

1 PKS CheatSheet

TOOLS

- PDF Link: [cheatsheet-pks-A4.pdf](#), Category: tools
- Blog URL: <https://cheatsheet.dennyzhang.com/cheatsheet-pks-A4>

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Related post: Bosh CheatSheet, Tile CheatSheet

1.1 PKS Basic

Name	Command
YouTube Series For PKS	Pivotal Container Service (PKS) Demos and Webcasts
Reference	PKS Documentation, PKS Concepts, PKS 1.2 Release Notes, Managing PKS 1.2
CFCR/Kubo	CFCR(Cloud Foundry Container Runtime) aims to deplo and manage fleets of k8s clusters.
Bosh	link: BOSH CHEATSHEET
Tile	link: BOSH CHEATSHEET
Ops Manager	link: BOSH CHEATSHEET
osb (on-demand-service-broker)	
nep (NSX-T container plugin CNI)	Help to create pod networks in PKS k8s clusters link: CheatSheet: Cloud Networking
Create k8s cluster	link: Create a Kubernetes Cluster
Air-gapped deployments	No incoming and outgoing traffic during the PKS deployment

1.2 PKS cli

Name	Command
List all pks clusters	<code>pks clusters</code>
Create cluster	<code>pks create-cluster cluster1 --external-hostname cluster1.pks.com --plan "\$plan" -</code>
Check cluster status	<code>pks cluster cluster1</code>
Get cluster kubectl credential	<code>pks get-credentials <cluster_name></code>
Set kubectl context	<code>kubectl config use-context <cluster_name></code>
List all available plans	<code>pks plans</code>
Login	<code>pks login -a <api.test.com> -u <username> -p <passwd> -k</code> link: Manage Users in UAA
Login	<code>pks login --skip-ssl-validation --username <username> --password <password> --api</code>
Default roles	<code>pks.clusters.manage, pks.clusters.admin</code>
Run bosh command	Get bosh credential from Ops Manager, ssh to opsmanager, and run bosh commands

<https://raw.githubusercontent.com/dennyzhang/cheatsheet-pks-A4/master/pks-highlevel.png>

1.3 Deployment Diagram

Name	Command
PKS API server vm	
Bosh director vm	
Ops manager vm	
Build-in process in k8s master vm	
Build-in process in k8s worker vm	

1.4 Default Process List In PKS Control Panel

Name	Summary
Get process list in pks 1.2.0	ssh to the pks api vm, then <code>sudo monit summary</code>
pks-api	
broker	
pks-nsx-t-osb-proxy	
mariadb_ctrl	
galera-healthcheck	
gra-log-purger-executable	
cluster_health_logger	
uua	
telemetry	
event-emitter	
bosh-dns	
bosh-dns-resolvconf	
bosh-dns-healthcheck	

1.5 Default Process List In K8S Master VM

Name	Summary
Get process list in pks 1.2.0	ssh to k8s master vm, then <code>sudo monit summary</code>
kube-apiserver	
kube-controller-manager	
kube-scheduler	
etcd	
blackbox	
ncp	
bosh-dns	
bosh-dns-resolvconf	
bosh-dns-healthcheck	
pks-helpers-bosh-dns-resolvconf	

1.6 Default Process List In K8S Worker VM

Name	Summary
Get process list in pks 1.2.0	ssh to the k8s worker vm, then <code>sudo monit summary</code>
docker	
kubelet	
kube-proxy	
blackbox	
nsx-node-agent	
ovsdb-server	
ovs-vswitchd	
nsx-kube-proxy	
bosh-dns	
bosh-dns-resolvconf	
bosh-dns-healthcheck	
pks-helpers-bosh-dns-resolvconf	

1.7 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:

pkcs [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 pkcs
--version	version for pkcs

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

1.8 More Resources

<https://github.com/pks-tips/tips>

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