

Kubernetes K8

Apr 2021

Overview

Containers contain functions for software components, a container can be a web server, a data processor or an data I/O device, anything really that you used to be able to run on a bare metal server or a VM. Containers can run on multiple servers in multiple locations.

Kubernetes provides an open-source API that controls how and where those containers will run, and manages container failure and restarts.

Kubernetes Commands

There are many Kubernetes commands, here we will explore some that will be useful when dealing with MediaKind HeadEnd solutions (IPHE).

get ns

```
kubectl -n mediakind get nodes
```

PODs run in a particular namespace, there can be more than one namespace in a system. To be able to use any commands you have to know which namespace you wish to use, and specify that namespace in your command line.

Use the following command to show available namespace.

```
kubectl get ns
```

NAME	STATUS	AGE
default	Active	78d
kube-public	Active	78d
kube-system	Active	78d
mediakind	Active	78d

get nodes

```
kubectl -n mediakind get nodes
```

In the above example, kubectl is the command, mediakind is the namespace we are dealing with and get nodes is the parameters for the command.

NAME	STATUS	ROLES	AGE	VERSION
172.25.27.17	Ready	master,node	20d	v1.13.12
172.25.27.20	Ready	master,node	20d	v1.13.12
172.25.27.21	Ready	master,node	20d	v1.13.12
172.25.27.26	Ready	node	20d	v1.13.12

kubectl -n mediakind get nodes returns the number of 'servers' in the deployment, these nodes can be bare metal or Virtual Machines.

describe node

```
kubectl -n mediakind describe node ipaddress
```

Above the command is describing a particular node in the system, the node IP address was derived by using the [get node](#) command.

```
kubectl -n mediakind describe node 172.25.27.26

Name: 172.25.27.26
Roles: node
Labels: beta.kubernetes.io/arch=amd64
        beta.kubernetes.io/os=linux
        encoding-hd-services=enabled
        encoding-ott-services=enabled
        encoding-sd-services=enabled
        kubernetes.io/hostname=172.25.27.26
        mux-bckp=enabled
        node-role.kubernetes.io/node=
Annotations: flannel.alpha.coreos.com/backend-data: {"VtepMAC":"5a:a7:35:25:88:d4"}
              flannel.alpha.coreos.com/backend-type: vxlan
              flannel.alpha.coreos.com/kube-subnet-manager: true
              flannel.alpha.coreos.com/public-ip: 172.25.27.26
              node.alpha.kubernetes.io/ttl: 0
              volumes.kubernetes.io/controller-managed-attach-detach: true
CreationTimestamp: Tue, 02 Mar 2021 17:47:31 +0000
Taints: <none>
Unschedulable: false
Conditions:
  Type                Status  LastHeartbeatTime             LastTransitionTime            Reason
  ----                -
  MemoryPressure      False   Tue, 23 Mar 2021 14:38:55 +0000 Tue, 02 Mar 2021 17:47:56 +0000 kubelet has sufficient memory available
  KubeletHasSufficientMemory
  DiskPressure        False   Tue, 23 Mar 2021 14:38:55 +0000 Tue, 02 Mar 2021 17:47:56 +0000 kubelet has no disk pressure
  KubeletHasNoDiskPressure
  PIDPressure         False   Tue, 23 Mar 2021 14:38:55 +0000 Tue, 02 Mar 2021 17:47:56 +0000 kubelet has sufficient PID available
  KubeletHasSufficientPID
  Ready               True    Tue, 23 Mar 2021 14:38:55 +0000 Tue, 02 Mar 2021 17:49:07 +0000 kubelet is posting ready status
  KubeletReady
Addresses:
  InternalIP: 172.25.27.26
  Hostname:   172.25.27.26
Capacity:
  cpu: 96
  ephemeral-storage: 114356412Ki
  hugepages-1Gi: 0
  hugepages-2Mi: 0
  memory: 196496644Ki
  pods: 110
Allocatable:
  cpu: 95900m
  ephemeral-storage: 105390869125
  hugepages-1Gi: 0
  hugepages-2Mi: 0
  memory: 196144244Ki
  pods: 110
System Info:
  Machine ID: 2637027352b94bdfbaf1bb6d06401946
  System UUID: 800B863A-10CB-EA11-906E-0017A4403562
  Boot ID: 799bbe1a-8015-4250-beb1-c39958381d58
  Kernel Version: 3.10.0-957.el7.x86_64
  OS Image: CentOS Linux 7 (Core)
  Operating System: linux
  Architecture: amd64
  Container Runtime Version: docker://18.9.9
  Kubelet Version: v1.13.12
  Kube-Proxy Version: v1.13.12
PodCIDR: 10.234.1.0/24
```

