

[Get Helm](#)[Blog](#)[Docs](#)

The package manager for Kubernetes

Helm is the best way to find, share, and use software built for [Kubernetes](#).

[master](#) ▾[charts / stable / grafana /](#)[Go to file](#)[Add file](#) ▾**lescactus** and **Alexandre Maldémé** [stable/grafana] Typo: missing a backtick in README.md ([#23423](#)) ...

✓ 88fa0db 12 days ago

..



[stable/grafana] Always generate valid yaml file for dashboards Confi...

10 months ago



[stable/grafana] extract raw json dashboards from values to files, ad...

2 years ago



[stable/grafana] enable unique filenames option for kiwigrid/k8s-side...

13 days ago

[stable/grafana] Allow secrets for sidecar ([#13492](#)) ([#15331](#))

13 months ago

[stable/grafana] Typo: missing a backtick in README.md ([#23423](#))

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Lorum Ipsum is simply dummy text of the printing and typesetting industry. Lorum Ipsum has been the industry's standard dummy text ever since the 1500s.

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Docker

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kubernetes

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HENG
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GDG Chiang Mai present

Workshop : Advanced Docker and Kubernetes 101

by Praparn Lungpoonlap, System Engineer

Saturday, 12 May 2018 6pm : Register and Networking
7pm : Workshop
9pm : Networking and Games

FREE FOOD AND BEER! - BUT PLEASE BRING YOUR OWN LAPTOP :)

Attendees should have basic knowledge or experience in Docker or container technology.

MAY 12 Advanced Docker and Kubernetes 101 (Workshop)

Public - Hosted by Heng Leasing : บริษัท เฮง ลีสซิ่ง จำกัด and 3 others

★ Interested ✓ Going



KIRINAYA GOLF + RESORT + SPA KHAD YAI THAILAND

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02-153-9587

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Helm Package Description for Kubernetes



Agenda

- Chart File Structure
- Chart.yaml description
- LICENSE, README, NOTES description
- Example of helm chart grafana



Chart File Structure

- Helm uses a packaging format called “charts”.
- A chart is a collection of files that describe a related set of Kubernetes resources.
- The charts was used to create since simple web site to complex enterprise system
- Chart have structure of folder like “tree folder” that start name of chart with directory name

15 lines (15 sloc) | 459 Bytes

Raw Blame History   

```
1 name: cerebro
2 version: 1.3.1
3 appVersion: 0.8.5
4 apiVersion: v1
5 description: A Helm chart for Cerebro – a web admin tool that replaces Kopf.
6 home: https://github.com/lmenezes/cerebro
7 icon: https://github.com/lmenezes/cerebro/blob/master/public/img/logo.png
8 sources:
9 - https://github.com/lmenezes/cerebro-docker
10 - https://github.com/lmenezes/cerebro
11 maintainers:
12 - name: davidkarlsen
13   email: david@davidkarlsen.com
14 - name: wvidana
15   email: wvidanas@gmail.com
```



Chart File Structure

- <chart name>/
 - **Chart.yaml** # A YAML file containing information about the chart
 - LICENSE # <option>: A plain text file containing the license for the chart
 - README.md # <option>: A human-readable README file
 - **values.yaml** # The default configuration values for this chart
 - values.schema.json # <option>: A JSON Schema for imposing a structure value
 - charts/ #<folder: option>
 - Folder containing any charts upon which this chart depends.
 - crds/ #<folder: option>
 - Custom Resource Definitions
 - **templates/** #<folder>
 - A directory of templates that, when combined with values,# will generate valid Kubernetes manifest files.
 - templates/NOTES.txt # <option>: A plain text file containing short usage notes
 - templates/.tpl. #<option>: tpl . That file is the default location for template partials.
 - Declaring and using templates with define and template

Chart.yaml description

```
1  apiVersion: #v1/v2
2  name: #Chart name
3  version: #Version of Helm Chart (Base on Semantic Versioning 2.0.0, <major>.<minor>.<patch>
4  kubeVersion: #<option> Version compatible with K8S version
5  description: #<option> Description of chart
6  type: #<option> application(default)/library
7  deprecated: #<option> true/false
8  keywords: #<option>
9    #- Keywords about project
10 home: #<option> URL of projects home page
11 sources: #<option>
12   #- URLs to source code for this project
13 dependencies: # A list of the chart requirements (optional)
14   - name: #Chart name (Ex: nginx)
15     version: #Version of Helm Chart (Base on Semantic Versioning 2.0.0, <major>.<minor>.<patch>
16     repository: #The repository URL ("https://example.com/charts") or alias ("@repo-name")
17     condition: #<optional> A yaml path that resolves to a boolean, used for enabling/disabling charts
18     tags: #<option>
19       #- Tags can be used to group charts for enabling/disabling together
20     enabled: #<optional> enable/disable
21     import-values: #<option>
22       #- ImportValues holds the mapping of source values to parent key to be imported.
23     alias: #<option> Alias to be used for the chart.
24 maintainers: # <optional>
25   - name: #The maintainers name
26     email: #The maintainers email
27     url: # <option> URL for the maintainer
28 icon: #<option> URL to an SVG or PNG image to be used as an icon
29 appVersion: #<option> The version of the app on chart
30 annotations:
31   example: #A list of annotations keyed by name (optional).
```

