Payara Platform 2021 Survey Report

Survey conducted: March - April 2021

Report Highlights

Jakarta EE 8 only shipped in September of 2019 and almost as many Payara Platform users are already using it (35%) as compared to Java EE 8 (39%). Only 7% of Payara Platform users reported using Jakarta EE in 2019.

The same percentage of Payara Platform users (36%) are using MicroProfile APIs in 2021 that reported using them in 2019.

The use of Docker with Payara Platform (40%) has increased from 32% using Docker with Payara in 2019.

The Top 4 Most Wished For New Features Include:

Infrastructure as Code: Java API to generate Asadmin CLI tool command scripts, Docker files and Kubernetes yaml files specific for Payara products (63%)

Grafana Dashboards: A predefined Grafana Dashboard template to visualise Payara Platform Monitoring data (62%)

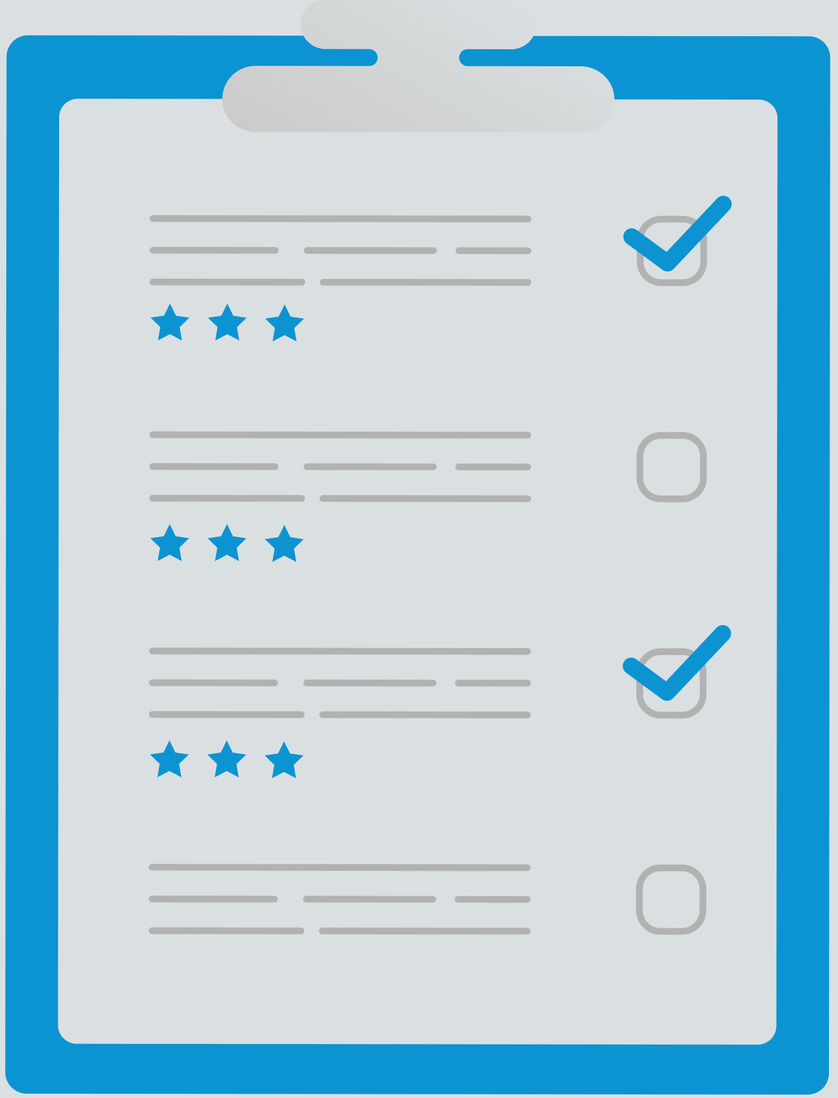
Platform Modularity: Ability to define which subsystem of the runtime are started and available for the application(s) (60%)

Better Domain Upgrade: Command line tooling for upgrading a domain in place (60%)

