

# readme.md for @host.today/ht-docker-tools

## ☐ ht-docker-tools

**Production-ready Docker images for MongoDB, MinIO, ClickHouse, Caddy, and Redis — supercharged with Deno and Node.js runtimes.**

These images let you run your favorite infrastructure tools alongside modern JavaScript/TypeScript tooling. Whether you need to script database migrations, automate object storage, or run custom health checks — you're covered.

## Issue Reporting and Security

For reporting bugs, issues, or security vulnerabilities, please visit [community.foss.global/](https://community.foss.global/). This is the central community hub for all issue reporting. Developers who sign and comply with our contribution agreement and go through identification can also get a [code.foss.global/](https://code.foss.global/) account to submit Pull Requests directly.

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## ☐ Why ht-docker-tools?

- **Scripting-Ready:** Every image includes Deno for running TypeScript scripts directly in containers
  - **Two Flavors:** Choose official base images (minimal changes) or Alpine images (lightweight with full Node.js/NVM support)
  - **Multi-Arch:** Full support for `linux/amd64` and `linux/arm64` (Apple Silicon friendly)
  - **CI/CD Optimized:** NVM works out of the box in GitHub Actions, GitLab CI, and any `docker exec bash -c` workflow
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# ☐ Available Images

## Official Base Images

Extend official Docker images with Deno runtime. Ideal for production with existing configurations.

Image	Base	What's Added
<code>ht-docker-tools:clickhouse</code>	<code>clickhouse/clickhouse-server</code>	+ Deno
<code>ht-docker-tools:mongodb</code>	<code>mongo:latest</code>	+ Deno
<code>ht-docker-tools:minio</code>	<code>minio/minio:latest</code>	+ Deno
<code>ht-docker-tools:caddy</code>	<code>caddy:latest</code>	+ Deno
<code>ht-docker-tools:redis</code>	<code>redis:latest</code>	+ Deno

## Alpine Images ⚡

Lightweight Alpine-based images with the full stack. Perfect for CI/CD and development.

Image	Includes	Approx. Size
<code>ht-docker-tools:clickhouse-alpine</code>	ClickHouse + NVM + Node.js 20 + Deno	~250MB
<code>ht-docker-tools:mongodb-alpine</code>	MongoDB + NVM + Node.js 20 + Deno	~200MB
<code>ht-docker-tools:minio-alpine</code>	MinIO + NVM + Node.js 20 + Deno	~200MB
<code>ht-docker-tools:caddy-alpine</code>	Caddy + NVM + Node.js 20 + Deno	~200MB
<code>ht-docker-tools:redis-alpine</code>	Redis + NVM + Node.js 20 + Deno	~200MB

# ☐ Quick Start

## Pull from Registry

```
# Official base images
docker pull code.foss.global/host.today/ht-docker-tools:mongodb
```

```
docker pull code.foss.global/host.today/ht-docker-tools:redis

# Alpine images (recommended for most use cases)
docker pull code.foss.global/host.today/ht-docker-tools:mongodb-alpine
docker pull code.foss.global/host.today/ht-docker-tools:redis-alpine
```

## Run with Deno Scripts

```
# Start MongoDB
docker run -d --name mongo code.foss.global/host.today/ht-docker-tools:mongodb

# Execute a Deno script inside the container
docker exec mongo deno run --allow-net --allow-read script.ts
```

## Use Node.js with NVM (Alpine Images)

```
# Start Redis Alpine
docker run -d --name redis code.foss.global/host.today/ht-docker-tools:redis-alpine

# Check Node version
docker exec redis bash -c "node --version"
# v20.18.2

# Switch Node versions on the fly
docker exec redis bash -c "nvm install 18 && nvm use 18 && node --version"
# v18.x.x
```

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## Docker Compose Example

```
services:
  mongodb:
    image: code.foss.global/host.today/ht-docker-tools:mongodb-alpine
    ports:
      - "27017:27017"
    volumes:
```

- mongodb\_data:/data/db

command: mongod

redis:

image: code.foss.global/host.today/ht-docker-tools:redis-alpine

ports:

- "6379:6379"

volumes:

- redis\_data:/data

command: redis-server

minio:

image: code.foss.global/host.today/ht-docker-tools:minio-alpine

ports:

- "9000:9000"

- "9001:9001"

environment:

MINIO\_ROOT\_USER: minioadmin

MINIO\_ROOT\_PASSWORD: minioadmin

volumes:

- minio\_data:/data

command: minio server /data --console-address ":9001"

caddy:

image: code.foss.global/host.today/ht-docker-tools:caddy-alpine

ports:

- "80:80"

- "443:443"

volumes:

- ./Caddyfile:/etc/caddy/Caddyfile

- caddy\_data:/data

- caddy\_config:/config

volumes:

mongodb\_data:

redis\_data:

minio\_data:

caddy\_data:

caddy\_config:

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# ☐ NVM in Docker — It Just Works™

NVM is notoriously tricky in Docker because it's a bash function, not a binary. These Alpine images solve this with a smart entrypoint that handles three contexts:

Context	How It Works
<b>Dockerfile RUN</b>	Custom shell wrapper loads NVM before each command
<b>CI/CD</b> <code>bash -c</code>	Entrypoint detects and injects bashrc sourcing
<b>Interactive shells</b>	Standard bashrc initialization

```
# Works in CI/CD pipelines
docker exec mycontainer bash -c "nvm use 18 && npm install && npm test"

# Works in Dockerfiles
FROM code.foss.global/host.today/ht-docker-tools:mongodb-alpine
RUN nvm install 18 && npm install -g typescript
```

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## ☐ Building Locally

```
# Clone the repository
git clone https://code.foss.global/host.today/ht-docker-tools.git
cd ht-docker-tools

# Build all images (native architecture)
./build-images.sh

# Test all images
./test-images.sh
```

## Multi-Architecture Builds

For CI/CD pipelines pushing to registries:

```
docker buildx build \
  --platform linux/amd64,linux/arm64 \
  -f Dockerfile_mongodb_alpine \
  -t code.foss.global/host.today/ht-docker-tools:mongodb-alpine \
  --push .
```

## ☐ Bundled Versions

Component	Version
NVM	v0.40.1
Node.js LTS	v20.18.2
Deno	Latest (from Alpine edge/community)

Alpine images use `unofficial-builds.nodejs.org` for musl-compatible Node.js binaries.

## ☐ Use Cases

- **Database Migrations:** Run TypeScript migration scripts directly in your DB container
- **Health Checks:** Write sophisticated health probes in Deno
- **Scripted Backups:** Automate backup tasks with Node.js scripts
- **CI/CD Integration:** Execute tests that need both database and runtime
- **Local Development:** Single container with everything you need

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# Company Information

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For any legal inquiries or if you require further information, please contact us via email at [hello@task.vc](mailto:hello@task.vc).

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Revision #4

Created 2026-03-28 11:09:27 UTC by foss.global Team

Updated 2026-03-28 12:15:39 UTC by foss.global Team