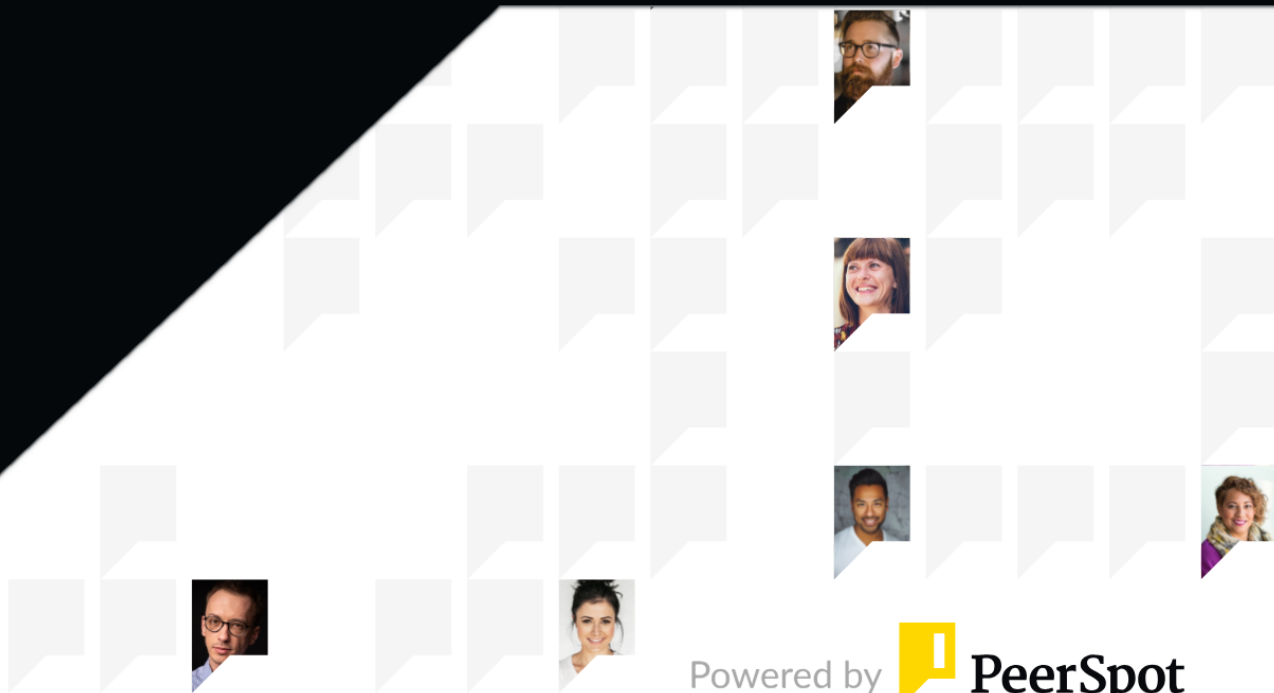


aws marketplace

Docker

Reviews, tips, and advice from real users



Powered by  PeerSpot

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Product Recap



Docker

Docker Recap

Docker provides a robust containerization platform, enabling identical environments across machines. With features like portability, fast deployment, and minimal resource consumption, Docker supports development, facilitating multitier architectures and integrating seamlessly with Kubernetes.

Docker offers an advanced containerization solution that enhances application management through automation and security measures. By isolating environments and managing dependencies, Docker supports platforms for scalable application development. Its integration with orchestration tools like Kubernetes and independence from host operating systems enable developers to create lightweight applications effectively. Although known for its cost efficiency and flexibility, Docker could improve in areas such as stability, command-line usability, and Windows performance integration. Users also point out the need for enhanced documentation, simplified management tools, and better persistence storage options, along with stronger marketing and easier user adoption.

What important features does Docker provide?

- **Containerization:** Creates consistent environments across machines.
- **Portability:** Runs on different hosts with ease.
- **Fast Deployment:** Speeds up application launches and updates.
- **Security:** Offers isolation and management of dependencies.
- **Scaling:** Supports application scaling and multitier architectures.

What benefits should users look for when evaluating Docker?

- **Cost Efficiency:** Reduces resource usage with lightweight containers.
- **Flexibility:** Integrates with orchestration tools like Kubernetes.
- **Performance:** Enhances resource utilization and onboarding.
- **On-premises Management:** Simplifies managing cloud and local setups.