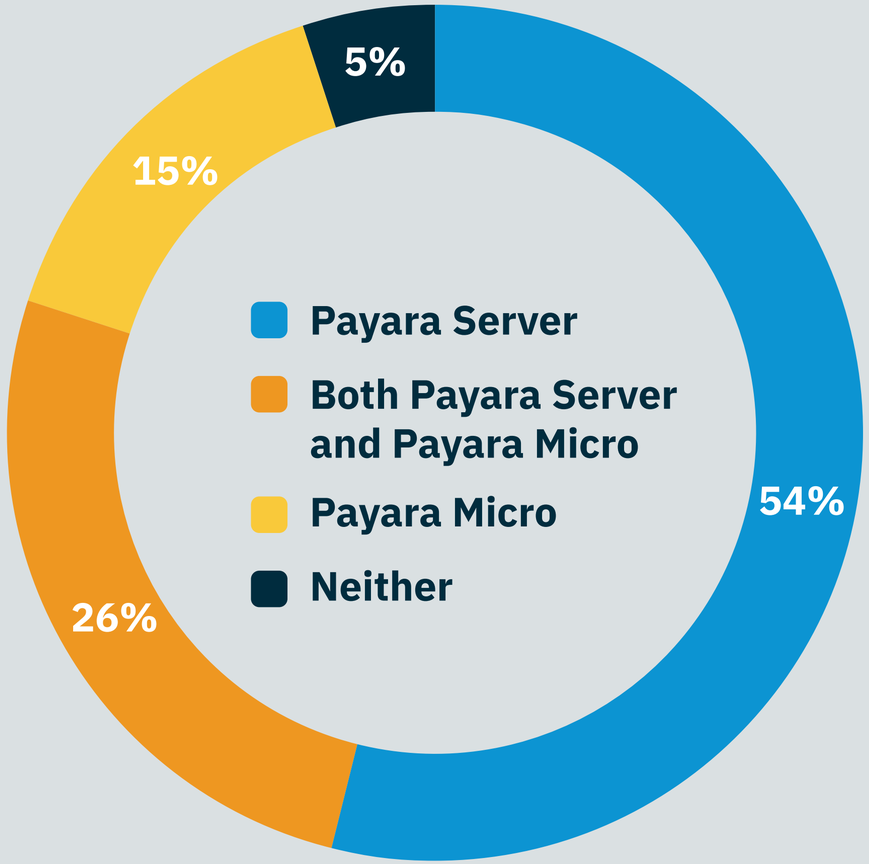
Survey Objective

The objective of this survey was to enable the Payara Platform user community to voice their opinion of the products and services offered by Payara, inform Payara of potential problems and areas of improvement, and to vote on whether or not they'd like to see specific features added to the Payara Platform.

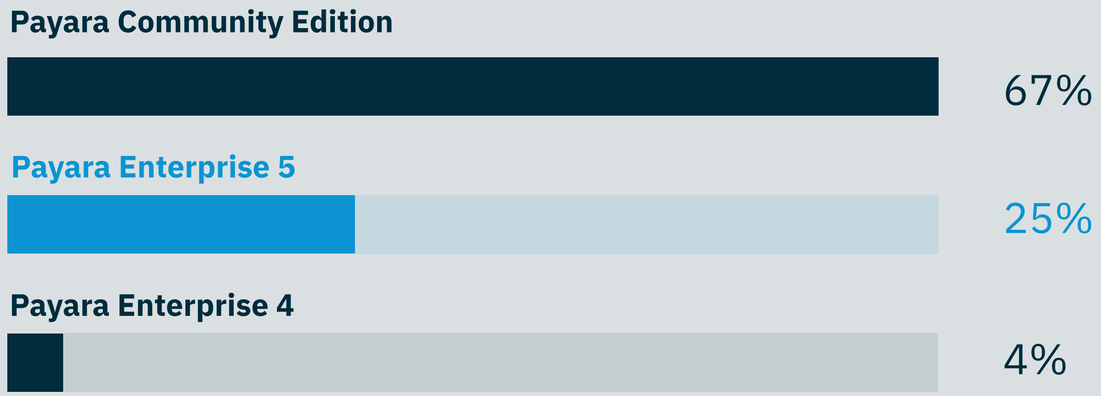
The survey was heavily promoted between February and March 2021 to Payara Enterprise customers and Payara Community users via social media, emails, and blogs.



Do you use Payara Micro or Payara Server?

