



CLI tools

```
# CLI setup
https://ibd.sh/kubect1
https://ibd.sh/kubectx
https://ibd.sh/kubetail
https://ibd.sh/helm
```

contexts

```
# List available contexts
kubectx

# Change context to dev
kubectx dev
```

namespaces

```
# List namespaces
kubens

# Change namespace to prod
kubens prod

# Create namespace test
kubect1 create ns test
```

ingress

```
# Ingress manifest example
apiVersion: networking.k8s.io/v1
kind: Ingress
metadata:
  name: test-ingress
spec:
  rules:
    - host: foo.bar.com
      http:
        paths:
          - path: /testpath
            backend:
              service:
                name: test
                port:
                  number: 80
  tls:
    - hosts:
        - foo.bar.com
      secretName: foobar-tls
```

deploy / expose

```
# Create a deployment named web, using image nginx into prod namespace
kubect1 create -n prod deploy web --image=nginx

# Expose port 80 of deployment web with an internal service named front
kubect1 expose deploy/web --port=80 --name=front

# Retrieve logs of pods with tag app=web
kubetail -l app=web

# Open a tunnel listening on 127.0.0.1:8080 to the port 80 of a pod related to deployment web
kubect1 port-forward deploy/web 8080:80

# Create a Yaml manifest, without sending it to the cluster
kubect1 create deploy web --image=nginx --dry-run=client -o yaml > web.yml

# Edit deployment web
kubect1 edit deploy/web
```

help / debug

```
# Retrieve detailed state of pod test
kubect1 describe pod test

# Get all possible attributes of a resource
kubect1 explain pod --recursive

# Open a bash terminal in pod app
kubect1 exec -it app -- bash

# NB : The flag --help provide help of any command
```

configuration

```
# Use the config file /path/to/config rather than ~/.kube/config
export KUBECONFIG=/path/to/config

# Merge two configuration files config1 and config2 in one file config
KUBECONFIG=config1:config2 kubect1 config view --flatten > config

# Export only the current context configuration to file config
kubect1 config view --minify --flatten > config
```

storage / volume

```
# PVC manifest example
kind: PersistentVolumeClaim
apiVersion: v1
metadata:
  name: web-data
spec:
  accessModes:
    - ReadWriteOnce
  resources:
    requests:
      storage: 42Gi
```