krew kubectl plugin manager

START HERE

`kubectl` **krew update**
Refresh plugin index

`kubectl` **krew list**
What is installed

`kubectl` **krew search**
Browse plugins

`kubectl` **krew upgrade**
Update everything

`kubectl` **krew search** *<keyword>*
Filter by keyword

`kubectl` **krew info** *<plugin>*
Plugin details

`kubectl` **krew install** *<plugin>*
Install a plugin

`kubectl` *<plugin>*
Run it

Index git repo of manifests → `update` → **search / info** find a plugin → `install` → **~/.krew/bin** on your PATH → `kubectl <plugin>` → **Run** as a kubectl command

CONCEPTS

krew is a kubectl plugin itself: every plugin it installs runs as kubectl <plugin>.

Needs kubectl 1.12 or later and git. Plugins live under $KREW_ROOT (default ~/.krew).

Krew uninstalls itself by deleting its directory; plugins go with it.

SETUP

export PATH="${KREW_ROOT:-$HOME/.krew}/bin:$PATH"
Put krew plugins on PATH (bash/zsh)
Add to .bashrc or .zshrc, then restart the shell.

`kubectl` **krew**
Check the install works

set -gx PATH $PATH $HOME/.krew/bin
Put plugins on PATH (fish)

SETUP (cont.)

export KREW_ROOT=*<dir>*
Use another install directory
Keep it set afterwards and add $KREW_ROOT/bin to PATH.

rm -rf -- ~/.krew
Uninstall krew and all plugins

export KREW_NO_UPGRADE_CHECK=1
Silence upgrade reminders

DISCOVER

`kubectl` **krew update**
Refresh the plugin index

`kubectl` **krew search**
List all available plugins

`kubectl` **krew search** *<keyword>*
Search plugins by keyword

`kubectl` **krew info** *<plugin>*
Show plugin version and description

INSTALL AND RUN

`kubectl` **krew install** *<plugin>*
Install a plugin

`kubectl` **krew install** *<plugin> <plugin>*
Install several at once

`kubectl` *<plugin>*
Run an installed plugin

`kubectl` **krew install** *<index>*/*<plugin>*
Install from a named index
Plugins from the default index need no prefix.

`kubectl` **plugin list**
All kubectl plugins, krew or not

MANAGE

`kubectl` **krew list**
List plugins installed via krew

`kubectl` **krew upgrade**
Upgrade all plugins (and krew)

MANAGE (cont.)

`kubectl` **krew upgrade** *<plugin>...*
Upgrade only the named plugins

`kubectl` **krew uninstall** *<plugin>...*
Remove plugins

`kubectl` **krew list | tee backup.txt**
Back up the installed list

`kubectl` **krew install < backup.txt**
Restore plugins from the list

INDEXES

`kubectl` **krew index list**
Show configured indexes

`kubectl` **krew index add** *<name> <git-uri>*
Add a custom index
Any git remote works, including SSH addresses.

INDEXES (cont.)

`kubectl` **krew index remove** *<name>*
Remove an index

export KREW_DEFAULT_INDEX_URI=*<git-uri>*
Replace the default index
Set before installing krew or after removing the default index.

`kubectl` **krew install --enable-netrc** *<index>*/*<plugin>*
Install from a private registry

`kubectl` **krew install --netrc-file** *<path> <index>*/*<plugin>*
Use a custom .netrc file

export HTTPS_PROXY="*<host:port>***"**
Install behind a proxy
HTTP_PROXY and NO_PROXY are honoured too.

RECIPES

First plugin

```
kubectl krew update
kubectl krew search tree
kubectl krew info tree
kubectl krew install tree
kubectl tree deployment <name>
```

Move plugins to a new machine

```
# old machine
kubectl krew list | tee
backup.txt
# new machine, after installing
krew
kubectl krew install <
backup.txt
```

Keep everything current

```
kubectl krew update
kubectl krew upgrade
kubectl krew list
```

Private plugin index

```
kubectl krew index add corp
git@github.com:corp/krew-
index.git
kubectl krew search
kubectl krew install corp/
<plugin>
```