Non-terminated Pods:				(17 in total)				
Namespace		Name						CPU
Requests	CPU	Limits	Memory	Requests	Memory	Limits	AGE	
-----				----				-----
-----				-----				
kube-system			kube-flannel-6ntgc				150m (0%)	
300m (0%)	64M (0%)	500M (0%) 20d						
kube-system			kube-proxy-172.25.27.26				150m (0%)	
500m (0%)	64M (0%)	2G (0%) 20d						
kube-system			nginx-proxy-172.25.27.26				25m (0%)	
300m (0%)	32M (0%)	512M (0%) 20d						
mediakind			fluentbit-fluent-bit-8n7vp				0 (0%)	
0 (0%)	0 (0%)	0 (0%) 20d						
mediakind			logrotate-8d4j7				0 (0%)	
0 (0%)	0 (0%)	0 (0%) 20d						
mediakind			metrics-prometheus-node-exporter-q7qq				0 (0%)	
0 (0%)	30Mi (0%)	150Mi (0%) 20d						
mediakind			mux-bckp-1-stream-processor-mux-65c46756b5-sgprz				0 (0%)	
0 (0%)	0 (0%)	0 (0%) 20d						
mediakind			service-01-enc-hd-encoding-live-worker-6f6c448599-rnx9q				9 (9%)	
12 (12%)	1536Mi (0%)	5Gi (2%) 19d						
mediakind			service-02-iptv-hd-encoding-live-worker-564fd48c7c-lnpk5				9 (9%)	
12 (12%)	1536Mi (0%)	5Gi (2%) 6d2h						
mediakind			service-02-ott-encoding-live-worker-7d74dddc79-d7mn7				4 (4%)	
0 (0%)	1G (0%)	0 (0%) 6d17h						
mediakind			service-03-enc-sd-encoding-live-worker-5d56c8b844-6hsl6				2 (2%)	
3 (3%)	500Mi (0%)	2Gi (1%) 19d						
mediakind			service-05-enc-hd-encoding-live-worker-7bff86bff-nmx4g				9 (9%)	
12 (12%)	1536Mi (0%)	5Gi (2%) 19d						
mediakind			service-08-enc-hd-encoding-live-worker-6cdf78b9c9-r5fbv				9 (9%)	
12 (12%)	1536Mi (0%)	5Gi (2%) 8d						
mediakind			service-dtt01-2-enc-hd-encoding-live-worker-5bdfc9dc9-rfbcc				9 (9%)	
12 (12%)	1536Mi (0%)	5Gi (2%) 7d17h						
mediakind			service-dtt02-3-enc-hd-encoding-live-worker-65d5fb7455-5slpw				9 (9%)	
12 (12%)	1536Mi (0%)	5Gi (2%) 7d4h						
mediakind			service-dtt02-6-enc-sd-encoding-live-worker-7844d9b7d4-2cnz8				2 (2%)	
3 (3%)	500Mi (0%)	2Gi (1%) 7d3h						
mediakind			stream-processor-statmux-bckp-75dc49984-lfl7v				0 (0%)	
0 (0%)	0 (0%)	0 (0%) 20d						
Allocated resources:								
(Total limits may be over 100 percent, i.e., overcommitted.)								
Resource		Requests		Limits				
-----		-----		-----				
cpu		62325m (64%)		79100m (82%)				
memory		11903709696 (5%)		39676508416 (19%)				
ephemeral-storage		0 (0%)		0 (0%)				
Events: <none>								

get pods

PODs are groups of containers, each POD can have a single or many containers. Each time a POD is created (from a profile in MDT) the profile details are used to create the POD.

To see what PODs have been deployed, we can use a 'get pods' command.

kubectl -n mediakind get pods				
NAME	READY	STATUS	RESTARTS	AGE
alarm-7c69d9f46c-tcz8d	3/3	Running	29	78d
alarm-proxy-6f59cbfd6b-ghmdn	1/1	Running	9	78d
alertmanager-metrics-prometheus-operato-alertmanager-0	2/2	Running	18	78d
alertmanager-metrics-prometheus-operato-alertmanager-1	2/2	Running	18	78d
alertmanager-metrics-prometheus-operato-alertmanager-2	2/2	Running	18	78d
automation-config-cf95fd5c7-k6gjm	1/1	Running	29	78d
command-84886544c9-m4gkw	1/1	Running	9	78d
elasticsearch-exporter-5dbf97948c-swlgm	1/1	Running	9	78d

