploy Anywhere. Secure & Scalable.

Want a free trial of the production-optimized Payara Enterprise? Visit our website to get started now!

Payara Platform Enterprise is a stable, fully supported software for cloud, on-premise and containerized Jakarta EE (formerly Java EE) and MicroProfile applications.

- Get support directly from our expert Engineers
- Production-ready
- Worldwide adoption
- Enjoy a 10-year software lifecycle
- Monthly releases, bug fixes, and patches
- Security alerts and fixes

While you may be familiar with Payara Platform, have you tried our new product, Payara Cloud?

We Manage the Infrastructure for You – Push Your WAR to The Cloud in Moments

Payara Cloud is the next generation of fully-managed cloud native application runtime. It offers a flexible and powerful way to easily run your Jakarta EE apps on the cloud. Simply select your WAR, click deploy, and watch your apps run on the cloud – automatically, like magic.

Any web application following the Jakarta Web Profile specification can be uploaded and it will run in a containerized Payara Micro instance.

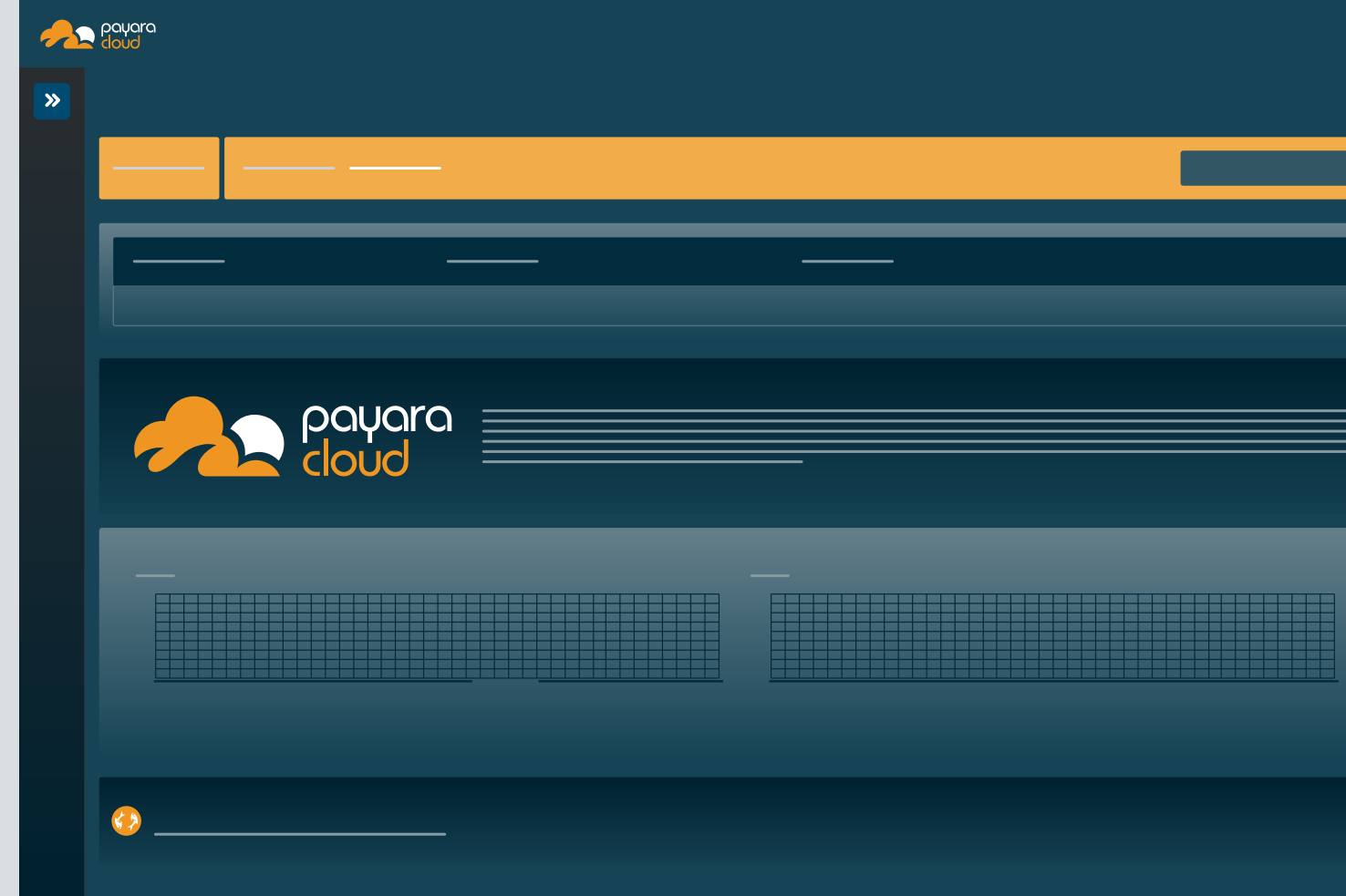
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ENTERPRISE TODAY**



15 DAY FREE TRIAL





As digital transformation accelerates, our survey results reflect a clear shift towards more modern solutions and practices among Payara Platform users.

These trends collectively demonstrate a robust commitment to modernization and a proactive approach to leveraging advanced tools for driving innovation in software applications and enhancing competitiveness in an evolving digital marketplace.

