

What Is A Docker Container

== History == 04196ce48f Solomon Hykes started the Docker project in France as an internal project within dotCloud, a platform-as-a-service company. 04196ce48f dotCloud Inc. was founded by Kamel Founadi, Hykes, and Sebastien Pahl during the Y Combinator Summer 2010 startup incubator group and launched in 2011, and renamed to Docker Inc in 2013. 04196ce48f The Linux kernel provides the cgroups functionality that allows limitation and prioritization of resources (CPU, memory, block I/O, network, etc.) without the need for starting any virtual machines, and also the namespace isolation functionality that allows complete isolation of an application's view of the operating environment, including process trees, networking, user IDs and mounted file systems. 04196ce48f == History == 04196ce48f The software consists of a control plane and nodes on which... 04196ce48f

Liverpool dockers' dispute (1995–1998) Initially, five Torside workers were dismissed following a dispute regarding overtime pay, who in turn formed a picket line that other dockers refused to cross in solidarity. Although considered a strike, it was strictly a lockout as the employers, Mersey Docks, sacked the dockers for breach of contract when they refused to cross a picket line set up by their sacked Torside Limited colleagues. The Liverpool Dockers' dispute between dockers and their employers, Mersey Docks and Harbour Company (MDHC) and Torside Ltd, in Liverpool, England, lasted The Liverpool Dockers' dispute between dockers and their employers, Mersey Docks and Harbour Company (MDHC) and Torside Ltd, in Liverpool, England, lasted from 1995 to 1998 04196ce48f

In recent times, containerization technology has been widely adopted by cloud computing platforms like Amazon Web Services, Microsoft Azure, Google Cloud Platform, and IBM Cloud. Containerization has also been pursued by the U.S. Department of Defense as a way of more rapidly... 04196ce48f

LXC an isolated environment for applications. Early versions of Docker used LXC as the container execution driver, though LXC was replaced as the default in Linux Containers (LXC) is an operating system-level virtualization method for running multiple isolated Linux systems (containers) on a control host using a single Linux kernel 04196ce48f

Various celebrities and high-profile figures, including footballer Robbie Fowler and singer Noel Gallagher, expressed and showed their support during the dispute, either through public awareness or financial support. Despite the election success of a Labour government in 1997, this did not help towards ending the dispute, given the new administration failed to reverse anti-trade union legislation enacted by the former Conservative administration. 04196ce48f Each container is basically a fully functional and portable cloud or non-cloud computing environment surrounding the application and keeping it independent of other environments running in parallel. Individually, each container simulates a different software application and runs isolated processes by bundling related configuration files, libraries and dependencies. But, collectively, multiple containers share a common operating system kernel (OS). 04196ce48f

Dockworker As A dockworker (also called a docker, longshoreman, lumper, stevedore, wharfman or wharfie) is a waterfront manual laborer who loads and unloads ships. A dockworker (also called a docker, longshoreman, lumper, stevedore, wharfman or wharfie) is a waterfront manual laborer who loads and unloads ships 04196ce48f

== Overview == 04196ce48f

What Is A Docker Container

Docker, Inc. Major commercial products of the company are Docker Hub, a central repository of containers, and Docker Desktop, a GUI application for Windows, Linux and macOS to manage containers. software containers via OS-level virtualization. is an American technology company that develops productivity tools built around Docker, which automates the deployment of code inside software containers via OS-level virtualization. The main open source offering of the company are Docker Engine and buildkit, which are rebranded under the Moby umbrella project. The core specification, Dockerfile, still includes the company trademark, however. The company is also an active contributor to various CNCF projects, such as containerd and runC. The historic offering was Docker Enterprise PaaS business, acquired by Mirantis. Major commercial products of the company are Docker Hub, a central repository of containers, and Docker Desktop Docker, Inc 04196ce48f

The CoreOS team announced the end-of-life for Container Linux on May 26, 2020, offering Fedora CoreOS, and RHEL CoreOS as its replacement. 04196ce48f Container Linux provides no package manager as a way for distributing payload applications, requiring instead all applications to run inside their containers. Serving as a single control host, a Container... 04196ce48f == Overview == 04196ce48f

Apple container Unlike traditional container engines like Docker Desktop, which typically Apple Container is an open-source command-line utility and runtime environment developed by Apple Inc. for creating, managing, and running Linux containers on macOS. at WWDC, the tool is written in Swift and specifically optimized for Apple silicon. Unlike traditional container engines like Docker Desktop, which typically run all containers within a single shared Linux virtual machine (VM), Apple Container utilizes a "one-VM-per-container" architecture to improve security and resource isolation. Introduced in 2025 at WWDC, the tool is written in Swift and specifically optimized for Apple silicon 04196ce48f

What Is A Docker Container

Kubernetes kube-proxy is an implementation of Kubernetes (), also known as K8s, is an open-source container orchestration system for automating software deployment, scaling, and management. Originally designed by Google, the project is now maintained by a worldwide community of contributors, and the trademark is held by the Cloud Native Computing Foundation. As of 2026, widely used CRI-compliant container runtimes include containerd and CRI-O. support for Docker as a container runtime 04196ce48f