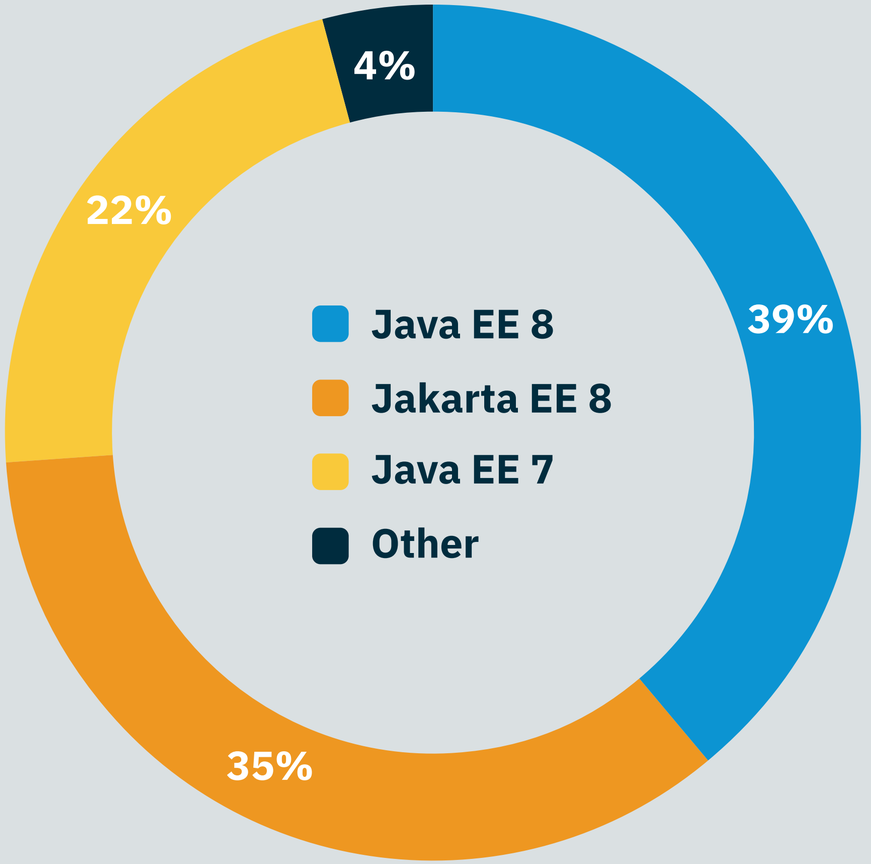


Community Edition or Enterprise Edition?

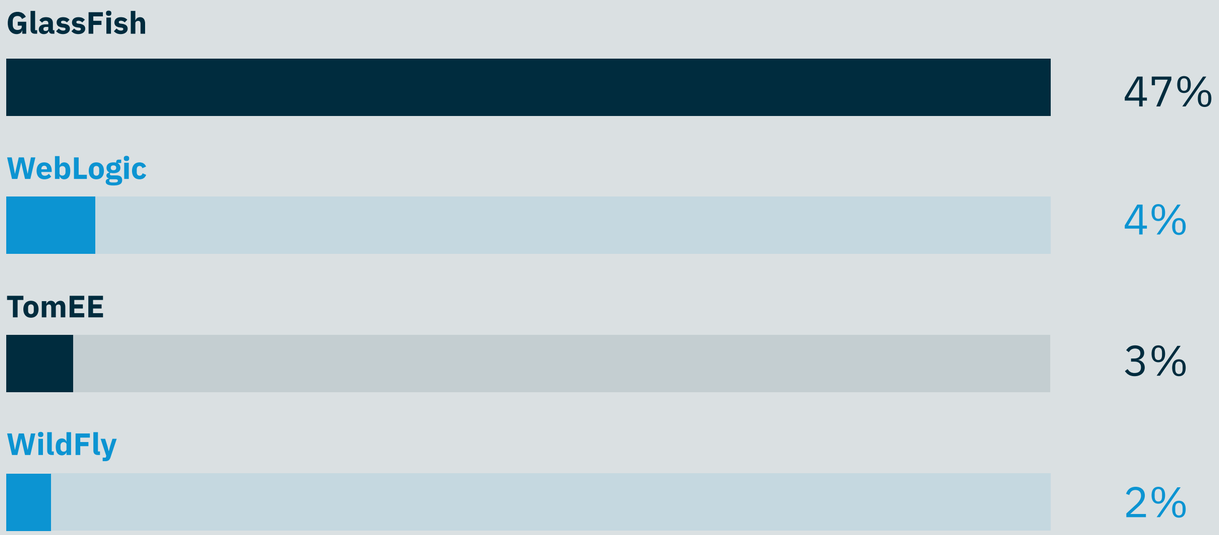


Which Version(s) of Java EE or Jakarta EE Are Your Payara Platform Applications Using?

