ONAP on Kubernetes on Rancher - deprecated

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20180616 this page is deprecated - use Cloud Native Deployment

This page details the Rancher RI installation independent of the deployment target (Openstack, AWS, Azure, GCD, Bare-metal, VMware)

see ONAP on Kubernetes#HardwareRequirements

Pre-requisite

The supported versions are as follows:

ONAP Release	Rancher	Kubernetes	Helm	Kubectl	Docker
Amsterdam	1.6.10	1.7.7	2.3.0	1.7.7	1.12.x
Beijing	1.6.14	1.8.10	2.8.2	1.8.10	17.03-ce

Rancher 1.6 Installation

The following is for amsterdam or master branches

Scenario: installing Rancher on clean Ubuntu 16.04 128g VM (single collocated server/host)

Note: amsterdam will require a different onap-parameters.yaml

Cloud Native Deployment#UndercloudInstall-Rancher/Kubernetes/Helm/Docker

wget https://git.onap.org/logging-analytics/plain/deploy/rancher/oom_rancher_setup.sh

clone continuous deployment script - until it is merged

```
wget https://git.onap.org/logging-analytics/plain/deploy/cd.sh
chmod 777 cd.sh
wget https://jira.onap.org/secure/attachment/ID/aaiapisimpledemoopenecomporg.cer
wget https://jira.onap.org/secure/attachment/IID/onap-parameters.yaml
wget https://jira.onap.org/secure/attachment/ID/aai-cloud-region-put.json
./cd.sh -b master -n onap
# wait about 25-120 min depending on the speed of your network pulling docker images
```

Config

Rancher Host IP or FQDN

When running the oom_rancher_setup.sh script or manually installing rancher - which IP/FQDN to use

OOM-715 - Getting issue details... STATUS

You can also edit your /etc/hosts with a hostname linked to an ip and use this name as the server - I do this for Azure.

If you cannot ping your ip then rancher will not be able to either.

do an ifconfig and pick the non-docker ip there - I have also used the 172 docker ip in public facing subnets to work around the lockdown of the 10250 port in public for crypto miners - but in a private subnet you can use the real IP.

for example

```
obrienbiometrics:logging-analytics michaelobrien$ dig beijing.onap.cloud
;; ANSWER SECTION:
                                   IN A
                         299
                                                       13.72.107.69
beijing.onap.cloud.
ubuntu@a-ons-auto-beijing:~$ ifconfig
docker0 Link encap:Ethernet HWaddr 02:42:8b:f4:74:95
         inet addr:172.17.0.1 Bcast:0.0.0.0 Mask:255.255.0.0
         Link encap:Ethernet HWaddr 00:0d:3a:1b:5e:03
eth0
         inet addr:10.0.0.4 Bcast:10.0.0.255 Mask:255.255.255.0
# i could use 172.17.0.1 only for a single collocated host
# but 10.0.0.4 is the correct IP (my public facing subnet)
# In my case I use -b beijing.onap.cloud
# but in all other cases I could use the hostname
ubuntu@a-ons-auto-beijing:~$ sudo cat /etc/hosts
127.0.0.1 a-ons-auto-beijing
```

Experimental Installation

Rancher 2.0

see https://gerrit.onap.org/r/#/c/32037/1/install/rancher/oom_rancher2_setup.sh

./oom_rancher2_setup.sh -s amsterdam.onap.info

Run above script on a clean Ubuntu 16.04 VM (you may need to set your hostname in /etc/hosts)

The cluster will be created and registered for you.

Login to port 80 and wait for the cluster to be green - then hit the kubectl button, copy paste the contents to ~/.kube/config

