

Enterprise Grid[®] Report for Application Server | Fall 2022



Application Server Software

Contenders									Leaders
Niche									High Performers

Satisfaction

Market Presence

G2 Grid[®] Scoring

(Application Server Software continues on next page)

Application Server Software (continued)

Application Server Software Definition

Application servers provide a framework to build and deploy web applications and offer a variety of services when running such applications. These services include security, transactions, clustering for increased performance, and diagnostic capabilities, among others. These products can also include servers that strictly host web applications. Application servers are used by software developers who are trying to quickly build applications and have them supported by the server environment in which they are deployed. These products allow developers to focus on the application itself and spend less time focusing on outside issues, such as performance or security. Application servers can run in conjunction with relational databases and a variety of web frameworks.

To qualify for inclusion in the Application Server category, a product must:

- ▶ Provide a software framework for building and deploying web applications
- ▶ Offer services to support an application within the hosting server environment

Enterprise Application Server Grid® Scoring Description

Products shown on the Enterprise Grid® for Application Server have received a minimum of 10 reviews/ratings in data gathered by August 30, 2022. Products are ranked by customer satisfaction (based on user reviews) and market presence (based on market share, seller size, and social impact) and placed into four categories on the Grid®:

- ▶ Products in the Leader quadrant are rated highly by G2 users and have substantial Market Presence scores. Leaders include: [IBM WebSphere Hybrid Edition \(Application Server & Liberty\)](#)
- ▶ High Performing products have high customer Satisfaction scores and low Market Presence compared to the rest of the category. High Performers include: [Apache Tomcat](#), [Parallels Remote Application Server \(RAS\)](#), and [Progress OpenEdge](#)
- ▶ Contender products have relatively low customer Satisfaction scores and high Market Presence compared to the rest of the category. While they may have positive reviews, they do not have enough reviews to validate those ratings. Contenders include: [Oracle WebLogic](#)
- ▶ Niche products have relatively low Satisfaction scores and low Market Presence compared to the rest of the category. While they may have positive reviews, they do not have enough reviews to validate those ratings. Niche products include: [IIS 7.5](#), [Apache Server](#), and [Red Hat JBoss Enterprise Application Platform](#)



Grid® Scores for Enterprise Application Server Software

The table below shows the Satisfaction and Market Presence scores that determine product placement on the Enterprise Grid®. To learn more about each of the products, please see the profile section.

Leaders

	# of Reviews	Satisfaction	Market Presence	G2 Score
IBM WebSphere Hybrid Edition (Application Server & Liberty)	82	91	91	91

High Performers

Tomcat	45	92	50	71
Parallels RAS	19	55	31	43
Progress OpenEdge	14	55	8	31

Contenders

Oracle WebLogic	42	49	81	65
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Niche

IIS 7.5	20	49	50	49
Apache	29	23	29	26
Red Hat JBoss	11	20	13	17

* Products are ordered by G2 Score. Satisfaction score is used as a tiebreaker if two products have the same G2 Score.



Grid® Methodology

Grid® Rating Methodology

The Grid® represents the democratic voice of real software users, rather than the subjective opinion of one analyst. G2 rates products from the Application Server category algorithmically based on data sourced from product reviews shared by G2 users and data aggregated from online sources and social networks.

Technology buyers can use the Grid® to help them quickly select the best products for their businesses and to find peers with similar experiences. For sellers, media, investors, and analysts, the Grid® provides benchmarks for product comparison and market trend analysis.

Segmented Grid® Scoring Methodology

When viewing a Grid® by segment size, the same Grid® scoring methodology applies. However, the review data used is only from reviewers who are employed by a company within a particular company segment.

G2 uses the following definitions for company segments:

- ▶ Small-Business Review: A review from someone who works at a company with 50 or fewer employees
- ▶ Mid-Market Review: A review from someone who works at a company with 51-1,000 employees
- ▶ Enterprise Review: A review from someone who works at a company with 1,001+ employees

Grid® Scoring Methodology

G2 rates products and sellers based on reviews gathered from our user community, as well as data aggregated from online sources and social networks. We apply a unique algorithm (v3.0) to this data to calculate the Satisfaction and Market Presence scores in real time. The Enterprise Grid® Report for Application Server | Fall 2022 is based on scores calculated using the G2 algorithm v3.0 from reviews collected through August 30, 2022. To view the Application Server Grid® with the most recent data, please visit the [Application Server](#) page.

