

# Log Streaming Compliance and API

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This page details the current state of log streaming in ONAP and plans to increase compliance towards the goal of providing end to end log tracing (ONAP transactions, onap system, undercloud).

## ONAP Log Streaming Deployment View



Format

Library

Fields

timestampadd

t versionadd

t ACTIONadd

t API\_KEYadd

t ARTIFACT\_DATAadd

t AUTH\_STATUSadd

t AlertSeverityadd

AuditBeginTimestampadd

t AuditMessageadd

BeginTimestampadd

t CONSUMER\_IDadd

t CURR\_ARTIFACT\_UUIDadd

t CURR\_STATEadd

t CURR\_VERSIONadd

t ClassNameadd

t CustomField1add

t CustomField2add

t DESCadd

t DNOTIF\_TOPICadd

t DSTATUS\_TOPICadd

t D\_ENVadd

t ECOMP\_USERadd

t ElapsedTimeadd

EndTimestampadd

t ErrorCategoryadd

t ErrorCodeadd

t INVARIANT\_UUIDadd

t InstanceUUIDadd

t MODIFIERadd

t PREV\_ARTIFACT\_UUIDadd

t PREV\_STATEadd

t PREV\_VERSIONadd

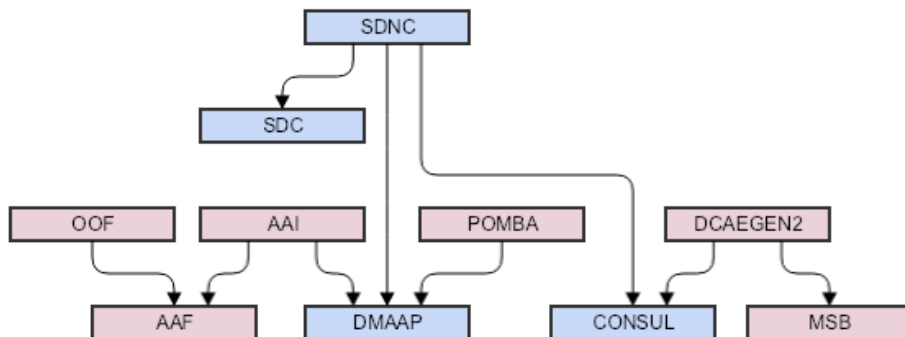
t PartnerNameadd  
t REALMadd  
t RESOURCE\_NAMEadd  
t RESOURCE\_TYPEadd  
t RemoteHostadd  
t RequestIdadd  
t ResponseCodeadd  
t ResponseDescriptionadd  
t SERVICE\_INSTANCE\_IDadd  
t STATUSadd  
t ServerFQDNadd  
t ServerIPAddressadd  
  
t ServiceInstanceIdadd  
t ServiceNameadd  
t StatusCodeadd  
t TargetEntityadd  
t TargetServiceNameadd  
t Threadadd  
t Timeradd  
Timestampadd  
t URLadd  
t USERadd  
t USER\_AFTERadd  
t USER\_BEFOREadd  
t \_idadd  
t \_indexadd  
# \_scoreadd  
t \_typeadd  
t auditOnadd  
t beat.hostnameadd  
t beat.nameadd  
t beat.versionadd  
t componentLogFileadd  
t componentNameadd  
t hostadd

```
t input_typeadd
t logleveladd
t messageadd
# offsetadd
t serviceInstanceIDadd
t sourceadd
t tagsadd
t timeradd
t typeadd
```

## Existing ONAP Logging State - Infrastructure and Schema

### Deployment Dependency Tree

Note: these dependencies - introduced using the readiness container by [Mandeep Khinda](#) are at the lowest deployment level and represent a partial view of the REST/API dependency tree - they do not reflect any compile time or runtime/injection code dependencies (pom.xml)



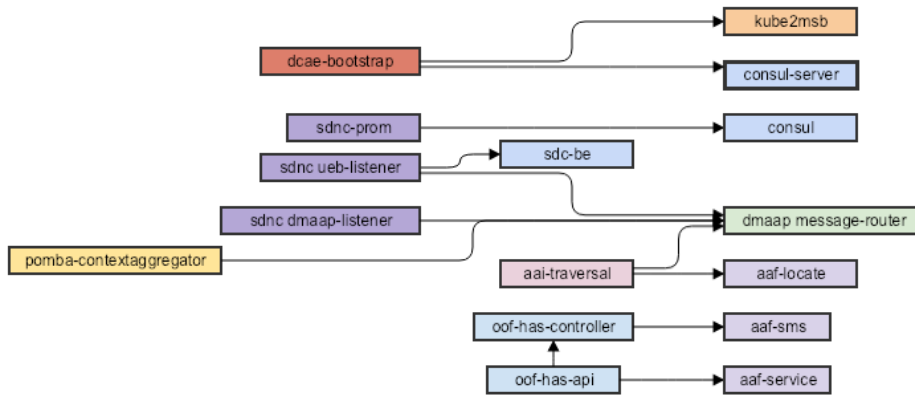
[LOG-924](#) - Getting issue details...

