

Docker application documentation

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#NOTE:

My laptop does not support directly so various other softwares were downloaded to help docker to run in my os

the application that had to be installed were homebrew, Colima, qemu they help run the docker files on the old intel mac os

Installation and configurations:

```

● ● ● ● sujith10x — ruby -W1 --disable=gems,rubyopt /usr/local/Homebrew/Library/Homebrew/brew.rb install qemu + clang — 134x43
Last login: Thu Nov  6 15:36:58 on ttys005
(base) sujith10x@apples-MacBook-Pro ~ % /bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"

==> Checking for `sudo` access (which may request your password)...
Password:
==> You are using macOS 12.7.
==> We (and Apple) do not provide support for this old version.
This installation may not succeed.
After installation, you will encounter build failures with some formulae.
Please create pull requests instead of asking for help on Homebrew's GitHub,
Twitter or any other official channels. You are responsible for resolving any
issues you experience while you are running this old version.

==> This script will install:
/usr/local/bin/brew
/usr/local/share/doc/homebrew
/usr/local/share/man/man1/brew.1
/usr/local/share/zsh/site-functions/_brew
/usr/local/etc/bash_completion.d/brew
/usr/local/Homebrew

Press RETURN/ENTER to continue or any other key to abort:
==> /usr/bin/sudo /usr/sbin/chown -R sujith10x:admin /usr/local/Homebrew
==> Downloading and installing Homebrew...
remote: Enumerating objects: 12, done.
remote: Counting objects: 100% (6/6), done.
remote: Total 12 (delta 5), reused 5 (delta 5), pack-reused 6 (from 2)
==> Updating Homebrew...
==> Installation successful!

==> Homebrew has enabled anonymous aggregate formulae and cask analytics.
Read the analytics documentation (and how to opt-out) here:
https://docs.brew.sh/Analytics
No analytics data has been sent yet (nor will any be during this install run).

==> Homebrew is run entirely by unpaid volunteers. Please consider donating:
https://github.com/Homebrew/brew#donations

==> Next steps:
- Run brew help to get started
- Further documentation:
https://docs.brew.sh
```

```

● ● ● ● sujith10x — ruby -W1 --disable=gems,rubyopt /usr/local/Homebrew/Library/Homebrew/brew.rb install qemu + clang — 134x43
https://docs.brew.sh

(base) sujith10x@apples-MacBook-Pro ~ % brew install colima docker

Warning: You are using macOS 12.
We (and Apple) do not provide support for this old version.

This is a Tier 3 configuration:
https://docs.brew.sh/Support-Tiers#tier-3
You can report Tier 3 unrelated issues to Homebrew/* repositories!
Read the above document before opening any issues or PRs.

==> Fetching downloads for: colima and docker
==> Fetching dependencies for colima: go and lima
==> Fetching go
==> Downloading https://storage.googleapis.com/golang/go1.22.12.darwin-amd64.tar
Already downloaded: /Users/sujith10x/Library/Caches/Homebrew/downloads/5fe8db986855082fcc876bdccc04211c79fa2cb81b08064dfa8a39afd6e834a
7--go1.22.12.darwin-amd64.tar.gz
==> Downloading https://go.dev/dl/go1.25.4.src.tar.gz
Already downloaded: /Users/sujith10x/Library/Caches/Homebrew/downloads/e852cf46186ccd7abf0a2fe68343a8130986e228ef60ce60210320581dc70cc
2--go1.25.4.src.tar.gz
==> Fetching lima
==> Downloading https://github.com/lima-vm/lima/archive/refs/tags/v1.2.1.tar.gz
Already downloaded: /Users/sujith10x/Library/Caches/Homebrew/downloads/792a3d8d51703ccaa5ecb99e6574bc78ae74b6e0ee70d3d397bab3b57454633
5--lima-1.2.1.tar.gz
==> Fetching colima
==> Cloning https://github.com/abiosoft/colima.git
Updating /Users/sujith10x/Library/Caches/Homebrew/colima--git
==> Checking out tag v0.9.1