Satisfaction

The Satisfaction rating is affected by the following (in order of importance):

- ▶ Customer satisfaction with end user-focused product attributes based on user reviews
- ▶ Popularity and statistical significance based on the number of reviews received by G2
- ▶ Quality of reviews received (reviews that are more thoroughly completed will be weighted more heavily)
- ▶ Age of reviews (more-recent reviews provide relevant and up-to-date information that is reflective of the current state of a product)
- ▶ Customers' satisfaction with administration-specific product attributes based on user reviews
- ▶ Overall customer satisfaction and Net Promoter Score® (NPS) based on ratings by G2 users

Note: The customer satisfaction score is normalized for each Grid®, meaning the scores are relative.

(Grid® Methodology continues on next page)

** Net Promoter, Net Promoter System, Net Promoter Score, NPS and the NPS-related emoticons are registered trademarks of Bain & Company, Inc., Fred Reichheld and Satmetrix Systems, Inc.

Grid® Methodology (continued)

Market Presence

The Market Presence score is affected by the following (in order of importance):

- ▶ Market presence is a combination of 15 metrics from G2’s reviews, publicly available information, and third-party sources
- ▶ Both the software sellers and the individual products are measured on various criteria. The criteria are listed in order of importance. Products metric receive greater weight than seller metrics

Criteria	Measured For		Metrics
	Product	Seller	
Number of Employees	✓	✓	Employee Count (based on social networks and public sources)
Reviews	✓		Review Count (weighted by recency)
Web Presence	✓	✓	
Social Presence	✓	✓	
Growth	✓	✓	Employee Growth, Web Presence Growth
Seller Age		✓	
Employee Satisfaction and Engagement		✓	

- ▶ Each input is normalized by category and segment. This means that scores are relative to other products in the category/segment and may change from segment to segment
- ▶ The scores are then scaled from 0-100

Grid® Categorization Methodology

Making G2 research relevant and easy for people to use as they evaluate and select business software products is one of our most important goals. In support of that goal, organizing products and software companies in a well-defined structure that makes capturing, evaluating, and displaying reviews and other research in an orderly manner is a critical part of the research process.

To manage the process of categorizing the software products and the related reviews in the G2 community, G2 follows a publicly available [categorization methodology](#). All products appearing on the Grid® have passed through G2’s categorization methodology and meet G2’s category standards.

Many terms that appear regularly across G2 and are used to aid in product categorization warrant a definition to facilitate buyer understanding. These terms may be included within reviews from the G2 community or in executive summaries for products included on the Grid®. A [list of standard definitions](#) is available to G2 users to eliminate confusion and ease the buying process.

(Grid® Methodology continues on next page)



Grid® Methodology (continued)

Rating Changes and Dynamics

The ratings in this report are based on a snapshot of the user reviews and social data collected by G2 up through August 30, 2022. The ratings may change as the products are further developed, the sellers grow, and as additional opinions are shared by users. G2 updates the ratings on its website in real time as additional data is received, and this report will be updated as significant data is received. By improving their products and support and/or by having more satisfied customer voices heard, Contenders may become Leaders and Niche sellers may become High Performers.

Trust

Keeping our ratings unbiased is our top priority. We require the use of a LinkedIn account or verified business email address to validate a G2 user's identity and employer. We also validate users by partnering with sellers and organizations to securely authenticate users through select platforms. We do not allow users to review their current or former employers' products, or those of their employers' competitors. Additionally, all reviews are manually checked by our team after our algorithm filters out reviews that don't meet our submission requirements. All reviews must pass our moderation process before they are published.

Our G2 staff does not add any subjective input to the ratings, which are determined algorithmically based on data aggregated from publicly available online sources and social networks. Sellers cannot influence their ratings by spending time or money with us. Only the opinion of real users and data from public sources factor into the ratings.

Grid® Inclusion Criteria

All products in a G2 category that have at least 10 reviews from real users of the product are included on the Grid®. Inviting other users, such as colleagues and peers, to join G2 and share authentic product reviews will accelerate this process.

If a product is not yet listed on G2 and it fits the market definition above, then users are encouraged to [suggest its addition](#) to our [Application Server category](#).

Product Profiles

Product profiles and detailed charts are included for products with 10 or more reviews.