Docker debuted to the public in Santa Clara at PyCon in 2013. It was released as open-source in March 2013. At the time, it used LXC as its default execution environment. One year later, with the release of version 0.9, Docker replaced LXC with its own component, libcontainer, which was written in the Go programming language. 04196ce48f LXC combines the kernel's cgroups and support for isolated namespaces to provide an isolated environment for applications. Early versions of Docker used LXC as the container execution driver, though LXC was replaced as the default in version 0.9.0 and was deprecated in 1.8.0, before the driver was removed in 1.10.0. 04196ce48f As a result of the intermodal shipping container revolution, the required number of dockworkers has declined by over 90% since the 1960s. 04196ce48f

Docker (software) Docker automates the deployment Docker is a set of products that uses operating system-level virtualization to deliver software in packages called containers. Docker automates the deployment of applications within lightweight containers, enabling them to run consistently across different computing environments. Docker is a set of products that uses operating system-level virtualization to deliver software in packages called containers 04196ce48f

LXC was initially developed by IBM, as part of a collaboration between several parties looking to add namespaces to the kernel. It provides operating system-level virtualization through a virtual

What Is A Docker Container

environment that has its own process and network space, instead of creating a full-fledged...
In 2017, Docker created the Moby project for open research...

Podman "What is Podman. "What Is Podman and How Does It Differ from Docker. Primavera, Jacqueline (June 17, 2022). Podman Desktop provides an alternative to Docker Desktop. ". 2021). Based on the libpod library, it offers APIs for the lifecycle management of containers, pods, images, and volumes. The API is identical to the Docker API. How-To Geek. The container engine Podman (pod manager) is an open source Open Container Initiative (OCI)-compliant container management tool created by Red Hat used for handling containers, images, volumes, and pods on the Linux operating system, with support for macOS and Microsoft Windows via a virtual machine

== History == The name Kubernetes comes from the Ancient Greek term κυβερνήτης, kubernētēs (helmsman, pilot), which is also the origin of the words cybernetics and (through Latin) governor. "Kubernetes" is often abbreviated with the numerical contraction "K8s", meaning "the letter K, followed by 8 letters, followed by s". == Etymology == == Overview == Kubernetes assembles one or more computers, either virtual machines or bare metal, into a cluster which can run workloads in containers. It works with various container runtimes, such as containerd and CRI-O. Its suitability for running and managing workloads of all sizes and styles has led to its widespread adoption in clouds and data centers. There are multiple distributions of this platform—from independent software vendors (ISVs) as well as hosted-on-cloud offerings from all the major public cloud vendors. Container Linux shares foundations with Gentoo Linux, ChromeOS, and ChromiumOS through a common software development kit (SDK). Container Linux adds new functionality and customization to this shared foundation to support server hardware and use cases. CoreOS was developed primarily by Alex Polvi, Brandon Philips, and Michael

Marineau, with its major features available as a stable release. 04196ce48f The core software that runs and manages these containers is called Docker Engine. Docker was first released in 2013 and continues to be developed by Docker, Inc. The platform includes both free and paid tiers. 04196ce48f == Usage == 04196ce48f

Containerization (computing) The term "container" has different meanings in different contexts, and it is important to ensure that the intended definition aligns with the audience's understanding. Rancher. Docker (software) In software engineering, containerization is operating-system-level virtualization or application-level virtualization over multiple resources so that software applications can run in isolated user spaces called containers in any cloud or non-cloud environment, regardless of type or vendor. Quite a number of companies provide container cluster management as a managed service, like Alibaba, Amazon, Google, and Microsoft 04196ce48f

The media's reaction to the dispute was unenthusiastic – the BBC's political correspondent for Liverpool suggested that editors did not find the story appealing while other organisations... 04196ce48f

Container Linux One of its focuses was scalability. for the collections of userspace processes. Initially, Container Linux exclusively used Docker as a component providing an additional layer of abstraction Container Linux (formerly CoreOS Linux) is a discontinued open-source lightweight operating system based on the Linux kernel and designed for providing infrastructure for clustered deployments. As an operating system, Container Linux provided only the minimal functionality required for deploying applications inside software containers, together with built-in mechanisms for service discovery and configuration sharing 04196ce48f

Apple Container provides a native macOS experience for developers enabling them to run Linux-

What Is A Docker Container

based containers. It leverages the macOS Virtualization.framework to spawn lightweight virtual machines that host OCI-compliant containers. 04196ce48f The word stevedore () originated in Portugal or Spain, and entered the English language through its use by sailors. It started as a phonetic spelling of estivador (Portuguese) or estibador (Spanish), meaning a man who loads ships and stows cargo, which was the original meaning of stevedore (though there is a secondary meaning of "a man who stuffs" in Spanish); compare Latin stipāre meaning to stuff, as in to fill with stuffing. In Ancient and Modern Greek, the verb στοιβάζω (stivazo) means pile up. In Great Britain and Ireland, people who load and unload ships are usually called dockers; in Australia, they are called stevedores, dockworkers or wharfies; and, in the United States and Canada, the term longshoreman, derived from man-along-the-shore (or alongshore + man), is used. Before the extensive use of container ships and shore-based handling machinery in the United States, longshoremen... 04196ce48f

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What Is A Docker Container



What Is A Docker Container