1 Rancher CheatSheet

CLOUD

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- PDF Link: cheatsheet-rancher-A4.pdf, Category: Cloud
- Blog URL: https://cheatsheet.dennyzhang.com/cheatsheet-rancher-A4
- \bullet Related posts: OpenShift CheatSheet, PKS CheatSheet, #denny-cheatsheets

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1.1 Rancher Summary

Name	Command
Setup rancher in vagrant	GitHub: quickstart/vagrant, https://172.22.101.101/admin/admin
Start rancher control plane with container	docker run -d -p 80:80 -p 443:443 rancher/rancher
Reference	Rancher v2.0 Documentation, Rancher Slack, Rancher Forum
Reference	YouTube: Rancher Overview, YouTube: Setup Rancher In A Hard Way
Reference	OpenShift CheatSheet, Rancher CheatSheet, PKS CheatSheet

https://raw.githubusercontent.com/dennyzhang/cheatsheet.dennyzhang.com/master/cheatsheet-rancher-A4/rancher-architectual com/dennyzhang.com/master/cheatsheet-rancher-architectual com/dennyzhang.com/de

1.2 Rancher Components

Name	Command
Control plane - rancher	Complete container management platform
cli	Rancher CLI
VM distro - os	Tiny Linux distro that runs the entire OS as Docker containers
Storage - longhorn	Distributed block storage for Kubernetes

1.3 rancher Concepts

Name	Command
Node driver	
Node template	

1.4 rancher Command Line

Name	Command
Reference	Link: Rancher CLI
Login to cluster	rancher login https:// <server_url>token <bearer_token></bearer_token></server_url>
Select project	rancher context switch
Rancher ssh to vm	rancher ssh node-001
Run kubectl command	rancher kubectl get nodes

1.5 Rancher Source Code

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

1.6 Rancher Footprint

> kubectl get all --all-namespaces

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NAMESPACE	NAME	READY	STATUS	RESTARTS	AGE
cattle-system	<pre>pod/cattle-cluster-agent-55897c6cb-xdj96</pre>	1/1	Running	0	6m
cattle-system	<pre>pod/cattle-node-agent-89jgs</pre>	1/1	Running	0	6m
ingress-nginx	<pre>pod/default-http-backend-797c5bc547-669zf</pre>	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

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kube-system	pod/rke-ingress-controller-deploy-job-7wn			/1	Completed	0	6m		
kube-system	pod/rke-kubedns-addon-deploy-job-2pzw6			/1	Completed	0	6m		
kube-system	pod/rke-metrics-addon-deploy-job-69zxc			/1	Completed	0	6m		
kube-system	pod/rke-network-plugin-deploy-	job-bv4jc	0	/1	Completed	0	6m		
NAMESPACE	NAME	TYPE	CLUS	TER-IP	EXTERNA	L-IP	PORT(S)		AGE
default	service/kubernetes	ClusterIP	10.4	3.0.1	<none></none>		443/TCP		7m
ingress-nginx	service/default-http-backend	ClusterIP	10.4	3.142.185	<pre>5 <none></none></pre>		80/TCP		6m
kube-system	service/kube-dns	ClusterIP	10.4	3.0.10	<none></none>		53/UDP,53/	/TCP	6m
kube-system	service/metrics-server	ClusterIP	10.4	3.20.15	<none></none>		443/TCP		6m
NAMESPACE	NAME		DESIR	ED CURF	RENT READ	١V	UP-TO-DATE	Δ.Υ.Δ	ILABL
cattle-system	daemonset.apps/cattle-node-age	nt.	1	1	1	, 1	1	1	LLADL
ingress-nginx	daemonset.apps/nginx-ingress-c		1	1	1		1	1	
kube-system	daemonset.apps/kube-flannel	.01101101	1	1	1		1	1	
Rube-bybtem	ddemonse v. apps/ kube-11amie1		-	_	_		-	_	
NAMESPACE	NAME	D	ESIRED	CURRENT	Γ UP-TO-D	DATE	AVAILABLE	AGE	
cattle-system	deployment.apps/cattle-cluster	-agent 1		1	1		1	6m	
ingress-nginx	deployment.apps/default-http-b	ackend 1		1	1		1	6m	
kube-system	deployment.apps/kube-dns	1		1	1		1	6m	
kube-system	deployment.apps/kube-dns-autos	caler 1		1	1		1	6m	
kube-system	deployment.apps/metrics-server	1		1	1		1	6m	
NAMESPACE	NAME			DESIR	ED CURREN	JT R.I	EADY AGI	Ξ	
cattle-system	replicaset.apps/cattle-cluster	-agent-558	97c6cb	1	1	1	6m	_	
ingress-nginx	replicaset.apps/default-http-h	•			1	1	6m		
kube-system	replicaset.apps/kube-dns-75886			1	1	1	6m		
kube-system	replicaset.apps/kube-dns-autos		bbb766	1	1	1	6m		
kube-system	replicaset.apps/metrics-server			1	1	1	6m		
NAMESPACE	NAME				JCCESSFUL	AGE			
kube-system	job.batch/rke-ingress-controller			1		6m			
kube-system	job.batch/rke-kubedns-addon-depl		1	1		6m			
kube-system	job.batch/rke-metrics-addon-depl		1	1		6m			
kube-system	job.batch/rke-network-plugin-dep	oloy-job	1	1		6m			

1.7 Rancher CLI Help

Denny > ./rancher --help

Rancher CLI, managing containers one UTF-8 character at a time

Usage: rancher [OPTIONS] COMMAND [arg...]

Version: v2.0.5

Options:

--debug Debug logging
--help, -h show help

--version, -v print the version

Commands:

apps, [app] Operations with apps catalog Operations with catalogs clusters, [cluster] Operations on clusters context Operations for the context View details of resources inspect kubectl Run kubectl commands login, [1] Login to a Rancher server namespaces, [namespace] Operations on namespaces

nodes, [node] Operations on nodes

projects, [project] Operations on projects

ps Show workloads in a project

settings, [setting] Show settings for the current server

ssh SSH into a node

up apply compose config

help, [h] Shows a list of commands or help for one command

Run 'rancher COMMAND --help' for more information on a command.

1.8 More Resources

https://rancher.com/docs/rancher/v2.x/en/quick-start-guide/deployment/License: Code is licensed under MIT License.