

Grid[®] Report for Container Engine

Fall 2022



Container Engine Software

Contenders									Leaders
Niche									High Performers

Satisfaction

Market Presence

G2 Grid[®] Scoring

(Container Engine Software continues on next page)

Container Engine Software (continued)

Container Engine Software Definition

Container engines, often referred to as operating-system-level virtualization, are operating systems in which the kernel allows the existence of multiple isolated instances. Each instance is referred to as a container, virtualization engine, or jail. Developers use these to create secure, virtual hosting environments with isolated resources. Developers can also separate applications, programs, or segments of code for increased security. These tools reduce overhead for companies and simplify migration processes. Containers can also be used to store applications in a securely hosted environment to increase space, efficiency, and organization. Software solutions such as [container management software](#), [container orchestration software](#), [container networking software](#), [container monitoring software](#), and [service discovery software](#) combine to create a microservice ecosystem.

To qualify for inclusion in the Container Engines category, a product must:

- ▶ Virtualize operating systems in a resource-isolated environment
- ▶ Add a level of abstraction to contained applications
- ▶ Allow administrators experience a virtual dedicated server
- ▶ Allow administrators to determine policies and interpolation

Container Engine Grid® Scoring Description

Products shown on the Grid® for Container Engine 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: [Docker](#), [Oracle Cloud Infrastructure Compute](#), and [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: [Canonical MicroK8s](#), [Sandboxie](#), and [OpenVZ](#)
- ▶ 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.
- ▶ 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: [CoreOS](#), [OCI](#), [runc](#), and [Apache Mesos](#)



Grid® Scores for Container Engine Software

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

Leaders

	# of Reviews	Satisfaction	Market Presence	G2 Score
Docker hub	113	96	94	95
Oracle Cloud Infrastructure Compute	46	77	80	79
IBM WebSphere Hybrid Edition (Application Server & Liberty)	11	69	54	61

High Performers

Canonical MicroK8s	16	72	25	48
Sandboxie	13	66	30	48
OpenVZ	12	57	21	39

Niche

CoreOS	14	31	48	39
OCI	18	46	7	27
runc	11	27	15	21
Mesos	16	10	23	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 Container Engine 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.

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 Grid® Report for Container Engine | Fall 2022 is based on scores calculated using the G2 algorithm v3.0 from reviews collected through August 30, 2022. To view the Container Engine Grid® with the most recent data, please visit the [Container Engine](#) 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.

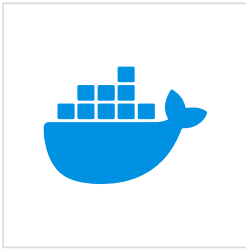
Grid® Inclusion Criteria

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 [Container Engine](#) category.

Product Profiles

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



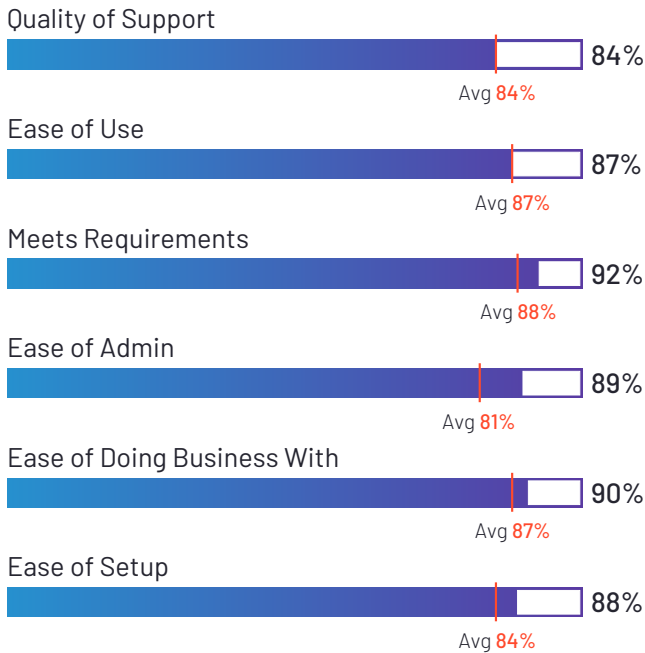
Docker

4.6 ★★★★★ (128)