Result

root@ip-172-31-84-230:~# docker ps CONTAINER ID TMAGE COMMAND CREATED STATUS PORTS NAMES 66e823e8ebb8 gcr.io/google_containers/defaultbackend@sha256: 865b0c35e6da393b8e80b7e3799f777572399a4cff047eb02a81fa6e7a48ed4b "/server" 3 minutes aqo Up 3 minutes k8s_default-http-backend_default-httpbackend-66b447d9cf-t4qxx_ingress-nginx_54afe3f8-1455-11e8-b142-169c5ae1104e_0 rancher/k8s-dns-sidecar-amd64@sha256: 7c9a6eeeb557 4581bf85bd1acf6120256bb5923ec209c0a8cfb0cbe68e2c2397b30a30f3d98c "/sidecar --v=2 --..." 3 Up 3 minutes minutes ago k8s_sidecar_kube-dns-6f7666d48c-9zmtf_kube-system_51b35ec8-1455-11e8-b142-169c5ae1104e_0 72487327e65b rancher/pause-amd64: 3.0 /pause" 3 minutes ago Up 3 minutes k8s_POD_default-http-backend-66b447d9cf-t4qxx_ingress-nginx_54afe3f8-1455-11e8-b142-169c5ae1104e_0 d824193e7404 rancher/k8s-dns-dnsmasq-nanny-amd64@sha256: bd1764fed413eea950842c951f266fae84723c0894d402a3c86f56cc89124b1d "/dnsmasq-nanny -v..." 3 minutes k8s_dnsmasq_kube-dns-6f7666d48caqo Up 3 minutes 9zmtf_kube-system_51b35ec8-1455-11e8-b142-169c5ae1104e_0 rancher/k8s-dns-kube-dns-amd64@sha256: 89bdd61a99a3 9c7906c0222ad6541d24a18a0faf3b920ddf66136f45acd2788e1a2612e62331 "/kube-dns --domai..." 3 minutes ago Up 3 minutes k8s_kubedns_kube-dns-6f7666d48c-9zmtf_kube-system_51b35ec8-1455-11e8-b142-169c5ae1104e_0 7c17fc57aef9 rancher/cluster-proportional-autoscaler-amd64@sha256: 77d2544c9dfcdfcf23fa2fcf4351b43bf3a124c54f2da1f7d611ac54669e3336 "/cluster-proporti..." 3 minutes ago k8s_autoscaler_kube-dns-autoscaler-54fd4c549b-Up 3 minutes 6bm5b_kube-system_51afa75f-1455-11e8-b142-169c5ae1104e_0 024269154b8b rancher/pause-amd64: 3.0 Up 3 minutes 3 minutes ago /pause" k8s_POD_kube-dns-6f7666d48c-9zmtf_kube-system_51b35ec8-1455-11e8-b142-169c5ae1104e_0 48e039d15a90 rancher/pause-amd64: 3.0 /pause" 3 minutes ago Up 3 minutes k8s_POD_kube-dns-autoscaler-54fd4c549b-6bm5b_kube-system_51afa75f-1455-11e8-b142-169c5ae1104e_0 13bec6fda756 rancher/pause-amd64: 3.0 3 minutes ago Up 3 minutes /pause" k8s_POD_nginx-ingress-controller-vchhb_ingress-nginx_54aede27-1455-11e8-b142-169c5ae1104e_0 332073b160c9 rancher/coreos-flannel-cni@sha256: 3cf93562b936004cbe13ed7d22d1b13a273ac2b5092f87264eb77ac9c009e47f "/install-cni.sh" 3 minutes ago Up 3 minutes k8s_install-cni_kube-flanneljgx9x_kube-system_4fb9b39b-1455-11e8-b142-169c5ae1104e_0 rancher/coreos-flannel@sha256: 79ef0da922c5 93952a105b4576e8f09ab8c4e00483131b862c24180b0b7d342fb360bbe44f3d "/opt/bin /flanneld..." 3 minutes ago Up 3 minutes k8s kubeflannel_kube-flannel-jgx9x_kube-system_4fb9b39b-1455-11e8-b142-169c5ae1104e_0 300eab7db4bc rancher/pause-amd64: 3.0 /pause" 3 minutes ago Up 3 minutes k8s_POD_kube-flannel-jgx9x_kube-system_4fb9b39b-1455-11e8-b142-169c5ae1104e_0 rancher/k8s:v1.8.7-rancher1-1597f8ba9087 1 "/opt/rke /entrypoi..." 3 minutes ago Up 3 minutes kube-proxv rancher/k8s:v1.8.7-rancher1-523034c75c0e "/opt/rke 1 /entrypoi..." 4 minutes ago Up 4 minutes kubelet rancher/k8s:v1.8.7-rancher1-788d572d313e "/opt/rke 1 /entrypoi..." 4 minutes ago Up 4 minutes scheduler 9e520f4e5b01 rancher/k8s:v1.8.7-rancher1-"/opt/rke 1 /entrypoi..." 4 minutes ago Up 4 minutes kubecontroller

```
29bdb59c9164
                 rancher/k8s:v1.8.7-rancher1-
1
                                                                                   "/opt/rke
/entrypoi..." 4 minutes ago Up 4 minutes
                                                                                        kube-api
2686cc1c904a
               rancher/coreos-etcd:v3.
0.17
                                                                                       "/usr/local/bin
/et..." 4 minutes ago
                        Up 4 minutes
                                                                                    etcd
alfccc20c8e7 rancher/agent:v2.
0.2
                                                                                             "run.sh
--etcd --c..." 5 minutes ago Up 5 minutes
unruffled pike
6b01cf361a52 rancher/server:
preview
"rancher --k8s-mod..." 5 minutes ago
                                                          0.0.0.0:80->80/tcp, 0.0.0:443->443/tcp
                                      Up 5 minutes
rancher-server
```