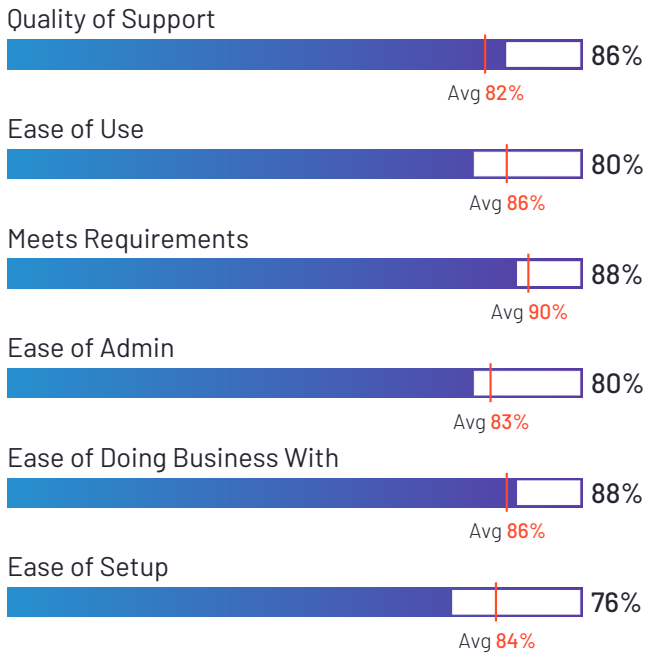
IBM WebSphere Hybrid Edition (Application Server & Liberty)

4.1 ★★★★★ (137)

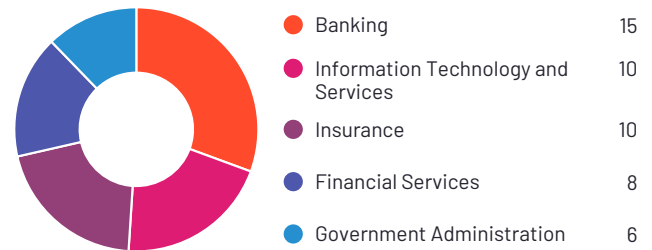


IBM WebSphere Hybrid Edition (Application Server & Liberty) has been named a Leader based on receiving a high customer Satisfaction score and having a large Market Presence. IBM WebSphere Hybrid Edition (Application Server & Liberty) has the largest Market Presence among products in Application Server. 88% of users rated it 4 or 5 stars, 72% of users believe it is headed in the right direction, and users said they would be likely to recommend IBM WebSphere Hybrid Edition (Application Server & Liberty) at a rate of 82%. IBM WebSphere Hybrid Edition (Application Server & Liberty) is also in the Container Engine category.

Satisfaction Ratings



Top Industries Represented



Ownership
IBM



HQ Location
Armonk, NY



Year Founded
1911



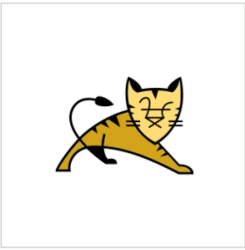
Total Revenue
\$73,621(USD MM)



Employees (Listed On LinkedIn)
531,710



Company Website
www.ibm.com



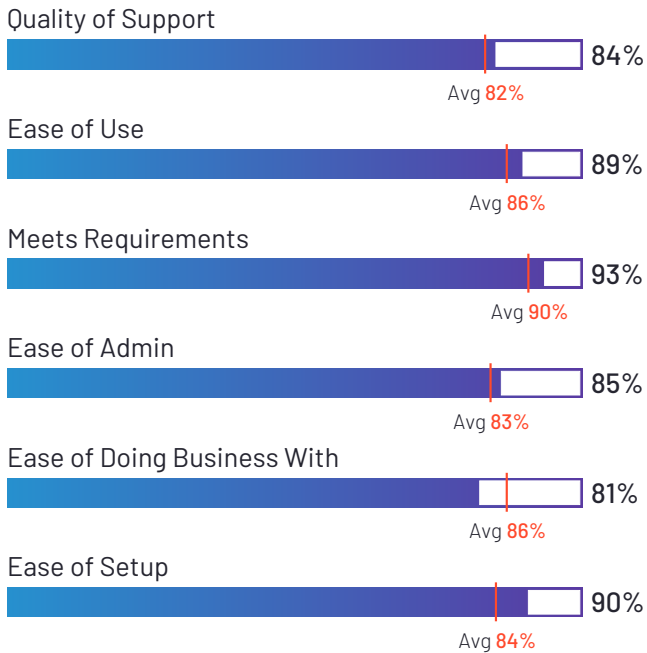
Apache Tomcat

4.4 ★★★★★ (104)

