aws marketplace

Docker on CentOS

Reviews, tips, and advice from real users






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Product Recap

Docker on CentOS

Docker on CentOS Recap

Docker on CentOS enhances deployment with container isolation, image-based packaging, and environment portability. Users experience streamlined application deployment and rapid releases, benefiting scalability and market agility despite some challenges from its deprecated status.

Docker on CentOS supports building, packaging, and running containerized applications on Linux servers. DevOps teams employ it for managing container infrastructure and CI/CD pipelines. Key uses include web hosting, backend service management, and development of Node.js microservices, APIs, and NGINX services. It addresses deployment efficiency, although orchestration and lifecycle management require Kubernetes. Security improvements and stronger OS update integration are areas of interest.

What are the most important features of Docker on CentOS?

- Container Isolation: Separates applications for security and stability.
- Image-based Packaging: Ensures consistent application environments.
- Environment Portability: Enhances application deployment across platforms.
- Lightweight Containers: Improves scalability with faster startup times.
- Accessible Docker Repository: Simplifies application deployment.

What benefits or ROI should users look for?

- Faster Releases: Reduces time to market with quicker deployment.
- Resource Efficiency: Utilizes system resources effectively.
- Reduced Inconsistencies: Minimizes environment differences in deployments.
- Reliable File System: Provides stable application runtime.

Industries utilize Docker on CentOS for proof of concept development, machine learning, website hosting, and microfinance application development. It is pivotal in CI/CD processes, supporting robust container infrastructure for comprehensive DevOps and platform team tasks. Its application in diverse environments showcases the adaptability of containerized solutions.

Valuable Features

Excerpts from real customer reviews on PeerSpot:

- "Since we implemented it, the system really improved and became responsive very fast."

Boaz Katabazi

Network &Security Engineer at Natioanal Drug Authority Uganda

- "Docker on CentOS has positively impacted my organization as it helped us grow the business, and the customer was very happy with the services, thus revolutionizing the business."

Hamza Sharif

Cloud Engineer at a consultancy with 11-50 employees

- "The compatibility of Docker on CentOS is really smooth, and I have not faced any kind of issue."

AnilKumar13

Azure Dev Ops Engineer at a engineering company with 5,001-10,000 employees

"Those features helped me specifically during my project by making it more stable since it used fewer resources, resulting in a cost-efficient deployment, as the machines that I deployed it on used less of the resources than I thought they needed."

Verified user

Cloud Ops Lead at a tech vendor with 10,001+ employees

"Docker on CentOS has improved my organization positively, as it is easy to operate and maintain, making it more flexible—you can change any service in the system, delete or remove the service port, and create new ones."

DongNguyen

Solution engineer at Vijatech

"Docker on CentOS has positively impacted my organization because we do not need much resource per application, and our deployment time has decreased, allowing us to avoid using more VMs to host our applications."

Harshal Jethwa

Cloud Engineering and Automation Engineer at Configit

"Docker on CentOS has positively impacted my organization by making testing easier."

Verified user

Senior DeevOps Engineer at a tech services company with 11-50 employees

What users had to say about valuable features:

"In my opinion, the best features Docker on CentOS offers are limited right now due to its deprecation about a year and a half ago, which presents a lot of security risks. However, it previously had a huge documentation base because it was the industry standard for years, was very resource-efficient, and had a reliable file system from being derived from Red Hat Enterprise.

"Docker on CentOS did not benefit my organization all that much because it was in a deprecated state when I was using it, which is why I quickly stopped using it due to the security vulnerabilities.."

Verified user

Cloud Ops Lead at a tech vendor with 10,001+ employees

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“The best features Docker on CentOS offers are that it works equally well on CentOS as it does on Ubuntu or RHEL, though for one or two specific use cases, we set up Docker on the CentOS environment for our client only.

“The compatibility of Docker on CentOS is really smooth, and I have not faced any kind of issue.