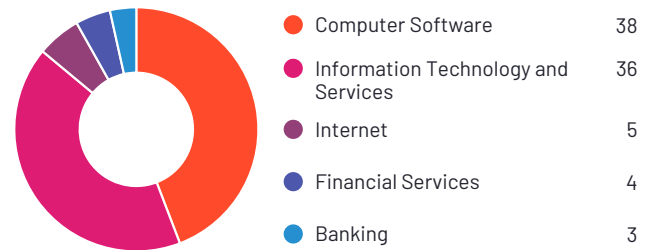


Docker has been named a Leader based on receiving a high customer Satisfaction score and having a large Market Presence. Docker hub has the largest Market Presence and received the highest Satisfaction score among products in Container Engine. 99% of users rated it 4 or 5 stars, 92% of users believe it is headed in the right direction, and users said they would be likely to recommend Docker hub at a rate of 92%. Docker hub is also in the Service Discovery and Container Registry categories.

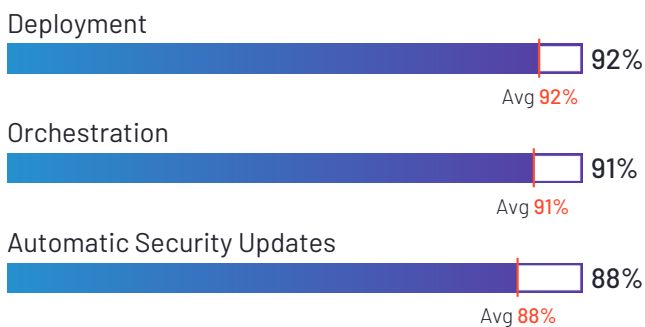
Satisfaction Ratings



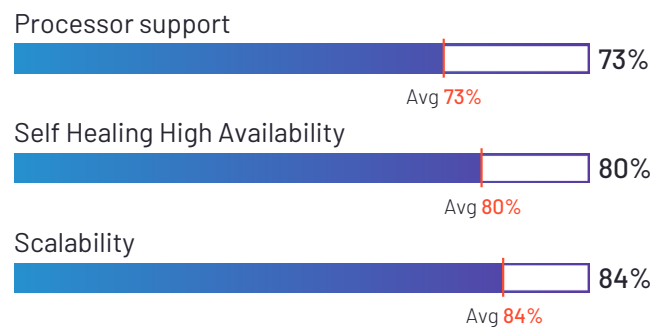
Top Industries Represented



Highest-Rated Features



Lowest-Rated Features



Ownership
Docker, Inc



HQ Location
San Francisco, CA



Year Founded
2013



Employees (Listed On LinkedIn)
503



Company Website
www.docker.com



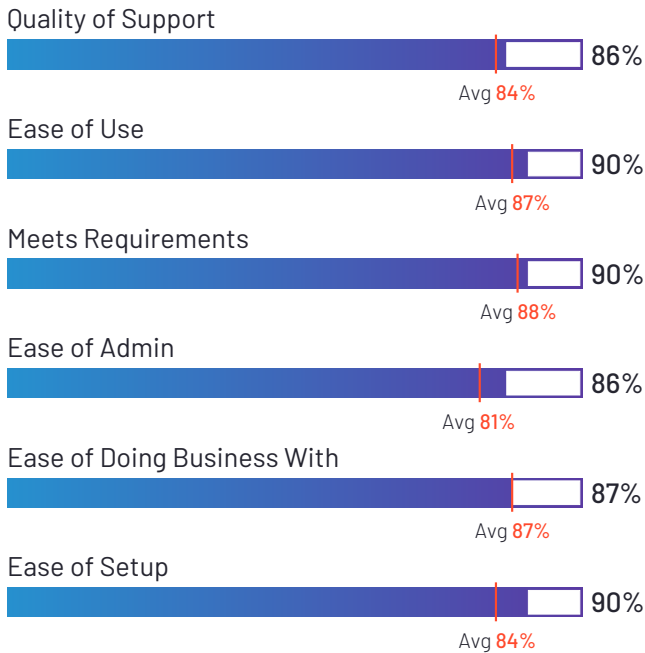
Oracle Cloud Infrastructure Compute

4.2 ★★★★★ (53)

