1 PKS CheatSheet   Tools

- PDF Link: cheatsheet-pks-A4.pdf, Category: tools

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

File me Issues or star this repo.
See more CheatSheets from Denny: #denny-cheatsheets
Related post: Bosh CheatSheet, Concourse CheatSheet

1.1 Concepts

Name	Command
CFCR (Cloud Foundry Container Runtime)	link: what is cfcr CFCR aims to deplo and manage fleets of Kubernetes clusters
Kubo	link: cfcr Old name of CFCR
Bosh	link: BOSH CHEATSHEET
Tile	link: BOSH CHEATSHEET
Ops Manager	link: BOSH CHEATSHEET
osb (on-demand-service-broker)	
ncp (NSX-T container plugin CNI)	Help to create pod networks in PKS k8s clusters link: CheatSheet: Cloud Network

1.2 Reference

Name	Command
PKS Release Notes	`https://docs.pivotal.io/runtimes/pks/1-2/release-notes.html`
Managing PKS	`https://docs.pivotal.io/runtimes/pks/1-2/managing.html`

1.3 Basic

Name	Command
Links	Pivotal Container Service (PKS) Documentation, PKS Concepts
Create k8s cluster	link: Create a Kubernetes Cluster
Air-gapped deployments	No incoming and outgoing traffic during the PKS deployment
List all pks clusters	`pks clusters`
Create cluster	`pks create-cluster cluster1 --external-hostname cluster1.pks.com --plan "$plan`
Check cluster status	`pks cluster cluster1`
Get cluster credential for kubectl	`pks get-credentials <Cluster_name>`
Set kubectl context	`kubectl config use-context <cluster_name>`
List all available plans	`pks plans`

1.4 Users Management

Name	Command
Login	`pks login -a <api.test.com> -u <username> -p <passwd> -k` link: Manage Users in UAA
Login	`pks login --skip-ssl-validation --username <username> --password <password> --api <pks.te`
Run bosh command	Get bosh credential from Ops Manager, ssh to opsmanager, and run bosh commands
Default roles	pks.clusters.manage, pks.clusters.admin

1.5   Process List In PKS Control Panel VM

Name	Summary
Get process list	ssh to the vm from bosh, then `monit summary`
pks-api	
broker	
pks-nsx-t-osb-proxy	
mariadb$_{ctrl}$	
galera-healthcheck	
gra-log-purger-executable	
cluster$_{healthlogger}$	
uaa	
telemetry	
event-emitter	
bosh-dns	
bosh-dns-resolvconf	
bosh-dns-healthcheck	

1.6   Process List In PKS Kubernetes Master VM

Name	Summary

1.7   Process List In PKS Kubernetes Worker VM

Name	Summary

1.8   Online Help Usage

```
[ec2-user@ip-172-31-33-176 ~]$ pks --help


The Pivotal Container Service (PKS) CLI is used to create, manage, and delete Kubernetes clusters.
To deploy workloads to a Kubernetes cluster created using the PKS CLI, use the Kubernetes CLI, kubectl.

Version: 1.1.1-build.8

Usage:
  pks [command]

Available Commands:
  cluster         View the details of the cluster
  clusters        Show all clusters created with PKS
  create-cluster  Creates a kubernetes cluster, requires cluster name, an external host name, and plan
  delete-cluster  Deletes a kubernetes cluster, requires cluster name
  get-credentials Allows you to connect to a cluster and use kubectl
  help            Help about any command
  login           Log in to PKS
  logout          Log out of PKS
  plans           View the preconfigured plans available
  resize          Increases the number of worker nodes for a cluster

Flags:
  -h, --help      help for pks
      --version   version for pks

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

1.9   More Resources

```
https://github.com/pks-tips/tips
```