HEAD is now at 0cbf719 k3s: customizable listen port (#1419)
HEAD is now at 0cbf719 k3s: customizable listen port (#1419)
==> Fetching dependencies for docker: docker-completion, go and go-md2man
==> Downloading https://ghcr.io/v2/homebrew/core/docker-completion/manifests/28.
Already downloaded: /Users/sujith10x/Library/Caches/Homebrew/downloads/a745dba956b8c758ac098719436bc4676609973bfeb645c542d112bcfc81f1c
9--docker-completion-28.5.2.bottle.manifest.json
==> Fetching docker-completion
==> Downloading https://ghcr.io/v2/homebrew/core/docker-completion/blobs/sha256:
Already downloaded: /Users/sujith10x/Library/Caches/Homebrew/downloads/6731fbcae0771772882ef6d93aa1a69adebe3fb967465d263397fd38bfff135
a--docker-completion--28.5.2.all.bottle.tar.gz
==> Fetching go-md2man
==> Downloading https://github.com/cpuguy83/go-md2man/archive/refs/tags/v2.0.7.t
Already downloaded: /Users/sujith10x/Library/Caches/Homebrew/downloads/ea03abaa309d222d15817952fe9ce8c7baf67f87e546db6265113218bd08027
d--go-md2man-2.0.7.tar.gz
```

```

sujith10x — ruby -W1 --disable=gems,rubyopt /usr/local/Homebrew/Library/Homebrew/brew.rb install qemu -ld -- 134x43
=> Cloning https://github.com/docker/cli.git
Updating /Users/sujith10x/Library/Caches/Homebrew/docker--git
From https://github.com/docker/cli
* [new tag] v28.5.2 -> v28.5.2
=> Checking out tag v28.5.2
HEAD is now at ecc694264d Merge pull request #6621 from thaJeztah/28.x_plugin_hide
HEAD is now at ecc694264d Merge pull request #6621 from thaJeztah/28.x_plugin_hide
=> Installing dependencies for colima: go and lima
=> Installing colima dependency: go
=> ./make.bash
D /usr/local/Cellar/go/1.25.4: 14,439 files, 197.2MB, built in 4 minutes 38 seconds
=> Installing colima dependency: lima
=> make native VERSION=1.2.1
Warning: Tried to install empty array to /usr/local/Cellar/lima/1.2.1/libexec
D /usr/local/Cellar/lima/1.2.1: 104 files, 42.8MB, built in 86 minutes 19 seconds
=> Installing colima
go build -ldflags=-s -w -X github.com/abiosoft/colima/config.appVersion=0.9.1 -X github.com/abiosof
=> Caveats
To start colima now and restart at login:
brew services start colima
Or, if you don't want/need a background service you can just run:
/usr/local/opt/colima/bin/colima start -f
=> Summary
D /usr/local/Cellar/colima/0.9.1: 11 files, 6.3MB, built in 33 seconds
=> Running 'brew cleanup colima'...
Disable this behaviour by setting 'HOMEBREW_NO_INSTALL_CLEANUP=1'.
Hide these hints with 'HOMEBREW_NO_ENV_HINTS=1' (see 'man brew').
=> Installing dependencies for docker: go-md2man and docker-completion
=> Installing docker dependency: go-md2man
go build -ldflags=-s -w
D /usr/local/Cellar/go-md2man/2.0.7/bin/go-md2man -in=go-md2man.1.md -out=go-md2man.1
D /usr/local/Cellar/go-md2man/2.0.7: 7 files, 2.3MB, built in 4 seconds
=> Installing docker dependency: docker-completion
D /usr/local/Cellar/docker-completion/28.5.2: 1 file, 1.2KB, built in 0 seconds
=> Downloading https://ghcr.io/v2/homebrew/core/docker-completion/manifests/28
Already downloaded: /Users/sujith10x/Library/Caches/Homebrew/downloads/a745dba956b8c758ac098719436bc467669973bfeb645c542d112bcfc81f1c
9-docker-completion-28.5.2.bottle.manifest.json
=> Pouring docker-completion--28.5.2.all.bottle.tar.gz
D /usr/local/Cellar/docker-completion/28.5.2: 10 files, 342.9KB
=> Installing docker
go build -ldflags=-s -w -X github.com/docker/cli/cli/version.BuildTime=2025-11-05T16:32:31Z -X gith
go-md2man -in=man/Dockerfile.5.md -out=/usr/local/Cellar/docker/28.5.2/share/man/man5/Dockerfile.5
go-md2man -in=man/Dockerfile.5.md -out=/usr/local/Cellar/docker/28.5.2/share/man/man5/docker-buil
go-md2man -in=man/docker-config.json.5.md -out=/usr/local/Cellar/docker/28.5.2/share/man/man5/docke

