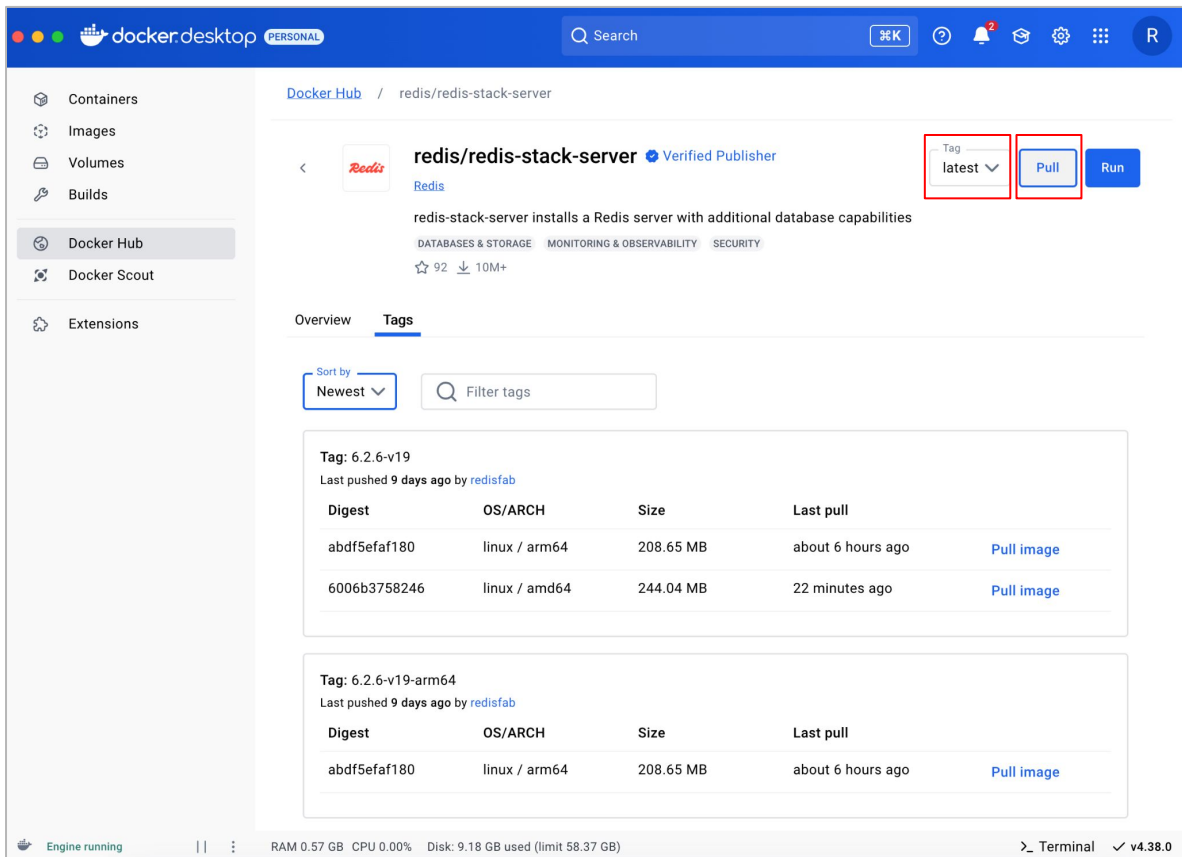


# CLI reference: docker pull redis/redis-stack-server:latest



The screenshot shows the Docker Desktop interface. On the left is a sidebar with navigation options: Containers, Images, Volumes, Builds, Docker Hub (selected), Docker Scout, and Extensions. The main area displays the Docker Hub page for the `redis/redis-stack-server` image, marked as a Verified Publisher. The 'latest' tag is selected in a dropdown menu, and the 'Pull' button is highlighted with a red box. Below this, the 'Tags' tab is active, showing a list of tags and their details. The 'Sort by' dropdown is set to 'Newest'. The table lists two tags: '6.2.6-v19' and '6.2.6-v19-arm64'. The '6.2.6-v19' tag has two entries for different architectures: 'linux / arm64' and 'linux / amd64'. The '6.2.6-v19-arm64' tag has one entry for 'linux / arm64'. Each entry shows the Digest, OS/ARCH, Size, and Last pull time, along with a 'Pull image' link.