STATUS

tested sdnc via `sudo ./cd.sh -b master -e onap -p false -a false -t robot -x 1 -z false -f false -s 600 -c false -d true -w false -r false`

where dmaap, consul and sdc are raised first via dev0.yaml and sdnc is in dev1.yaml

### Deployment Dependency Tree - Container level



Use for any containers stuck at the 0/1 Init:0/1 stage - these are likely waiting on dependent containers  
 check the --container-name kv pair in StatefulSet/Deployment.yaml:spec:intiContainers:args  
 or the corresponding defined chart/container names in values.yaml:config:  
 106 sets in 87 files

overall order

```

aaf<-aai
aaf<-oof
music<-oof
dmaap<-aai
dmaap<-pomba
dmaap<-sdnc
consul<-sdnc
sdc<-sdnc
consul<-dcaeegen2
msb<-dcaeegen2

```

order

```

dmaap, aaf, msb, consul, dcaeegen2, aai, oof, sdc, sdnc, pomba

```

valid sets of pods

```

aaf
aai, dmaap, aaf
dcaeegen2, consul, msb
oof, aaf, music
pomba, dmaap
sdnc, consul, sdc
..the rest can be singular

```

aaf

```

  aaf-cm
  aaf-locate
  aaf-fs
  aaf-locate
  aaf-gui
  aaf-cm
  aaf-hello
  aaf-locate
  aaf-locate
  aaf-service
  aaf-oauth
  aaf-locate
  aaf-service
  aaf-cs
  aaf-sms
  aaf-sms-quorumclient (via job)
  aaf-sms-vault
  aaf-sms-vault-backend

```

aai

```
aai
  aai-resources
  aai-traversal
  aai-graphadmin
aai-champ
  aai-cassandra
aai-graphadmin
  aai-cassandra
aai-resources
  aai-cassandra
aai-sparkly-be
  aai-elasticsearch
  aai-search-data
  aai
aai-spike
  message-router-kafka
aai-traversal
  aai
  aai-cassandra
  aaf-locate (conditional)

appc
  appc
  mariadb-galera
  appc-ansible-server
  appc

clamp
  clamp
  mariadb
  clamp-dash-kibana
  clamp-dash-es
  clamp-dash-logstash
  clamp-dash-es

common
  controller-blueprints
  mariadb-galera
  mongo
  *-nfs-provisioner
  mysql
  *-nfs-provisioner
  dgbuilder
  network-name-gen
  mariadb-galera

dcae2gen2
  dcae-bootstrap
  dcae-cloudify-manager
  consul-server
  msb-discovery
  kube2msb

dep-health-init
  hbase

dmaap
  dmaap-bus-controller
  postgres
  dmaap-dr-node
  dmaap-dr-prov
  dmaap-dr-prov
  mariadb
  message-router
  kafka
  zookeeper
  message-router-kafka
  zookeeper

log
  log-kibana
  log-elasticsearch
```

```
log-logstash
  log-elasticsearch

msb
  kube2msb
    msb-discovery
  msb-discovery
    msb-consul
  msb-eag
    msb-discovery
  msb-iag
    msb-discovery

music
  music-cassandra
  music-tomcat
  zookeeper

oof
  oof-has-api
    oof-has-controller
    aaf-service
  oof-has-controller
    music-tomcat
    aaf-sms
  oof-has-data
    music-tomcat
  oof-has-reservation
    music-tomcat
  oof-has-service
    music-tomcat

policy
  policy
    mariadb
  brmsgw
    pap
  drools
    mariadb
    nexus
  pdb
    pap

pomba
  pomba-contextaggregator
    message-router
  pomba-kibana
    pomba-elasticsearch
  pomba-data-router
    pomba-search-data
  pomba-search-data
    pomba-elasticsearch

portal
  portal-widget
    portal-db
  portal-sdk
    portal-db

sdc
  sdc-dcae-be
    common.name
    sdc-be
  sdc-dcae-dt
    sdc-dcae-be
  sdc-dcae-fe
    sdc-dcae-be
  sdc-dcae-tosca-lab
    sdc-dcae-be
  sdc-fe
  sdc-kb
```



```
    sdc-wfd-fe
    sdc-wfd-be

sdnc
  sdc
    mysql
  sdnc-ansible-server
    sdc
  dmaap-listener
    mysql
    sdc
    message-router
  sdnc-portal
    mysql / sdnc-db
    sdc
  sdnc-prom
    sdc
    consul
  ueb-listener
    mysql
    sdc
    sdc-be
    message-router

so
  so
    mariadb
  so-bpmn-infra
    mariadb
  so-catalog-db-adapter
    mariadb
  so-openstack-adapter
    mariadb
  so-request-db-adapter
    mariadb
  so-sdc-adapter
    mariadb
  so-sdc-controller
    mariadb
  so-vfc-adapter
    mariadb

vfc
  vfc-catalog
    vfc-db
  vfc-ems-driver
    mariadb // commented
  vfc-generic-vnfm-driver
    mariadb // commented
  vfc-hauwei-vnfm-driver
    mariadb // commented
  vfc-juju-vnfm-driver
    mariadb // commented
  vfc-multivim-proxy
    mariadb // commented
  vfc-nokia-vnfm-driver
    mariadb // commented
  vfc-nokia-v2vnfm-driver
    mariadb // commented
  vfc-nslcm
    vfc-db
  vfc-vnfmgr
    vfc-db
  vfc-resmgr
    mariadb // commented
  vfc-workflow
    mariadb // commented
  vfc-workflow-engine
    mariadb // commented
  vfc-vnflcm
    vfc-db
```

```

vfc-vnfres
vfc-db
vfc-zte-sdnc-driver
  mariadb // commented
vfc-zte-vnfm-driver
  mariadb // commented

vid
  vid
    mariadb-galera
vnfsdk
  postgres