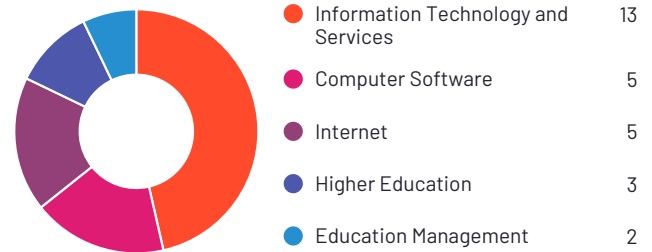


Apache Tomcat has been named a High Performer product based on having high customer Satisfaction scores and a low Market Presence compared to the rest of the category. Tomcat received the highest Satisfaction score among products in Application Server. 98% of users rated it 4 or 5 stars, 89% of users believe it is headed in the right direction, and users said they would be likely to recommend Tomcat at a rate of 91%.

Satisfaction Ratings



Top Industries Represented



Ownership
The Apache Software Foundation



HQ Location
Wakefield, MA



Year Founded
1999



Employees (Listed On LinkedIn)
2,085



Company Website
www.apache.org



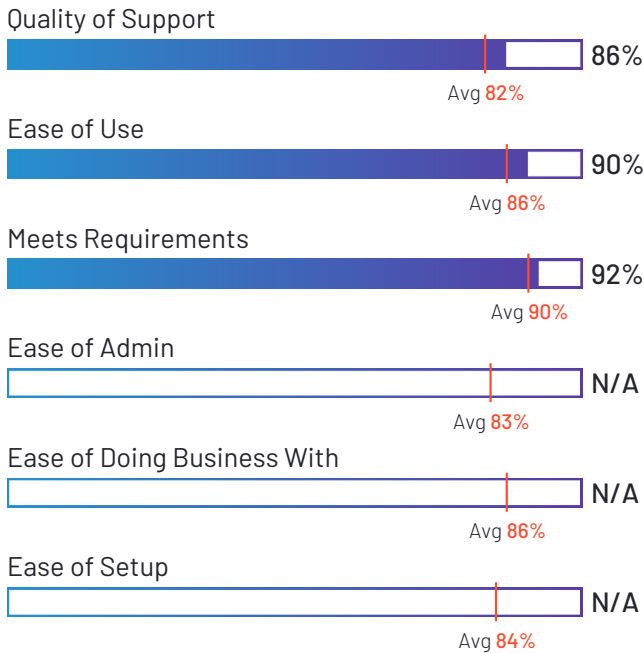
Parallels Remote Application Server (RAS)

4.2 ★★★★★ (67)

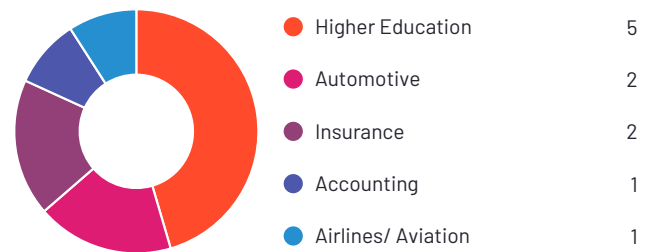


Parallels Remote Application Server (RAS) has been named a High Performer product based on having high customer Satisfaction scores and a low Market Presence compared to the rest of the category. 95% of users rated it 4 or 5 stars, 71% of users believe it is headed in the right direction, and users said they would be likely to recommend Parallels RAS at a rate of 86%.

Satisfaction Ratings



Top Industries Represented



*N/A is displayed when fewer than five responses were received for the question.