“Docker on CentOS has positively impacted my organization because I manage the client's environment, and since CentOS is a free version for RHEL servers, they use it for cost criteria, and Docker works smoothly on CentOS..”

AnilKumar13

Azure Dev Ops Engineer at a engineering company with 5,001-10,000 employees

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"The best features Docker on CentOS offers for me include volume mount, where I can mount a directory inside the container as a volume and then write it inside, and then I get the whole thing on the host as well. If I write it outside on the host, it gets inside. This is a really good feature.

"The volume mount helps my workflow and productivity significantly. If I need to test something, I just mount the volume, mount my code as a volume, make changes, it appears inside, test it, and then I am done after testing.

"Docker on CentOS has positively impacted my organization by making testing easier. I do not have to install older versions of applications and then make my system or service study. I just pull out a Docker container and then use it. This helps in saving time as well. When I run the whole thing in Docker Compose, that also helps in speeding things up. Once I have Docker Compose created, I just do Docker Compose up, and then everything works. This is mostly time-saving.."

Verified user

Senior DeevOps Engineer at a tech services company with 11-50 employees

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“The best features Docker on CentOS offers are its lightweight and fast nature, with containers sharing the OS kernel, making it faster than VMs and providing quick startup time. It also ensures a consistent environment where applications will work on every machine, not just the developer's machine, and offers resource efficiency, such as no full OS per application, allowing me to share my infrastructure with multiple containers and applications. Additionally, it provides easy deployment and scaling.

The most valuable features to me in my daily work are all of the following: lightweight nature, consistent environment, resource efficiency, and easy deployment. We do not need to worry about our source requiring more memory; it is lightweight and fast, and the deployment does not take much time. If we want to scale our infrastructure, we can just create a new Docker image and it will scale, so all of those features are important to us.

Docker on CentOS has positively impacted my organization because we do not need much resource per application, and our deployment time has decreased, allowing us to avoid using more VMs to host our applications. Regarding the decrease in deployment time, I am saving 30 to 40 percent of our time, and before Docker, we had been using 10 to 20 VMs, but after that, it has become half, approximately 10 or 11 VMs..”

Harshal Jethwa
Cloud Engineering and Automation Engineer at Configit

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"The best features Docker on CentOS offers include its lightweight containers and fast startup. Whenever there was a scale-out required for the APIs, it was immediate, less than 10 seconds to boot up, which was very helpful for the microfinance services.

"The fast startup and lightweight containers of Docker on CentOS were very helpful because earlier when we used to have these APIs running on the EC2 instances, many instances were required for those services, even though the code was very small. We had to use many EC2 instances instead of using microservices or micro containers like Docker. When we moved to Docker, the scale-out was very fast and very helpful for the business. The boot time with Docker was very less compared to the EC2 instances because running on the EC2 instances required more boot time for the OS, and there was a long delay due to the script execution for a few seconds.

"Docker on CentOS has positively impacted my organization as it helped us grow the business, and the customer was very happy with the services, thus revolutionizing the business.."

Hamza Sharif
Cloud Engineer at a consultancy with 11-50 employees

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"How fast the application runs is one of the biggest advantages for me in Docker, but on the downside, issues to do with space utilization arise sometimes. Since we implemented it, the system really improved and became responsive very fast. When you have limited space, the system tends to crash from time to time, so you have to ensure that you have enough space at any one point.

"We are using the orchestration feature in Docker. That was the main motive for having orchestration; it helps better manage the containers.

"I am comparing Docker on CentOS with the one that is running on Ubuntu, and in terms of scaling up, it is easy to work with when it comes to that. That is the main feature I have been benefiting from.

"Because it was first, we recently did it on Ubuntu, but initially, it was running on CentOS. We were comparing and seeing which one runs better, but I realized on Ubuntu it is much easier to work with.

"The lightweight architecture on CentOS affects my resource utilization significantly.."