elasticsearch-master-0	1/1	Running	4	34d
elasticsearch-master-1	1/1	Running	4	34d
elasticsearch-master-2	1/1	Running	4	34d
encoding-live-config-65547d7979-t4w7j	1/1	Running	28	78d
encoding-live-ui-connector-74f4458478-bgtvp	1/1	Running	9	78d
esam-proxy-67ffff6d77-8hgx1	1/1	Running	9	78d
etcd-0	1/1	Running	14	78d
etcd-1	1/1	Running	15	78d
etcd-2	1/1	Running	14	78d
failover-api-5d77b57d75-b79xv	3/3	Running	42	78d
fluen-282-kls5n-fluent-bit-2dzvw	1/1	Running	10	78d
fluen-282-kls5n-fluent-bit-2tqzw	1/1	Running	10	78d
fluen-282-kls5n-fluent-bit-4wfv8	1/1	Running	10	78d
fluen-282-kls5n-fluent-bit-6tvrn	1/1	Running	9	78d
fluen-282-kls5n-fluent-bit-fst5t	1/1	Running	9	78d
fluen-282-kls5n-fluent-bit-hxhcv	1/1	Running	9	78d
fluen-282-kls5n-fluent-bit-x5ztw	1/1	Running	10	78d
interface-discovery-cf446c54-6xcmt	1/1	Running	9	78d
kibana-kibana-9bccd7fb8-xmw58	1/1	Running	9	78d
launch-control-749c675669-fkvqm	1/1	Running	9	78d
license-manager-7555998744-qljbm	3/3	Running	23	73d
live-sources-config-665dff566c-9pztm	1/1	Running	28	78d
logrotate-656ts	1/1	Running	9	78d
logrotate-6cgjr	1/1	Running	10	78d
logrotate-fjkpx	1/1	Running	9	78d
logrotate-k47ng	1/1	Running	10	78d
logrotate-kx7dp	1/1	Running	10	78d
logrotate-t6pqg	1/1	Running	9	78d
logrotate-wctw7	1/1	Running	10	78d
metrics-grafana-5df9cd76bd-pxbhp	2/2	Running	18	78d
metrics-kube-state-metrics-556bbc4fbf-vn86v	1/1	Running	9	78d
metrics-prometheus-node-exporter-6zqwd	1/1	Running	10	78d
metrics-prometheus-node-exporter-dm9cf	1/1	Running	10	78d
metrics-prometheus-node-exporter-g8b58	1/1	Running	10	78d
metrics-prometheus-node-exporter-kcnqb	1/1	Running	9	78d
metrics-prometheus-node-exporter-t2pbl	1/1	Running	9	78d
metrics-prometheus-node-exporter-v46j6	1/1	Running	9	78d
metrics-prometheus-node-exporter-vtsqw	1/1	Running	10	78d
metrics-prometheus-operator-operator-5fb8bc499f-8sfsw	2/2	Running	18	78d
mkel-sd1-encoding-live-worker-84596675d7-jbgcp	4/4	Running	0	25m
mkel-sd2-encoding-live-worker-668846bbdd-xtlnn	4/4	Running	0	25m
mongodb-replicaset-0	2/2	Running	18	78d
mongodb-replicaset-1	2/2	Running	18	78d
mongodb-replicaset-2	2/2	Running	18	78d
muconv-config-77f85cf5b9-lm74k	1/1	Running	28	78d
muconv-ui-connector-68dbd6c756-rmxpd	1/1	Running	13	78d
mux-bckp-1-stream-processor-mux-b6c545c89-srpvv	5/5	Running	0	2m19s
mux-main-1-stream-processor-mux-844644dd44-tqqlr	5/5	Running	0	2m50s
nielsen-rtvod-log-archiver-857c6788b5-5swgj	1/1	Running	28	78d
packaging-config-5bd6778cf4-ts1lj	1/1	Running	9	78d
packaging-dvr-auto-577d4b487c-5kw9g	1/1	Running	9	78d
packaging-dynamic-ui-connector-7b65cc476f-jfv8d	1/1	Running	9	78d
packaging-recorder-ui-connector-6496d758c9-ntdjp	1/1	Running	9	78d
placement-api-75dfd78f77-nb74z	1/1	Running	9	78d
prometheus-metrics-prometheus-operator-prometheus-0	3/3	Running	28	78d
prometheus-metrics-prometheus-operator-prometheus-1	3/3	Running	28	78d
prometheus-metrics-prometheus-operator-prometheus-2	3/3	Running	28	78d
rabbitmq-ha-0	1/1	Running	0	27m
rabbitmq-ha-1	1/1	Running	0	26m
rabbitmq-ha-2	1/1	Running	0	26m
redis-5885955657-9rzhf	1/1	Running	9	78d
redis-exporter-prometheus-redis-exporter-b75844d5f-mscxs	1/1	Running	9	78d
server-api-7dbc67f674-qzr76	1/1	Running	10	78d
server-monitor-7fc9bbcd9f-hjz6z	1/1	Running	9	78d
service-api-56d7cfd7c-qd4tv	2/2	Running	26	78d
snmp-notification-6ddc75cf85-pdlzq	1/1	Running	13	78d
statistic-7cdccbcfcf-qkbb2	1/1	Running	9	78d
stream-processor-config-7578c5bb7b-bgc87	1/1	Running	9	78d
stream-processor-statmux-bckp-6584c7849d-mmzzk	3/3	Running	0	2m50s
stream-processor-statmux-main-9954b49db-9f7s5	3/3	Running	0	3m21s

stream-processor-ui-connector-6bd8c4c9b5-lsdjd	1/1	Running	9	78d
template-api-65c56cfc95-sd49f	1/1	Running	15	78d
unified-ui-cbf7767bd-mqv7t	5/5	Running	51	78d

delete pods

Once the PODs have been listed, it is then possible to delete a POD or PODs. Use the following (this example assumes you have these PODs available for deletion).

Lets say you wish to delete the following three PODS

rabbitmq-ha-0	1/1	Running	0	27m
rabbitmq-ha-1	1/1	Running	0	26m
rabbitmq-ha-2	1/1	Running	0	26m

You would use the following command: (assuming you are using the namespace mediakind).

```
kubectl -n mediakind delete pod rabbitmq-ha-0 rabbitmq-ha-1 rabbitmq-ha-2
```

```
pod "rabbitmq-ha-0" deleted
pod "rabbitmq-ha-1" deleted
pod "rabbitmq-ha-2" deleted
```

Kubernetes would the start to rebuild these PODs if they are still currently deployed in IPHE.

get deploy

'get deploy' is similar to get PODs, but it shows the deployed components of your system rather than all of the system, so you don't see Rabbit, Mongo etc, but you do see what you want in terms of services and their components

```
kubectl -n mediakind get deploy
```

NAME	READY	UP-TO-DATE	AVAILABLE	AGE
alarm	1/1	1	1	78d
alarm-proxy	1/1	1	1	78d
automation-config	1/1	1	1	78d
command	1/1	1	1	78d
elasticsearch-exporter	1/1	1	1	78d
encoding-live-config	1/1	1	1	78d
encoding-live-ui-connector	1/1	1	1	78d
esam-proxy	1/1	1	1	78d
failover-api	1/1	1	1	78d
flow	0/0	0	0	78d
interface-discovery	1/1	1	1	78d
kibana-kibana	1/1	1	1	78d
launch-control	1/1	1	1	78d
license-manager	1/1	1	1	76d
live-sources-config	1/1	1	1	78d
metrics-grafana	1/1	1	1	78d
metrics-kube-state-metrics	1/1	1	1	78d
metrics-prometheus-operator-operator	1/1	1	1	78d
mfvp-probe-light	0/0	0	0	78d
mkel-sd1-encoding-live-worker	1/1	1	1	46m
mkel-sd2-encoding-live-worker	1/1	1	1	46m
muconv-config	1/1	1	1	78d
muconv-ui-connector	1/1	1	1	78d
mux-bckp-1-stream-processor-mux	1/1	1	1	23m
mux-main-1-stream-processor-mux	1/1	1	1	24m
nielsen-rtvod-log-archiver	1/1	1	1	78d
packaging-config	1/1	1	1	78d

