aws marketplace

Docker

Reviews, tips, and advice from real users






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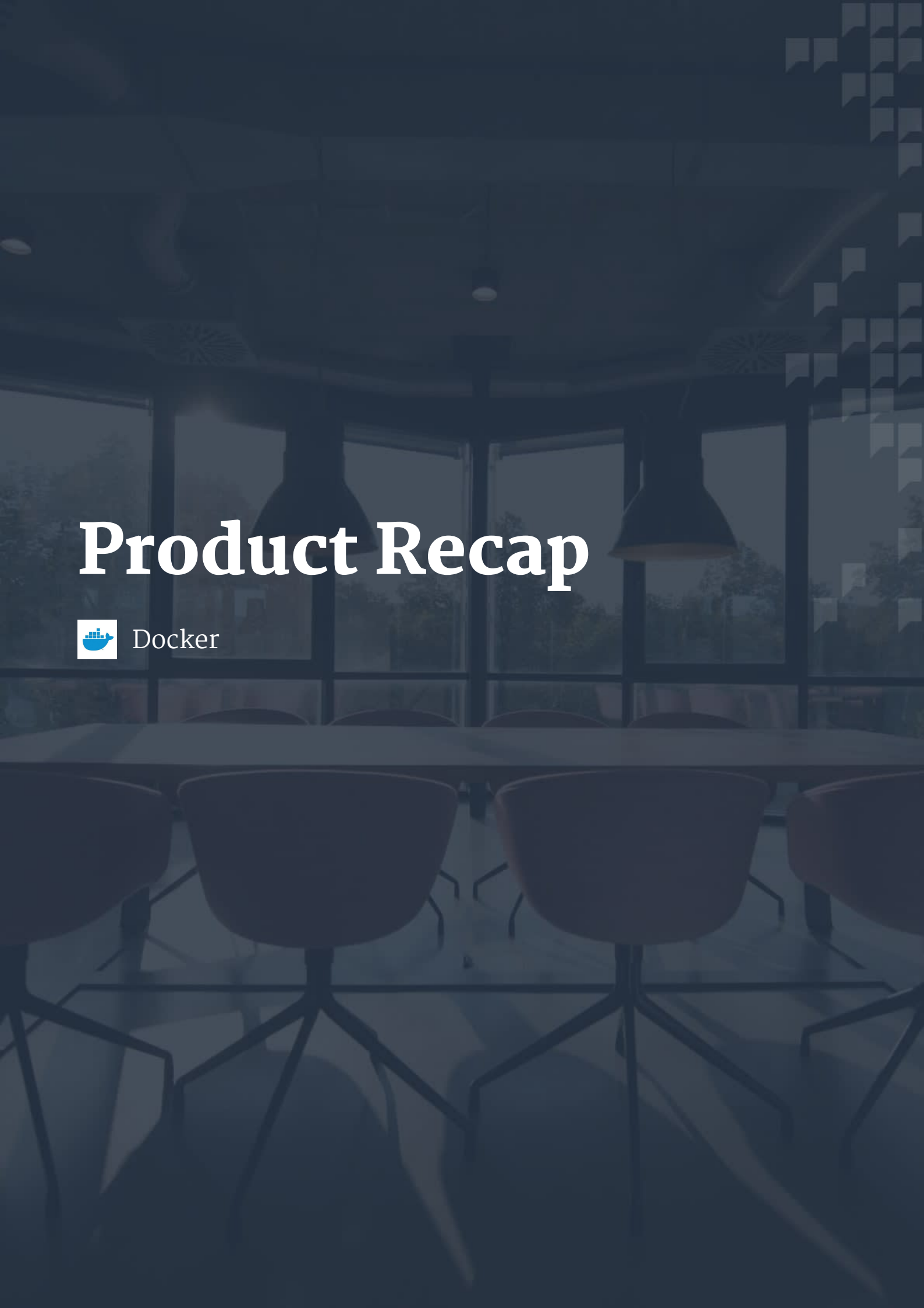
Contents



Product Recap

Docker

Docker Recap

Docker is a versatile container platform used for running and deploying applications in isolated environments, ensuring consistency across development, testing, and production.

Docker offers solutions for containerizing applications, automating deployments, and managing infrastructure through its robust platform. It supports CI/CD workflows, provides a development platform for container management, and simplifies the setup by using streamlined tools. Organizations leverage Docker for building microservices, running UI applications, deploying web services, and setting up secure environments. It also facilitates managing containers via Kubernetes and creating development stacks for enhanced productivity.

What are Docker's key features?