Industries leverage Docker for application packaging, deploying microservices, and CI/CD processes. It supports DevOps, enhances backend service management, and enables resource-efficient development environments. Docker's compatibility with tools such as Jenkins ensures seamless integration and orchestration in modern IT workflows.

Valuable Features

Excerpts from real customer reviews on PeerSpot:



“Using Docker has allowed me to test faster, and software development has moved faster.”



Esa Rohan

Senior QA and Developer



“Docker has had a significant positive impact across development and training, and the biggest improvement has been the elimination of environment inconsistencies, which used to be one of the main sources of friction in product development and onboarding.”



Davide Cariola

Ed Tech Project Manager at Aulab



“Docker has positively impacted my organization by enabling me to separate all my applications into specific containers, allowing for multiple versions of PostgreSQL or Redis for different projects and clients, using Docker Compose to create images quickly, which helps reduce compatibility issues between environments.”



Raimundo Neto

Forward Deployed Engineer at a tech services company with 201-500 employees



“The ability to use an image with the software built into it, rather than just the software, is beneficial.”



Pratyay Banerjee

Senior Cloud Engineer - AWS at Bytedance



“The tool's most valuable feature is its sandbox environment. It makes it very easy to run and test applications without needing configurations, which is the core advantage of containerization. Kubernetes and Helm are helpful as they provide high-level metrics, making tracking the status of all the containers and applications running easier.”



Rikin Parekh

Backend Engineer at Northeastern University



“The capability of the solution to convert an application into a Docker image is a vital functionality”



Sunny Nair

Solution Architect And Senior Consultant at Keysight Technologies



“It is a quite mature technology.”



AnandanB

Senior Technical Lead at Changepond Technologies

What users had to say about valuable features:

“The most valuable feature is the simple containerization. I can specify what I need to install in a shell to ensure the application runs. It's a straightforward and easy-to-use feature. I also use it with CI/CD tools, finding it a good solution for integration..”

Marcin Tokarski

Software Engineer at a tech services company with 51-200 employees

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“Docker provides another level of virtualization where you don't need the host machine. The ability to use an image with the software built into it, rather than just the software, is beneficial. It allows the software to run on various machines without compatibility issues, saving a lot of time..”

Pratyay Banerjee

Senior Cloud Engineer - AWS at Bytedance

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“The most important feature is environment consistency across all stages, and the ability to guarantee identical environments in development, testing, staging, and production. Docker provides lightweight, isolated containers that are very fast, and every build is reproducible through Dockerfiles.

“Docker has had a significant positive impact across development and training, and the biggest improvement has been the elimination of environment inconsistencies, which used to be one of the main sources of friction in product development and onboarding.

“I have noticed faster developer onboarding and consistent environments across the entire life cycle, as well as more reliable CI/CD pipelines and simplified production deployment..”

Davide Cariola

Ed Tech Project Manager at Aulab

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“In the best possible scenario, Docker allows me to run a really complex Docker container locally and then be able to test it and quickly get fixes in. When I send the information to the senior developers for them to fix the issues that the Docker containers or those operating systems or software have, I am able to quickly get to the GitHub repo, get the newest version, and try again with Docker.

Docker impacts my organization positively because we all use it and we haven't moved away from it. Docker is pretty much mandatory and required and needs to be there. People use it, set it up, and then they're happy with it, and then we use it.

Using Docker has allowed me to test faster, and software development has moved faster..”

Esa Rohan

Senior QA and Developer

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“In my opinion, the best features that Docker offers are its ability to create a range of applications in isolated containers, which ensures the security part mainly when I am developing specific models in a sandbox, along with the ease of creating Docker Compose, reusing ready-made images, and the isolation of dependencies providing high portability.

“Docker's management part is quite efficient; today I can manage it with a few lines of commands, monitor aspects, update packages, and check the status of the images, with some applications Docker Hub also allowing for sharing, reusing images, and managing versioning.

“Docker has positively impacted my organization by enabling me to separate all my applications into specific containers, allowing for multiple versions of PostgreSQL or Redis for different projects and clients, using Docker Compose to create images quickly, which helps reduce compatibility issues between environments..”