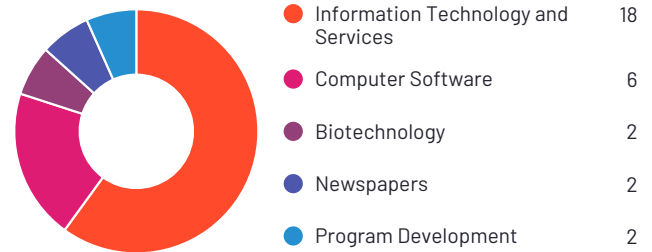


Oracle Cloud Infrastructure Compute has been named a Leader based on receiving a high customer Satisfaction score and having a large Market Presence. 96% of users rated it 4 or 5 stars, 97% of users believe it is headed in the right direction, and users said they would be likely to recommend Oracle Cloud Infrastructure Compute at a rate of 84%.

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



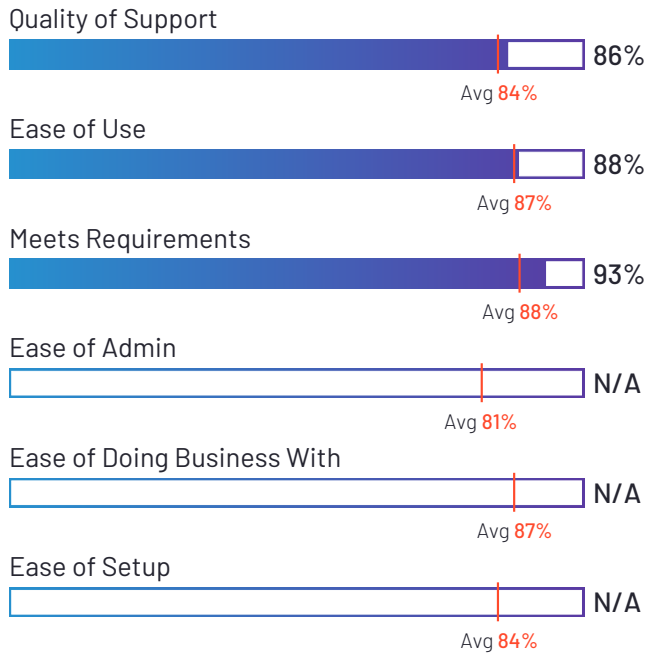
IBM WebSphere Hybrid Edition (Application Server & Liberty)

4.1 ★★★★★ (137)

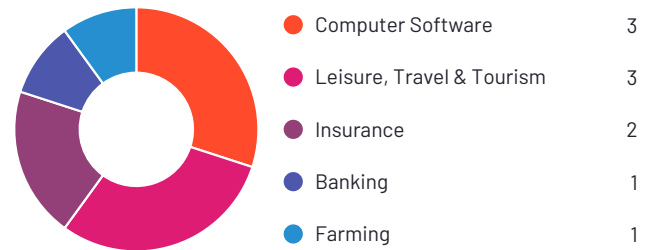


IBM WebSphere Hybrid Edition (Application Server & Liberty) has been named a Leader based on receiving a high customer Satisfaction score and having a large Market Presence. 100% of users rated it 4 or 5 stars, 100% of users believe it is headed in the right direction, and users said they would be likely to recommend IBM WebSphere Hybrid Edition (Application Server & Liberty) at a rate of 94%. IBM WebSphere Hybrid Edition (Application Server & Liberty) is also in the Application Server category.