```

## Deployment Profiles

For use case specific deployments

```

# deployment profiles to cd.sh
# each of the 28 components in alpha sequence --set pod.enabled=true|false status
aaaccccd delmnp pprsssu vvvv
11000100 10010101 01111011 0100 - vFW - no monitoring
11000100 10110101 11111011 0100 - vFW - with monitoring
11110111 10110111 11111111 0100 - vFW - cl

```

#	Team	pod	container	Required y/n/fw/fwCl	Ram	Cpu	nodeport	Type	logback	Dependencies
	aaf									
	aai			y						
	appc			fwCL						
	clamp			fwCL						
	cli									
	consul									
				fwCL						
	dmaap			y						
	esr									
	log			n						
	sniro- emulator			n						
	oof			n						
	msb			n						
	multicloud			n						
	nbi									
	policy			y						
	pomba									
	portal			y						
	robot			y						
	sdc			y						
	sdnc			y						
	so			y						
	uui			n						
	vfc			n						
	vid			y						
	vnfsdk			n						

Pod	Container/service	Tech	URLs	Filebeat Streaming	logback.xml	library		dependencies	Log level adjust
aaf	aaf-cm aaf-fs aaf-gui aaf-hello aaf-locate aaf-oauth aaf-service aaf-sms-vault-0								
aai	aai-babel aai-champ aai-data-router aai-gizmo aai-graphadmin aai-modelloader aai-resources aai-search-data aai-sparkly-be aai-spike aai-traversal								
appc	appc-0								
clamp	-								
cli	-								
consul	-								
contrib-netbox	-								
dcaegen2	-								
dmaap	-								
esr	-								
log	-								
logdemonode	-								