Raimundo Neto

Forward Deployed Engineer at a tech services company with 201-500 employees

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“The greatest benefit of the solution is that you can create applications and multiple versions of the same application, distributing them across various Linux platforms. Setting up Docker is very quick; whereas setting up a Linux operating system can take five to ten minutes, you can set up a Docker-based Linux OS container within minutes. Docker also has a small footprint on memory and resources because it uses the system's resources efficiently. It operates within its environment, independent of the underlying operating system, running in its namespace. This isolation prevents negative impacts on the system.

For developers who frequently create and deploy applications, Docker makes it easy to quickly develop, deploy, and run the latest versions. You don't need to manage the operating system, applications, dependencies, or data separately; everything is encapsulated within the Docker container itself.

Moreover, AI is another application you can use through Docker. AI can help you set up more efficient Docker-based workloads. The role of AI is to guide you and provide the necessary knowledge for various tasks, whether it's related to Docker or anything else. Additionally, AI itself can run as a container using Docker..”

VishalSingh15

Head of Business at Variyas Labs Pvt Ltd

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Other Solutions Considered

“Before choosing Docker, I did not evaluate other options because upon my first contact with Docker, the immense cost-benefit encouraged me to continue using it..”

Raimundo Neto

Forward Deployed Engineer at a tech services company with 201-500 employees

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“Docker is a trending tool and is being used for numerous production based applications, so instead of evaluating multiple tools, our company adopted Docker. .”

ChamatKhan

Infrastructure manager

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“We have used the virtual machine named VMware previously. We switched to Docker because VMware was very clumsy when we tried to build a lot of virtual machines using it. VMware is best suitable as a business solution..”

Sven Gotovac

Professor at FESB - Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture

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“In previous projects, I did not use containers; I relied on standalone services such as NodeJS for bringing up services, running tasks in Windows or Linux, and after experiencing Docker, I find it much more useful due to its cost-benefit and expertise in project implementation..”

Raimundo Neto

Forward Deployed Engineer at a tech services company with 201-500 employees

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“Previously, applications were directly deployed in the server in our company instead of packaging the applications and running them on isolated environments. For instance, if any application experiences outage, it affects the other services as well, but with Docker this issue doesn't arise. .”

ChamatKhan

Infrastructure manager

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“Docker is the most prominent one. I didn't see any other choice there. But after Docker, Kubernetes started kicking in, and we are using some Kubernetes as well. However, we still use Docker images.

Docker and Kubernetes are not parallel but complementary. We are ramping up with Kubernetes and understand how we can orchestrate it. .”

AnandanB

Senior Technical Lead at Changepond Technologies

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ROI

Real user quotes about their ROI:

“The product has helped with the cost-savings part, especially since our company operates in a repeatable environment where it is easy to deploy the tool for multiple users..”

Verified user

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Technical Program Manager at a tech vendor with 10,001+ employees

“I have obtained a return on investment using Docker as I manage multiple roles, especially in Salesforce projects where I often function as a developer and PO, which allows me to gain a lot from utilizing Docker Engine's capabilities..”

Raimundo Neto

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Forward Deployed Engineer at a tech services company with 201-500 employees

“Using the solution containers saves a lot of time compared to deploying on EC2 instances. It simplifies deployment and greatly reduces the deployment time. So, the internal ROI is quite good, making Docker a very valuable tool for us..”

Rikin Parekh

Backend Engineer at Northeastern University

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“Using Docker provides immense value and benefits. One major advantage is the ability to provision environments quickly, reducing the time needed for setup. Additionally, Docker allows applications to run efficiently on smaller hardware, making it cost-effective in terms of infrastructure. The return on investment with Docker is substantial due to these benefits..”

GurpreetSingh4

Manager at Accenture company

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“The ROI is high. Traditional deployments take more time and builds can be inconsistent across different environments. Docker solves these issues.

The value is there. Docker delivers high performance, leading to increased productivity. You can achieve more in less time, and your deployment cycle time is reduced..”

VamsiMohan

CTO at Huber

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“ROI is there in terms of efficiency. Adding the development time setup or the build time required is quite easy, and we always eliminate the environmental differences between one environment and another.

For example, the underlying machine can have anything, and the developer can have anything, but still be able to run the application or whatever is being developed. It eliminates issues with the underlying hardware or operating system..”