OOM ONAP Deployment Script

OOM-716 - Getting issue details... STATUS

https://gerrit.onap.org/r/32653

Helm DevOps

https://docs.helm.sh/chart_best_practices/#requirements

Kubernetes DevOps

From original ONAP on Kubernetes page

Kubernetes specific config

https://kubernetes.io/docs/user-guide/kubectl-cheatsheet/

Deleting All Containers

Delete all the containers (and services)

./deleteAll.bash -n onap -y
in amsterdam only
./deleteAll.bash -n onap

Delete/Rerun config-init container for /dockerdata-nfs refresh

refer to the procedure as part of https://github.com/obrienlabs/onap-root/blob/master/cd.sh

Delete the config-init container and its generated /dockerdata-nfs share

There may be cases where new configuration content needs to be deployed after a pull of a new version of ONAP.

for example after pull brings in files like the following (20170902)

pot@ip-172-31-93-160:~/oom/kubernetes/oneclick# git pull										
Resolving deltas: 100% (135/135), completed with 24 local objects.										
From http://gerrit.onap.org/r/oom										
bf928c5da59ee4 master -> origin/master										
Updating bf928c5da59ee4										
kubernetes/config/docker/init/src/config/aai/aai-config/cookbooks/aai-resources/aai-resources-auth/metadata.rb 7 +										
kubernetes/config/docker/init/src/config/aai/aai-config/cookbooks/aai-resources/aai-resources-auth/recipes/aai-resources-aai-keystore.rb	I	8 +								
kubernetes/config/docker/init/src/config/aai/aai-config/cookbooks/{ajsc-aai-config => aai-resources/aai-resources-config}/CHANGELOG.md		2+-								
kubernetes/config/docker/init/src/config/aai/aai-config/cookbooks/{ajsc-aai-config => aai-resources/aai-resources-config}/README.md	Ι	4 +-								

see (worked with Zoran) blocked URLOOM-257 - DevOps: OOM config reset procedure for new /dockerdata-nfs content cLosed



Container Endpoint access

Check the services view in the Kuberntes API under robot

robot.onap-robot:88 TCP

robot.onap-robot:30209 TCP

kubectl get servicesall-namespaces -o wide								
onap-vid	vid-mariadb	None	<none></none>	3306/TCP	1h	app=vid-mariadb		
onap-vid	vid-server	10.43.14.24	4 <nodes></nodes>	8080:30200)/TCP	1h app=vid-server	r	

Container Logs

kubectlnamespace onap-vid logs -f vid-server-248645937-8tt6p											
16-Jul-2017 02:46:48.707 INFO [main] org.apache.catalina.startup.Catalina.start Server startup in 22520 ms											
kubectlnamespace onap-portal logs portalapps-2799319019-22mzl -f											
root@obriensystemskub0:~/oom/kubernetes/oneclick# kubectl get podsall-namespaces -o wide											
NAMESPACE NAME	READY	STATUS	RESTARTS	AGE IP	NODE						
onap-robot robot-44708506-dgv8j	1/1	Running	0 36m	10.42.240.80	obriensystemskub0						
root@obriensystemskub0:~/oom/kubernetes/oneclick# kubectlnamespace onap-robot logs -f robot-44708506-dgv8j											
2017-07-16 01:55:54: (log.c.164) server started											

