

Kubernetes kind CheatSheet

CLOUD

- PDF Link: [cheatsheet-kind-A4.pdf](#), Category: Cloud
- Blog URL: <https://cheatsheet.dennyzhang.com/cheatsheet-kind-A4>
- Related posts: Minikube CheatSheet, Kubernetes Yaml, #denny-cheatsheets

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- Check kubernetes cheatsheet: <https://cheatsheet.dennyzhang.com/cheatsheet-kubernetes-A4>

1.1 Kind Basic

| Name | Command |
|----------------|---|
| Kind | Kubernetes IN Docker - local clusters for testing Kubernetes |
| Install kind | Install go and docker, then <code>go get -u sigs.k8s.io/kind</code> |
| Check kind cli | <code>which kind, kind version</code> |
| Reference | Minikube CheatSheet, Kubectl CheatSheet, Kubernetes Yaml |

1.2 Kind Command

| Name | Command |
|--|--|
| List all kind clusters | <code>kind get clusters</code> |
| Get kubeconfig for a given cluster | <code>kind get kubeconfig-path --name \$cluster-name</code> |
| List all nodes for a given cluster | <code>kind get nodes --name \$cluster_name</code> |
| Create kind cluster | <code>kind create cluster --name clusterapi</code> |
| Create cluster with different version of k8s | <code>kind create cluster --image=kindest/node:v1.15.0@sha256:XXX</code> |
| Delete kind cluster | <code>kind delete cluster --name clusterapi</code> |
| Load docker image from host to nodes | <code>kind load docker-image debian:9</code> |

1.3 Kind Conf

| Name | Command |
|---------------------------|--|
| Conf files | <code>/etc/kubernetes</code> |
| Services start conf files | <code>/etc/kubernetes/manifests</code> |
| kube api server conf file | <code>/etc/kubernetes/manifests/kube-apiserver.yaml</code> |

1.4 Kind Serviceability

| Name | Command |
|---|---|
| Restart kind clusters, after dockerd restarts | <code>docker start kind-control-plane</code> , GitHub: Cluster doesn't restart when docke |

1.5 Kind CLI Online Help

```
> kind version
0.3.0-alpha
```

```
> kind --help
kind creates and manages local Kubernetes clusters using Docker container 'nodes'
```

```
Usage:
  kind [command]
```

Available Commands:

```
  build      Build one of [base-image, node-image]
  completion Output shell completion code for the specified shell (bash or zsh)
  create     Creates one of [cluster]
  delete     Deletes one of [cluster]
  export     exports one of [logs]
```

| | |
|---------|--|
| get | Gets one of [clusters, nodes, kubeconfig-path] |
| help | Help about any command |
| load | Loads images into nodes |
| version | prints the kind CLI version |

Flags:

| | |
|-------------------|--|
| -h, --help | help for kind |
| --loglevel string | logrus log level [panic, fatal, error, warning, info, debug] (default "warning") |
| --version | version for kind |

Use "kind [command] --help" for more information about a command.

1.6 More Resources

License: Code is licensed under MIT License.

<https://github.com/kubernetes/minikube/tree/master/docs>