AnandanB

Senior Technical Lead at Changepond Technologies

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Use Case

“I used Docker to Dockerize Java code. We had a code base, and I needed to create a Docker image from it so that it could be deployed. At the time, we used Docker Compose, which is somewhat similar to Kubernetes..”

Pratyay Banerjee

Senior Cloud Engineer - AWS at Bytedance

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“We are a service provider and we have various use cases. However, the most prominent one is that instead of virtualizing the application workloads, we use Docker. Docker allows you to create small applications and containerize them. You can create multiple such application containers that can run simultaneously on the Linux operating system..”

VishalSingh15

Head of Business at Variyas Labs Pvt Ltd

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“Instead of building images for underwriting systems, we pull pre-existing standard images. This allows us to quickly set up the necessary environment for development. For example, if I need a database instance, I simply pull the Docker image and create it, rather than going through a full installation and build process. We also leverage these images to create small, stackable components for building solutions. This streamlines our workflow and enhances our ability to upgrade and adapt quickly..”

AnandanB

Senior Technical Lead at Changepond Technologies

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“My main use case for Docker is building and testing Docker materials built by other people and also other systems. I do a lot of voluntary GitHub work and development, so some of that runs on Docker. I have been building browsers and other applications which also rely on Docker, so databases running on Docker and containers running on Docker are part of my workflow. Regarding my main use case for Docker, I mention reliability and local building..”

Esa Rohan

Senior QA and Developer

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“My primary use case for Docker is standardizing development and deployment environments across the entire application life cycle, and I rely on Docker to ensure that every component of a project, whether it's a Laravel backend, a Node.js service, MySQL database, or some lightweight Alpine-based utility, runs in a predictable, isolated, and reproducible environment.

“One of my recent projects involved modernizing a legacy LAMP-based Laravel application for a finance client, and the team had developers on macOS, Windows, Linux, and other operating systems, and everyone was running slightly different PHP versions, MySQL configurations, and other extensions, and this caused constant friction, with migrations failing on one machine and queue workers behaving differently on another, leading to inconsistent test results. Docker solved the problem because every developer, regardless of operating system, ran the exact same environment..”

Davide Cariola

Ed Tech Project Manager at Aulab

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“I have been using Docker since 2017, when I needed to create some APIs to carry out integrations between systems, specifically to create an API layer to use with two main tools: Salesforce and Sensei.

“Currently, my main use case for Docker is to expose local services externally, together with Cloudflare, and I add a large part of my applications, prototypes, artificial intelligence solutions to Docker, including various types of containers used in my day-to-day work for local solutions such as AI agents, PostgreSQL, Redis, vector databases like Quadrant, as well as managing the front-end and back-end part together with Kubernetes.

“A quick and specific example of how I use Docker to expose local services externally is by running services locally, creating a tunnel via Cloudflare to ensure security, which I only do in certain situations before migrating the services to a VPS or to a customer's server..”

Raimundo Neto

Forward Deployed Engineer at a tech services company with 201-500 employees

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Setup

The setup process involves configuring and preparing the product or service for use, which may include tasks such as installation, account creation, initial configuration, and troubleshooting any issues that may arise. Below you can find real user quotes about the setup process.

“The initial setup is not difficult, especially with Docker Desktop. It allows you to manage images easily without having to run commands if you prefer not to..”

Pratyay Banerjee

Senior Cloud Engineer - AWS at Bytedance

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“The product's initial setup phase is straightforward.

The product's deployment phase was easy as we had to just install it in our company.

Two engineers are required for the deployment and maintenance of the product..”

Verified user

Technical Program Manager at a tech vendor with 10,001+ employees

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“The initial setup hardly takes minutes. All the container images are available on Docker Hub when you create a container. Docker Hub is a repository, like an App Store for containers. If you use Windows or Mac, you have an App Store where you can download and start using any application you want. Similarly, Docker Hub is the application store for containers. It's a cloud-based solution. In Docker Hub, you can find all kinds of container images. If you want to install an Apache server, a Postgres database server, or any other server—even Linux and Windows servers—they are all available in containers. Anyone who wants to use these can immediately download and start using the container image..”

VishalSingh15

[Read full review](#) 

Head of Business at Variyas Labs Pvt Ltd

“Overall, setting up the Docker environment is quite easy. Many methods exist, such as using Docker Compose and Docker networks to communicate between containers. The main challenge lies in designing the architecture and integrating different frameworks and microservices.