- Security: Offers containment and isolation of applications.
- Easy Use: Simplifies the deployment and management of applications.
- Documentation: Extensive resources to aid in understanding and implementation.
- Customization: Flexible environment configurations.
- Scalability: Efficiently handles applications irrespective of scale.
- Internal DNS: Manages network configurations within the container ecosystem.
- Overlay Networks: Facilitates seamless inter-container communication.
- Resource Efficiency: Optimizes usage of system resources.

What benefits should users look for?

- Consistency: Ensures homogeneous environments across development, testing, and production stages.
- Portability: Allows applications to run consistently on any platform.
- Cost-Effectiveness: Reduces overhead costs associated with application deployment.
- Speed: Accelerates the build, test, and deployment cycles.
- Flexibility: Supports various tools and integrations to adapt to different workflows.

Industries implement Docker for CI/CD pipelines, scaling services, and improving resource utilization. Tech companies use Docker for building and deploying their software in isolated environments. Finance and healthcare sectors deploy applications securely, ensuring compliance with regulatory standards. Educational institutions set up consistent development environments for coding labs and training students in advanced technologies.

Valuable Features

Excerpts from real customer reviews on PeerSpot:

- “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 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

- “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

"It is a very stable solution. Stability-wise, I rate the solution a ten out of ten."

Gur Sannikov

Technical program manager at Intel Corporation

"Traditional deployments take more time and builds can be inconsistent across different environments. Docker solves these issues."

VamsiMohan

CTO at Huber

"It is a quite mature technology."

AnandanB

Senior Technical Lead at Changepond Technologies

"Docker offers a resilient system with minimal failure chances and optimized performance"

ChamatKhan

Infrastructure manager

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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"The most valuable features of the solution are the support I get from Windows and Linux, along with the cloud platforms and the CLI. There is also a repo feature in the tool.."

Gur Sannikov
Technical program manager at Intel Corporation

Read full review

"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

Read full review

"Docker offers a resilient system with minimal failure chances and optimized performance. For example, if an EC2 is utilized, the software container can be customized to allow only the specific benchmark of resources to be used. I found the solution to be easily customizable. ."

ChamatKhan
Infrastructure manager

Read full review

"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.."

VishalSingh
Consulting & Solutions, BA/BD in Enterprise IT on Open Source, Red Hat & EDB at KEEN AND ABLE COMPUTERS PVT LTD

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“Docker setup itself is a useful thing because Docker itself is running your environment in a separate isolated box. So, it's not that things will be deployed or installed on your local system. Things (as in the development environment) will be separate.

Then, the development environment can be segregated from the local underlying hardware. Your instances can be separate, or whatever you build, the application itself can be covered in one single Docker image at the end of it. All these things can be done. It saves part of the configuration and installation time of the initial local setup of the development team.

So whenever I'm developing something, the time required to set up the local environment and the time required to set up other developers' environments will be radically reduced. So that is a great thing that we have.

TL;DR, Docker helps to reduce the time to set up the environment.

Important features for CI/CD workflows:

For CI/CD pipelines, instead of building separate deployable files, we package our solutions as Docker images. This allows us to compose the entire solution using Docker, which improves our deployment process.

We create Docker images for each build and push them to a registry. These images are then pulled and deployed in our environments, streamlining the entire process..”

AnandanB
Senior Technical Lead at Changepond Technologies

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Other Solutions Considered

"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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"My company considered a product named Automaton against Docker. My company did not like Automaton. Docker is more commonly available and well-documented, and it is easier to get a lot of information about it on the internet.."

Gur Sannikov
Technical program manager at Intel Corporation

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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

Read full review

"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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"OpenShift is gaining more popularity than Docker because it is used in enterprises that follow the traditional model. OpenShift is from Red Hat, and many enterprises are already running Red Hat-based systems at the back end, so it becomes much easier for them to move to OpenShift than to migrate to Docker. For Docker based adoption, the entire existing infrastructure needs to be changed to migrate into the Docker environment but for OpenShift the older architecture just needs to be brought into the latest architecture. ."

Sunny Nair
Solution Architect and Senior Consultant at Keysight Technologies

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ROI

Real user quotes about their ROI:

"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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"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.."

Gur Sannikov
Technical program manager at Intel Corporation

Read full review

"Docker streamlines our workflows and provides faster results. It simplifies our software dependencies, enhances productivity, and enables easy sharing and collaboration across different ALM models. ."

SailajaD
Sr. HR Execuitve - Employee Relations at HGS - Hinduja Global Solutions

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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

Read full review

"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

Read full review

Use Case

“In our company, I have used Docker to launch an application publicly. The aforementioned application becomes available to end users via CloudFront. Docker is also used to cache the optimized performance. .”

ChamatKhan
Infrastructure manager

Read full review

“I use the solution in my company for internal applications and deployments in the DevOps area. The tool's main use cases revolve around areas like research and development tools and CI/CD pipelines..”