A pods may be setup to log to a volume which can be inspected outside of a container. If you cannot connect to the container you could inspect the backing volume instead. This is how you find the backing directory for a pod which is using a volume which is an empty directory type, the log files can be found on the kubernetes node hosting the pod. More details can be found here https://kubernetes.io/docs/concepts/storage/volumes/#emptydir

here is an example of finding SDNC logs on a VM hosting a kubernetes node.

```
#find the sdnc pod name and which kubernetes node its running on.
kubectl -n onap-sdnc get all -o wide
#describe the pod to see the empty dir volume names and the pod uid
kubectl -n onap-sdnc describe po/sdnc-5b5b7bf89c-97qkx
#ssh to the VM hosting the kubernetes node if you are not alredy on the vm
ssh root@vm-host
#search the /var/lib/kubelet/pods/ directory for the log file
sudo find /var/lib/kubelet/pods/ | grep sdnc-logs
#The result is path that has the format /var/lib/kubelet/pods/<pod-uid>/volumes/kubernetes.io~empty-dir/<volume-
name>
/var/lib/kubelet/pods/d6041229-d614-11e7-9516-fa163e6ff8e8/volumes/kubernetes.io~empty-dir/sdnc-logs
/var/lib/kubelet/pods/d6041229-d614-11e7-9516-fa163e6ff8e8/volumes/kubernetes.io~empty-dir/sdnc-logs/sdnc
/var/lib/kubelet/pods/d6041229-d614-11e7-9516-fa163e6ff8e8/volumes/kubernetes.io~empty-dir/sdnc-logs/sdnc
/var/lib/kubelet/pods/d6041229-d614-11e7-9516-fa163e6ff8e8/volumes/kubernetes.io~empty-dir/sdnc-logs/sdnc
/var/lib/kubelet/pods/d6041229-d614-11e7-9516-fa163e6ff8e8/volumes/kubernetes.io~empty-dir/sdnc-logs/sdnc
/var/lib/kubelet/pods/d6041229-d614-11e7-9516-fa163e6ff8e8/volumes/kubernetes.io~empty-dir/sdnc-logs/sdnc
/var/lib/kubelet/pods/d6041229-d614-11e7-9516-fa163e6ff8e8/volumes/kubernetes.io~empty-dir/sdnc-logs/sdnc
```

```
/var/lib/kubelet/pods/d6041229-d614-11e7-9516-fa163e6ff8e8/plugins/kubernetes.io~empty-dir/sdnc-logs/var/lib/kubelet/pods/d6041229-d614-11e7-9516-fa163e6ff8e8/plugins/kubernetes.io~empty-dir/sdnc-logs/ready
```

Robot Logs

Yogini and I needed the logs in OOM Kubernetes - they were already there and with a robot:robot auth http://<your_dns_name>:30209/logs/demo/InitDistribution/report.html for example after a oom/kubernetes/robot\$./demo-k8s.sh distribute find your path to the logs by using for example root@ip-172-31-57-55:/dockerdata-nfs/onap/robot# kubectl --namespace onap-robot exec -it robot-4251390084-Imdbb bash root@robot-4251390084-Imdbb:/# ls /var/opt/OpenECOMP_ETE/html/logs/demo/InitD InitDemo/ InitDistribution/ path is http://<your_dns_name>:30209/logs/demo/InitDemo/log.html#s1-s1-s1-s1-t1

SSH into ONAP containers

Normally I would via https://kubernetes.io/docs/tasks/debug-application-cluster/get-shell-running-container/

```
Get the pod name via
kubectl get pods --all-namespaces -o wide
bash into the pod via
kubectl -n onap-mso exec -it mso-1648770403-8hwcf /bin/bash
```

Push Files to Pods

Trying to get an authorization file into the robot pod

root@obriensystemskub0:~/oom/kubernetes/oneclick# kubectl cp authorization onap-robot/robot-44708506-nhm0n:/home/ubuntu

above works? root@obriensystemskub0:~/oom/kubernetes/oneclick# kubectl cp authorization onap-robot/robot-44708506-nhm0n:/etc/lighttpd /authorization tar: authorization: Cannot open: File exists tar: Exiting with failure status due to previous errors

Redeploying Code war/jar in a docker container

see building the docker image - use your own local repo or a repo on dockerhub - modify the values.yaml and delete/create your pod to switch images

Docker DevOps#DockerBuild

example in blocked URLLOG-136 - Logging RI: Code/build/tag microservice docker image IN PROGRESS