 Ownership Corel	 HQ Location Ottawa, Ontario	 Year Founded 1985	 Employees (Listed On LinkedIn) 1,285	 Company Website mindmanager.com
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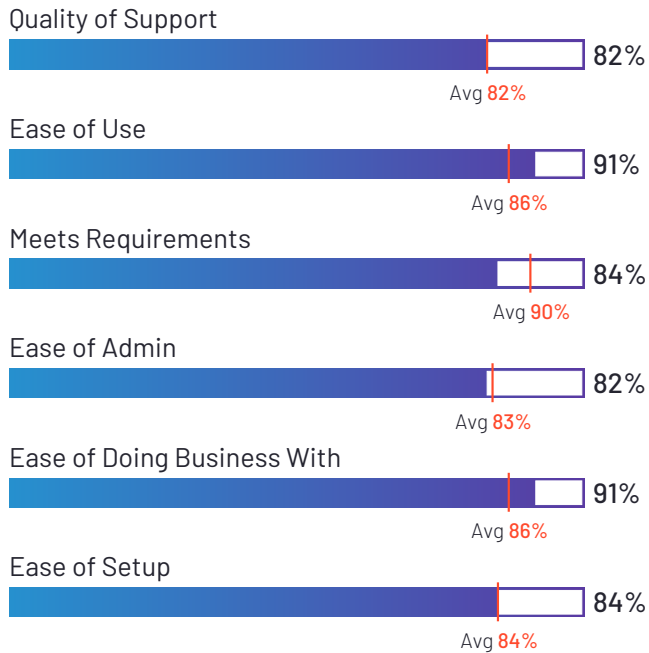
Progress OpenEdge

4.0 ★★★★★ (47)

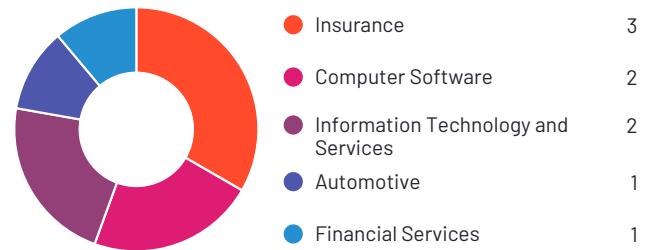


Progress OpenEdge has been named a High Performer product based on having high customer Satisfaction scores and a low Market Presence compared to the rest of the category. 100% of users rated it 4 or 5 stars, 100% of users believe it is headed in the right direction, and users said they would be likely to recommend Progress OpenEdge at a rate of 87%. Progress OpenEdge is also in the Database Monitoring, Enterprise Architecture, Container Orchestration, ALM Software Suites, Continuous Delivery, Low-Code Development Platforms, Continuous Integration, Relational Databases, Requirements Management, and Application Development Platforms categories.

Satisfaction Ratings



Top Industries Represented



Ownership
Progress Software



HQ Location
Burlington, MA.



Year Founded
1981



Total Revenue
\$442 (USD MM)



Employees (Listed On LinkedIn)
3,301



Company Website
progress.com

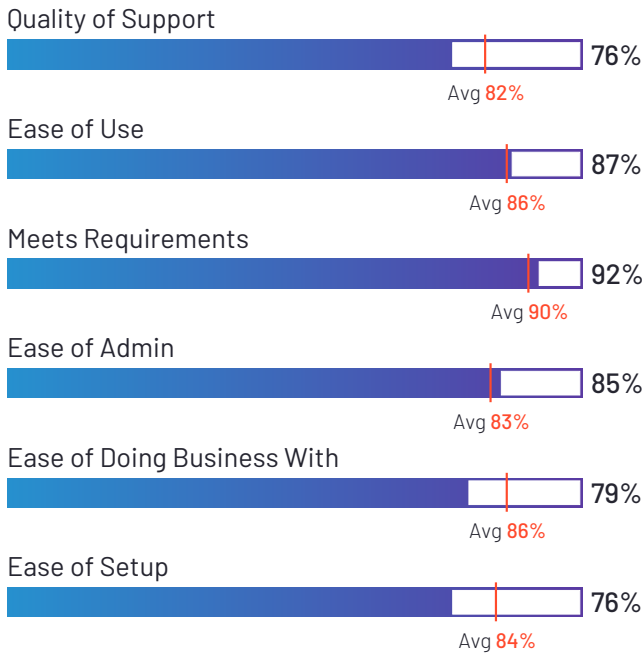


Oracle WebLogic

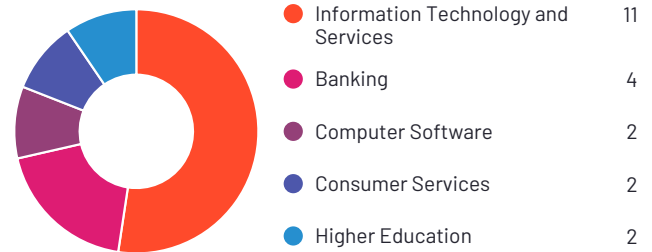
4.2 ★★★★★ (62)

Oracle WebLogic has been named a Contender product based on having a relatively low customer Satisfaction score and large Market Presence compared to the rest of the category. While they may have positive reviews, they do not have enough reviews to validate those ratings. 98% of users rated it 4 or 5 stars, 67% of users believe it is headed in the right direction, and users said they would be likely to recommend Oracle WebLogic at a rate of 85%.