```

```

sujith10x — ruby -W1 --disable=gems,rubyopt /usr/local/Homebrew/Library/Homebrew/brew.rb install qemu -ld -- 134x43
=> Fetching downloads for: qemu
=> Downloading https://raw.githubusercontent.com/Homebrew/homebrew-core/adc1c883524caa4069c51c4519bf4
##### 100.0%
=> Fetching dependencies for qemu: libunistring, gettext, capstone, pkgconf, dtc, pcre2, bison, ninja, mpdecimal, ca-certificates, op
##### 100.0%
=> Fetching libunistring
=> Downloading https://ftpmirror.gnu.org/gnu/libunistring/libunistring-1.4.1.tar.gz
=> Downloading from https://ftp.wayne.edu/gnu/libunistring/libunistring-1.4.1.tar.gz
##### 100.0%
=> Downloading https://raw.githubusercontent.com/Homebrew/homebrew-core/adc1c883524caa4069c51c4519bf4
##### 100.0%
=> Fetching gettext
=> Downloading https://ftpmirror.gnu.org/gnu/gettext/gettext-0.26.tar.gz
=> Downloading from https://mirrors.ocf.berkeley.edu/gnu/gettext/gettext-0.26.tar.gz
##### 100.0%
=> Downloading https://raw.githubusercontent.com/Homebrew/homebrew-core/adc1c883524caa4069c51c4519bf4
##### 100.0%
=> Fetching capstone
=> Downloading https://github.com/capstone-engine/capstone/archive/refs/tags/5.0.6.tar.gz
=> Downloading from https://codeload.github.com/capstone-engine/capstone/tar.gz/refs/tags/5.0.6
##### 100.0%
=> Fetching pkgconf
=> Downloading https://distfiles.ariadne.space/pkgconf/pkgconf-2.5.1.tar.xz
##### 100.0%
=> Downloading https://raw.githubusercontent.com/Homebrew/homebrew-core/adc1c883524caa4069c51c4519bf4
##### 100.0%
=> Fetching dtc
=> Downloading https://mirrors.edge.kernel.org/pub/software/utils/dtc/dtc-1.7.2.tar.xz
##### 100.0%
=> Downloading https://raw.githubusercontent.com/Homebrew/homebrew-core/adc1c883524caa4069c51c4519bf4
##### 100.0%
=> Fetching pcre2
=> Downloading https://github.com/PCRE2Project/pcre2/releases/download/pcre2-10.47/pcre2-10.47.tar.bz2
=> Downloading from https://release-assets.githubusercontent.com/github-production-release-asset/39825
##### 100.0%
=> Downloading https://ghcr.io/v2/homebrew/core/bison/manifests/3.8.2
##### 100.0%

