
Eastern Documentation

Release 2.0.0

Wongnai

Sep 06, 2021

Contents:

1	eastern package	1
1.1	Subpackages	1
1.2	Submodules	2
1.3	eastern.cli module	2
1.4	eastern.kubectl module	2
1.5	eastern.kubeyml_helper module	3
1.6	eastern.plugin module	3
1.7	Module contents	5
2	Indices and tables	7
	Python Module Index	9
	Index	11

CHAPTER 1

eastern package

1.1 Subpackages

1.1.1 eastern.formatter package

Submodules

[eastern.formatter.formatter module](#)

[eastern.formatter.overrides module](#)

[eastern.formatter.utils module](#)

Module contents

`eastern.formatter.format (filename, env=None)`

Format a file

Parameters

- **filename** (str or `pathlib.Path`) – Path to file
- **env** (`dict[str, str]`) – List of variables

1.2 Submodules

1.3 eastern.cli module

1.4 eastern.kubectl module

```
exception eastern.kubectl.JobNotFound
```

Bases: eastern.kubectl.KubernetesException

Cannot find the given job

Raised by [Kubectl.get_job_pod_name\(\)](#)

```
class eastern.kubectl.Kubectl(path='kubectl')
```

Bases: object

Kubernetes CLI wrapper

Parameters `path` (*str*) – Path to kubectl (or command name if in path)

```
apply(file='-', data=None)
```

Run `kubectl apply`

Parameters

- `file` (*str*) – Filename to apply, or – to apply from data
- `data` (*str*) – Manifest body to apply, only when `file` is –

Returns Return value of the command (0 for success)

```
delete_job(name)
```

Delete a job

Parameters `name` (*str*) – Job name

Returns Return value (0 for success)

```
get_job_pod_name(name)
```

Get the actual pod name of a job

Parameters `name` (*str*) – Job name

Returns Job name

Raises `JobNotFound` – If no pod for that job is found

```
get_job_status(name)
```

Get Job status

Parameters `name` (*str*) – Job name

Return type JobStatus

Raises KeyError in case there is no status in response

```
get_launch_args()
```

Get kubectl command line

eg. ['kubectl', '--namespace', 'production', '--context', 'production']

Return type list[str]

```
get_pod(name)
Get pod's metadata

Parameters name (str) – Pod name

Return type dict

get_pod_log(name)
Get pod's log

Parameters name (str) – Pod name

Return type str

get_pod_phase(name)
Get the phase of the pod

Parameters name (str) – Pod name

Returns Pod phase

list_pod()
Lists a pod

Parameters namespace (str) – Namespace name

Return type str

rollout_wait(name, timeout=None)
Run kubectl rollout status and wait for exit

Parameters name (str) – Deployment name to wait

Returns Return value of the command (0 for success)
```

1.5 eastern.kubeyml_helper module

1.6 eastern.plugin module

```
class eastern.plugin.EasternPlugin
Bases: abc.ABC

Base class for all plugins

deploy_post_hook(manifest, ctx, **kwargs)
Run actions after deployment succeeded

Available context objects:
• ctx.obj['kubectl']: An instance of eastern.kubectl.Kubectl

Parameters
• manifest (str) – Kubernetes manifest
• ctx (click.Context) – Click context

deploy_pre_hook(manifest, ctx, **kwargs)
Preprocess the manifest before deploying. Can also be used to run actions.

Must always return the manifest.
```

Available context objects:

- `ctx.obj['kubectl']`: An instance of `eastern.kubectl.Kubectl`

Parameters

- `manifest` (`str`) – Kubernetes manifest
- `ctx` – Click context

Return type str

`env_hook` (`formatter, **kwargs`)

Return a dict of additional environment values (equivalent to `-s` on command line)

Parameters `formatter` (`eastern.formatter.formatter.Formatter`) – A formatter instance

Return type dict

`format_post_hook` (`body, formatter, **kwargs`)

Postprocess a template. The template will be given after all plugins has processed it.

Must always return the resulting template.

Parameters

- `body` (`str`) – The whole template
- `formatter` (`eastern.formatter.formatter.Formatter`) – A formatter instance

Return type str

`format_pre_hook` (`body, formatter, **kwargs`)

Preprocess a template. The template will be given as-is.

Must always return the resulting template.

Parameters

- `body` (`str`) – The whole template
- `formatter` (`eastern.formatter.formatter.Formatter`) – A formatter instance

Return type str

`line_post_hook` (`line, formatter, **kwargs`)

Postprocess a formatter line. The line will be given after all plugins has processed the line.

Must always return the resulting line.

Parameters

- `line` (`str`) – A line of template
- `formatter` (`eastern.formatter.formatter.Formatter`) – A formatter instance

Return type str

`line_pre_hook` (`line, formatter, **kwargs`)

Preprocess a formatter line. The line will be given as-is.

Must always return the resulting line.

Parameters

- **line** (*str*) – A line of template
- **formatter** (*eastern.formatter.formatter.Formatter*) – A formatter instance

Return type *str*

1.7 Module contents

CHAPTER 2

Indices and tables

- genindex
- modindex
- search

Python Module Index

e

[eastern](#), 5
[eastern.cli](#), 2
[eastern.formatter](#), 1
[eastern.kubectl](#), 2
[eastern.kubeyml_helper](#), 3
[eastern.plugin](#), 3

Index

A

apply() (eastern.kubectl.Kubectl method), [2](#)

D

delete_job() (eastern.kubectl.Kubectl method), [2](#)
deploy_post_hook() (eastern.plugin.EasternPlugin method), [3](#)
deploy_pre_hook() (eastern.plugin.EasternPlugin method), [3](#)

E

eastern (module), [5](#)
eastern.cli (module), [2](#)
eastern.formatter (module), [1](#)
eastern.kubectl (module), [2](#)
eastern.kubeyml_helper (module), [3](#)
eastern.plugin (module), [3](#)
EasternPlugin (class in eastern.plugin), [3](#)
env_hook() (eastern.plugin.EasternPlugin method), [4](#)

F

format() (in module eastern.formatter), [1](#)
format_post_hook() (eastern.plugin.EasternPlugin method), [4](#)
format_pre_hook() (eastern.plugin.EasternPlugin method), [4](#)

G

get_job_pod_name() (eastern.kubectl.Kubectl method), [2](#)
get_job_status() (eastern.kubectl.Kubectl method), [2](#)
get_launch_args() (eastern.kubectl.Kubectl method), [2](#)
get_pod() (eastern.kubectl.Kubectl method), [2](#)
get_pod_log() (eastern.kubectl.Kubectl method), [3](#)
get_pod_phase() (eastern.kubectl.Kubectl method), [3](#)

J

JobNotFound, [2](#)

K

Kubectl (class in eastern.kubectl), [2](#)

L

line_post_hook() (eastern.plugin.EasternPlugin method), [4](#)
line_pre_hook() (eastern.plugin.EasternPlugin method), [4](#)
list_pod() (eastern.kubectl.Kubectl method), [3](#)

R

rollout_wait() (eastern.kubectl.Kubectl method), [3](#)