Jakarta EE 8 only shipped in September of 2019 and almost as many Payara Platform users are already using it (**35%**) as compared to Java EE 8 (**39%**)



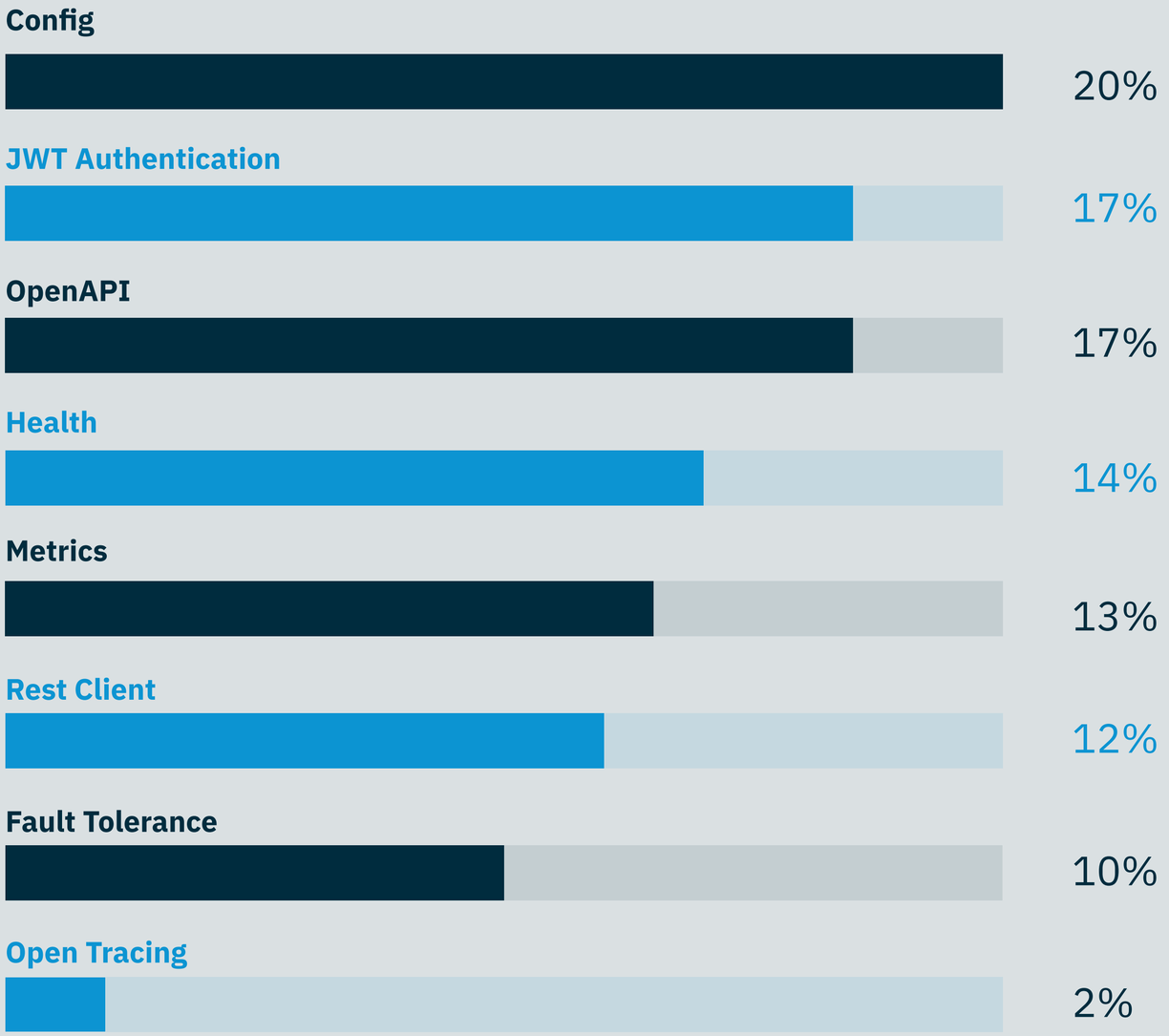
What Application Servers did Payara Platform Users Migrate From?