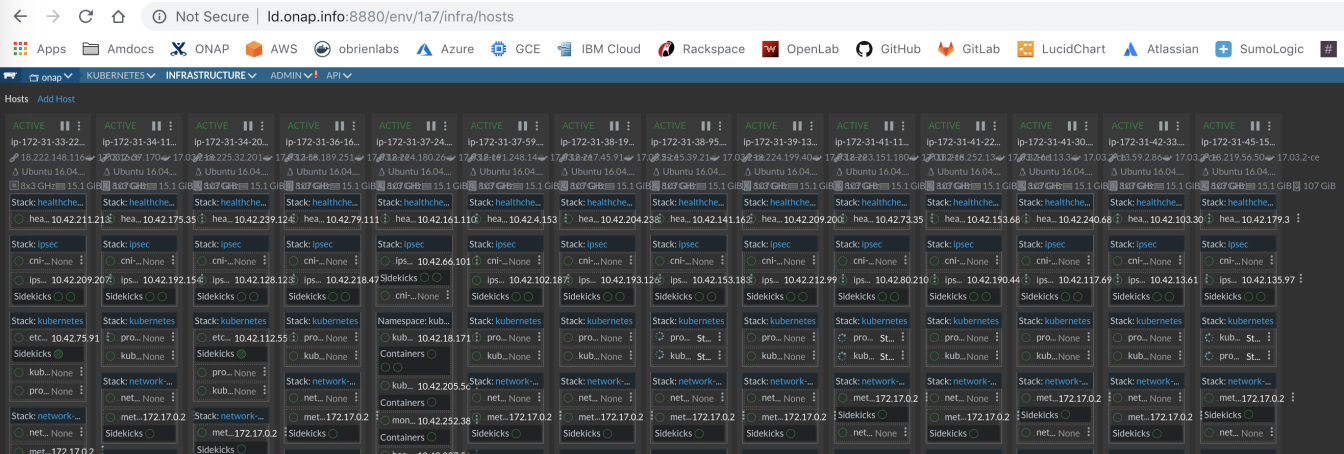
msb	<div>-</div>								
multicloud	<div>-</div>								
nbi	<div>-</div>								
oof	<div>-</div>								
policy	<div>-</div>								
pomba	<div>-</div>								
portal	<div>-</div>								
robot	<div>-</div>								
sdc	<div>-</div>								
sdnc	<div>-</div>								
sniro	<div>-</div>								
so	<div>-</div>								
uui	<div>-</div>								
vfc	<div>-</div>								
vid	<div>-</div>								
vnfsdk	<div>-</div>								
vvp	<div>-</div>								

# Deployment Profile

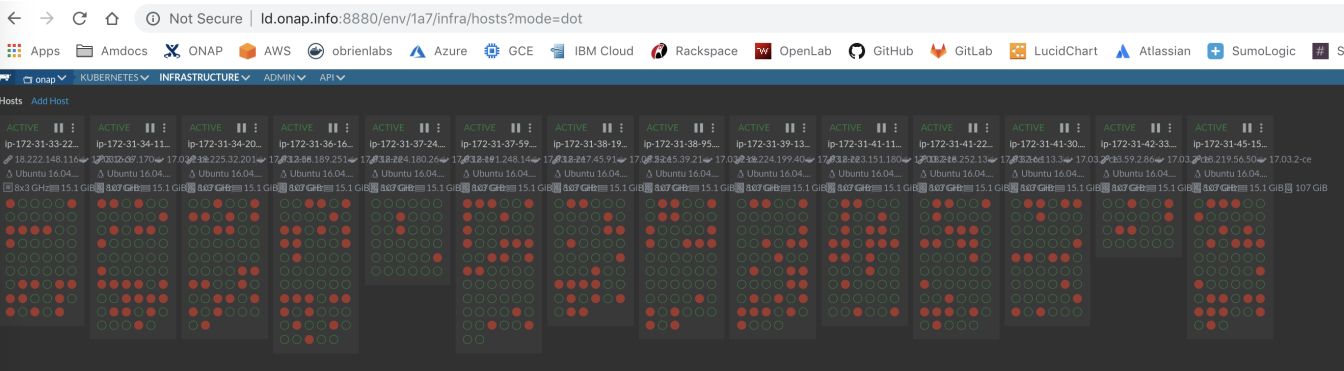
Type	VMs	Total RAM vCores HD	VM Flavor	K8S /Rancher Idle RAM	Deployed Total RAM	Deployed ONAP RAM	Pods	Max vCores	Idle vCores	HD /VM	HD NFS only	IOPS	Date	Notes deployment post 75min
Full Cluster (14 + 1) - recommended	15	224G 112 vC 100G/VM	16G, 8 vCores  C5.2xLarge		187Gb	102Gb	248 total 241 onap 217 up 0 error 24 config		18	6+G master 14 to 50 +G slave(s)	8.1G		20181106	
Single VM (possible - not recommended)	1	432G 64 vC 120G	256G+ 32+ vCores	Rancher: 13G Kubernetes: 8G Top: 10G	151Gb	141Gb	240 total 233 onap 200 up 6 error 38 config	55	22	108 of 128G	n/a	Max: 550 /sec Idle: 220 /sec	20181105	Tested on 432G /64vCore azure VM - R 1.6.22 K8S 1.11
Developer 1-n pods	1	16G 4 vC 100G	16/32G 4- 16 vCores		14Gb	10Gb				120+G	n/a			AAI+robot only