packaging-dvr-auto	1/1	1	1	78d
packaging-dynamic-ui-connector	1/1	1	1	78d
packaging-recorder-ui-connector	1/1	1	1	78d
placement-api	1/1	1	1	78d
redis	1/1	1	1	78d
redis-exporter-prometheus-redis-exporter	1/1	1	1	78d
server-api	1/1	1	1	78d
server-monitor	1/1	1	1	78d
service-api	1/1	1	1	78d
snmp-notification	1/1	1	1	78d
statistic	1/1	1	1	78d
stream-processor-asi	0/0	0	0	24m
stream-processor-config	1/1	1	1	78d
stream-processor-statmux-bckp	1/1	1	1	24m
stream-processor-statmux-main	1/1	1	1	24m
stream-processor-ui-connector	1/1	1	1	78d
template-api	1/1	1	1	78d
unified-ui	1/1	1	1	78d

get statefulset

Stateful set is for pods that have to maintain state, say even after a reboot, and tries to put PODs back in the same place (server or instance) as before, where as Deployments dont care where they put replicaset/pods.

```
kubectl -n mediakind get statefulset
```

NAME	READY	AGE
alertmanager-metrics-prometheus-operato-alertmanager	3/3	78d
elasticsearch-master	3/3	78d
etcd	3/3	78d
mongodb-replicaset	3/3	78d
prometheus-metrics-prometheus-operato-prometheus	3/3	78d
rabbitmq-ha		

get worker pods

Getting the worker pods provides a list of running services that should match the list of services that you created in Controller. This is the service name followed by the POD name.

```
kubectl -n mediakind get pods -o wide |grep "worker"
```

service-01-enc-hd-encoding-live-worker-6f6c448599-rnx9q	4/4	Running	9	21d
172.25.27.26 172.25.27.26 <none> <none>				
service-01-enc-sd-encoding-live-worker-bc678ff64-7hq2s	4/4	Running	20	21d
172.25.27.20 172.25.27.20 <none> <none>				
service-01-iptv-hd-encoding-live-worker-74f9546cb7-n44xp	4/4	Running	0	8d
172.25.27.20 172.25.27.20 <none> <none>				
service-01-ott-encoding-live-worker-75d78f546f-rk7wd	4/4	Running	0	9d
172.25.27.21 172.25.27.21 <none> <none>				
service-02-enc-hd-encoding-live-worker-7f7ffd7b59-bhxwx	4/4	Running	3	15d
172.25.27.20 172.25.27.20 <none> <none>				
service-02-enc-sd-encoding-live-worker-648d9fccfb-xmr2v	4/4	Running	3	15d
172.25.27.17 172.25.27.17 <none> <none>				
service-02-iptv-hd-encoding-live-worker-564fd48c7c-lnpk5	4/4	Running	0	8d
172.25.27.26 172.25.27.26 <none> <none>				
service-02-ott-encoding-live-worker-7d74dddc79-d7mn7	4/4	Running	0	8d
172.25.27.26 172.25.27.26 <none> <none>				
service-03-enc-hd-encoding-live-worker-d47d78799-fgkjh	4/4	Running	9	21d
172.25.27.20 172.25.27.20 <none> <none>				
service-03-enc-sd-encoding-live-worker-5d56c8b844-6hsl6	4/4	Running	9	21d
172.25.27.26 172.25.27.26 <none> <none>				

service-03-iptv-hd-encoding-live-worker-57789d7567-llh9s	4/4	Running	0	8d
172.25.27.17 172.25.27.17 <none> <none>				
service-04-enc-hd-encoding-live-worker-67c7bff875-5gnbb	4/4	Running	9	21d
172.25.27.17 172.25.27.17 <none> <none>				
service-04-enc-sd-encoding-live-worker-6cd7f464d8-9kr8v	4/4	Running	9	21d
172.25.27.17 172.25.27.17 <none> <none>				
service-04-iptv-hd-encoding-live-worker-8d7646985-xnzwl	4/4	Running	0	8d
172.25.27.21 172.25.27.21 <none> <none>				
service-05-enc-hd-encoding-live-worker-7bff86bff-nmx4g	4/4	Running	9	21d
172.25.27.26 172.25.27.26 <none> <none>				
service-05-enc-sd-encoding-live-worker-75797fbd44-g2sv8	4/4	Running	9	21d
172.25.27.20 172.25.27.20 <none> <none>				
service-06-enc-hd-encoding-live-worker-5f8f87df9-bwdxrr	4/4	Running	9	21d
172.25.27.17 172.25.27.17 <none> <none>				
service-06-enc-sd-encoding-live-worker-6c9b7f7fd4-g66q5	4/4	Running	10	21d
172.25.27.20 172.25.27.20 <none> <none>				
service-07-enc-hd-encoding-live-worker-57bfd9bff9-25sgv	4/4	Running	0	10d
172.25.27.21 172.25.27.21 <none> <none>				
service-08-enc-hd-encoding-live-worker-6cdf78b9c9-r5fbv	4/4	Running	1	10d
172.25.27.26 172.25.27.26 <none> <none>				
service-09-enc-hd-encoding-live-worker-84f7db7dd7-pfbxg	4/4	Running	1	10d
172.25.27.21 172.25.27.21 <none> <none>				
service-dtt01-1-enc-hd-encoding-live-worker-5958cddc97-gbczc	4/4	Running	0	9d
172.25.27.21 172.25.27.21 <none> <none>				
service-dtt01-2-enc-hd-encoding-live-worker-5bdfc9dc9-rfbcc	4/4	Running	0	9d
172.25.27.26 172.25.27.26 <none> <none>				
service-dtt01-3-enc-hd-encoding-live-worker-8696d7955c-gqwxx	4/4	Running	0	9d
172.25.27.21 172.25.27.21 <none> <none>				
service-dtt01-4-enc-hd-encoding-live-worker-85f95cd6c9-vswhx	4/4	Running	0	9d
172.25.27.17 172.25.27.17 <none> <none>				
service-dtt01-5-enc-hd-encoding-live-worker-65447cbdc7-swxt2	4/4	Running	0	9d
172.25.27.20 172.25.27.20 <none> <none>				
service-dtt02-1-enc-hd-encoding-live-worker-d8bdd8c4c-knwr8	4/4	Running	0	9d
172.25.27.21 172.25.27.21 <none> <none>				
service-dtt02-2-enc-hd-encoding-live-worker-5dd4f4d445-mdtkh	4/4	Running	0	9d
172.25.27.20 172.25.27.20 <none> <none>				
service-dtt02-3-enc-hd-encoding-live-worker-65d5fb7455-5slpw	4/4	Running	0	9d
172.25.27.26 172.25.27.26 <none> <none>				
service-dtt02-4-enc-hd-encoding-live-worker-549dbbcf8f-5dxxlz	4/4	Running	0	9d
172.25.27.17 172.25.27.17 <none> <none>				
service-dtt02-5-enc-hd-encoding-live-worker-d678b88ff-pq66k	4/4	Running	0	9d
172.25.27.20 172.25.27.20 <none> <none>				
service-dtt02-6-enc-sd-encoding-live-worker-7844d9b7d4-2cnz8	4/4	Running	14	9d
172.25.27.26 172.25.27.26 <none> <none>				