Boaz Katabazi
Network &Security Engineer at Natioanal Drug Authority Uganda

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Other Solutions Considered

Before choosing Docker on CentOS, I evaluated other options such as Ubuntu, as I have used it for our environment, but Docker on CentOS was chosen for the client requirement.

AnilKumar13
Azure Dev Ops Engineer at a engineering company with 5,001-10,000 employees

Read full review

"Before choosing Docker on CentOS, I did not evaluate other options because we had a clear mindset that we wanted to use Docker on CentOS. We saw the public review, so that is why we thought we wanted to use Docker on CentOS only.."

Harshal Jethwa
Cloud Engineering and Automation Engineer at Configit

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"Before choosing Docker on CentOS, I considered using Debian because it seemed quicker and more efficient based on the documentation, but in the end, it turned out less efficient as I had to switch back to Debian.."

Verified user
Cloud Ops Lead at a tech vendor with 10,001+ employees

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"I previously used Debian with Docker, which is actively maintained, and I was reading some old documentation recommending CentOS when I started using it.."

Verified user

Cloud Ops Lead at a tech vendor with 10,001+ employees

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ROI

Real user quotes about their ROI:

I have seen some money saved because when someone requires a RHEL-based OS with Docker, CentOS is the best choice due to being freeware, making it easy to set up on that machine.

AnilKumar13
Azure Dev Ops Engineer at a engineering company with 5,001-10,000 employees

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"I have not seen a return on investment since you install and use it. What return on investment is needed when using a simple tool? It is just there to use.."

Verified user
Senior DeevOps Engineer at a tech services company with 11-50 employees

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"Mainly, it is about time with Docker; I think it helps us save in that way, and using open source has been helping us not to invest in that. I could say it is maybe forty percent compared to before using Docker.."

Boaz Katabazi
Network &Security Engineer at Natioanal Drug Authority Uganda

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"I have not seen a return on investment because the deprecation made it so there was none, and if anything, the ROI would have been negative since money and time were spent using something that did not progress.."

Verified user

Cloud Ops Lead at a tech vendor with 10,001+ employees

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Use Case

“My main use case for Docker on CentOS is for a containerization platform, packaging applications with their dependencies for lightweight and portable containers.

A quick, specific example of how I use Docker on CentOS for containerization is that we have dockerized our frontend, backend, and database into containers, and we have hosted them using Docker on CentOS. We have multiple software images for availability and for application uptime, and it is lightweight..”

Harshal Jethwa
Cloud Engineering and Automation Engineer at Configit

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“I have been using Docker on CentOS for two years.

My main use case for Docker on CentOS is in my CI/CD pipeline.

A specific example of how I use Docker on CentOS in my CI/CD process is that we use it to containerize and deploy applications.

We also use it for machine learning pipelines..”

Verified user
Senior Data Scientist at a tech vendor with 10,001+ employees

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"My main use case for Docker on CentOS is for running websites and backend services. I use Docker on CentOS for running websites, specifically for APIs and for running NGINX service.

"I used Docker on CentOS for a microfinance application that had more than 16 services at that time for the backend. The logic was basically on Node.js, and I used all those microservices on Docker on CentOS. Later on, I used the same service on ECS Fargate.."

Hamza Sharif
Cloud Engineer at a consultancy with 11-50 employees

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"We have servers running operating systems like Ubuntu and CentOS. Regarding Ubuntu, we are interested in LAMP stack, Ubuntu, or Jenkins on hardened Ubuntu, but we are not using LAMP stack. We are using Ubuntu and then MySQL in a different way, but not LAMP stack. For CentOS, Docker is there, but we are using PostgreSQL, not MariaDB. Docker on CentOS is what we are using. It has been about six years since we started using Docker on CentOS. It is running one of our systems hosted there, on our document management system.."

Boaz Katabazi

Network &Security Engineer at Natioanal Drug Authority Uganda

Read full review

"My main use case for Docker on CentOS involves running containers, testing applications, and pulling out niche applications, older versions of applications or software, and then using those for testing.