61% of Payara Platform users migrated from another application server:

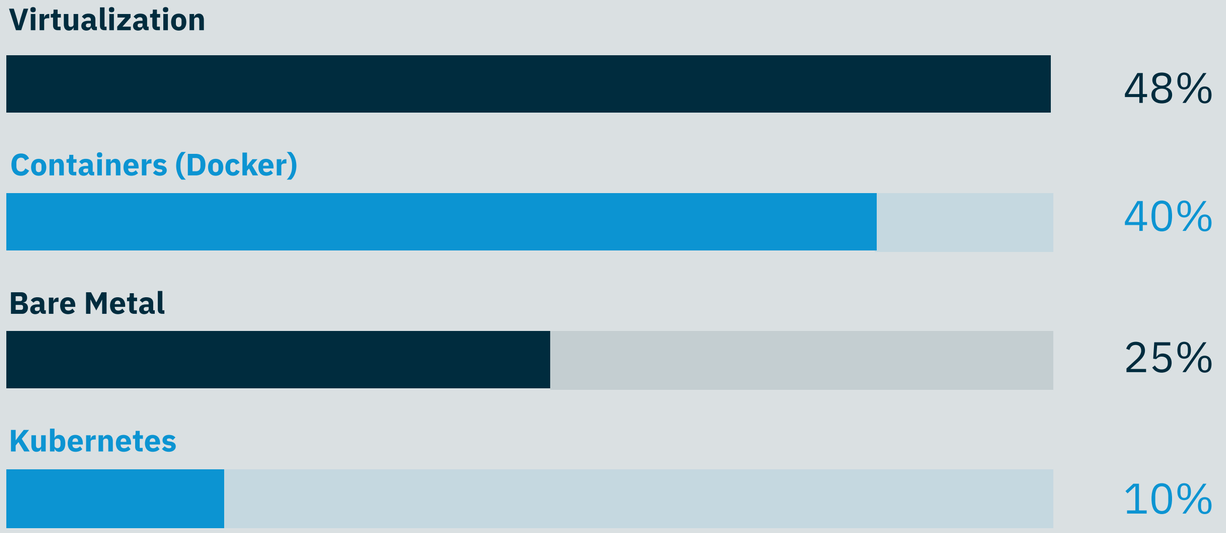
MicroProfile APIs Most Used by Payara Platform Users

36% use MicroProfile APIs in Payara Platform – exactly the same number reported in our 2019 survey.