## Example 15 node (1 master + 14 nodes) OOM Deployment

empty



With ONAP deployed



## Throughput and Volumetrics

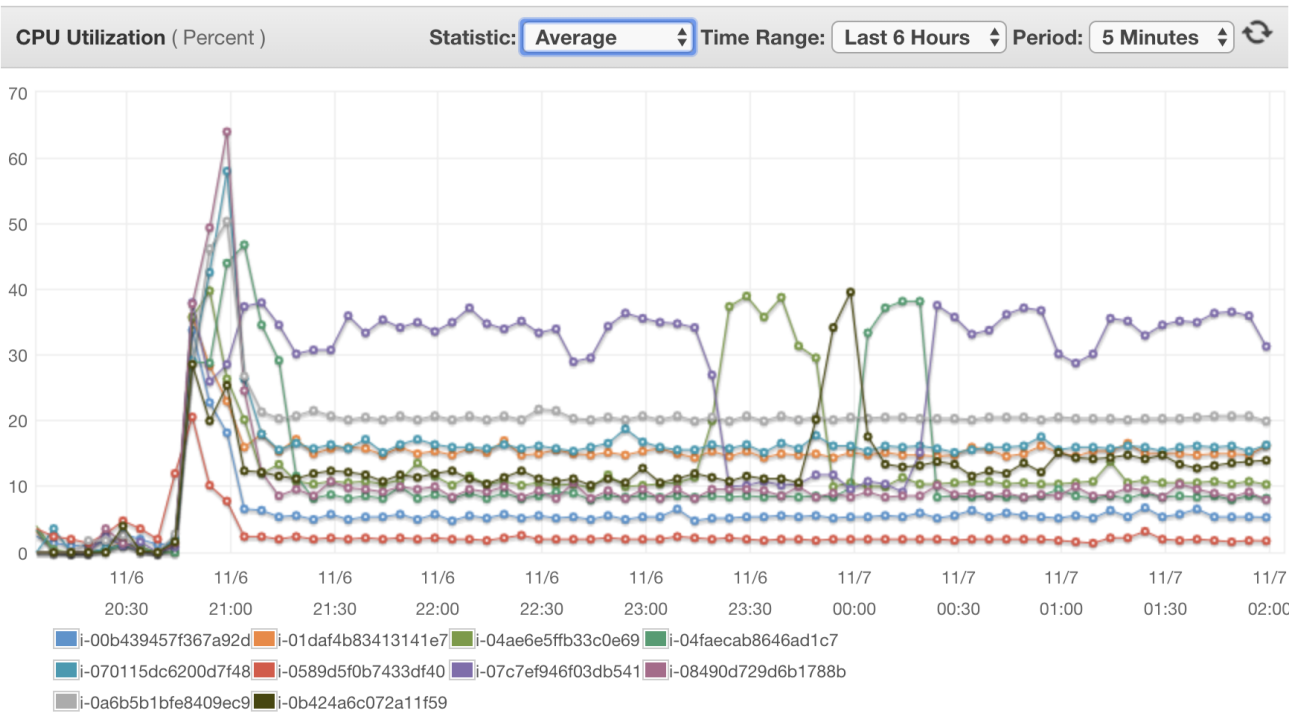
### Cloudwatch CPU Average

Specific to logging - we have a problem on any VM that contains AAI - the logstash container is being saturated there - see the 30+ percent VM -

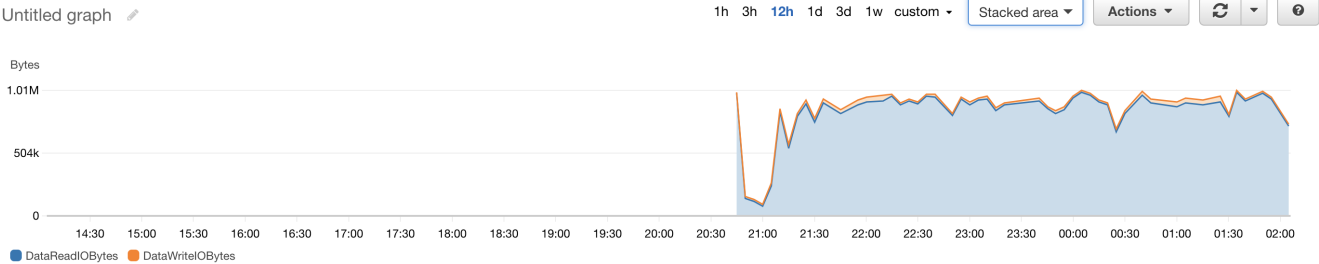
LOG-376 - Getting issue details...