**redis/redis-stack-server** Verified Publisher

redis-stack-server installs a Redis server with additional database capabilities

DATABASES & STORAGE MONITORING & OBSERVABILITY SECURITY

☆ 92 ↓ 10M+

Overview **Tags**

Sort by Newest Filter tags

**Tag: 6.2.6-v19**  
Last pushed 9 days ago by [redisfab](#)

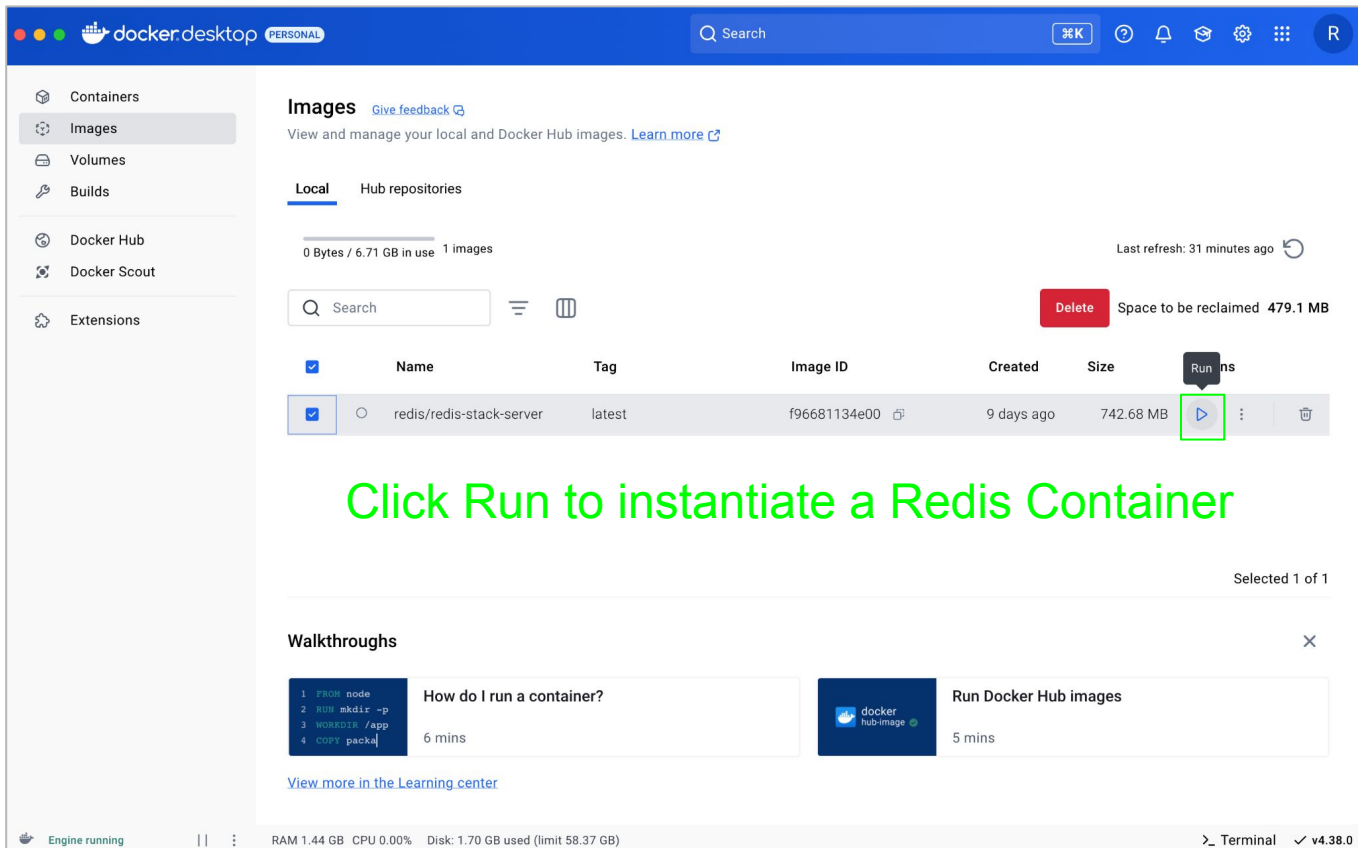
Digest	OS/ARCH	Size	Last pull
abdf5efaf180	linux / arm64	208.65 MB	about 6 hours ago <a href="#">Pull image</a>
6006b3758246	linux / amd64	244.04 MB	22 minutes ago <a href="#">Pull image</a>