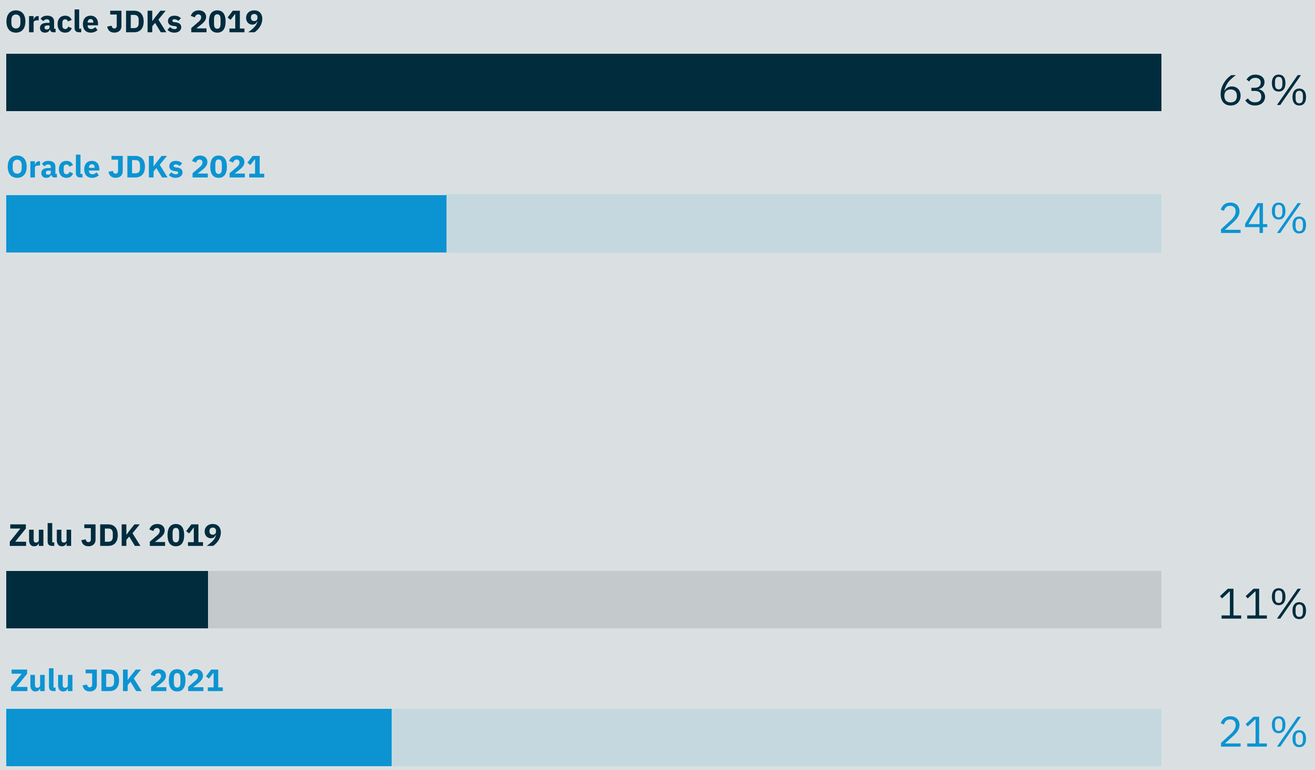


Infrastructure Technologies Users Deploy Payara Platform with:

The use of Docker with Payara Platform (**40%**) has increased from **32%** using Docker with Payara in 2019.

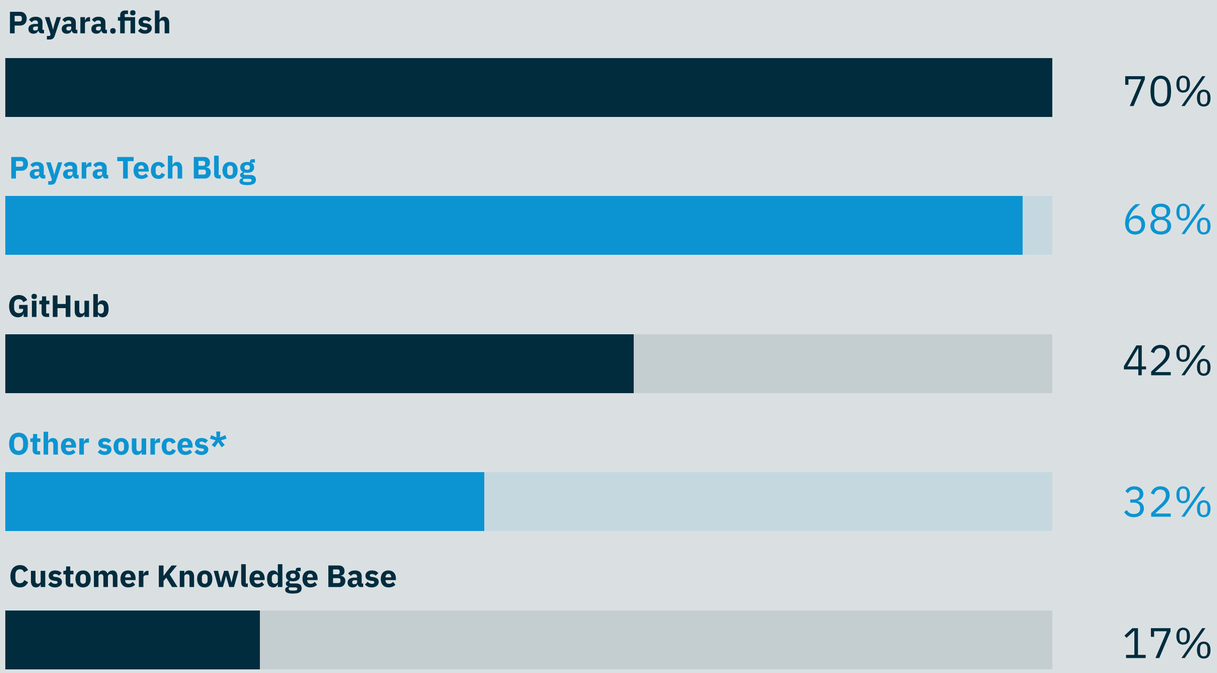


JDK Use with the Payara Platform



The use of Oracle JDKs are down from **63%** in 2019 to **24%** in 2021, while the use of Zulu JDK with Payara increased from **11%** in 2019 to **21%** in 2021.