Turn on Debugging

via URL

```
http://cd.onap.info:30223/mso/logging/debug
```

via logback.xml

Attaching a debugger to a docker container

Running ONAP Portal UI Operations

Running ONAP using the vnc-portal

see (Optional) Tutorial: Onboarding and Distributing a Vendor Software Product (VSP)

or run the vnc-portal container to access ONAP using the traditional port mappings. See the following recorded video by Mike Elliot of the OOM team for a audio-visual reference

https://wiki.onap.org/download/attachments/13598723/zoom_0.mp4?version=1&modificationDate=1502986268000&api=v2

Check for the vnc-portal port via (it is always 30211)

```
obrienbiometrics:onap michaelobrien$ ssh ubuntu@dev.onap.info
ubuntu@ip-172-31-93-122:~$ sudo su -
root@ip-172-31-93-122:~# kubectl get services --all-namespaces -o wide
                                                              EXTERNAL-IP PORT
NAMESPACE
                    NAME
                                                CLUSTER-IP
                                                                             SELECTOR
(S)
                                                                  AGE
onap-portal
                    vnc-portal
                                               10.43.78.204 <nodes>
                                                                         6080:30211/TCP,5900:30212/TCP
                                          4d
                                                   app=vnc-portal
```

launch the vnc-portal in a browser

$\leftarrow \ \Rightarrow \ C$	û	Not Secure	dev.onap	.info:3021	1/vnc.ht	ml?autoconneo	ct=1&autoscal	e=0&quality=3				
🚺 Apps 📄	Amdocs	🗶 ONAP w	a Aws	la Azure	🔿 gce	👉 obrienlabs	🕼 Rackspace	<u> L</u> ucidChart	🛨 SumoLogic	🚞 aws	🚞 mo	🎁 SSI
VN⊏												
R .									Passw	/ord:		
									Se	nd Passwo	rd	

http://dev.onap.info:30211/

password is "password"

Open firefox inside the VNC vm - launch portal normally

\leftrightarrow \rightarrow	CÔ	(i) Not Sec	cure dev.or	ap.info:302	11/vnc.h	ml?autoconne	ct=1&autoscal	e=0&quality=3	
Apps	s 🚞 Amdo	ocs 🐰 ON	AP w 🧕 AW	'S 👍 Azure	🔹 🔿 GCE	🔷 obrienlabs	🕼 Rackspace	<u> L</u> ucidChart	🕂 Si
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(portal.ap	oi.simplede	mo.openeco	mp.org:898	9/ECOMP	PORTAL/login.h	tm		
() We	ould you li	ke to impr	ove your se	arch experie	ence with	suggestions? L	earn more		
Q	http://								
2	Login —	portal.api.	simpledemo.	openecomp.	org:8989/E	COMPPORTAL/lo	gin.htm		

http://portal.api.simpledemo.onap.org: 8989/ONAPPORTAL/login.htm

For login details to get into ONAPportal, see Tutorial: Accessing the ONAP Portal

(20170906) Before running SDC - fix the /etc/hosts (thanks Yogini for catching this) - edit your /etc/hosts as follows

(change sdc.ui to sdc.api)

blocked URLOOM-282 - vnc-portal requires /etc/hosts url fix for SDC sdc.ui should be sdc.api CLOSED

🕱 hosts 🖃 📝	
He Edt Search Options HelpHe Edt Search Options# Kubernetes-managed hosts file.# Kubernetes-managed127.0.0.1localhost::1localhosti:1localhostfe00::0ip6-localnetfe00::0ip6-localnetfe00::1ip6-allnodesfe00::2ip6-allrouters10.43.104.206 sdc.api.be.simpledemo.openecomp.org10.43.231.64 portal.api.simpledemo.openecomp.org10.43.252.119 sdc.ui.simpledemo.openecomp.org10.43.36.63 vid.api.simpledemo.openecomp.org10.43.36.63 vid.api.simpledemo.openecomp.org	<pre>Help ed hosts file. calhost ip6-localhost ip6-loopback et refix es ters c-portal-700404418-vb17h api.be.simpledemo.openecomp.org capi.simpledemo.openecomp.org pi.simpledemo.openecomp.org bi.simpledemo.openecomp.org biedemo.openecomp.org biedemo.openecomp.org</pre>

login and run SDC

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portal.api.simpledemo. 🗙	🗶 (1) Maximum - Develop 🗙	+									
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Home				What are you looking	for?		TML CSS JS XH	R Fonts Images	Media	i Flash	WS Ot
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Application Onboarding	Click here to personalize				>	• 200 GE	T controller.js	🔏 port😰 scr	js -	1.41 KB	1.41 KB
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Continue with the normal ONAP demo flow at (Optional) Tutorial: Onboarding and Distributing a Vendor Software Product (VSP)