LICENSE, README and NOTES

- LICENSE:
 - License is a plain text file containing the license for the chart. The chart can contain a license as it may have programming logic in the templates and would therefore not be configuration only. There can also be separate license(s) for the application installed by the chart, if required
- README
 - A description of the application or service the chart provides
 - prerequisites or requirements to run the chart
 - Descriptions of options in values.yaml and default values
 - Any other information that may be relevant to the installation or configuration of the chart

LICENSE, README and NOTES

- templates/NOTES.txt:
 - This note will be printed out after installation, and when viewing the status of a release. This file is evaluated as a [template](#), and can be used to display usage notes, next steps, or any other information relevant to a release of the chart



Example of Helm Grafana

Screenshot of a GitHub repository page for the 'helm / charts' organization, specifically the 'charts / stable / grafana' branch. The repository has 212 issues and 138 pull requests. The 'Code' tab is selected.

The current commit is '88fa0db' from 12 days ago by 'lescactus and Alexandre Maldémé'. It contains a typo fix in README.md (#23423). The commit message is '[stable/grafana] Typo: missing a backtick in README.md (#23423) ...'. The commit is part of a series of changes related to Grafana configurations.

File	Message	Time Ago
ci	[stable/grafana] Always generate valid yaml file for dashboards Config...	10 months ago
dashboards	[stable/grafana] extract raw json dashboards from values to files, ad...	2 years ago
templates	[stable/grafana] enable unique filenames option for kiwigrid/k8s-side...	13 days ago
.helmignore	[stable/grafana] Allow secrets for sidecar (#13492) (#15331)	13 months ago
Chart.yaml	[stable/grafana] Typo: missing a backtick in README.md (#23423)	12 days ago
OWNERS	[stable/grafana] extract raw json dashboards from values to files, ad...	2 years ago
README.md	[stable/grafana] Typo: missing a backtick in README.md (#23423)	12 days ago
values.yaml	[stable/grafana] enable unique filenames option for kiwigrid/k8s-side...	13 days ago

Helm Package Description for Kubernetes



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https://helm.sh/docs/chart_template_guide/getting_started/

The screenshot shows the Helm Docs website with a light blue background featuring a faint map of the world. At the top, there's a navigation bar with links for Home, Docs, Charts, Blog, and Community, along with language and version dropdowns. A prominent 'Get Started' button is highlighted with a blue border. On the left, a sidebar lists various documentation categories like Docs Home, Introduction, How-To, Topics, Best Practices, Chart Template Guide, Getting Started (which is selected), Built-In Objects, Values Files, Template Functions And Pipelines, Template Function List, Flow Control, Variables, Named Templates, Accessing Files Inside Templates, Creating A NOTES.Txt File, Subcharts And Global Values, The .Helminignore File, Debugging Templates, Next Steps, and Appendix: YAML Techniques. At the bottom of the sidebar is a 'Contribute to Docs' button. The main content area has a large heading 'Getting Started'. Below it, a text block explains that the user will create a chart and add a template. It then says, 'To get going, let's take a brief look at a Helm chart.' Under the 'Charts' section, it describes the chart structure with a code block showing 'mychart/' followed by 'Chart.yaml', 'values.yaml', 'charts/', 'templates/', and '...'. A note at the bottom states that the 'templates/' directory is for template files.

Getting Started

In this section of the guide, we'll create a chart and then add a first template. The chart we created here will be used throughout the rest of the guide.

To get going, let's take a brief look at a Helm chart.

Charts

As described in the [Charts Guide](#), Helm charts are structured like this:

```
mychart/
  Chart.yaml
  values.yaml
  charts/
  templates/
  ...
```

The `templates/` directory is for template files. When Helm evaluates a chart, it will send all of the files in the `templates/`

Present by: Praparn L. (eva10409@gmail.com)



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https://v2.helm.sh/docs/charts_tips_and_tricks/

You are viewing Helm 2 (legacy). [Helm 3 is here.](#) Visit the [Helm 3 docs](#) or read the [blog](#) for details.

 Documentation

Get Helm Blog Docs Charts [!\[\]\(76135476e4c66624fcd079eb06e6e2d1_img.jpg\)](#) [!\[\]\(fb581a674d20e658b53cf34efaf73ce7_img.jpg\)](#) v2.16.7 ▾

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Chart Development Tips and Tricks

This guide covers some of the tips and tricks Helm chart developers have learned while building production-quality charts.

KNOW YOUR TEMPLATE FUNCTIONS

Helm uses [Go templates](#) for templating your resource files. While Go ships several built-in functions, we have added many others.

First, we added almost all of the functions in the [Sprig library](#). We removed two for security reasons: `env` and `expandenv` (which would have given chart authors access to Tiller's environment).

We also added two special template functions: `include` and `required`. The `include` function allows you to bring in another template, and then pass the results to other template functions.

For example, this template snippet includes a template called `mytpl`, then lowercases the result, then wraps that in double quotes.

```
value: {{ include "mytpl" . | lower | quote }}
```

The `required` function allows you to declare a particular values entry as required for template rendering. If the value is omitted, the template rendering will fail with a user-submitted

[!\[\]\(585e9300b58d006b1469489d43832795_img.jpg\) Contribute to Docs](#)

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Question & Answer Section



Helm Package Description for Kubernetes



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