Where Do People Find Information and Resources about Using Payara Platform?



78% of Payara users reported it may take a while to find resources and documentation they need, but they usually find it and **16%** always find everything they need easily.

The Payara team is currently working on improving documentation, including the content and making it easier to find.

*including StackOverflow, Google Forum, GlassFish documentation

Most Wished for Features

(Percentage of people who said they would use the following features)

Infrastructure as Code: Java API to generate Asadmin CLI tool command scripts, Docker files and Kubernetes yaml files specific for Payara products.

Grafana Dashboards: A predefined Grafana Dashboard template to visualise Payara Platform Monitoring data.

Platform Modularity: Ability to define which subsystem of the runtime are started and available for the application(s).

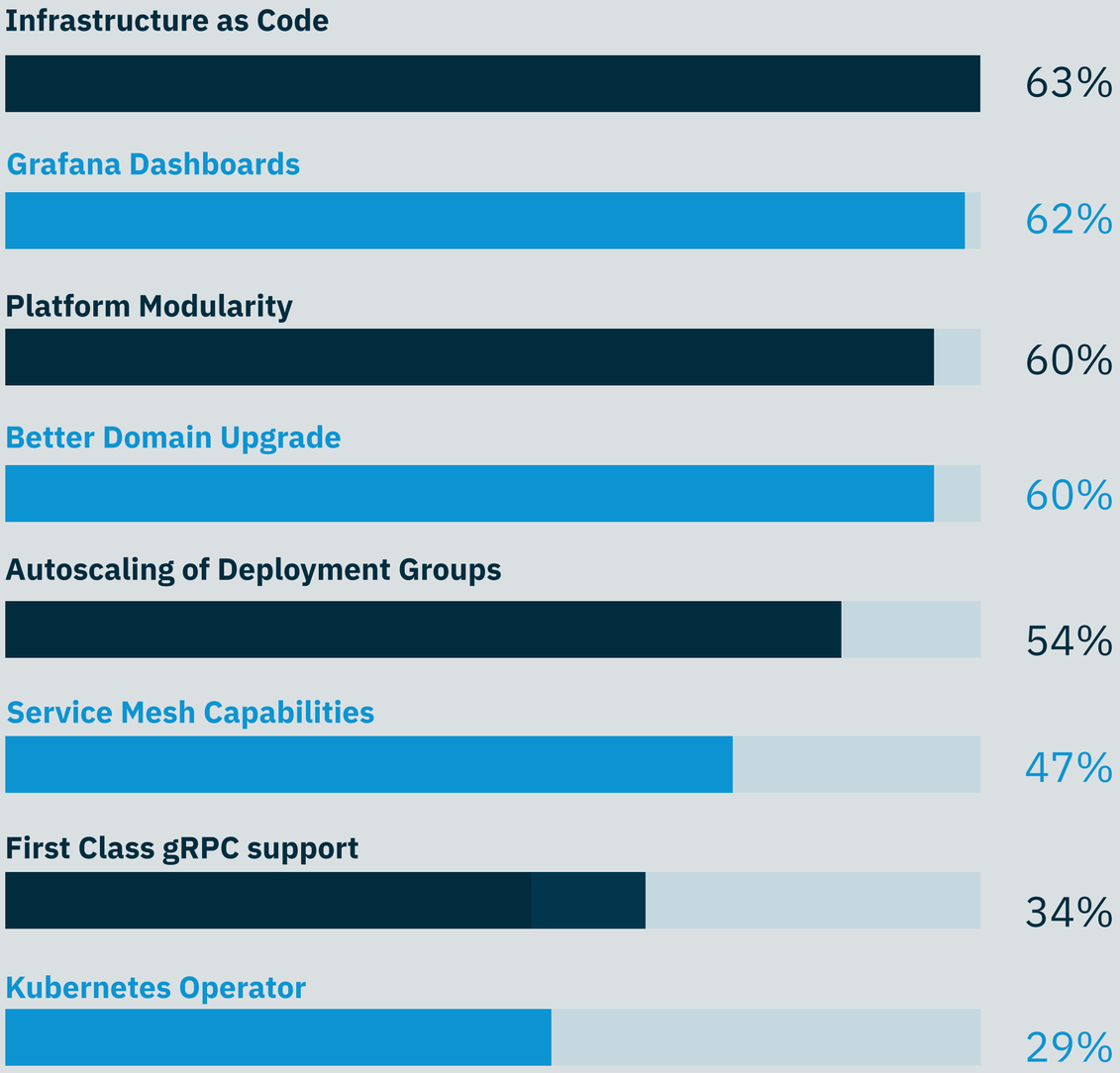
Better Domain Upgrade: Command line tooling for upgrading a domain in place.