"A quick specific example of an application or scenario I have tested using Docker on CentOS is testing an old version of Ruby code inside a Docker container. For instance, a Rails application written on Ruby 2.7, when the Ruby version is now 3.something or four as well, I just pull out the Docker container and then run it.

"I have additional insights about my main use case. Testing out older versions of applications and older versions of software is one aspect. Another aspect is running our development server, not a local server, but the development server. Then it goes to staging and production. I run the development server on Docker on CentOS containers.."

Verified user

Senior DeevOps Engineer at a tech services company with 11-50 employees

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"My main use case for Docker on CentOS is to provide infrastructure-related support for one of my clients who has their own environment, along with performance testing tools, so we set up Docker on their CentOS servers.

"A specific example of how I use Docker on CentOS for performance testing or insulated support is when the client needs to test their application on their environment, so we install the CentOS server with our product image, spin up the container, and test a few use cases.

"Regarding my main use case for Docker on CentOS, I face challenges with Docker sometimes having network-related issues, which require us to restart the Docker daemon, but apart from this, I am not facing any other issues with Docker.."

AnilKumar13

Azure Dev Ops Engineer at a engineering company with 5,001-10,000 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.

My experience with pricing, setup cost, and licensing for Docker on CentOS is very favorable as CentOS is free of cost and does not require a purchase license, and the same applies to Docker without needing any specific license, but we do need manpower knowledgeable in Docker on CentOS for installation.

AnilKumar13

Azure Dev Ops Engineer at a engineering company with 5,001-10,000 employees

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"My experience with pricing, setup cost, and licensing is that there is no licensing cost required. The setup is just running a few commands that are already recorded or documented. Nothing much is involved.."

Verified user

Senior DeevOps Engineer at a tech services company with 11-50 employees

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Customer Service and Support

"I did not reach out for support specifically about Docker on CentOS, but I utilized Amazon's underlying AWS support, which is good and has quick response times.."

Verified user
Cloud Ops Lead at a tech vendor with 10,001+ employees

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"The customer support for Docker on CentOS is not really needed. Why would someone reach out for customer support for an open-source software that has lots of documentation and community support? No one would reach out to Docker for support for a simple thing.."

Verified user
Senior DeevOps Engineer at a tech services company with 11-50 employees

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"Mainly, the support we get is from online communities in case of any challenges, and there may be some people around who have more expertise in that area; that is how we have been managing. We have not gotten into a state where support is complex, but most things can be easily found as resources online to help resolve those issues.."

Boaz Katabazi
Network &Security Engineer at Natioanal Drug Authority Uganda

Read full review

"I rate their support as a partner. We purchase the software and product from them, so when I have an issue with Red Hat or Docker on CentOS or Kubernetes, I create a ticket with the partner who works directly with the respective teams.

"I have experience with their support through a few cases requiring Red Hat assistance. I go through our software partner who communicates with the Red Hat team, and they communicate with Docker on CentOS or Kubernetes team to resolve issues.."

DongNguyen
Solution engineer at Vijatech

Read full review

Other Advice

"My advice to others looking into using Docker on CentOS is that if they want to containerize an application, make their deployment easy, avoid VM management overhead, and save costs, they can use Docker on CentOS. I would rate this product an 8 out of 10.."

Harshal Jethwa
Cloud Engineering and Automation Engineer at Configit

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"I would add that those are the features I mentioned by default, so I have no comments on networking, images, or resource management.

"My advice for others looking into using Docker on CentOS is just to install and use it. I give this review a rating of 9.."

Verified user
Senior DeevOps Engineer at a tech services company with 11-50 employees

Read full review

"My advice for others looking into using Docker on CentOS is that if your client or company requires an RHEL-based environment and needs Docker, you can set up Docker on CentOS servers easily for testing, and if a subscription-related task is needed, then consider switching to an RHEL subscription.