Satisfaction Ratings



Top Industries Represented



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

<p>Ownership IBM</p>	<p>HQ Location Armonk, NY</p>	<p>Year Founded 1911</p>	<p>Total Revenue \$73,621 (USD MM)</p>	<p>Employees (Listed On LinkedIn) 531,710</p>	<p>Company Website www.ibm.com</p>
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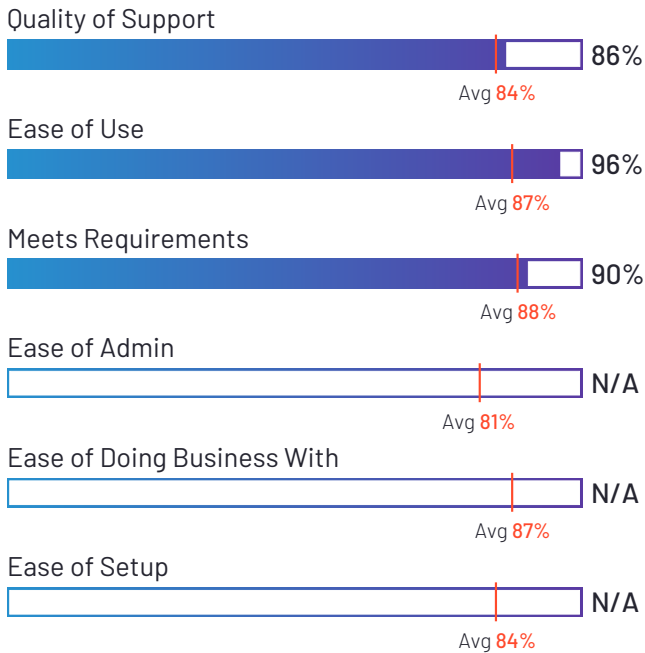
Canonical MicroK8s

4.5 ★★★★★ (16)

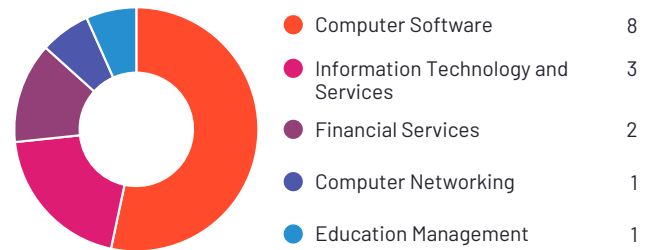


Canonical MicroK8s has been named a High Performer product based on having high customer Satisfaction scores and a low Market Presence compared to the rest of the category. 100% of users rated it 4 or 5 stars, 100% of users believe it is headed in the right direction, and users said they would be likely to recommend Canonical MicroK8s at a rate of 89%.

Satisfaction Ratings



Top Industries Represented



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



Ownership
Canonical Ltd.



HQ Location
London, United Kingdom



Year Founded
2004



Employees (Listed On LinkedIn)
1,052



Company Website
canonical.com



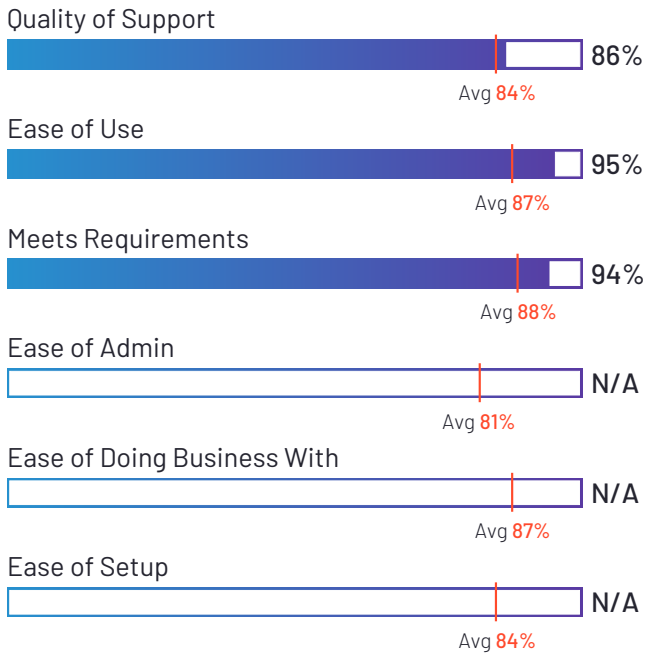
Sandboxie

4.6 ★★★★★ (13)

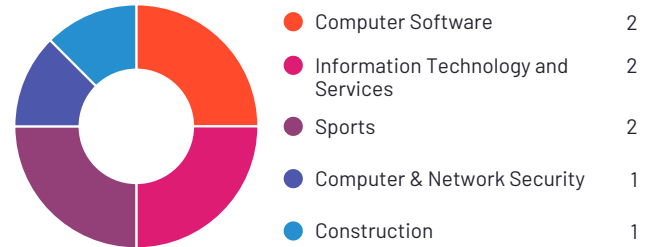


Sandboxie has been named a High Performer product based on having high customer Satisfaction scores and a low Market Presence compared to the rest of the category. 92% of users rated it 4 or 5 stars, 82% of users believe it is headed in the right direction, and users said they would be likely to recommend Sandboxie at a rate of 92%.

