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, Concourse CheatSheet

1.1 PKS Basic

Name	Command
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)	
ncp (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	`pks clusters`
Create cluster	`pks create-cluster cluster1 --external-hostname cluster1.pks.com --plan "$plan" -`
Check cluster status	`pks cluster cluster1`
Get cluster kubectl credential	`pks get-credentials <cluster_name>`
Set kubectl context	`kubectl config use-context <cluster_name>`
List all available plans	`pks plans`
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`
Default roles	`pks.clusters.manage`, `pks.clusters.admin`
Run bosh command	Get bosh credential from Ops Manager, ssh to opsmanager, and run bosh commands

1.3 Default Process List In PKS Control Panel

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

1.4   Default Process List In K8S Master VM

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

1.5   Default Process List In K8S Worker VM

Name	Summary
Get process list in pks 1.2.0	ssh to the k8s worker vm, then `sudo monit summary`
`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`	

1.6   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.

1.7　More Resources

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