Satisfaction Ratings



Top Industries Represented



Ownership
Oracle



HQ Location
Austin, TX



Year Founded
1977



Total Revenue
\$39,068 (USD MM)



Employees (Listed On LinkedIn)
232,007



Company Website
www.oracle.com

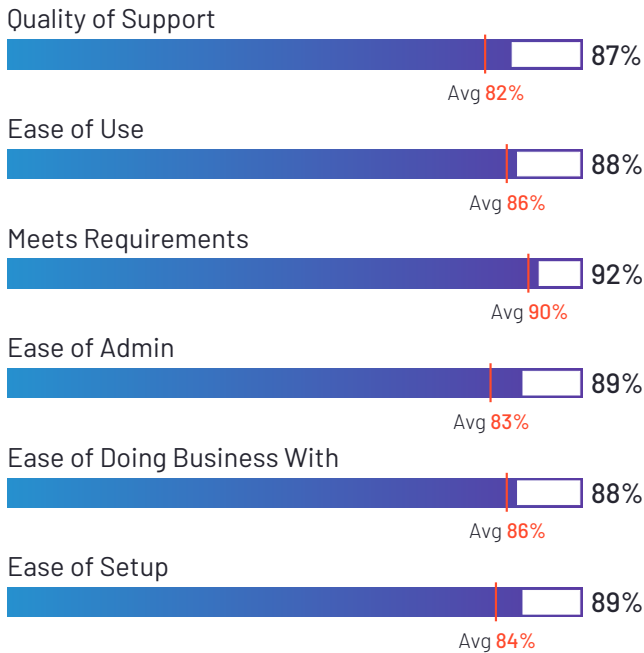


IIS 7.5

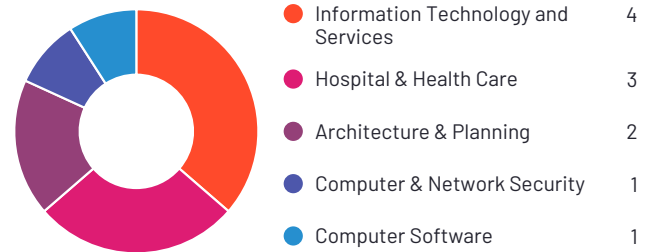
4.2 ★★★★★ (44)

IIS 7.5 has been named a Niche product based on having a relatively low Satisfaction score and low Market Presence compared to the rest of the category. While they may have positive reviews, they do not have enough reviews to validate those ratings. 95% of users rated it 4 or 5 stars, 95% of users believe it is headed in the right direction, and users said they would be likely to recommend IIS 7.5 at a rate of 87%.

Satisfaction Ratings



Top Industries Represented



Ownership
Microsoft



HQ Location
Redmond, WA



Year Founded
1975



Total Revenue
\$143,015 (USD MM)