Satisfaction Ratings



Top Industries Represented



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



Ownership
Sandboxie



HQ Location
Boston, MA



Year Founded
2014



Employees (Listed On LinkedIn)
27



Company Website
sandboxie.com



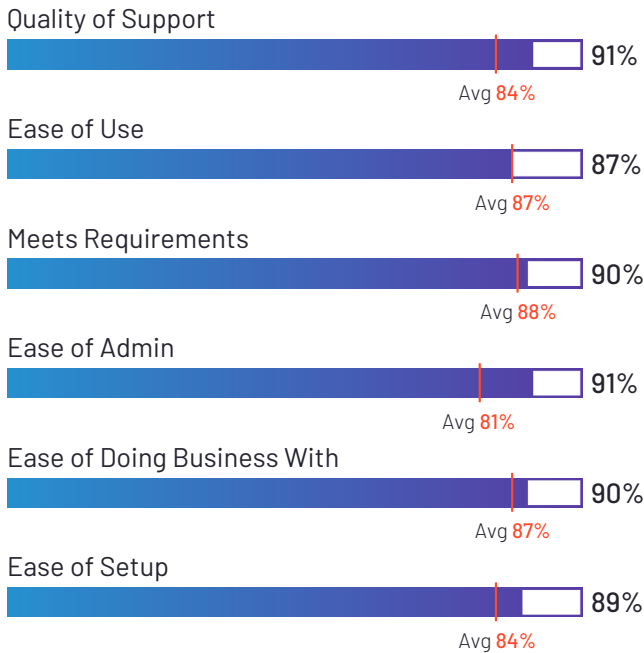
OpenVZ

4.2 ★★★★★ (23)

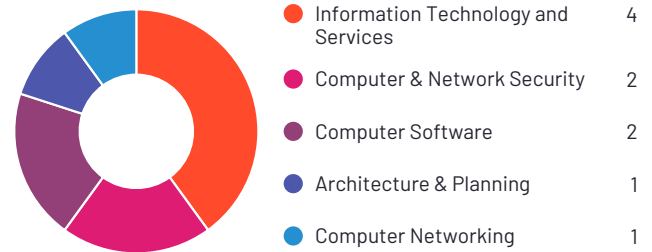


OpenVZ has been named a High Performer product based on having high customer Satisfaction scores and a low Market Presence compared to the rest of the category. 92% of users rated it 4 or 5 stars, 86% of users believe it is headed in the right direction, and users said they would be likely to recommend OpenVZ at a rate of 91%. OpenVZ is also in the Server Virtualization category.