get ep (end points)

'get ep' provides a list of running components along with where they are running (an IP list). In the following example, all 10.x addresses are internal kubernetes addresses, and all the 192.x addresses are the IPs of physical servers (or VMs).

kubectll -n mediakind get ep	
NAME	ENDPOINTS
AGE	
alarm	10.234.2.227:8099
78d	
alarm-proxy	10.234.3.220
78d	
alertmanager-operated	10.234.1.240:9093,10.234.2.242:9093,10.234.3.221:9093 + 6
more... 78d	
api-gateway	10.234.3.225:8443,10.234.3.225:8080
78d	
api-gateway-https	10.234.3.225:8443
78d	
automation	10.234.2.225:8094
78d	
command	10.234.1.243:8003

78d	
el-config	10.234.3.223:8093
78d	
elasticsearch-exporter	10.234.1.237:9108
78d	
elasticsearch-master	10.234.1.5:9300,10.234.2.222:9300,10.234.3.238:9300 + 3
more... 78d	
elasticsearch-master-headless	10.234.1.5:9300,10.234.2.222:9300,10.234.3.238:9300 + 3
more... 78d	
encoding-live-ui-connector	10.234.2.241:8081
78d	
esam-proxy	10.234.1.254:8010
78d	
etcd	10.234.1.245:2380,10.234.2.233:2380,10.234.3.237:2380 + 3
more... 78d	
etcd-headless	10.234.1.245:2380,10.234.2.233:2380,10.234.3.237:2380 + 3
more... 78d	
failover-api	10.234.1.236:8006
78d	
flow	<none>
78d	
interface-discovery	10.234.2.234:8200
78d	
kibana-kibana	10.234.3.233:5601
78d	
launch-control	10.234.2.221:8011
78d	
license-manager	192.168.1.182:8097,192.168.1.182:5093
76d	
live-sources-config	10.234.3.235:8089
78d	
metrics-grafana	10.234.2.230:3000
78d	
metrics-kube-state-metrics	10.234.3.218:8080
78d	
metrics-prometheus-node-exporter	192.168.1.181:9100,192.168.1.182:9100,192.168.1.183:9100 + 4
more... 78d	
metrics-prometheus-operato-alertmanager	10.234.1.240:9093,10.234.2.242:9093,10.234.3.221:9093
78d	
metrics-prometheus-operato-operator	10.234.3.219:8443,10.234.3.219:8080
78d	
metrics-prometheus-operato-prometheus	10.234.1.242:9090,10.234.2.243:9090,10.234.3.216:9090
78d	
mfvp-stats	<none>
78d	
mongodb-replicaset	10.234.1.248:27017,10.234.2.238:27017,10.234.3.230:27017
78d	
mongodb-replicaset-client	10.234.1.248:9216,10.234.2.238:9216,10.234.3.230:9216 + 3
more... 78d	
muconv-config	10.234.1.252:9881
78d	
muconv-ui-connector	10.234.3.236:5002
78d	
mux-bckp-1-stream-processor-mux	192.168.1.187:7999
42m	
mux-main-1-stream-processor-mux	192.168.1.186:7999
42m	
nielsen-rtvod-log-archiver	10.234.1.249:8096
78d	
packaging-dynamic-ui-connector	10.234.2.235:9491
78d	
packaging-recorder-ui-connector	10.234.2.239:9492
78d	
pkg-config	10.234.1.253:8091
78d	
placement-api	10.234.3.222:8005
78d	
prometheus-operated	10.234.1.242:9090,10.234.2.243:9090,10.234.3.216:9090
78d	
rabbitmq-ha	10.234.1.7:25672,10.234.2.245:25672,10.234.3.240:25672 + 9

more...	78d	
rabbitmq-ha-headless		10.234.1.7:25672, 10.234.2.245:25672, 10.234.3.240:25672 + 9
more...	78d	
redis		10.234.1.241:6379
78d		
redis-exporter-prometheus-redis-exporter		10.234.1.244:9121
78d		
server-api		10.234.2.237:8001
78d		
server-monitor		10.234.3.226
78d		
service-api		10.234.1.251:8002
78d		
snmp-notification		10.234.3.228:8008
78d		
statistic		10.234.2.228:8000
78d		
stream-processor-config		10.234.3.232:8081
78d		
stream-processor-statmux-bckp		192.168.1.187:7999
42m		
stream-processor-statmux-main		192.168.1.186:7999
43m		
stream-processor-ui-connector		10.234.1.2:5050
78d		
template-api		10.234.1.4:8004
78d		
unified-ui		10.234.3.225:8888
78d		

docker images

docker images shows all of the available docker images, with their respective software versions and ages. This is useful to see what version of say EL would be deployed when you create a POD.