Employees (Listed On LinkedIn)
223,768



Company Website
microsoft.com

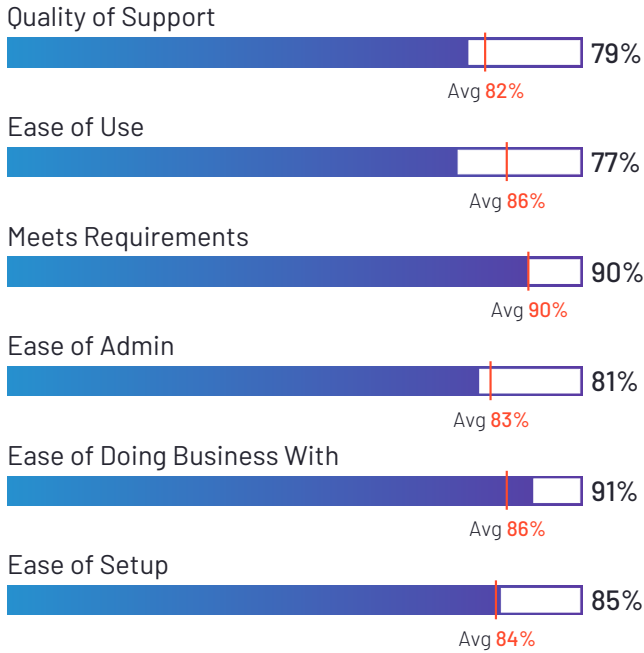


Apache Server

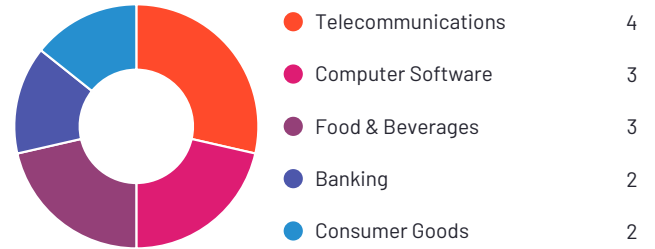
4.2 ★★★★★ (124)

Apache Server has been named a Niche product based on having a relatively low Satisfaction score and low Market Presence compared to the rest of the category. While they may have positive reviews, they do not have enough reviews to validate those ratings. 93% of users rated it 4 or 5 stars, 82% of users believe it is headed in the right direction, and users said they would be likely to recommend Apache at a rate of 86%.

Satisfaction Ratings



Top Industries Represented



Ownership
The Apache Software Foundation



HQ Location
Wakefield, MA



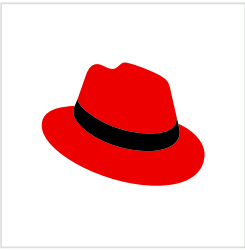
Year Founded
1999



Employees (Listed On LinkedIn)
2,085



Company Website
www.apache.org

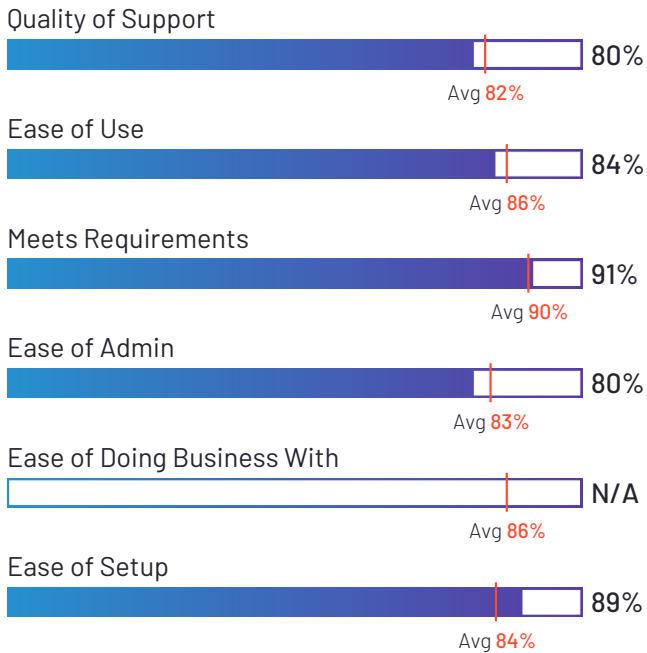


Red Hat JBoss Enterprise Application Platform

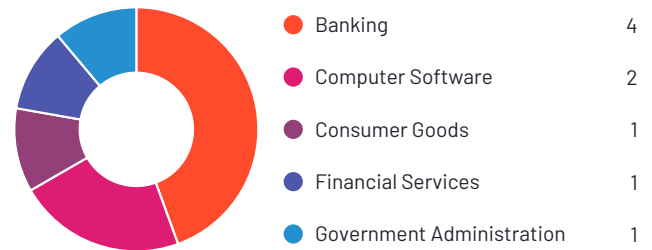
4.1 ★★★★★☆ (21)

Red Hat JBoss Enterprise Application Platform has been named a Niche product based on having a relatively low Satisfaction score and low Market Presence compared to the rest of the category. While they may have positive reviews, they do not have enough reviews to validate those ratings. 91% of users rated it 4 or 5 stars, 89% of users believe it is headed in the right direction, and users said they would be likely to recommend Red Hat JBoss at a rate of 79%.

Satisfaction Ratings



Top Industries Represented



*N/A is displayed when fewer than five responses were received for the question.



Ownership
Red Hat



HQ Location
Raleigh, NC



Year Founded
1993



Employees (Listed On LinkedIn)
19,459



Company Website
www.redhat.com

Satisfaction Ratings for Application Server

G2 reviewers rated software sellers' ability to satisfy their needs as shown in the table below.