Gur Sannikov
Technical program manager at Intel Corporation

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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.."

VishalSingh

Consulting & Solutions, BA/BD in Enterprise IT on Open Source, Red Hat & EDB at KEEN AND ABLE COMPUTERS PVT LTD

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"I work with startups and companies looking to build products from scratch to production. I handle deployments from various teams and use AWS. My experience includes deploying applications, setting up APIs, adding load balancers, and managing traffic. Docker is essential for this work, allowing me to create sandbox environments to run applications. Essentially, Docker helps manage clusters of applications and maintain the cloud environment.."

Rikin Parekh

Backend Engineer at Northeastern University

Read full review

"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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"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

Read full review

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

Read full review

"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.."

Gur Sannikov

Technical program manager at Intel Corporation

Read full review

“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..”

VishalSingh

Read full review

Consulting & Solutions, BA/BD in Enterprise IT on Open Source, Red Hat & EDB at KEEN AND ABLE COMPUTERS 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

"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

“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

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

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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

Read full review

"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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"Our experience with technical support has been decent. It falls in line with the general support aspect of Docker. It depends on the plan we are using. So if you have a higher goal, you get full support. I rate our experience with customer service and support an eight out of ten.."

Uchegbu Udemezue
Technical Lead at a tech services company with 1,001-5,000 employees

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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

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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

Read full review

"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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“It is a quite mature technology. People can simply use the existing features available, which will really help their development and make it much easier. Definitely, it will have all these benefits built along with it.

Overall, I would rate it a ten out of ten. .”

AnandanB
Senior Technical Lead at Changepond Technologies

Read full review

“I find Docker to be a user-friendly product. Docker acts as a stand-alone application without any dependency on other hardwares, so it can be used in an isolated environment. The tool can be easily customized. In our company, the product is running on EC2. I have restored all the required packages and need to compile the code within a container using the Docker tool. After the aforementioned step, Docker is used to run a few specific images where images are not dependent on each other. If one of the running images on Docker malfunctions, there won't be any cases of outage because the environment remains isolated. There is no interdependency between containers in Docker. Docker's container orchestration capabilities support our organization's projects with minimal downtime and low failure chances and offer a robust system. Our company has a Docker compose utility to customize the workflow and make it operate smoothly. Overall, I would rate the solution a nine out of ten. .”

ChamatKhan
Infrastructure manager

Read full review

"The CI/CD was created, and the template is there. It's sufficient to prevent blockers. The restore is deployed, and we are conducting large-scale scans to identify duplicates. For continuous intelligence, we are using Azure DevOps tools from GitLab. We use Docker for various tasks like scanning, automation, testing, and searching.

We support software implementation and maintenance. Nowadays, we update our software regularly. Our recommendation for regular users is to avoid using outdated software, especially when it involves personal data sources such as software applications, desktops, and internet usage.

Azure uses Docker and integrates with Azure products. Docker overlaps the network, which facilitates communication between containers. This network operates on VPNs but can utilize third-party gateways to reach and solve problems.

Docker has more advanced authentication, backup, and accountability.

Overall, I rate the solution a six out of ten.."

Karthick Muthuraj
Senior Talent Acquisition Lead at a media company with 1-10 employees

Read full review

"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.

."

VishalSingh
Consulting & Solutions, BA/BD in Enterprise IT on Open Source, Red Hat & EDB at KEEN AND ABLE COMPUTERS PVT LTD

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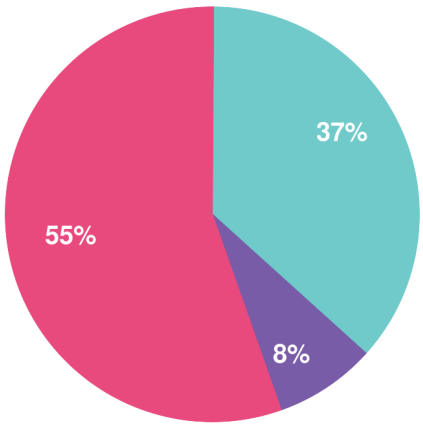

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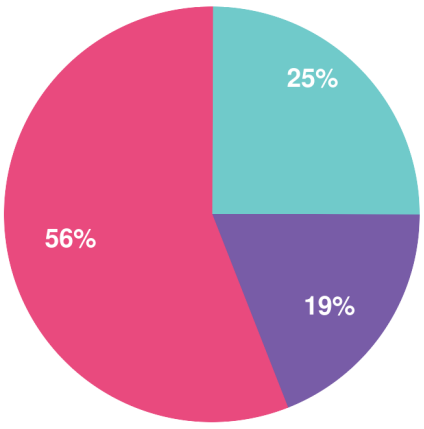

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