**Tag: 6.2.6-v19-arm64**  
Last pushed 9 days ago by [redisfab](#)

Digest	OS/ARCH	Size	Last pull
abdf5efaf180	linux / arm64	208.65 MB	about 6 hours ago <a href="#">Pull image</a>

Engine running | RAM 0.57 GB CPU 0.00% Disk: 9.18 GB used (limit 58.37 GB) >\_ Terminal ✓ v4.38.0

CLI reference: `docker run -d --name redis-stack-server -p 6379:6379 redis/redis-stack-server:latest`



The screenshot shows the Docker Desktop application window. The left sidebar contains navigation options: Containers, Images (selected), Volumes, Builds, Docker Hub, Docker Scout, and Extensions. The main area is titled 'Images' and shows a list of local images. A table lists the image 'redis/redis-stack-server:latest' with details like Image ID, Created time, and Size. A green box highlights the 'Run' button (play icon) for this image. Below the table, there are 'Walkthroughs' for running containers and Docker Hub images.

**Images** [Give feedback](#)

View and manage your local and Docker Hub images. [Learn more](#)

**Local** Hub repositories

0 Bytes / 6.71 GB in use 1 images Last refresh: 31 minutes ago

Search

Delete Space to be reclaimed 479.1 MB

<input checked="" type="checkbox"/>	Name	Tag	Image ID	Created	Size	Run
<input checked="" type="checkbox"/>	redis/redis-stack-server	latest	f96681134e00	9 days ago	742.68 MB	