```

```

sujith10x — ruby -W1 --disable=gems,rubyopt /usr/local/Homebrew/Library/Homebrew/brew.rb install qemu -ld -- 134x43
=> Downloading https://ghcr.io/v2/homebrew/core/bison/manifests/3.8.2
##### 100.0%
=> Fetching bison
=> Downloading https://ghcr.io/v2/homebrew/core/bison/blobs/sha256:feb2484b98a08e8fb2088f4c8ff39842bfff
##### 100.0%
=> Downloading https://raw.githubusercontent.com/Homebrew/homebrew-core/adc1c883524caa4069c51c4519bf4
##### 100.0%
=> Fetching ninja
=> Downloading https://github.com/ninja-build/ninja/archive/refs/tags/v1.13.1.tar.gz
=> Downloading from https://codeload.github.com/ninja-build/ninja/tar.gz/refs/tags/v1.13.1
##### 100.0%
=> Fetching mpdecimal
=> Downloading https://www.bytereef.org/software/mpdecimal/releases/mpdecimal-4.0.1.tar.gz
##### 100.0%
=> Fetching ca-certificates
=> Downloading https://ghcr.io/v2/homebrew/core/ca-certificates/blobs/sha256:c414336ff5228d77124debb49
##### 100.0%
=> Downloading https://raw.githubusercontent.com/Homebrew/homebrew-core/adc1c883524caa4069c51c4519bf4
##### 100.0%
=> Fetching openssl03
=> Downloading https://github.com/openssl/openssl/releases/download/openssl-3.6.0/openssl-3.6.0.tar.gz
=> Downloading from https://release-assets.githubusercontent.com/github-production-release-asset/76346
##### 100.0%
=> Downloading https://raw.githubusercontent.com/Homebrew/homebrew-core/adc1c883524caa4069c51c4519bf4
##### 100.0%
=> Fetching readline
=> Downloading https://ftpmirror.gnu.org/gnu/readline/readline-8.3-patches/readline83-801
=> Downloading from https://mirrors.constant.com/readline/readline-8.3-patches/readline83-801
##### 100.0%
=> Downloading https://ftpmirror.gnu.org/gnu/readline/readline-8.3.tar.gz
=> Downloading from https://mirror.cs.odu.edu/gnu/readline/readline-8.3.tar.gz
##### 100.0%
=> Downloading https://raw.githubusercontent.com/Homebrew/homebrew-core/adc1c883524caa4069c51c4519bf4
##### 100.0%
=> Fetching sqlite
=> Downloading https://sqlite.org/2025/sqlite-autoconf-3510000.tar.gz
##### 100.0%
=> Downloading https://raw.githubusercontent.com/Homebrew/homebrew-core/adc1c883524caa4069c51c4519bf4
##### 100.0%

```

```

sujith10x — ruby -W1 --disable=gems,rubyopt /usr/local/Homebrew/Library/Homebrew/brew.rb install qemu > ld — 134x43
##### 100.0%
=> Installing qemu dependency: lzip
=> ./configure CXX=clang++ CXXFLAGS=
=> make check
=> make install
📦 /usr/local/Cellar/lzip/1.25: 11 files, 234.2KB, built in 10 seconds
=> Fetching dependencies for qemu: libunistring, gettext, capstone, pkgconf, dtc, pcre2, ninja, mpdecimal, openssl@3, readline, sqlite, xz, cmake, zstd, expat, python@3.14, glib, libidn2, libtasn1, nettle, p11-kit, libnghttp2, unbound, gnutls, nasm, jpeg-turbo, libpng, libslirp, libssh, libusb, pixman, snappy, m4 and libtool
=> Fetching qemu
=> Downloading https://download.qemu.org/qemu-10.1.2.tar.xz
##### 100.0%
=> Installing dependencies for qemu: m4, libtool, ninja, mpdecimal, ca-certificates, openssl@3, readline, sqlite, xz, lz4, cmake, zstd, pkgconf, expat, python@3.14, meson, spice-protocol, libunistring, gettext, capstone, dtc, pcre2, bison, python-setuptools, glib, gmp, libidn2, libtasn1, nettle, p11-kit, libevent, libnghttp2, unbound, gnutls, nasm, jpeg-turbo, libpng, libslirp, libssh, libusb, lzo, ncurses, pixman, snappy and vde
=> Installing qemu dependency: m4
=> ./configure
=> make
=> make install
📦 /usr/local/Cellar/m4/1.4.20: 14 files, 795KB, built in 3 minutes 39 seconds
=> Installing qemu dependency: libtool
=> ./configure --disable-silent-rules --enable-ltdl-install --program-prefix=g
=> make install
📦 /usr/local/Cellar/libtool/2.5.4: 76 files, 3.9MB, built in 36 seconds
=> Installing qemu dependency: ninja
=> python3 configure.py --bootstrap --with-python=python3
📦 /usr/local/Cellar/ninja/1.13.1: 10 files, 517.5KB, built in 1 minute 3 seconds
=> Installing qemu dependency: mpdecimal
=> ./configure
=> make
=> make install
📦 /usr/local/Cellar/mpdecimal/4.0.1: 22 files, 603KB, built in 20 seconds
=> Installing qemu dependency: ca-certificates
=> Downloading https://ghcr.io/v2/homebrew/core/ca-certificates/manifests/2025-11-04-1
Already downloaded: /Users/sujith10x/Library/Caches/Homebrew/downloads/c8e8f0b8441bc94be20ccdded08d1ed3f0f8faccadc00c3ae6f3e5bb20c6e98c--ca-certificates-2025-11-04-1.bottle.manifest.json
=> Pouring ca-certificates--2025-11-04.all.bottle.1.tar.gz
=> Regenerating CA certificate bundle from keychain, this may take a while...
📦 /usr/local/Cellar/ca-certificates/2025-11-04: 4 files, 235.8KB
=> Installing qemu dependency: openssl@3
=> perl ./Configure --prefix=/usr/local/Cellar/openssl@3/3.6.0 --openssldir=/usr/local/etc/openssl@3 --libdir=lib no-ssl3 no-ssl3-met
=> make