I would rate the ease of setting up the tool at around nine out of ten. The time it takes to deploy depends on the scale of the system. For the early-stage startup I'm currently working with, it doesn't take much time. It's just me handling the deployment. In our early-stage startup, we have a couple of teams with around four to five backend APIs and two front-end services. Deploying these doesn't take much time. My focus is more on minimizing costs due to our lean startup structure..”

Rikin Parekh

[Read full review](#) 

Backend Engineer at Northeastern University

“The initial setup is quite easy. I don't find it difficult.

For Windows, it can be a bit confusing, but for Linux, it is quite easy. Both Linux and Mac can do it very easily. However, for Windows, I did face some challenges, it doesn't work as smoothly on Windows.

For Linux and Mac, I would rate my experience with the initial setup as a nine out of ten, with ten being easy. For Windows, I'd give it around six to seven.

- **Deployment model:** Mostly, everything is on-premises only. We have not used anything on the public cloud.
- **Deployment time:** That depends upon the application setup and the dependencies. Generally, Docker itself does not take much time. It's purely based on the application and its dependencies. So, it should not take more than a few minutes. Two minutes, maybe a maximum of sixty seconds. It's quite fast.

AnandanB

Senior Technical Lead at Changepond Technologies

[Read full review](#) 

“I would rate the initial setup a ten out of ten. Docker offers an effortless setup process. As part of the setup, I have faced some configuration failure issues in Docker compose utility, but I was able to resolve it on my own with some changes in configuration. A feature of Docker can be made live in 20 to 30 seconds but the total deployment of the solution took me around one and a half days. As part of the deployment process, I inputted the code in the local environment and tested it on my personal computer using the Docker desktop utility. Following the aforementioned step, I pushed the code to the cloud and cloned it in EC2. Then, I developed a few necessary configuration files for Docker deployment and building. As the last step of the deployment, the commands are run successfully to make the solution go live. Only one professional is enough to deploy Docker. To implement maintenance for a production-based cluster, a team of three professionals, one lead and two other team members, is needed. .”

ChamatKhan

Infrastructure manager

[Read full review](#) 

Customer Service and Support

“We have support from our vendor and also use support for the Kubernetes cluster. It could use some improvement. It could be a bit better. They should be more responsive. .”

Ayman Allam

DevOps and Automation Lead | Technical Expert at a comms service provider with 5,001-10,000 employees

[Read full review](#) 

“I did not need to use Docker's customer support directly, but I had an experience where I needed assistance with dependency errors, and support helped very quickly by informing me that the correct version was Docker Engine, resolving the issue efficiently..”

Raimundo Neto

Forward Deployed Engineer at a tech services company with 201-500 employees

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“I have never contacted support since documentation is available on the issues. The community is huge, and the documentation is pretty good. Additionally, there is information online that I can refer to..”

Rikin Parekh

Backend Engineer at Northeastern University

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“The documentation and community are good. I've never had a problem that I was unable to fix with a little bit of Google research. The official documentation is all you need to figure things out. .”

Renat Babin

C# Developer at A&D Mortgage LLC

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“Docker provides all the technical support to its users, especially to those who purchased a Docker license, which comes with a basic SLA agreement. It means the technical support is covered directly by the vendor. Docker has a team of engineers who work in its technical support team serving globally 24/7..”

Amrutha Bennen

Partner Development Manager - APAC at Nuaware

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“There is a good amount of documentation that quite helps. Every question that I had is addressed in the documentation or on the forum. I've got all the answers I needed.

I didn't have a chance to raise a specific issue or interact with support directly. Everything is documented, and there's a lot of information available, so I didn't need to raise a support ticket..”

AnandanB

Senior Technical Lead at Changepond Technologies

[Read full review](#) 

Other Advice

“I would recommend Docker for a wide range of users, from 50 to five million users, as it is simple to configure.

I rate the overall solution ten out of ten..”

Marcin Tokarski

Software Engineer at a tech services company with 51-200 employees

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“Docker is well-established in the market. Most people in DevOps or IT are familiar with Docker or creating Docker images. It is easy to use.

I'd rate the solution ten out of ten..”