STATUS

CloudWatch Monitoring Details



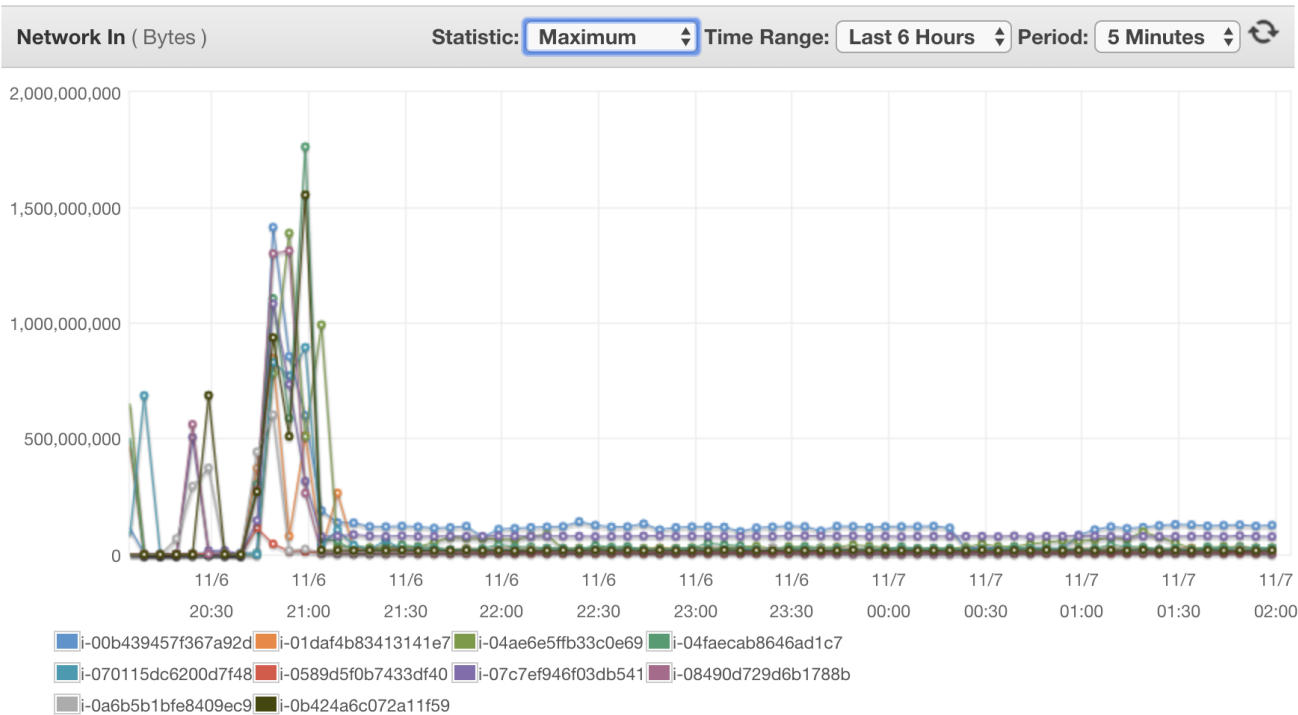
NFS Throughput for /dockerdata-nfs



All metrics	Graphed metrics (2)	Graph options	Source
All > EFS > File System Metrics      Search for any metric, dimension or resource id			
<input type="checkbox"/> FileSystemId (8)	Metric Name		
<input type="checkbox"/> fs-928c4aeb	PercentIOLimit		
<input type="checkbox"/> fs-928c4aeb	PermittedThroughput		
<input type="checkbox"/> fs-928c4aeb	BurstCreditBalance		
<input type="checkbox"/> fs-928c4aeb	MetadataIOBytes		
<input type="checkbox"/> fs-928c4aeb	ClientConnections		
<input type="checkbox"/> fs-928c4aeb	TotalIOBytes		
<input checked="" type="checkbox"/> fs-928c4aeb	DataReadIOBytes		
<input checked="" type="checkbox"/> fs-928c4aeb	DataWriteIOBytes		

Cloudwatch Network In Max

CloudWatch Monitoring Details



Details: 20181106:1800 EDT master

```
ubuntu@ip-172-31-40-250:~$ kubectl get pods --all-namespaces | wc -l
248
ubuntu@ip-172-31-40-250:~$ kubectl get pods --all-namespaces | grep onap | wc -l
241
ubuntu@ip-172-31-40-250:~$ kubectl get pods --all-namespaces | grep onap | grep -E '1/1|2/2' | wc -l
217
ubuntu@ip-172-31-40-250:~$ kubectl get pods --all-namespaces | grep onap | grep -E '0/|1/2' | wc -l
24
ubuntu@ip-172-31-40-250:~$ kubectl get pods --all-namespaces -o wide | grep onap | grep -E '0/|1/2'
```

