

# Kubernetes

kuberneteskube-apiserverapiserverapiserveretcdapiserverapiserverRESTfullAPIapiserverkubectlkubectl



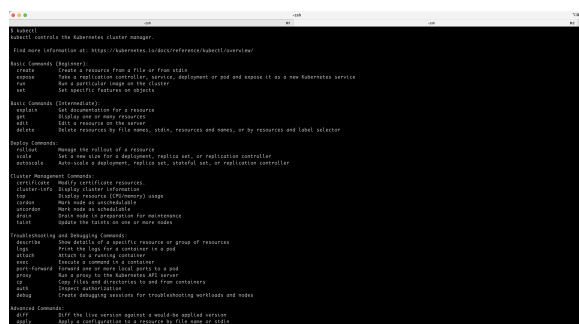
kubectll<http://docs.kubernetes.org.cn/683.html>

## help

kubectlkubectl

```
kubectl[flags]
kubectl[command]
```

--help



## get

getresource--helpkubectlkubctlresourceresourcepoddeploymentsservice

```
kubectl get [(-o|--output=json|yaml|wide|go-template=...|go-template-file=...|jsonpath=...|jsonpath-file=...)] (TYPE [NAME | -l label]
| TYPE/NAME ...) [flags] [flags]
```

## pod

kubectlkubectl get po pods kubectlkubectl get po -o wide podnamespace namespace default namespace default kube-system pods

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## namespace

```
kubectlkubectl get namespace
```

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kubectlkubectl get rckubectlkubectl get svc kubectlkubectl get nodes resource

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```
-o
1kubectl get po -o yaml yamlpod
```

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```
2kubectl get po -o json jsonpod
```

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```
3 -o=custom-columns= jsonyamlmetadata.labels.app
```

```
        kubectl get po rc-nginx-2-btv4j -o=custom-columns=LABELS:.metadata.
labels.app
```

LABELS.metadata.labels.app

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## describe

describegetresourcegetresourcesdescriberesourcedescribegetdescribe-oresources  
cribe resourcegetresourcepodrunningdescribe

```
kubectl describe po rc-nginx-2-btv4j
```

## create

kubectlresourceyamljsonkubectl create -f filename resource [namespace  
/secret/configmap/serviceaccount] resourcejsonyaml  
getnginx podreplication controllerrc-nginx.yaml

```
        apiVersion: v1
kind: ReplicationController
metadata:
  name: rc-nginx-2
spec:
  replicas: 2
  template:
    metadata:
      labels:
        app: nginx-2
    spec:
      containers:
      - name: nginx-2
        image: xingwangc.docker.rg/nginx
        ports:
        - containerPort: 80
```

createrrc-nginx.yamlReplicationController(rc)rc

```
kubectl create -f rc-nginx.yaml
```

kubectl get rc rc-nginx-2ReplicationController kubectl get po rc-nginx-2- pod

## replace

replacecreateinginxresourceclabelimageyamlreplace

labelpodlabelrclabelrcpodpodget popodcheckpodrc

```
kubectl replace -f rc-nginx.yaml
```

## patch

replacekubernetespach podlabelapp=nginx-2labelapp=nginx-3patch

```
kubectl patch pod rc-nginx-2-kpiqt -p '{"metadata":{"labels":{"app":"nginx-3"}}}'
```

patchdeploymentpatchdeploymentdeploymentpods

```
kubectl patch deployment your-deployment -p '{"spec":{"template":{"metadata":{"labels":{"date":"'$(date +%s)'"}}}}}'
```

## edit

editresourceeditcommonresourcesignificant resourceeditpod

```
kubectl edit po rc-nginx-btv4j
```

```
kubectl get po rc-nginx-btv4j -o yaml >> /tmp/nginx-tmp.yaml
vim /tmp/nginx-tmp.yaml
/*do some changes here */
kubectl replace -f /tmp/nginx-tmp.yaml
```

## delete

resourceclabelresource

```
kubectl delete -f rc-nginx.yaml
kubectl delete po rc-nginx-btv4j
kubectl delete po -lapp=nginx-2
```

## apply

applypatcheditresourceapplyresourceconfigurationsource controlpushserverkubect  
l applyresourcekubernetes

applyreplaceapplyresourceapplyresourcekubectl applyresourceapplygit

## logs

```
logspoddockerlogs tail -f -f
```

```
kubectl logs rc-nginx-2-kpiqt
```

## exec

```
execdockerexecshellpod-c
```

## rolling-update

```
rolling-updaterolling-updaterolling-updatepodpodpodpodpodpodrolling-update  
nameVersionlabel
```

```
kubectl rolling-update rc-nginx-2 -f rc-nginx.yaml
```

update

```
kubectl rolling-update rc-nginx-2 --rollback
```

```
rolling-update--update-period-hhelp
```

## scale

```
scalenginxscale
```

4

```
kubectl scale rc rc-nginx-3 --replicas=4
```

2

```
kubectl scale rc rc-nginx-3 --replicas=2
```

## autoscale

```
scale/autoscalepod autoscalercpodpodnginx1~4
```

```
kubectl autoscale rc rc-nginx-3 --min=1 --max=4
```

## attach

```
attachdockerattachdaemonlogs -fctrl-cpodpod-c containers namekube-system  
namespacekube-dns-v9-rcfuk podskydns
```

```
kubectl attach kube-dns-v9-rcfuk -c skydns --namespace=kube-system
```

# config

```
kubectl config view
```

```
$ kubectl config view
apiVersion: v1
clusters:
- cluster:
  certificate-authority-data: DATA+OMITTED
  server: https://cls-nsnhyewv.ccs.tencent-cloud.com
  name: demo
- cluster:
  insecure-skip-tls-verify: true
  server: https://9.134.191.144:18167
  name: test
contexts:
- context:
  cluster: demo
  user: "3366046505"
  name: demo
- context:
  cluster: test
  user: "100015915015"
  name: test
current-context: demo
kind: Config
preferences: {}
users:
- name: "100015915015"
  user:
    client-certificate-data: REDACTED
    client-key-data: REDACTED
- name: "3366046505"
  user:
    client-certificate-data: REDACTED
    client-key-data: REDACTED
$ |
```

```
kubectl config user-context
```

```
$ kubectl config view
apiVersion: v1
clusters:
- cluster:
  certificate-authority-data: DATA+OMITTED
  server: https://cls-nsnhyewv.ccs.tencent-cloud.com
  name: demo
- cluster:
  insecure-skip-tls-verify: true
  server: https://9.134.191.144:18167
  name: test
contexts:
- context:
  cluster: demo
  user: "3366046505"
  name: demo
- context:
  cluster: test
  user: "100015915015"
  name: test
current-context: demo
kind: Config
preferences: {}
users:
- name: "100015915015"
  user:
    client-certificate-data: REDACTED
    client-key-data: REDACTED
- name: "3366046505"
  user:
    client-certificate-data: REDACTED
    client-key-data: REDACTED
$ kubectl config use-context test
Switched to context "test".
$ |
```