"I do not have any additional thoughts about Docker on CentOS. My overall review rating for Docker on CentOS is ten out of ten.."

AnilKumar13
Azure Dev Ops Engineer at a engineering company with 5,001-10,000 employees

Read full review

"The lightweight architecture on CentOS affects my resource utilization significantly. I have not really noted down specific metrics, but I realize that when it comes to disk space utilization, it really goes up so fast. We do on-premises deployment mainly with Docker on CentOS, so we have not explored the cloud aspect. Because it was first, we recently did it on Ubuntu, but initially, it was running on CentOS. We were comparing and seeing which one runs better, but I realized on Ubuntu it is much easier to work with. Mainly, the support we get is from online communities in case of any challenges, and there may be some people around who have more expertise in that area; that is how we have been managing. I gave this review an overall rating of seven out of ten.."

Boaz Katabazi
Network &Security Engineer at Natioanal Drug Authority Uganda

Read full review

"I would advise others looking into using Docker on CentOS that rather than using their services directly on the EC2 instances which costs higher and take more time to boot up, they should go with Docker containers, which are very fast, easy to

deploy, and manage, allowing many services to run on the same EC2 instance without dependencies. If a service needs Node.js version 7 and another needs Node.js version 10, there might be conflicts when running directly on EC2 instances, but with Docker containers, these issues do not arise. Moving to microservices like Docker is the best choice rather than directly installing on the EC2 instances. I have covered all the important areas regarding Docker on CentOS. My overall rating for Docker on CentOS is 9 out of 10.."

Hamza Sharif
Cloud Engineer at a consultancy with 11-50 employees

Read full review

"A quick specific example of how Docker on CentOS helped with my weather application proof of concept is that I was running a proof of concept to build a web app on CentOS on Docker on EC2 instances in AWS, but I realized quite quickly that CentOS actually became end-of-life in 2024, which led me to stop using it due to its deprecated state.

"Those features helped me specifically during my project by making it more stable since it used less resources, resulting in a cost-efficient deployment, as the machines that I deployed it on used less of the resources than I thought they needed.

"A lesson learned during that period that impacted my future decisions was to understand the development or deprecation timelines of all different types of software pieces in my stack and also to pay more attention to the organization's direction, as Red Hat was making it clear they wanted to switch away from CentOS 7 towards CentOS Stream.

"My advice to others looking into using Docker on CentOS is not to use it because it is deprecated; instead, they should opt for something that is actively being maintained, such as Ubuntu or Debian.

"I gave this review a rating of 7.."

Verified user
Cloud Ops Lead at a tech vendor with 10,001+ employees

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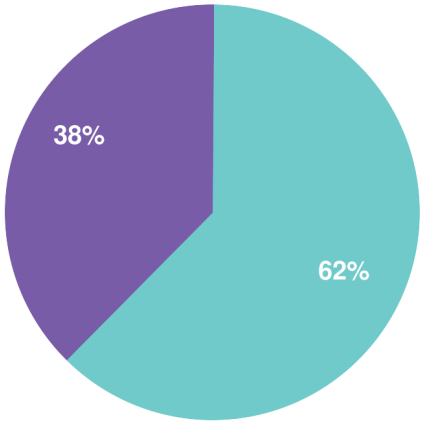
by reviewers



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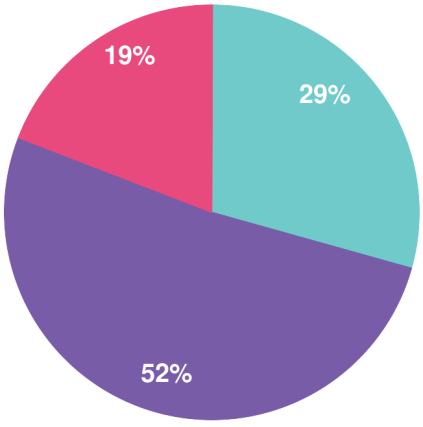

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