Selected 1 of 1

**Walkthroughs**

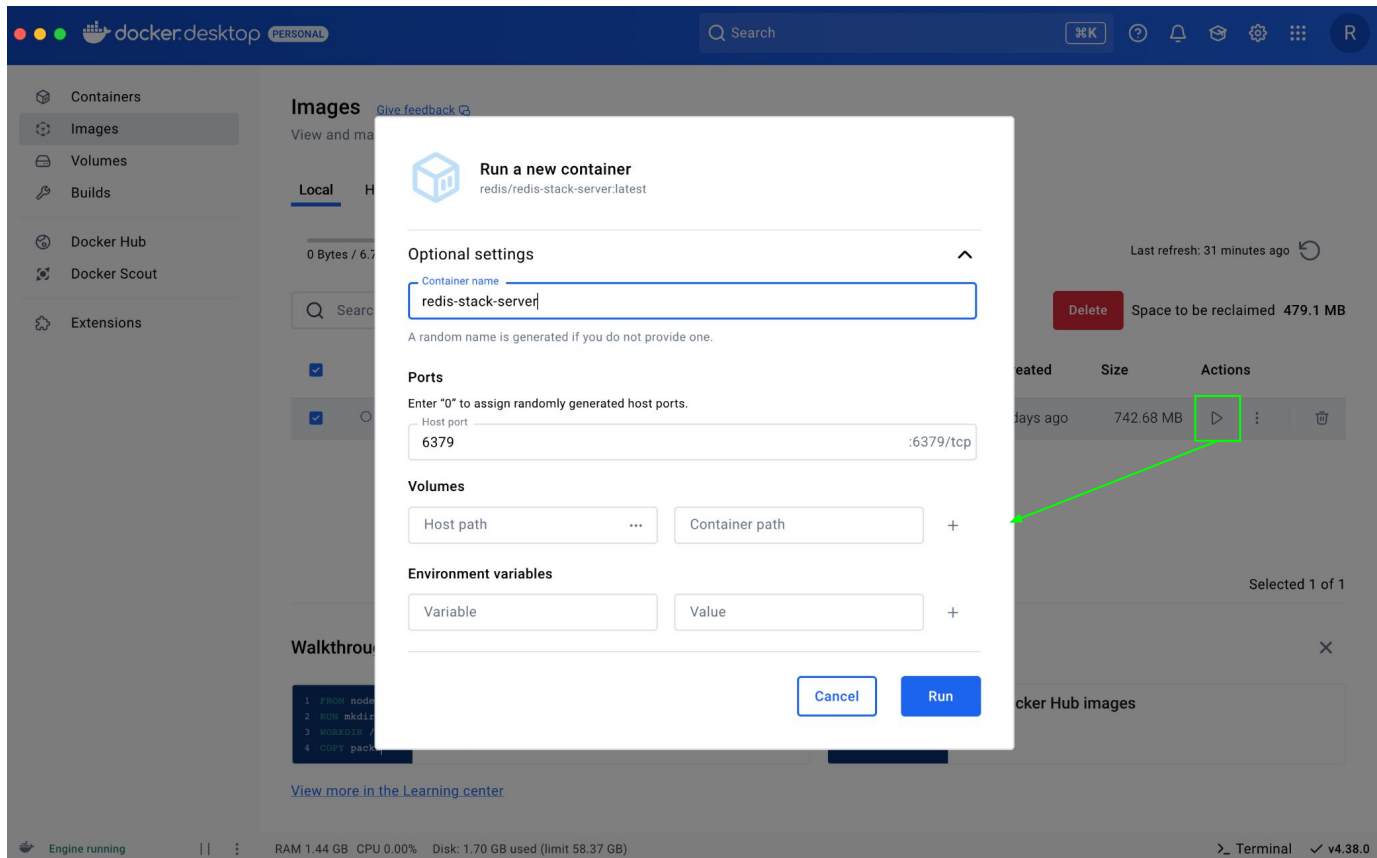
- How do I run a container?** 6 mins
- Run Docker Hub images** 5 mins

[View more in the Learning center](#)

Engine running RAM 1.44 GB CPU 0.00% Disk: 1.70 GB used (limit 58.37 GB) Terminal v4.38.0

Click Run to instantiate a Redis Container

CLI Reference: `docker run -d --name redis-stack-server -p 6379:6379 redis/redis-stack-server:latest`



# CLI Reference: docker run -d --name redis-stack-server -p 6379:6379 redis/redis-stack-server:latest

The screenshot shows the Docker Desktop interface. On the left is a sidebar with navigation options: Containers, Images, Volumes, Builds, Docker Hub, Docker Scout, and Extensions. The main area displays the 'redis-stack-server' container, which is running. The container ID is 'b03c6ae2940d' and it is using the 'redis/redis-stack-server:latest' image. The status is 'Running (0 seconds ago)'. Below this, there are tabs for Logs, Inspect, Bind mounts, Exec, Files, and Stats. The 'Logs' tab is selected, showing a list of log entries. The logs indicate the server is starting up, loading modules like 'timeseries', 'ReJSON', and 'RedisJSON', and finally reaching a state where it is 'Ready to accept connections tcp'. The bottom of the interface shows system metrics: Engine running, RAM 1.46 GB, CPU 0.09%, and Disk 1.70 GB used (limit 58.37 GB). There is also a terminal icon and version information 'v4.38.0'.