Satisfaction Ratings



Top Industries Represented



Ownership
Virtuozzo



HQ Location
Seattle, WA



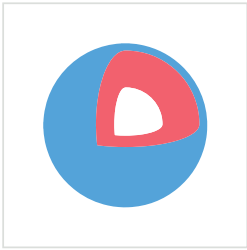
Year Founded
2015



Employees (Listed On LinkedIn)
193



Company Website
virtuozzo.com

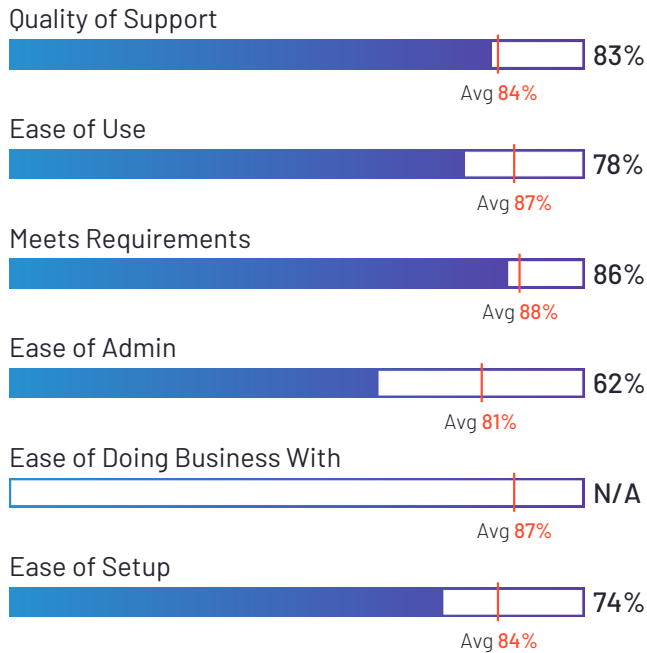


CoreOS

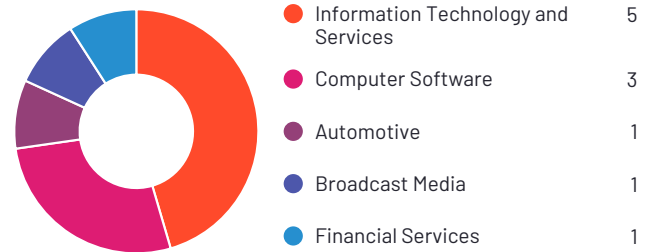
4.3 ★★★★★ (19)

CoreOS 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, 75% of users believe it is headed in the right direction, and users said they would be likely to recommend CoreOS at a rate of 86%. CoreOS is also in the Operating System category.

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



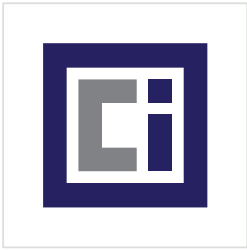
Year Founded
1993



Employees (Listed On LinkedIn)
19,459



Company Website
www.redhat.com

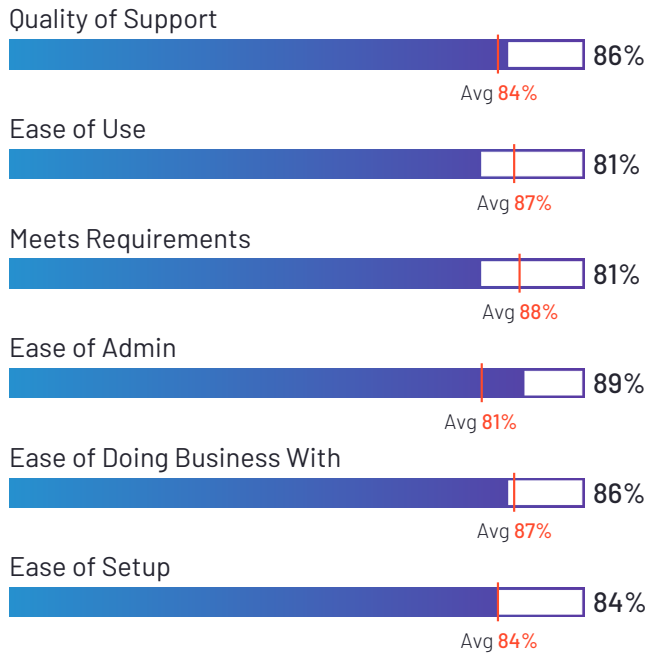


OCI

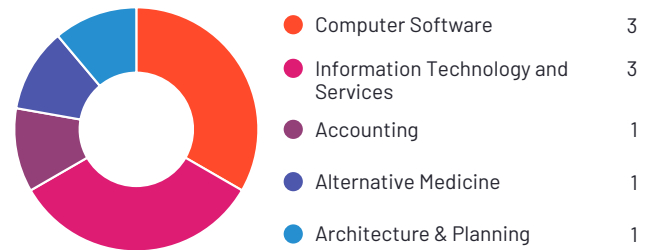
4.2 ★★★★★ (25)

OCI 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. 94% 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 OCI at a rate of 83%.

