

Installation on Mac

Brew install helm

```
Gopis-MacBook-Air:~ myden$ brew install helm
==> Auto-updating Homebrew...
Adjust how often this is run with HOMEBREW_AUTO_UPDATE_SECS or disable with
HOMEBREW_NO_AUTO_UPDATE. Hide these hints with HOMEBREW_NO_ENV_HINTS (see 'man brew').
==> Downloading https://ghcr.io/v2/homebrew/portable-ruby/portable-ruby/blobs/sha256:e7340e4a1d7cc8f113686e461b93114270848cb14676e9037a1a2ff3b1a0ff32
##### 100.0%
==> Pouring portable-ruby-3.3.5.arm64_big_sur.bottle.tar.gz
==> Auto-updated Homebrew!
Updated 3 taps (homebrew/services, homebrew/core and homebrew/cask).
==> New Formulae
afl++      crossplane      icu4c@75      libdom      maeparser      probe-rs-tools      sequoia-sq      tmux-sessionizer
aiocommit  distill-cli     inchi         libhubbub   minijinja-cli  python-gdbm@3.13   setconf        wasi-libc
ansible-builder  djlint        jikken       libparserutils  openapi-diff    python-tk@3.13     sf            zsh-system-clipboard
argtable3    dug            jxl-oxide    libspelling@0.2  oxlint         python@3.13        sleek
binsider    facad          keep-sorted   lld          paperjam        recc               sysprof
blisp       clickhouse-sql-parser  flang        kubetail      localai         repopack           termscop
clickhouse-sql-parser  gptme       lbfgssp      m68k-elf-binutils  m68k-elf-gcc     polkit             roxctl
coordgen    hawkkey        libcss       postgresql@17    rsgain          rsync              tllist

==> New Casks
ablesset   displaybuddy   font-faculty-glyphic  fujiifilm-tether-app  magicquilt           synology-image-assistant
adlock     excalidrawz    font-funnel-display   furtherance            mailbird             thunderbird@esr
anytype@alpha  anytype@beta  font-funnel-sans      homerow               microsoft-edge@canary  typefully
anytype@beta  follow@alpha  font-host-grotesk    huggingchat           mininstaller         unraid-usb-creator-next
backyard-ai   follow@nightly  font-matemasie       huly                  morisawa-desktop-manager  vienna-assistant
bentobox     font-bungee-tint  font-moderustic      imaging-edge           pixel-shift-combiner   webkinz
cap          font-doto       font-mynaul-icons     keyguard              quba                 windows-app
costudio     font-edu-au-vic-wa-nt-arrows  font-new-amsterdam  langgraph-studio      rouvy                sanctum
cocopacketaanalyzer  font-edu-au-vic-wa-nt-dots    font-noto-serif-todhri  legcord                singlebox
colemak-dh    font-edu-au-vic-wa-nt-guides  font-sour-gummy        lets                    sketchup
colemak-dhk   font-edu-au-vic-wa-nt-pre     font-suse

You have 18 outdated formulae and 1 outdated cask installed.
==> Downloading https://ghcr.io/v2/homebrew/core/helm/manifests/3.16.2
##### 100.0%
==> Fetching helm
==> Downloading https://ghcr.io/v2/homebrew/core/helm/blobs/sha256:ca9adda46f918e7b6c33349ce871a65c3a82f308539ab918396c882d3df08da
##### 100.0%
==> Pouring helm-3.16.2.arm64_sonoma.bottle.tar.gz
==> Caveats
Bash completion has been installed to:
/opt/homebrew/etc/bash_completion.d
==> Summary
📦 /opt/homebrew/Cellar/helm/3.16.2: 66 files, 55.4MB
==> Running 'brew cleanup helm'...
Disable this behaviour by setting HOMEBREW_NO_INSTALL_CLEANUP.
Hide these hints with HOMEBREW_NO_ENV_HINTS (see 'man brew').
Gopis-MacBook-Air:~ myden$ helm version
version.BuildInfo{Version:"v3.16.2", GitCommit:"13654a52f7c70a143b1dd51416d633e1071fa9fb", GitTreeState:"dirty", GoVersion:"go1.23.2"}
Gopis-MacBook-Air:~ myden$
```

Installation on windows using chocolatey package

choco install kubernetes-helm -y

To check version

helm version

Start minikube

minikube start

```
Gopis-MacBook-Air:~ myden$ minikube start
minikube v1.33.1 on Darwin 14.6.1 (arm64)
🐳 Kubernetes 1.30.0 is now available. If you would like to upgrade, specify: --kubernetes-version=v1.30.0
🔥 minikube 1.34.0 is available! Download it: https://github.com/kubernetes/minikube/releases/tag/v1.34.0
💡 To disable this notice, run: 'minikube config set WantUpdateNotification false'

🔧 Using the docker driver based on existing profile
Starting "minikube" primary control-plane node in "minikube" cluster
Pulling base image v0.0.44 ...
Restarting existing docker container for "minikube" ...
Preparing Kubernetes v1.23.3 on Docker 20.10.12 ...
▪ kubelet.housekeeping-interval=5m
❌ Unable to load cached images: loading cached images: stat /Users/myden/.minikube/cache/images/arm64/registry.k8s.io/pause_3.6: no such file or directory
Bad local forwarding specification '0:localhost:8443'
🔧 Verifying Kubernetes components...
▪ Using image docker.io/kubernetes/dashboard:v2.7.0
▪ Using image gcr.io/k8s-minikube/storage-provisioner:v5
▪ Using image docker.io/kubernetes/metrics-server:v1.0.8
💡 Some dashboard features require the metrics-server addon. To enable all features please run:

    minikube addons enable metrics-server

🔧 Enabled addons: storage-provisioner, dashboard, default-storageclass

❗ /opt/homebrew/bin/kubectl is version 1.31.0, which may have incompatibilities with Kubernetes 1.23.3.
▪ Want kubectl v1.23.3? Try 'minikube kubectl -- get pods -A'
🔥 Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
Gopis-MacBook-Air:~ myden$
```

Set up kubectl to use Minikube

kubectl config use-context minikube

```
Gopis-MacBook-Air:~ myden$ kubectl config use-context minikube
Switched to context "minikube".
Gopis-MacBook-Air:~ myden$
```

Create a New Helm Chart

Use the following command to create a new chart called **my-nginx-chart**:

```
helm create my-nginx-chart
```

```
Gopis-MacBook-Air:~ myden$ helm create my-nginx-chart
Creating my-nginx-chart
Gopis-MacBook-Air:~ myden$
```

This creates the Helm chart folder structure.

Open `my-nginx-chart/values.yaml` in a text editor. Modify the values as needed:

Edit the `deployment.yaml` Template

Customize the `my-nginx-chart/templates/deployment.yaml` file with your configuration:

Deploy the Helm Chart

Run the following command to deploy the Helm chart to your Kubernetes cluster:

```
helm install my-nginx ./my-nginx-chart
```

To uninstall

```
Helm uninstall my-nginx
```