	Satisfaction		Satisfaction by Category						Net Promoter Score (NPS)
	Likelihood to Recommend	Product Going in Right Direction?	Meets Requirements	Ease of Admin	Ease of Doing Business With	Quality of Support	Ease of Setup	Ease of Use	Net Promoter Score (NPS) (Range from -100 to +100)
IBM WebSphere Hybrid Edition (Application Server & Liberty)	82%	72%	88%	80%	88%	86%	76%	80%	40
Tomcat	91%	89%	93%	85%	81%	84%	90%	89%	77
Parallels RAS	86%	71%	92%	N/A	N/A	86%	N/A	90%	47
Progress OpenEdge	87%	100%	84%	82%	91%	82%	84%	91%	64
Oracle WebLogic	85%	67%	92%	85%	79%	76%	76%	87%	50
IIS 7.5	87%	95%	92%	89%	88%	87%	89%	88%	50
Apache	86%	82%	90%	81%	91%	79%	85%	77%	44
Red Hat JBoss	79%	89%	91%	80%	N/A	80%	89%	84%	9
Average	85%	83%	90%	83%	86%	82%	84%	86%	48

*N/A is displayed when fewer than five responses were received for the question.

**Net Promoter Score ranges from -100 to +100

Additional Data for Application Server

The table below highlights implementation and deployment data as indicated in real user reviews on G2.

Implementation

	Deployment		Implementation Time	Implementation Method				Number of Users Purchased	Contract Term
	Cloud	On-Premises	Avg. Months to Go Live	In-House Team	Seller Services Team	Third-Party Consultant	Don't know	Median Number of Users Bought	Avg. Contract Term (Months)
IBM WebSphere Hybrid Edition (Application Server & Liberty)	9%	91%	6.0	92%	8%	0%	0%	1750	23
Tomcat	46%	54%	2.9	100%	0%	0%	0%	175	0
Parallels RAS	0%	100%	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Progress OpenEdge	17%	83%	N/A	50%	33%	0%	17%	N/A	N/A
Oracle WebLogic	20%	80%	4.9	100%	0%	0%	0%	750	28
IIS 7.5	46%	54%	2.4	92%	0%	8%	0%	5625	5
Apache	20%	80%	0.7	91%	9%	0%	0%	N/A	N/A
Red Hat JBoss	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(Additional Data for Application Server continues on next page)

*N/A is displayed when data is not publicly available.

Additional Data for Application Server (continued)

The table below highlights the average user adoption of each product as indicated in real user reviews on G2.

User Adoption and Return on Investment (ROI)

	User Adoption	Payback Period
	Average User Adoption	Estimated ROI (payback period in months)
IBM WebSphere Hybrid Edition (Application Server & Liberty)	69%	17
Tomcat	82%	8
Parallels RAS	N/A	N/A
Progress OpenEdge	N/A	N/A
Oracle WebLogic	81%	33
IIS 7.5	82%	14
Apache	86%	N/A
Red Hat JBoss	N/A	N/A
Average	80%	18

(Additional Data for Application Server continues on next page)

*N/A is displayed when data is not publicly available.

Additional Data for Application Server (continued)

The table below highlights third-party market presence data used to inform the G2's Market Presence Score that highlights each product's impact and influence in the category.

Market Presence

	Seller Name	Year Founded	Revenue (\$MM)	Employees on LinkedIn (Seller)	LinkedIn Followers	Twitter Followers (Seller)	Glassdoor Rating
IBM WebSphere Hybrid Edition (Application Server & Liberty)	IBM	1911	\$73,621	531,710	14,296,858	696,414	4.1
Tomcat	The Apache Software Foundation	1999	N/A	2,085	60,743	65,055	2.6
Parallels RAS	Corel	1985	N/A	1,285	13,163	18,435	4.2
Progress OpenEdge	Progress Software	1981	\$442	3,301	48,343	52,288	4.2
Oracle WebLogic	Oracle	1977	\$39,068	232,007	8,289,272	812,675	3.9
IIS 7.5	Microsoft	1975	\$143,015	223,768	17,587,038	11,472,744	4.4
Apache	The Apache Software Foundation	1999	N/A	2,085	60,743	65,055	2.6
Red Hat JBoss	Red Hat	1993	N/A	19,459	1,096,148	250,005	4.4

*N/A is displayed when data is not publicly available.