
 **passing** # Kubernetes Examples

A reference repository of YAML with canonical and as-simple-as-possible demonstrations of kubernetes functionality and features.

See here for a searchable front-end: <https://k8s-examples.container-solutions.com/>



Why?

At Container Solutions we find we regularly need chunks of YAML to demonstrate something specific, such as:

- A simple deployment
- A simple pod
- A pod with a volume

This might be to do a basic test of an environment, find an example to tinker with, or send to someone to get them going.

Usage

The examples can be used by a kubectl plugin [examples](#). This plugin can be installed by krew:

- first install krew
- Install a custom plugin index: `kubectl krew index add cs https://github.com/ContainerSolutions/kubernetes-examples.git`
- Install this plugin: `kubectl krew install cs/examples`

Interactively discover by first selecting the resource type:

```
1 $ kubectl examples
```

filter by resource type

```
1 $ kubectl examples Service
```

filter by resource type and pattern

```
1 $ kubectl examples Pod res
```

If there is only a single match selected by the parameters, it is printed to the stdout. So you can deploy a modified version of a sample by:

```
1 $ export KUBE_EDITOR='code -w'
2 $ kubectl examples Ingress fanout | kubectl create -f - --edit
```

Sections

broken-* - yamls that exemplify broken kubernetes yaml states

[A-Z] [a-zA-Z]* - Example yamls that correspond to resource types.

test - Scripts to test or validate the YAML

Within those folders are either simple/canonical examples, or examples in subfolders that expose particular items of functionality that are highlighted by their yaml path, eg **Pod/spec.initContainers/**.

If an example is an exemplar of a particular feature but tightly related to another resource, then an absolute folder might be added eg in Service there is **Service/Pod.spec.subdomain**.

Symlinks are also used to make finding things easier, eg **Service/headless-service -> Service/spec.clusterIP**.

plugins - a directory following the spec for a Custom krew plugin index

Principles

The examples seek to be:

- As simple as possible to illustrate the functionality
- Self-contained (ie limited to one .yaml file)

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- Non-conflicting (eg resource names are unique)
 - Clear (eg resource names are verbose and unambiguous)

Release Process

See [here](#)

Sources / Thanks To

[Official Kubernetes docs](#)

[Kubernetes by Example](#)

[Practical Kubernetes](#)

[Security Examples](#)