# 1 Rancher CheatSheet     KUBERNETES

- PDF Link: cheatsheet-rancher-A4.pdf, Category: kubernetes

- Blog URL: `https://cheatsheet.dennyzhang.com/cheatsheet-rancher-A4`

- Related posts: OpenShift CheatSheet, PKS CheatSheet

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## 1.1 Rancher Summary

| Name | Command |
|---|---|
| Setup rancher in vagrant | GitHub: quickstart/vagrant, `https://172.22.101.101/` admin/admin |
| Reference | Rancher v2.0 Documentation, Rancher Slack, Rancher Forum |
| Reference | YouTube: Rancher Overview |
| Reference | OpenShift CheatSheet, Rancher CheatSheet, PKS CheatSheet |

## 1.2 Rancher Source Code

| Name | Command |
|---|---|
| Rancher API Layer | GitHub: rancher/norman |
| Rancher Kubernetes Engine | GitHub: rancher/rke, GitHub: rancher/kontainer-engine |

## 1.3 rke Command Line

| Name | Command |
|---|---|
| Create a cluster | `rke cluster up --cluster-file cluster.yaml` |

## 1.4 Rancher Footprint

```
> kubectl get all --all-namespaces
NAMESPACE       NAME                                           READY     STATUS       RESTARTS    AGE
cattle-system   pod/cattle-cluster-agent-55897c6cb-xdj96       1/1       Running      0           6m
cattle-system   pod/cattle-node-agent-89jgs                    1/1       Running      0           6m
ingress-nginx   pod/default-http-backend-797c5bc547-669zf      1/1       Running      0           6m
ingress-nginx   pod/nginx-ingress-controller-4gdhf             1/1       Running      0           6m
kube-system     pod/kube-dns-7588d5b5f5-xpfmg                  3/3       Running      0           6m
kube-system     pod/kube-dns-autoscaler-5db9bbb766-kdhdn       1/1       Running      0           6m
kube-system     pod/kube-flannel-x686d                         2/2       Running      0           6m
kube-system     pod/metrics-server-97bc649d5-8pf7f             1/1       Running      0           6m
kube-system     pod/rke-ingress-controller-deploy-job-7wn5h    0/1       Completed    0           6m
kube-system     pod/rke-kubedns-addon-deploy-job-2pzw6         0/1       Completed    0           6m
kube-system     pod/rke-metrics-addon-deploy-job-69zxc         0/1       Completed    0           6m
kube-system     pod/rke-network-plugin-deploy-job-bv4jc        0/1       Completed    0           6m

NAMESPACE       NAME                             TYPE        CLUSTER-IP      EXTERNAL-IP    PORT(S)          AGE
default         service/kubernetes               ClusterIP   10.43.0.1       <none>         443/TCP          7m
ingress-nginx   service/default-http-backend     ClusterIP   10.43.142.185   <none>         80/TCP           6m
kube-system     service/kube-dns                 ClusterIP   10.43.0.10      <none>         53/UDP,53/TCP    6m
kube-system     service/metrics-server           ClusterIP   10.43.20.15     <none>         443/TCP          6m

NAMESPACE       NAME                                          DESIRED    CURRENT    READY    UP-TO-DATE    AVAILABL
cattle-system   daemonset.apps/cattle-node-agent              1          1          1        1             1
ingress-nginx   daemonset.apps/nginx-ingress-controller       1          1          1        1             1
kube-system     daemonset.apps/kube-flannel                   1          1          1        1             1

NAMESPACE       NAME                                      DESIRED    CURRENT    UP-TO-DATE    AVAILABLE    AGE
cattle-system   deployment.apps/cattle-cluster-agent      1          1          1             1            6m
ingress-nginx   deployment.apps/default-http-backend      1          1          1             1            6m
```

```
kube-system       deployment.apps/kube-dns                    1         1         1              1           6m
kube-system       deployment.apps/kube-dns-autoscaler         1         1         1              1           6m
kube-system       deployment.apps/metrics-server              1         1         1              1           6m

NAMESPACE         NAME                                              DESIRED    CURRENT    READY     AGE
cattle-system     replicaset.apps/cattle-cluster-agent-55897c6cb    1          1          1         6m
ingress-nginx     replicaset.apps/default-http-backend-797c5bc547   1          1          1         6m
kube-system       replicaset.apps/kube-dns-7588d5b5f5               1          1          1         6m
kube-system       replicaset.apps/kube-dns-autoscaler-5db9bbb766    1          1          1         6m
kube-system       replicaset.apps/metrics-server-97bc649d5          1          1          1         6m

NAMESPACE         NAME                                         DESIRED    SUCCESSFUL    AGE
kube-system       job.batch/rke-ingress-controller-deploy-job  1          1             6m
kube-system       job.batch/rke-kubedns-addon-deploy-job       1          1             6m
kube-system       job.batch/rke-metrics-addon-deploy-job       1          1             6m
kube-system       job.batch/rke-network-plugin-deploy-job      1          1             6m
```

## 1.5   More Resources

```
https://www.okd.io/
    https://access.redhat.com/documentation/en-us/rancher_container_platform/3.11/
    https://access.redhat.com/documentation/en-us/rancher_container_platform/3.11/html/cli_reference/cli-refer
    https://docs.okd.io/latest/rancher/getting-started/quickstart.html
    License: Code is licensed under MIT License.
```