Pratyay Banerjee

Senior Cloud Engineer - AWS at Bytedance

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“I recommend starting with Docker Compose instead of [Kubernetes](#), and keeping images lean while treating Dockerfiles as a core part of the codebase. You need to standardize your development environment, align it with your CI/CD pipeline, and rely on official images for stability. I would also suggest asking fewer questions to streamline the process and make it shorter. I would rate this product an 8 overall..”

Davide Cariola

Ed Tech Project Manager at Aulab

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“For those considering using Docker, starting with small projects to study containerization, understanding images, volumes, and resource distribution is beneficial, and Docker Compose along with Docker serve as excellent tools for developing and testing applications with multiple types of services.

“I believe Docker is a great product with considerable room in the market. I would rate my overall experience with this product a ten out of ten..”

Raimundo Neto

Forward Deployed Engineer at a tech services company with 201-500 employees

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“I have been using Docker for nine years. I believe Docker makes the process of being able to run complex containers locally and quickly test and fix things the smoothest it can be. I have never had any annoyances after the Docker environments have been set up. Sometimes I have had to help with the documentation and setting the Docker environments up, but most of the time, it is really good and really useful. It is just better.

The development speed and velocity have increased by me being able to test on Docker.

My advice for others looking into using Docker is to get multiple battery laptop chargers. Get multiple and keep them around at all times. Stock up the office with battery chargers and laptop chargers. Give people two for home, two for a backpack, and two for travel. [Make](#) sure that they constantly have laptop chargers available to them and that they are of the fastest possible quality and the highest quality and reliability.

The main issue is the battery usage, which keeps Docker from being rated higher.

My overall review rating for Docker is 7 out of 10..”

Esa Rohan

Senior QA and Developer

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“If you are trying to create an application quickly for testing or development purposes, Docker is the best tool available. Docker can also be used on Mac and Windows with a tool called Docker Desktop. You can start using Docker there by installing Docker Desktop on a Windows or Mac system.

Whenever a new Docker image is created by the OEMs, like [MySQL](#) for instance, they name the new image with the version number. If you want to check the latest version, you can go to Docker Hub and search for it. There are multiple versions available, and Docker also allows you to create your own version. So let's say your company has specific requirements for [MySQL](#). You can download the original MySQL image from Docker Hub, install a couple of additional applications within the Docker container, and share this customized Docker image via your own repository on Docker Hub.

There are two kinds of updates: one within the Docker technology itself, where the

creators of Docker keep updating the Docker engine, and another for the Docker images. The Docker engine is the software tool that runs on your system, and the global team working on it keeps it updated. You can always check for the latest version of the Docker engine and upgrade as needed.

Moreover, container orchestration is a different technology. You need [Kubernetes](#) to orchestrate the containers in the solution. A single container is independent, but [Kubernetes](#) is an orchestration tool that manages these containers using its control and data planes. For example, if you have hundreds of containers, it takes work to manage each one independently. You need some orchestrator to control these containers' life cycles, maintain high availability, and more. Kubernetes handles this container orchestration.

Overall, I rate the solution a nine out of ten.

.”

VishalSingh15

Head of Business at Variyas Labs Pvt Ltd

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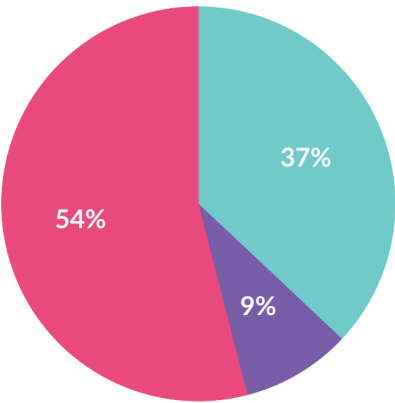
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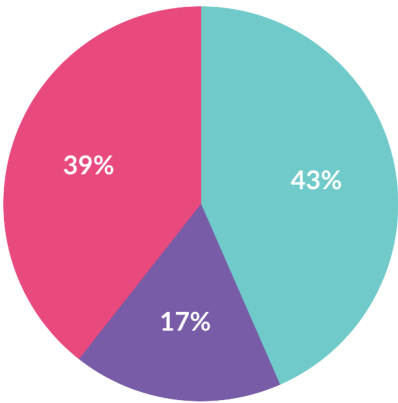


Company Size

by reviewers



by visitors reading reviews



Large Enterprise

Midsized Enterprise

Small Business

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