```

Python code preview:

```

app.py > ...
6 app.secret_key = os.environ.get('SESSION_SECRET', 'dev-secret-key')
7 app.config["SQLALCHEMY_DATABASE_URI"] = os.environ.get("DATABASE_URL")
8 app.config["SQLALCHEMY_ENGINE_OPTIONS"] = {
9     "pool_recycle": 300,
10    "pool_pre_ping": True,
11 }
12
13 db.init_app(app)
14
15 def init_sample_data():
16     if Destination.query.count() == 0:
17         destinations_data = [
18             {
19                 'name': 'Bali',
20                 'country': 'Indonesia',
21                 'description': 'A tropical paradise known for beautiful beaches, rice terraces, a
spiritual culture.',
22                 'popular_activities': 'Surfing, Yoga, Temple visits, Diving',
23                 'best_season': 'April to October',
24                 'certifications': [
25                     {
26                         'name': 'PADI Open Water Diver',
27                         'category': 'Scuba Diving'

```

```

app.py > ...
134
135     destination = Destination(**dest_data)
136     db.session.add(destination)
137     db.session.flush()
138
139     for cert_data in certs_data:
140         cert = Certification(**cert_data, destination_id=destination.id)
141         db.session.add(cert)
142
143     for tour_data in tours_data:
144         tour = Tour(**tour_data, destination_id=destination.id)
145         db.session.add(tour)
146
147     db.session.commit()
148
149 with app.app_context():
150     db.create_all()
151     init_sample_data()
152
153 @app.route('/')
154 def index():
155     destinations = Destination.query.all()