Autoscaling of Deployment Groups: Enable the DAS to scale up or down the number of server instances in a deployment group based on user defined rules (e.g. number of requests per second).

Service Mesh Capabilities: Enable different REST applications deployed to the domain to make remote REST calls using a service name rather than URL, and provide client side load-balancing and fail over.

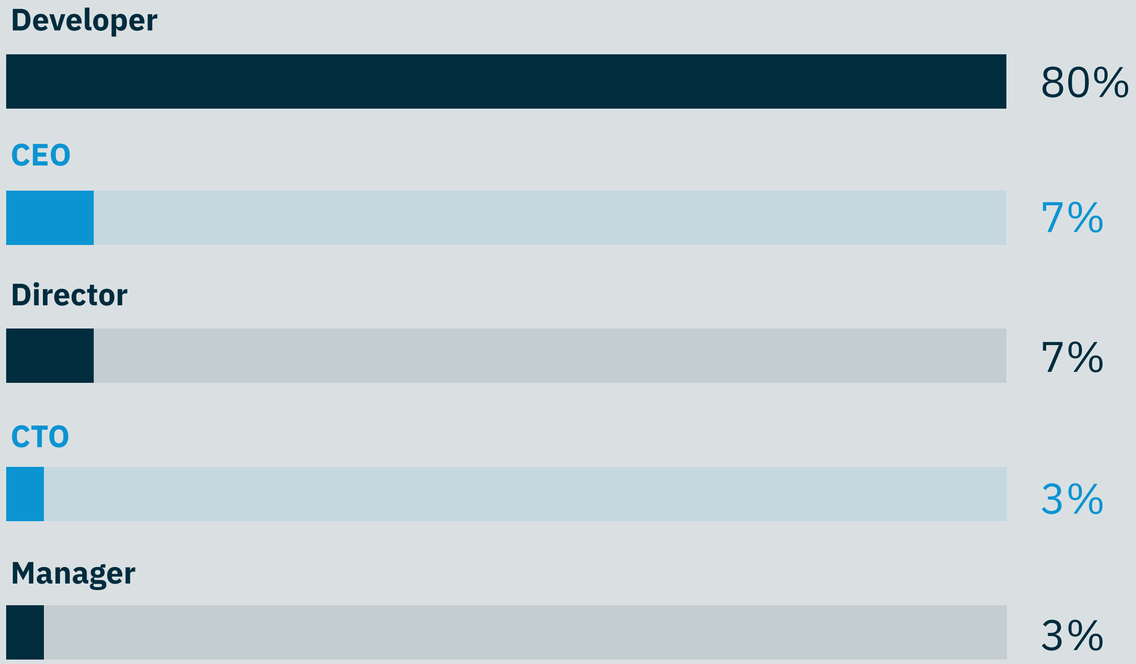
First Class gRPC support: Enable gRPC services to be deployed to a Payara Server and fully integrate with other Jakarta EE components

Kubernetes Operator: A Kubernetes operator to administer a Payara domain installed on a Kubernetes cluster.



Survey Participants Demographics

Job Roles



Industries

- 30% Software
- 15% Financial Services
- 15% IT Consultancy
- 9% Education
- 6% Retail & Consumer Services
- 4% Energy & Utility
- 4% Government
- 4% Manufacturing
- 3% Media
- 1% Gaming
- 1% Recruitment
- 1% Science/ Research
- 1% Telecomms
- 1% Tourism
- 5% Other