Running Multiple ONAP namespaces

Run multiple environments on the same machine - TODO

Troubleshooting

Rancher fails to restart on server reboot

Having issues after a reboot of a colocated server/agent

Installing Clean Ubuntu

apt-get install ssh

apt-get install ubuntu-desktop

DNS resolution

ignore - not relevant

Search Line limits were exceeded, some dns names have been omitted, the applied search line is: default.svc.cluster.local svc.cluster.local cluster.local kubelet.kubernetes.rancher.internal kubernetes.rancher.internal

https://github.com/rancher/rancher/issues/9303

Config Pod fails to start with Error

Make sure your Openstack parameters are set if you get the following starting up the config pod

root@obriensystemsu0:~# kubectl get pods --all-namespaces -a READY NAMESPACE NAME STATUS RESTARTS AGE heapster-4285517626-19wjp 4 kube-system 1/1Running 22d kube-dns-2514474280-4411x 3/3 Running 22d kube-system 9 kubernetes-dashboard-716739405-fg507 Running 4 2.2d 1/1kube-system kube-system monitoring-grafana-3552275057-w3xml 1/1 Running 4 2.2d kube-system monitoring-influxdb-4110454889-bwqgm 1/1 Running 4 22d kube-system tiller-deploy-737598192-84111 1/1Running 4 2.2d onap config 0/1 Error 0 1d root@obriensystemsu0:~# vi /etc/hosts root@obriensystemsu0:~# kubectl logs -n onap config Validating onap-parameters.yaml has been populated Error: OPENSTACK_UBUNTU_14_IMAGE must be set in onap-parameters.yaml + echo 'Validating onap-parameters.yaml has been populated' + [[-z '']] + echo 'Error: OPENSTACK_UBUNTU_14_IMAGE must be set in onap-parameters.yaml' + exit 1 fix root@obriensystemsu0:~/onap_1007/oom/kubernetes/config# helm delete --purge onap-config release "onap-config" deleted root@obriensystemsu0:~/onap_1007/oom/kubernetes/config# ./createConfig.sh -n onap **** Creating configuration for ONAP instance: onap Error from server (AlreadyExists): namespaces "onap" already exists NAME: onap-config LAST DEPLOYED: Mon Oct 9 21:35:27 2017 NAMESPACE: onap STATUS: DEPLOYED RESOURCES: ==> v1/ConfigMap NAME DATA AGE global-onap-configmap 15 0s ==> v1/Pod READY STATUS RESTARTS AGE NAME config 0/1 ContainerCreating 0 0s **** Done **** root@obriensystemsu0:~/onap_1007/oom/kubernetes/config# kubectl get pods --all-namespaces -a RESTARTS NAMESPACE NAME READY STATUS AGE heapster-4285517626-19wjp kube-system 1/1 Running 4 2.2d kube-system kube-dns-2514474280-4411x 3/3 Running 9 22d kubernetes-dashboard-716739405-fq507 1/1 Running 4 2.2d kube-system kube-system monitoring-grafana-3552275057-w3xml 1/1 Running 4 224 monitoring-influxdb-4110454889-bwqgm kube-system 1/1Running 4 22d tiller-deploy-737598192-84111 1/1Running 4 2.2d kube-system config 1/1 Running 0 25s onap root@obriensystemsu0:~/onap_1007/oom/kubernetes/config# kubectl get pods --all-namespaces -a NAMESPACE NAME READY STATUS RESTARTS AGE heapster-4285517626-19wjp kube-system 1/1Running 2.2d kube-system kube-dns-2514474280-4411x 3/3Running 9 2.2d kubernetes-dashboard-716739405-fq507 1/1 Running 4 22d kube-system monitoring-grafana-3552275057-w3xml 22d kube-system 1/1 Running 4 kube-system monitoring-influxdb-4110454889-bwqgm 1/1 Running 4 22d tiller-deploy-737598192-84111 kube-system 1/1 Running 4 2.2d 0/1 onap config Completed 0 1 m