Containers / redis-stack-server

**redis-stack-server**

< b03c6ae2940d [redis/redis-stack-server:latest](#)

6379:6379

**STATUS**  
Running (0 seconds ago)

**Logs** Inspect Bind mounts Exec Files Stats

```
2025-02-19 22:39:21 8:M 19 Feb 2025 14:39:21.692 * <timeseries> loaded default IGNORE_MAX_VAL_DIFF: 0.000000
2025-02-19 22:39:21 8:M 19 Feb 2025 14:39:21.692 * <timeseries> Setting default series ENCODING to: compressed
2025-02-19 22:39:21 8:M 19 Feb 2025 14:39:21.692 * <timeseries> Detected redis oss
2025-02-19 22:39:21 8:M 19 Feb 2025 14:39:21.692 * Module 'timeseries' loaded from /opt/redis-stack/lib/redistimeseries.so
2025-02-19 22:39:21 8:M 19 Feb 2025 14:39:21.693 * <ReJSON> Created new data type 'ReJSON-RL'
2025-02-19 22:39:21 8:M 19 Feb 2025 14:39:21.693 # <ReJSON> Skip register defrag callbacks as defrag callbacks is not supported on the current Redis server.
2025-02-19 22:39:21 8:M 19 Feb 2025 14:39:21.693 * <ReJSON> version: 20808 git sha: unknown branch: unknown
2025-02-19 22:39:21 8:M 19 Feb 2025 14:39:21.694 * <ReJSON> Exported RedisJSON_V1 API
2025-02-19 22:39:21 8:M 19 Feb 2025 14:39:21.694 * <ReJSON> Exported RedisJSON_V2 API
2025-02-19 22:39:21 8:M 19 Feb 2025 14:39:21.694 * <ReJSON> Exported RedisJSON_V3 API
2025-02-19 22:39:21 8:M 19 Feb 2025 14:39:21.694 * <ReJSON> Exported RedisJSON_V4 API
2025-02-19 22:39:21 8:M 19 Feb 2025 14:39:21.694 * <ReJSON> Exported RedisJSON_V5 API
2025-02-19 22:39:21 8:M 19 Feb 2025 14:39:21.694 * <ReJSON> Enabled diskless replication
2025-02-19 22:39:21 8:M 19 Feb 2025 14:39:21.694 * <ReJSON> Initialized shared string cache, thread safe: false.
2025-02-19 22:39:21 8:M 19 Feb 2025 14:39:21.694 * Module 'ReJSON' loaded from /opt/redis-stack/lib/rejson.so
2025-02-19 22:39:21 8:M 19 Feb 2025 14:39:21.694 * <search> Acquired RedisJSON_V5 API
2025-02-19 22:39:21 8:M 19 Feb 2025 14:39:21.694 * <bf> RedisBloom version 2.8.5 (Git=unknown)
2025-02-19 22:39:21 8:M 19 Feb 2025 14:39:21.694 * Module 'bf' loaded from /opt/redis-stack/lib/redisbloom.so
2025-02-19 22:39:21 8:M 19 Feb 2025 14:39:21.697 * <redigears_2> Created new data type 'GearsType'
2025-02-19 22:39:21 8:M 19 Feb 2025 14:39:21.698 * <redigears_2> Detected redis oss
2025-02-19 22:39:21 8:M 19 Feb 2025 14:39:21.699 # <redigears_2> could not initialize RedisAI_InitError
2025-02-19 22:39:21 8:M 19 Feb 2025 14:39:21.699 * <redigears_2> Failed loading RedisAI API.
2025-02-19 22:39:21 8:M 19 Feb 2025 14:39:21.699 * <redigears_2> RedisGears v2.0.20, sha='9b737886bf825fe29ddc2f8da81f73cbe0b4e858', build_type='release', built_for='Linux-ubuntu22.04.aarch64', redis_version:'7.4.2', enterprise:'false'.
2025-02-19 22:39:21 8:M 19 Feb 2025 14:39:21.704 * <redigears_2> Registered backend: js.
2025-02-19 22:39:21 8:M 19 Feb 2025 14:39:21.706 * Module 'redigears_2' loaded from /opt/redis-stack/lib/redigears.so
2025-02-19 22:39:21 8:M 19 Feb 2025 14:39:21.706 * Server initialized
2025-02-19 22:39:21 8:M 19 Feb 2025 14:39:21.706 * Ready to accept connections tcp
```