docker images			TAG
REPOSITORY			
IMAGE ID	CREATED	SIZE	
mediakind/stream-processor-mux			12.0.8-136
be41349f7cfd	4 months ago	94.6MB	
mediakind/stream-processor-asi			12.0.8-136
fa6elf3057d0	4 months ago	46MB	
mediakind/stream-processor-statmux			12.0.8-136
ef89fc53c9aa	4 months ago	61.8MB	
docker-registry.kube-system:5000/mediakind/stream-processor-ui-connector			12.0.8-136
a312cf42cd1f	4 months ago	220MB	
mediakind/stream-processor-ui-connector			12.0.8-136
a312cf42cd1f	4 months ago	220MB	
mediakind/stream-processor-simulcrypt			12.0.8-136
0927719536e9	4 months ago	39.1MB	
mediakind/stream-processor-psi			12.0.8-136
93b4928d28d9	4 months ago	135MB	
mediakind/stream-processor-config			12.0.8-136
03173a0944e7	4 months ago	56.9MB	
mediakind/stream-processor-simulcrypt-control			12.0.8-136
6b433e37846b	4 months ago	48.3MB	
mediakind/encoding-live-worker			25.9.8
b3746cc51db7	4 months ago	1.31GB	
mediakind/prisma-prisma-redis			1.0.2
6ed17afd19e9	4 months ago	484MB	
mediakind/unified-ui-httpd			1.46.26-0
177701f651f6	4 months ago	52.4MB	
mediakind/unified-ui			1.46.26-0
435e3567cd64	4 months ago	208MB	
mediakind/snmp-notification			0.27.5-0
3c9e86b6f649	4 months ago	77.3MB	

mediakind/alarm-proxy		1.18.2-0
476369547902	4 months ago	46.4MB
mediakind/alarm		1.39.7-0
3494ab0793af	4 months ago	54MB
mediakind/prisma-stream-conditioning-config		10.2.6
f79135fcdca2	4 months ago	55.5MB
mediakind/prisma-http-proxy		1.1.10
73a597ce3b73	4 months ago	83.8MB
mediakind/prisma-stream-conditioning-worker		4.1.11
eebb3c01b41c	4 months ago	160MB
mediakind/prisma-content-decisioning-worker-redis		1.0.13
744674d8dc80	4 months ago	101MB
mediakind/prisma-content-decisioning-worker		1.0.13
6f56f3c1c794	4 months ago	172MB
mediakind/prisma-viewing-policy-manager-worker		1.2.14
b0e778392213	4 months ago	267MB
mediakind/prisma-manifest-conditioning-ui-connector		3.0.17
7a2b76a811fd	4 months ago	260MB
mediakind/prisma-stream-personalization-origin-redis		2.0.16
7a6f47818f98	4 months ago	98.5MB
mediakind/prisma-stream-personalization-origin		2.0.16
a66988621446	4 months ago	191MB
mediakind/prisma-content-decisioning-ui-connector		3.0.14
857c7565f245	4 months ago	263MB
mediakind/prisma-content-decisioning-config		1.1.10
129bc7e7d5eb	4 months ago	55.2MB
mediakind/prisma-stream-personalization-config		2.0.15
a6b09d82b926	4 months ago	55.1MB
mediakind/prisma-stream-personalization-ui-connector		2.0.14
82bd4bda8546	4 months ago	234MB
mediakind/prisma-viewing-policy-manager-ui-connector		3.0.18
4ba7dd89e69e	4 months ago	235MB
mediakind/prisma-viewing-policy-manager-config		1.1.10
8570d8b03776	4 months ago	55.2MB
mediakind/prisma-stream-conditioning-ui-connector		5.0.17
ac25005245a1	4 months ago	239MB
mediakind/prisma-manifest-conditioning-worker		1.1.10
8b54590e9ec4	4 months ago	155MB
mediakind/prisma-manifest-conditioning-config		1.1.10
f26a90ee9265	4 months ago	55.2MB
mediakind/prisma-eas-att		1.0.10
3682ee37fa7e	4 months ago	57.7MB
mediakind/license-manager-lserv		0.24.10-0
12ee48bb14cf	5 months ago	45MB
mediakind/license-manager-api		0.24.10-0
34a1e4b766d3	5 months ago	65.1MB
mdt-api-products		0.1.55
3375739452f1	5 months ago	263MB
mediakind/mdt-api-products		0.1.55
3375739452f1	5 months ago	263MB
mediakind/automation-config		2.3.20
319e3190e5a1	5 months ago	482MB
mediakind/packaging-playlist-generator		4.5.10
96e8f06ae2fd	5 months ago	184MB
mediakind/packaging-dvr-recorder		4.4.8
c7df2270e659	5 months ago	209MB
mediakind/packaging-origin-server		4.8.13
9739de146dfc	5 months ago	234MB
mediakind/live-sources-config		0.4.0
23c90fcb28e8	5 months ago	50MB
mediakind/encoding-live-ui-connector		2.19.0
a112bb03b613	5 months ago	142MB
mediakind/encoding-live-config		1.57.0
bc16f9f46208	5 months ago	49.4MB
docker-registry.kube-system:5000/mediakind/nielsen-rtvod-log-archiver		0.3.0
1cc46df43c29	5 months ago	78.5MB
mediakind/nielsen-rtvod-log-archiver		0.3.0
1cc46df43c29	5 months ago	78.5MB
mediakind/internal-pois-resiliency		0.2.0
89f9375a9843	5 months ago	63.8MB

