1 Rancher CheatSheet

CLOUD

Updated: June 17, 2019

- 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

kube-system	pod/rke-ingress-controller-dep	olov-job-7wr	n5h 0/	′1 C	ompleted	0	6m	
kube-system	pod/rke-kubedns-addon-deploy-job-2pzw6				ompleted	0	6m	
kube-system	pod/rke-metrics-addon-deploy-job-69zxc		0/		ompleted	0	6m	
kube-system	pod/rke-network-plugin-deploy-job-bv4jc		0/		ompleted	0	6m	
v		3			•			
NAMESPACE	NAME	TYPE		ER-IP	EXTERNAL	-IP	PORT(S)	AGE
default	service/kubernetes	${\tt ClusterIP}$	10.43	3.0.1	<none></none>		443/TCP	7m
ingress-nginx	service/default-http-backend	${\tt ClusterIP}$	10.43	3.142.185	<none></none>		80/TCP	6m
kube-system	service/kube-dns	${\tt ClusterIP}$	10.43	3.0.10	<none></none>		53/UDP,53/TC	P 6m
kube-system	service/metrics-server	ClusterIP	10.43	3.20.15	<none></none>		443/TCP	6m
NAMESPACE	NAME		DESIRE	D CURRE	NT READY	, ti	P-TO-DATE	AVAILABL
cattle-system	daemonset.apps/cattle-node-age	ent.	1	1	1	1		1
ingress-nginx	daemonset.apps/nginx-ingress-		1	1	1	1		1
kube-system	daemonset.apps/kube-flannel		1	1	1	1		1
y	11							
NAMESPACE	NAME	DI	ESIRED	CURRENT	UP-TO-DA	TE A	VAILABLE A	.GE
cattle-system	deployment.apps/cattle-cluster	r-agent 1		1	1	1	6	m
ingress-nginx	deployment.apps/default-http-	packend 1		1	1	1	6	m
kube-system	deployment.apps/kube-dns	1		1	1	1	6	m
kube-system	deployment.apps/kube-dns-autos	scaler 1		1	1	1	6	m
kube-system	deployment.apps/metrics-server 1			1	1	1	6	m
					~···			
NAMESPACE	NAME	. 5500	7 6 1	DESIRED	CURRENT			
cattle-system	replicaset.apps/cattle-cluster			1	1	1	6m	
ingress-nginx	replicaset.apps/default-http-l		C5DC547	1	1	1	6m	
kube-system	replicaset.apps/kube-dns-75886		LL766	1 1	1	1 1	6m	
kube-system kube-system	replicaset.apps/kube-dns-autoscaler-5db9breplicaset.apps/metrics-server-97bc649d5		00100	1	1 1	1	6m 6m	
Kube-system	repricaser.apps/metrics-server	-970004903		1	1	1	OIII	
NAMESPACE	NAME		DES1	RED SUC	CESSFUL	AGE		
kube-system	job.batch/rke-ingress-controller	-deploy-job	1	1		6m		
kube-system	job.batch/rke-kubedns-addon-dep	Loy-job	1	1		6m		
kube-system	job.batch/rke-metrics-addon-deploy-job		1	1		6m		
kube-system	job.batch/rke-network-plugin-dep	oloy-job	1	1		6m		

1.7Rancher 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.

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