Satisfaction Ratings



Top Industries Represented



Ownership
OCI



HQ Location
Brooklyn, NY



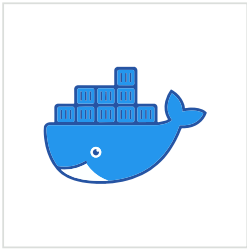
Year Founded
2018



Employees (Listed On LinkedIn)
3



Company Website
opencontainers.org

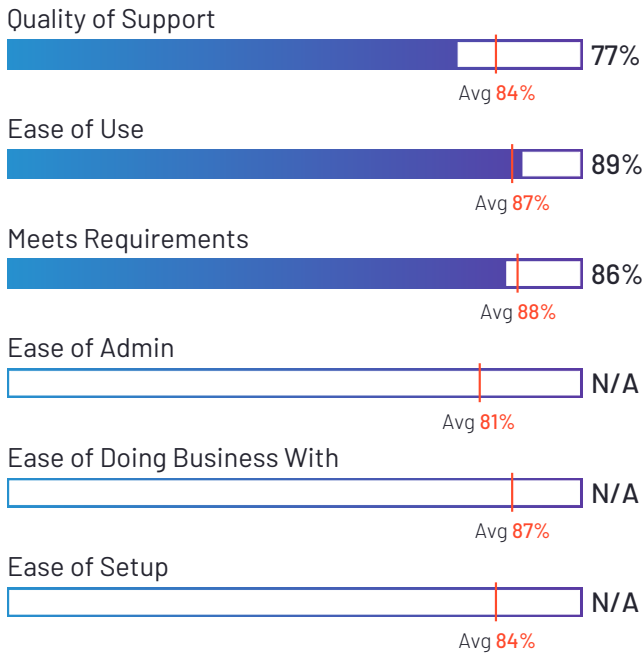


runc

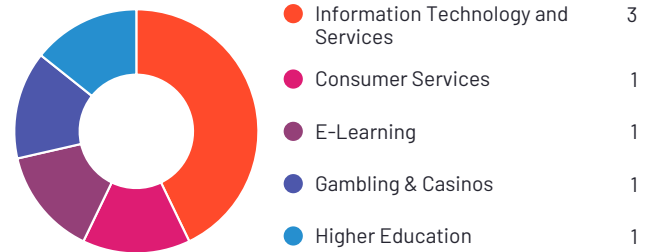
4.2 ★★★★★☆ (11)

runc 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, 70% of users believe it is headed in the right direction, and users said they would be likely to recommend runc at a rate of 85%. runc is also in the Service Discovery category.

Satisfaction Ratings



Top Industries Represented



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



Ownership
Open Container Initiative



HQ Location
San Francisco, CA



Year Founded
2015



Employees (Listed On LinkedIn)
6



Company Website
opencontainers.org

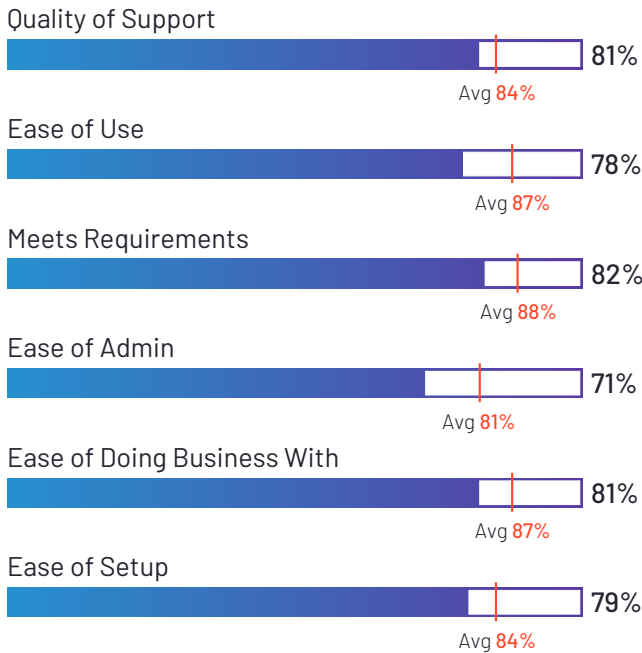


Apache Mesos

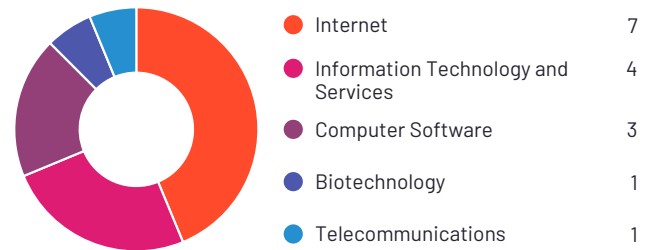
4.2 ★★★★★ (16)

Apache Mesos 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. 100% of users rated it 4 or 5 stars, 81% of users believe it is headed in the right direction, and users said they would be likely to recommend Mesos at a rate of 84%. Mesos is also in the Container Orchestration category.

