Docker Hub search

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The Docker Hub search interface lets you explore millions of resources. To help you find exactly what you need, it offers a variety of filters that let you narrow your results or discover different types of content.

Filters

The search functionality includes filters to narrow down results based on your requirements, such as products, categories, trusted content, and publishers. This ensures that you can quickly find and access the resources best suited to your project.

Products

Docker Hub's content library features various products, each designed to meet specific needs of developers and organizations. These products include:

- Images
- Extensions
- Sandbox kits
- Helm charts
- Compose files
- AI models
- Docker Engine plugins

Images

Docker Hub hosts millions of container images, making it the go-to repository for containerized applications and solutions. These images include:

- Operating system images: Foundational images for Linux distributions like Ubuntu, Debian, and Alpine, or Windows Server images.
- Database and storage images: Pre-configured databases such as MySQL, PostgreSQL, and MongoDB to simplify application development.
- Languages and frameworks-based images: Popular images for Java, Python, Node.js, Ruby, .NET, and more, offering pre-built environments for faster development.

Images in Docker Hub simplify the development process by providing pre-built, reusable building blocks, reducing the need to start from scratch. Whether you're a beginner building your first container or an enterprise managing complex architectures, Docker Hub images provide a reliable foundation.

Extensions

Docker Hub offers extensions for Docker Desktop, which enhance its core functionality. These extensions are purpose-built to streamline the software development lifecycle. Extensions provide tools for:

- System optimization and monitoring: Manage resources and optimize Docker Desktop’s performance.
- Container management: Simplify container deployment and monitoring.
- Database management: Facilitate efficient database operations within containers.
- Kubernetes and cloud integration: Bridge local environments with cloud-native and Kubernetes workflows.
- Visualization tools: Gain insights into container resource usage through graphical representations.

Extensions help developers and teams create a more efficient and unified workflow by reducing context switching and bringing essential tools into Docker Desktop's interface.

To learn more about extensions, see Docker Extensions.

Sandbox kits

Docker Hub hosts kits for Docker Sandboxes, which run AI coding agents in isolated microVM sandboxes. A kit packages what an agent needs to run in a sandbox, such as its image, tools, credentials, network rules, and startup commands. In the v2 format, kits have two kinds:

- Sandbox: Defines a full agent from scratch, including its image and entrypoint.
- Mixin: Layers tools, credentials, or configuration onto an existing agent.

For these kits, see the v2 reference. The experimental v3 format uses workloads and mixins, and adds sets for publishing a composition as one kit. See the Kits overview for the v3 model and version compatibility.

Helm charts

Helm charts in Docker Hub provide a streamlined way to package, configure, and deploy Kubernetes applications. Helm is the package manager for Kubernetes, and charts are pre-configured templates that define the resources needed to run an application in a Kubernetes cluster. Docker Hub hosts a variety of Helm charts that provide:

- Application packaging: Bundle Kubernetes manifests, configurations, and dependencies into a single, reusable chart.
- Version management: Track and manage different versions of your application deployments.
- Configuration templating: Customize deployments with values files, making it easy to deploy the same application across different environments.
- Dependency management: Automatically handle chart dependencies, ensuring all required components are deployed together.

Helm charts reduce the complexity of Kubernetes deployments, making it easier for teams to deploy, upgrade, and manage applications in production environments.

Compose

Docker Compose files in Docker Hub enable multi-container application orchestration through simple YAML configuration files. Compose is a tool for defining and running multi-container Docker applications, and Docker Hub hosts Compose files that help you:

- Multi-container orchestration: Define and run applications consisting of multiple interconnected containers with a single command.
- Service configuration: Specify container images, environment variables, networks, volumes, and dependencies in a declarative format.

- Development and testing: Quickly spin up complete application stacks for local development, testing, or demonstration purposes.
- Environment consistency: Ensure consistent application behavior across development, staging, and production environments.

Compose files simplify the process of managing complex applications by providing a clear, version-controlled definition of your entire application stack.

AI models

Docker Hub hosts AI and machine learning models in containerized formats, making it easier to deploy, share, and run AI applications across different environments. These containerized AI models provide:

- Pre-trained models: Access ready-to-use machine learning models for common tasks such as image recognition, natural language processing, and predictive analytics.
- Model serving: Deploy models as containerized services that can be easily integrated into applications and scaled as needed.
- Reproducible environments: Package models with their dependencies, ensuring consistent behavior across development and production environments.
- Framework support: Find models built with popular frameworks like TensorFlow, PyTorch, scikit-learn, and others.