NAME	READY	STATUS	IP	HOSTNAME	IPADDRESS	CONTAINER ID	IMAGE	AGE	RESTARTS	REASON
onap	0/1	Completed				onap-aaf-aaf-sms-preload-lvqx9		4h	0	
onap	0/1	Completed	10.42.75.71	ip-172-31-37-59.us-east-2.compute.internal		onap-aaf-aaf-sshsm-distcenter-ql5f8		4h	0	
onap	0/1	Completed	10.42.75.223	ip-172-31-34-207.us-east-2.compute.internal		onap-aaf-aaf-sshsm-testca-7rzcd		4h	0	
onap	0/1	Completed	10.42.18.37	ip-172-31-34-111.us-east-2.compute.internal		onap-aai-aai-graphadmin-create-db-schema-26pfs		4h	0	
onap	0/1	Completed	10.42.14.14	ip-172-31-37-59.us-east-2.compute.internal		onap-aai-aai-traversal-update-query-data-qlk7w		4h	0	
onap	0/1	Completed	10.42.88.122	ip-172-31-36-163.us-east-2.compute.internal		onap-contrib-netbox-app-provisioning-gmmvj		4h	0	
onap	0/1	Completed	10.42.111.99	ip-172-31-41-229.us-east-2.compute.internal		onap-contrib-netbox-app-provisioning-n6fw4		4h	0	
onap	0/1	Error	10.42.21.12	ip-172-31-36-163.us-east-2.compute.internal		onap-contrib-netbox-app-provisioning-nc8ww		4h	0	
onap	0/1	Error	10.42.109.156	ip-172-31-41-110.us-east-2.compute.internal		onap-contrib-netbox-app-provisioning-xcxdx		4h	0	
onap	0/1	Completed	10.42.152.223	ip-172-31-39-138.us-east-2.compute.internal		onap-dmaap-dmaap-dr-node-6496d8f55b-jfvrn		4h	28	
onap	0/1	Completed	10.42.95.32	ip-172-31-38-194.us-east-2.compute.internal		onap-dmaap-dmaap-dr-prov-86f79c47f9-tldsp		4h	59	
onap	0/1	Completed	10.42.76.248	ip-172-31-34-207.us-east-2.compute.internal		onap-oof-music-cassandra-job-config-7mb5f		4h	0	

```

0          4h          10.42.38.249      ip-172-31-41-110.us-east-2.compute.internal <none>
onap      onap-oof-oof-has-healthcheck-rpst7 0/1      Completed
0          4h          10.42.241.223      ip-172-31-39-138.us-east-2.compute.internal <none>
onap      onap-oof-oof-has-onboard-5bd21      0/1      Completed
0          4h          10.42.205.75       ip-172-31-38-194.us-east-2.compute.internal <none>
onap      onap-portal-portal-db-config-qshzn 0/2      Completed
0          4h          10.42.112.46       ip-172-31-45-152.us-east-2.compute.internal <none>
onap      onap-portal-portal-db-config-rk4m2 0/2      Init:Error
0          4h          10.42.57.79        ip-172-31-38-194.us-east-2.compute.internal <none>
onap      onap-sdc-sdc-be-config-backend-2vw2q 0/1      Completed
0          4h          10.42.87.181       ip-172-31-39-138.us-east-2.compute.internal <none>
onap      onap-sdc-sdc-be-config-backend-k57lh 0/1      Init:Error
0          4h          10.42.148.79       ip-172-31-45-152.us-east-2.compute.internal <none>
onap      onap-sdc-sdc-cs-config-cassandra-vgnz2 0/1      Completed
0          4h          10.42.111.187      ip-172-31-34-111.us-east-2.compute.internal <none>
onap      onap-sdc-sdc-es-config-elasticsearch-lkb9m 0/1      Completed
0          4h          10.42.20.202       ip-172-31-39-138.us-east-2.compute.internal <none>
onap      onap-sdc-sdc-onboarding-be-cassandra-init-7zv5j 0/1      Completed
0          4h          10.42.218.1        ip-172-31-41-229.us-east-2.compute.internal <none>
onap      onap-sdc-sdc-wfd-be-workflow-init-q8t7z 0/1      Completed
0          4h          10.42.255.91       ip-172-31-41-30.us-east-2.compute.internal <none>
onap      onap-vid-vid-galera-config-4f274      0/1      Completed
0          4h          10.42.80.200       ip-172-31-33-223.us-east-2.compute.internal <none>
onap      onap-vnfsdk-vnfsdk-init-postgres-lf659 0/1      Completed
0          4h          10.42.238.204      ip-172-31-38-194.us-east-2.compute.internal <none>
ubuntu@ip-172-31-40-250:~$ kubectl get pods --all-namespaces -o wide