Engine running || : RAM 1.46 GB CPU 0.09% Disk: 1.70 GB used (limit 58.37 GB)

Terminal v4.38.0

docker desktop

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Containers

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Container CPU usage ⓘ

0.21% / 1100% (11 CPUs available)

Container memory usage ⓘ

5.15MB / 7.47GB

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Only show running containers

	Name	Container ID	Image	Port(s)	CPU (%)	Last started	Actions
<input type="checkbox"/>	<div><div></div>redis-stack-server</div>	b03c6ae2940d	<a href="#">redis/redis-stack-s</a>	<a href="#">6379:6379</a>	0.21%	2 minutes ago	<div><div></div><div>⋮</div><div>🗑️</div></div>

Showing 1 item

Engine running

RAM 1.46 GB CPU 0.00% Disk: 1.70 GB used (limit 58.37 GB)

Terminal

✓ v4.38.0

Redis Container is Up & Running

(pds) rsam@macbook ~ % conda install redis << Install Python module for Redis

```
import redis
```

```
r = redis.Redis(  
    host='localhost',  
    port=6379  
)
```

<< Change to localhost or 127.0.0.1

[7] ✓ 0.0s

Python

A Redis database holds **key:value pairs** and supports commands such as GET, SET, and DEL, as well as several hundred additional commands.

- Redis keys are always strings.
- Redis values may be a number of different data types. Some of the more essential value data types are- string, list, hashes, and sets. Some advanced types include geospatial items and stream.

Many Redis commands operate in constant  $O(1)$  time, just like retrieving a value from a Python dict or any hash table.

Let's create a new key called **'name'** with the value **'Aaron'**.

```
r.set('name', 'Aaron')
```

<< Execute the cell

[8] ✓ 0.0s

Python

... True

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Container CPU usage ⓘ

0.21% / 1100% (11 CPUs available)

Container memory usage ⓘ

5.13MB / 7.47GB

Show charts

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Only show running containers

	Name	Container ID	Image	Port(s)	CPU (%)	Last started	Stop	Actions
<input type="checkbox"/>	redis-stack-server	eb8c3785cad	<a href="#">redis/redis-stack-s</a>	<a href="#">6379:6379</a>	0.21%	14 minutes ago	<div></div>	<div></div>

Showing 1 item

Engine running

RAM 1.46 GB CPU 0.09% Disk: 1.70 GB used (limit 58.37 GB)

Terminal

v4.38.0

Stop running Redis Container

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Containers

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Container CPU usage ⓘ  
No containers are running.

Container memory usage ⓘ  
No containers are running.

Show charts

Q Search

☰

Only show running containers

	Name	Container ID	Image	Port(s)	CPU (%)	Last started	Actions	Delete
<input type="checkbox"/>	<input type="radio"/> redis-stack-server	eb8c3785cadc	<a href="#">redis/redis-stack-s</a>	6379:6379	N/A	16 minutes ago		

Showing 1 item

🐳 Engine running

RAM 1.44 GB CPU 0.00% Disk: 1.70 GB used (limit 58.37 GB)

>\_ Terminal

✓ v4.38.0

Delete stopped Redis Container