Containerized AI models remove the need to manage infrastructure dependencies, let you deploy models across different environments, and enable scaling as application demands change.

Plugins

Plugins in Docker Hub let you extend and customize Docker Engine to suit specialized requirements. Plugins integrate directly with the Docker Engine and provide capabilities such as:

- Network plugins: Enhance networking functionality, enabling integration with complex network infrastructures.
- Volume plugins: Provide advanced storage options, supporting persistent and distributed storage across various backends.
- Authorization plugins: Offer fine-grained access control to secure Docker environments.

By leveraging Docker plugins, teams can tailor Docker Engine to meet their specific operational needs, ensuring compatibility with existing infrastructures and workflows.

To learn more about plugins, see Docker Engine managed plugin system.

Trusted content

Docker Hub's trusted content provides a curated selection of high-quality, secure images designed to give developers confidence in the reliability and security of the resources they use. These images are stable, regularly updated, and adhere to industry best practices, making them a strong foundation for building and deploying applications. Docker Hub's trusted content includes, Docker Hardened Images, Docker Official Images, Verified Publisher images, and Docker-Sponsored Open Source Software images.

For more details, see Trusted content.

Publishers

The **Publishers** filter lets you narrow image results by the organization that published the image.

Publishers of trusted content appear first. Only a select number of publishers are shown.

Categories

Docker Hub makes it easy to find and explore container images with categories. Categories group images based on their primary use case, helping you quickly locate the tools and resources you need to build, deploy, and run your applications.

{{% include "hub-categories.md" %}}

Operating systems

The **Operating systems** filter lets you narrow your search to container images compatible with specific host operating systems. This filter ensures that the images you use align with your target environment, whether you're developing for Linux-based systems, Windows, or both.

- **Linux**: Access a wide range of images tailored for Linux environments. These images provide foundational environments for building and running Linux-based applications in containers.
- **Windows**: Explore Windows container images.

> [!NOTE]
>
> The **Operating systems** filter is only available for images. If you select the **Extensions** or **Plugins** filter, then the **Operating systems** filter isn't available.

Architectures

The **Architectures** filter lets you find images built to support specific CPU architectures. This ensures compatibility with your hardware environment, from development machines to production servers.

- **ARM**: Select images compatible with ARM processors, commonly used in IoT devices and embedded systems.
- **ARM 64**: Locate 64-bit ARM-compatible images for modern ARM processors, such as those in AWS Graviton or Apple Silicon.
- **IBM POWER**: Find images optimized for IBM Power Systems, offering performance and reliability for enterprise workloads.
- **PowerPC 64 LE**: Access images designed for the little-endian PowerPC 64-bit architecture.
- **IBM Z**: Discover images tailored for IBM Z mainframes, ensuring compatibility with enterprise-grade hardware.
- **x86**: Choose images compatible with 32-bit x86 architectures, suitable for older systems or lightweight environments.
- **x86-64**: Filter images for modern 64-bit x86 systems, widely used in desktops, servers, and cloud infrastructures.

> [!NOTE]
>
> The **Architectures** filter is only available for images. If you select the **Extensions** or **Plugins** filter, then the **Architectures** filter isn't available.

Reviewed by Docker

The **Reviewed by Docker** filter provides an extra layer of assurance when selecting extensions. This filter helps you identify whether a Docker Desktop extension has been reviewed by Docker for quality and reliability.

- **Reviewed**: Extensions that have undergone Docker's review process, ensuring they meet high standards.
- **Not Reviewed**: Extensions that have not been reviewed by Docker.

> [!NOTE]

> The **Reviewed by Docker** filter is only available for extensions. To make the filter available, you must select only the **Extensions** filter in **Products**.

Sandbox Kit type

The **Sandbox Kit type** filter lets you narrow sandbox kit results by kind.

- **Sandbox**: Kits that define a full agent from scratch.
- **Mixin**: Kits that layer onto an existing agent's sandbox.

> [!NOTE]
>
> The **Sandbox Kit type** filter is only available for sandbox kits. To make the filter available, you must select only the **Sandbox kits** filter in **Products**.

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