mediakind/srt-worker			1.0.7-91
037189595f17	5 months ago	54.2MB	
mediakind/srt-ui-connector			1.0.7-91
e569ad049e9f	5 months ago	161MB	
mediakind/srt-config			1.0.7-91
b433774663cd	5 months ago	54.1MB	
mediakind/srt-worker-launcher			1.0.7-91
0781e000504e	5 months ago	62.5MB	
docker-registry.kube-system:5000/mediakind/service-api			0.43.7-0
57e9b3adf4af	5 months ago	52.3MB	
mediakind/service-api			0.43.7-0
57e9b3adf4af	5 months ago	52.3MB	
mediakind/automation-proxy			0.11.1
b6e6f8f354c2	5 months ago	389MB	
mediakind/server-monitor			0.24.2-0
63a0b62eebc4	6 months ago	55.4MB	
mediakind/interface-discovery			0.22.2-0
e69fd556fe38	6 months ago	94.6MB	
docker-registry.kube-system:5000/mediakind/failover-api			0.35.5-0
a17a672478e7	6 months ago	56.6MB	
mediakind/failover-api			0.35.5-0
a17a672478e7	6 months ago	56.6MB	
mediakind/alarm-adapter			0.5.2-0
482afaa84848	6 months ago	62.1MB	
mediakind/launch-control			0.10.1-0
623ad25345d1	6 months ago	79.6MB	
mediakind/placement-api			0.24.1-0
4d3f79afa507	6 months ago	48.1MB	
docker-registry.kube-system:5000/bitnami/rabbitmq			3.8.8-debian-10-r0
c0f49e44f840	7 months ago	244MB	
bitnami/rabbitmq			3.8.8-debian-10-r0
c0f49e44f840	7 months ago	244MB	
mdt-api-kube			0.1.32
42bb617642ed	7 months ago	110MB	
mediakind/mdt-api-kube			0.1.32
42bb617642ed	7 months ago	110MB	
docker-registry.kube-system:5000/mediakind/packaging-config			4.25.2
6bb207363f73	7 months ago	91.8MB	
mediakind/packaging-config			4.25.2
6bb207363f73	7 months ago	91.8MB	
oliver006/redis_exporter			v1.11.1
15e32035d1b3	7 months ago	8.9MB	
docker-registry.kube-system:5000/oliver006/redis_exporter			v1.11.1
15e32035d1b3	7 months ago	8.9MB	
mediakind/publisher			3.5.0
fd30ef9a790c	8 months ago	164MB	
mediakind/dispatcher			3.6.0
c600a697d76e	8 months ago	50.5MB	
mediakind/packaging-dynamic-ui-connector			3.16.0
c5b3cf0d72b2	8 months ago	135MB	
mediakind/packaging-vod-ui-connector			3.9.0
64f18f29ba1c	8 months ago	139MB	
mdt-ui			0.1.20
33fea366464e	8 months ago	193MB	
mediakind/mdt-ui			0.1.20
33fea366464e	8 months ago	193MB	
mdt-cli			0.1.41
e0f696c06487	8 months ago	47.9MB	
mediakind/mdt-cli			0.1.41
e0f696c06487	8 months ago	47.9MB	
mediakind/packaging-recorder-ui-connector			3.15.1
740b7ffe4b9f	8 months ago	137MB	
mediakind/server-daemon			0.26.4-0
725aab356348	9 months ago	58.3MB	
taskrabbit/elasticsearch-dump			v6.28.0
c43f685c27c7	11 months ago	151MB	
docker-registry.kube-system:5000/mediakind/command			1.12.0-0
b85824addf2d	11 months ago	47.8MB	
mediakind/command			1.12.0-0
b85824addf2d	11 months ago	47.8MB	

mediakind/statistic			2.8.0-0
al8460cfc74b	11 months ago	46.2MB	
mediakind/mfvp-probe-light			0.1.7-3
1b894ff53b96	12 months ago	60.2MB	
httpd			2.4.41-alpine
54b0995a6305	12 months ago	107MB	
mediakind/muconv-muconv			3.1.0
0059f82a331c	13 months ago	57.8MB	
mediakind/muconv-config			3.1.0
ed27df96d2ce	13 months ago	57.1MB	
docker-registry.kube-system:5000/mediakind/muconv-config			3.1.0
ed27df96d2ce	13 months ago	57.1MB	
mediakind/muconv-ui-connector			3.1.0
7687d7928bc5	13 months ago	162MB	
mediakind/server-api			0.35.0-0
d231ae3be311	13 months ago	48.6MB	
docker-registry.kube-system:5000/mediakind/esam-proxy			0.18.0-0
327228cf6c9e	13 months ago	49.9MB	
mediakind/esam-proxy			0.18.0-0
327228cf6c9e	13 months ago	49.9MB	
docker-registry.kube-system:5000/mediakind/template-api			0.24.0-0
2fe81568ae4a	13 months ago	48.7MB	
mediakind/template-api			0.24.0-0
2fe81568ae4a	13 months ago	48.7MB	
mediakind/flow			0.6.0-0
90920931e31d	13 months ago	58.2MB	
mongo			3.6.17-xenial
d3fdbdf0f17b	13 months ago	438MB	
rabbitmq			3.7.23-management-alpine
067414a4e4e2	14 months ago	139MB	
docker-registry.kube-system:5000/mongo			4.0.15
baf83034f1c8	14 months ago	417MB	
mongo			4.0.15
baf83034f1c8	14 months ago	417MB	
registry			2.7.1
708bc6af7e5e	14 months ago	25.8MB	
docker-registry.kube-system:5000/bitnami/mongodb-exporter			0.10.0-debian-9-r71
e8f8b68ace61	16 months ago	100MB	
bitnami/mongodb-exporter			0.10.0-debian-9-r71
e8f8b68ace61	16 months ago	100MB	
kibana/kibana			7.4.2
230d3ded1abc	17 months ago	1.1GB	
docker-registry.kube-system:5000/elasticsearch/elasticsearch			7.4.2
b1179d41a7b4	17 months ago	855MB	
elasticsearch/elasticsearch			7.4.2
b1179d41a7b4	17 months ago	855MB	
hyperkube-amd64			v1.13.12
461198edd8a8	18 months ago	565MB	
docker-registry.kube-system:5000/fluent/fluent-bit			1.3.2
d0e68c52f3ae	18 months ago	54.3MB	
fluent/fluent-bit			1.3.2
d0e68c52f3ae	18 months ago	54.3MB	
docker-registry.kube-system:5000/coreos/prometheus-config-reloader			v0.32.0
f5a5f5663d5f	19 months ago	17.6MB	
coreos/prometheus-config-reloader			v0.32.0
f5a5f5663d5f	19 months ago	17.6MB	
coreos/prometheus-operator			v0.32.0
8830a96dcfdc	19 months ago	42.1MB	
grafana/grafana			6.3.4
6a389498ea02	19 months ago	256MB	
docker-registry.kube-system:5000/prometheus/prometheus			v2.12.0
d5b9d7ed160a	20 months ago	138MB	
prometheus/prometheus			v2.12.0
d5b9d7ed160a	20 months ago	138MB	
kiwigrid/k8s-sidecar			0.1.20
bf8b33b96a31	20 months ago	217MB	
docker-registry.kube-system:5000/justwatch/elasticsearch_exporter			1.1.0
93101a724c1f	20 months ago	12.2MB	
justwatch/elasticsearch_exporter			1.1.0
93101a724c1f	20 months ago	12.2MB	