```

Html preview:

```

1  {% extends "base.html" %}
2
3  {% block content %}
4  <div class="hero">
5      <div class="hero-content">
6          <h1>Travel the World & Earn Certifications</h1>
7          <p>Combine your passion for travel with professional development</p>
8          <div class="stats">
9              <div class="stat-card">
10                 <h3>{{ destinations|length }}</h3>
11                 <p>Destinations</p>
12             </div>
13             <div class="stat-card">
14                 <h3>{{ total_certifications }}</h3>
15                 <p>Certifications</p>
16             </div>
17             <div class="stat-card">
18                 <h3>{{ total_tours }}</h3>
19                 <p>Tours Available</p>
20             </div>
21         </div>
22     </div>
23 </div>

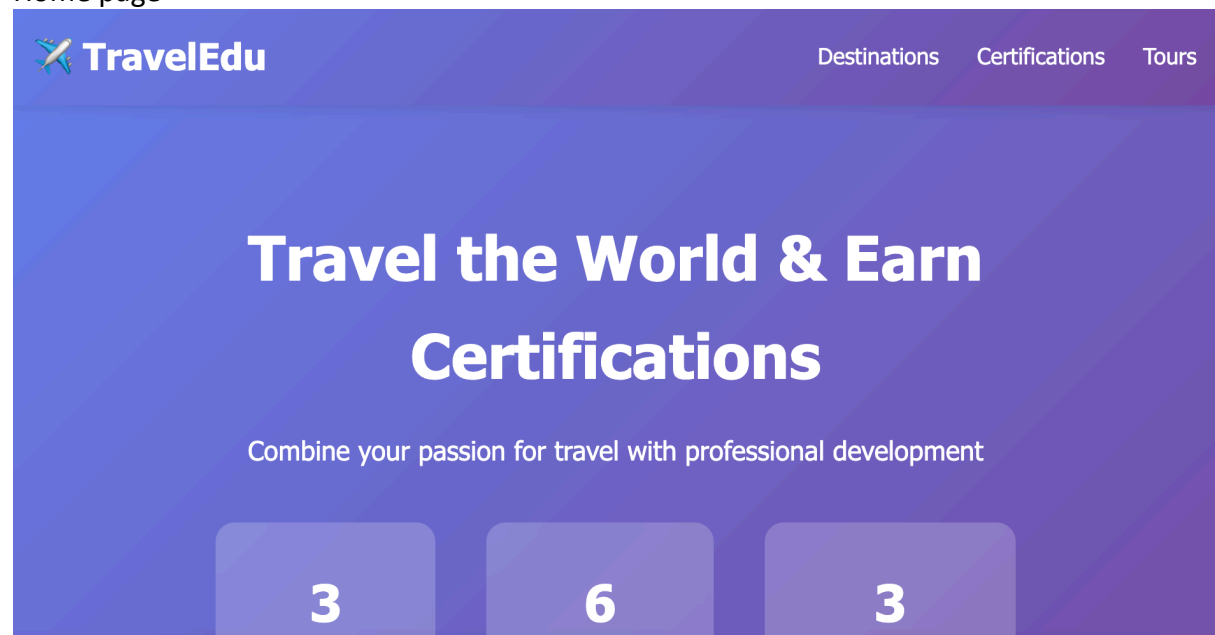
```


Css preview:

```
1 * {
2   margin: 0;
3   padding: 0;
4   box-sizing: border-box;
5 }
6
7 body {
8   font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
9   line-height: 1.6;
10  color: #333;
11  background-color: #f5f7fa;
12 }
13
14 .navbar {
15   background: linear-gradient(135deg, #667eea 0%, #764ba2 100%);
16   padding: 1rem 0;
17   box-shadow: 0 2px 10px rgba(0,0,0,0.1);
18   position: sticky;
19   top: 0;
20   z-index: 1000;
21 }
22
23 .nav-container {
```

Generated application:

Home page



TravelEdu

DestinationsCertificationsTours

Popular Destinations

Explore amazing locations with educational opportunities

Bali

Indonesia

A tropical paradise known for beautiful beaches, rice terraces, and spiritual culture.

Best Season:
April to October

Activities:

Barcelona


Spain

Vibrant coastal city famous for architecture, food, and Mediterranean culture.

Best Season:
May to October

Activities:

Available certifications in chosen location:

TravelEdu

DestinationsCertificationsTours

Available Certifications

Japanese Language Proficiency Test (JLPT)

Language

Provider: Tokyo Language School
Prepare for official Japanese language certification.

🕒 8-16 weeks

💰 \$1500.0


📅 None

Sushi Chef Certification

Culinary Arts

Provider: Tokyo Sushi Academy

Available tours in selected location:


 **TravelEdu**

DestinationsCertificationsTours


[Home](#) / Tokyo

Tokyo, Japan

Modern metropolis blending ancient traditions with cutting-edge technology.

 **Best Time to Visit**

March to May, September to November

 **Popular Activities**

Temple visits, Shopping, Food experiences,
Technology tours