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

Satisfaction Ratings for Container Engine

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)
Docker hub	92%	92%	92%	89%	90%	84%	88%	87%	79
Oracle Cloud Infrastructure Compute	84%	97%	90%	86%	87%	86%	90%	90%	45
IBM WebSphere Hybrid Edition (Application Server & Liberty)	94%	100%	93%	N/A	N/A	86%	N/A	88%	81
Canonical MicroK8s	89%	100%	90%	N/A	N/A	86%	N/A	96%	68
Sandboxie	92%	82%	94%	N/A	N/A	86%	N/A	95%	69
OpenVZ	91%	86%	90%	91%	90%	91%	89%	87%	66
CoreOS	86%	N/A	86%	62%	N/A	83%	74%	78%	50
OCI	83%	71%	81%	89%	86%	86%	84%	81%	33
runc	85%	70%	86%	N/A	N/A	77%	N/A	89%	36
Mesos	84%	81%	82%	71%	81%	81%	79%	78%	43
Average	88%	87%	88%	81%	87%	84%	84%	87%	57

*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 Container Engine

The table below includes a breakdown of the customer segments for each product, as represented by G2 reviewers.

Customers by Size

	Small Business (50 or fewer emp.)	Mid-Market (51-1000 emp.)	Enterprise (>1000 emp.)
Docker hub	39%	30%	32%
Oracle Cloud Infrastructure Compute	18%	31%	51%
IBM WebSphere Hybrid Edition (Application Server & Liberty)	18%	45%	36%
Canonical MicroK8s	63%	25%	13%
Sandboxie	46%	46%	8%
OpenVZ	55%	36%	9%
CoreOS	43%	29%	29%
OCI	22%	28%	50%
runc	64%	18%	18%
Mesos	25%	38%	38%
Average	39%	33%	28%

(Additional Data for Container Engine continues on next page)

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

Additional Data for Container Engine (continued)

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

Implementation

	Deployment		Implementation Method			
	Cloud	On-Premises	In-House Team	Seller Services Team	Third-Party Consultant	Don't know
Docker hub	83%	17%	96%	4%	0%	0%
Oracle Cloud Infrastructure Compute	83%	17%	73%	0%	18%	9%
IBM WebSphere Hybrid Edition (Application Server & Liberty)	N/A	N/A	N/A	N/A	N/A	N/A
Canonical MicroK8s	N/A	N/A	N/A	N/A	N/A	N/A
Sandboxie	N/A	N/A	67%	0%	0%	33%
OpenVZ	40%	60%	83%	17%	0%	0%
CoreOS	N/A	N/A	N/A	N/A	N/A	N/A
OCI	100%	0%	80%	0%	20%	0%
runc	N/A	N/A	N/A	N/A	N/A	N/A
Mesos	50%	50%	100%	0%	0%	0%

(Additional Data for Container Engine continues on next page)

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

Additional Data for Container Engine (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
Docker hub	Docker, Inc	2013	N/A	503	501,043	486,158	3.9
Oracle Cloud Infrastructure Compute	Oracle	1977	\$39,068	232,007	8,289,272	812,675	3.9
IBM WebSphere Hybrid Edition (Application Server & Liberty)	IBM	1911	\$73,621	531,710	14,296,858	696,414	4.1
Canonical MicroK8s	Canonical Ltd.	2004	N/A	1,052	127,715	88,023	3.3
Sandboxie	Sandboxie	2014	N/A	27	10,014	0	N/A
OpenVZ	Virtuozzo	2015	N/A	193	10,578	3,756	4.2
CoreOS	Red Hat	1993	N/A	19,459	1,096,148	250,005	4.4
OCI	OCI	2018	N/A	3	62	4,506	N/A
runc	Open Container Initiative	2015	N/A	6	304	4,506	N/A
Mesos	The Apache Software Foundation	1999	N/A	2,085	60,743	65,055	2.6

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