jettech/kube-webhook-certgen			v1.0.0
f3b9b9fa842c	21 months ago	51.5MB	
mediakind/parental-control-gateway			1.0.6-10dck2
03820904f942	22 months ago	354MB	
docker-registry.kube-system:5000/prometheus/node-exporter			v0.18.0
3a6e851e4dc2	23 months ago	22.9MB	
prometheus/node-exporter			v0.18.0
3a6e851e4dc2	23 months ago	22.9MB	
docker-registry.kube-system:5000/busybox			1.30.1
64f5d945efcc	23 months ago	1.2MB	
busybox			1.30.1
64f5d945efcc	23 months ago	1.2MB	
nginx			1.15.12
53f3fd8007f7	23 months ago	109MB	
docker-registry.kube-system:5000/untergeek/curator			5.7.6
15c67310bedb	23 months ago	81.7MB	
untergeek/curator			5.7.6
15c67310bedb	23 months ago	81.7MB	
coreos/kube-state-metrics			v1.6.0
e905d56f6477	23 months ago	35.5MB	
docker-registry.kube-system:5000/prometheus/alertmanager			v0.17.0
3ecaf19abb8e	23 months ago	51.8MB	
prometheus/alertmanager			v0.17.0
3ecaf19abb8e	23 months ago	51.8MB	
squareup/ghostunnel			v1.4.1
591ae89048d2	23 months ago	27.4MB	
mediakind/curl			7.64.0-alpine
8e30c0cc5589	2 years ago	7.08MB	
coredns			1.4.0
a9e015907f63	2 years ago	42.6MB	
bitnami/etcd			3.3.11-debian-9-r19
78c9d0340da1	2 years ago	106MB	
docker-registry.kube-system:5000/bitnami/etcd			3.3.11-debian-9-r19
78c9d0340da1	2 years ago	106MB	
chartmuseum/chartmuseum			v0.8.2
16583b259b31	2 years ago	38.1MB	
chartmuseum			v0.8.2
16583b259b31	2 years ago	38.1MB	
flannel			v0.11.0
ff281650a721	2 years ago	52.6MB	
tiller			v2.12.3
ecd91fcf9f6d	2 years ago	81.4MB	
etcd			v3.2.26
e87e7804f2f5	2 years ago	37.6MB	
kubernetes-dashboard-amd64			v1.10.1
f9aed6605b81	2 years ago	122MB	
docker-registry.kube-system:5000/mediakind/logrotate			1.1.0
a3e3e0b587ab	2 years ago	45MB	
mediakind/logrotate			1.1.0
a3e3e0b587ab	2 years ago	45MB	
docker-registry.kube-system:5000/unguiculus/mongodb-install			0.7
83f3f04e9183	2 years ago	18.9MB	
mongodb-install			0.7
83f3f04e9183	2 years ago	18.9MB	
unguiculus/mongodb-install			0.7
83f3f04e9183	2 years ago	18.9MB	
docker-registry.kube-system:5000/redis			3.2.12
87856cc39862	2 years ago	76MB	
redis			3.2.12
87856cc39862	2 years ago	76MB	
google-containers/hyperkube			v1.12.1
523f7988f7c9	2 years ago	635MB	
cluster-proportional-autoscaler-amd64			1.3.0
33813c948942	2 years ago	45.8MB	
pause-amd64			3.1
da86e6ba6ca1	3 years ago	742kB	
flannel-cni			v0.3.0
221392217215	3 years ago	49.8MB	
nfs-client-provisioner			v2.0.1
a591d84a02af	3 years ago	46.8MB	

kube-registry-proxy			0.4
60dc18151daf	4 years ago	188MB	
docker-registry.kube-system:5000/coreos/configmap-reload			v0.0.1
3129a2ca29d7	4 years ago	4.79MB	
coreos/configmap-reload			v0.0.1
3129a2ca29d7	4 years ago	4.79MB	

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