NAMESPACE      NAME                                     READY      STATUS
RESTARTS      AGE      IP      NODE                                     NOMINATED NODE
kube-system    heapster-7b48b696fc-kxjlx             1/1        Running
0              5h       10.42.237.56 ip-172-31-37-24.us-east-2.compute.internal <none>
kube-system    kube-dns-6655f78c68-wzmvh             3/3        Running
0              5h       10.42.18.171 ip-172-31-37-24.us-east-2.compute.internal <none>
kube-system    kubernetes-dashboard-6f54f7c4b-58k4h 1/1        Running
0              5h       10.42.205.56 ip-172-31-37-24.us-east-2.compute.internal <none>
kube-system    monitoring-grafana-7877679464-9ssz5   1/1        Running
0              5h       10.42.252.38 ip-172-31-37-24.us-east-2.compute.internal <none>
kube-system    monitoring-influxdb-64664c6cf5-h4bxt   1/1        Running
0              5h       10.42.226.121 ip-172-31-37-24.us-east-2.compute.internal <none>
kube-system    tiller-deploy-6f4745cbcf-q6kxx        1/1        Running
0              5h       10.42.12.224 ip-172-31-37-24.us-east-2.compute.internal <none>
onap           dep-config-binding-service-68d9cd6f4c-9n2nf 2/2        Running
0              4h       10.42.157.143 ip-172-31-41-30.us-east-2.compute.internal <none>
onap           dep-dcae-datafile-collector-77956c65df-8mfwc 2/2        Running
0              4h       10.42.110.106 ip-172-31-41-30.us-east-2.compute.internal <none>
onap           dep-dcae-hv-ves-collector-55844fb468-9zdss 2/2        Running
0              4h       10.42.231.39 ip-172-31-45-152.us-east-2.compute.internal <none>
onap           dep-dcae-prh-74977b5fb4-n47b6          2/2        Running
0              4h       10.42.115.19 ip-172-31-39-138.us-east-2.compute.internal <none>
onap           dep-dcae-snmpttrap-collector-69f99dc589-f7ffl 1/1        Running
0              4h       10.42.173.221 ip-172-31-41-229.us-east-2.compute.internal <none>
onap           dep-dcae-tca-analytics-84fbfbcb894-xzq8c 2/2        Running
0              4h       10.42.28.146 ip-172-31-38-194.us-east-2.compute.internal <none>
onap           dep-dcae-ves-collector-98f8ccb5c-tghs4     2/2        Running
0              4h       10.42.207.99 ip-172-31-34-111.us-east-2.compute.internal <none>
onap           dep-deployment-handler-76cf6d665-tvcwp     2/2        Running
0              4h       10.42.11.59 ip-172-31-37-59.us-east-2.compute.internal <none>
onap           dep-holmes-engine-mgmt-9889496c5-2jbnb     1/1        Running
27            4h       10.42.186.10 ip-172-31-36-163.us-east-2.compute.internal <none>
onap           dep-holmes-rule-mgmt-9b49769b5-n6hqj       1/1        Running
27            4h       10.42.185.154 ip-172-31-39-138.us-east-2.compute.internal <none>
onap           dep-inventory-5c9f5bcc6d-lzgvh            1/1        Running
0              4h       10.42.68.75 ip-172-31-37-59.us-east-2.compute.internal <none>
onap           dep-policy-handler-544dcdfd75-vpsm7        2/2        Running
0              4h       10.42.233.2 ip-172-31-38-194.us-east-2.compute.internal <none>
onap           dep-pstg-write-f67b57947-mkbpq            1/1        Running
0              4h       10.42.185.41 ip-172-31-39-138.us-east-2.compute.internal <none>
onap           dep-service-change-handler-66b78745c-995ks 1/1        Running
3              4h       10.42.92.139 ip-172-31-36-163.us-east-2.compute.internal <none>
onap           onap-aaf-aaf-cm-7fcc8548cc-nrmsf          1/1        Running
0              4h       10.42.226.234 ip-172-31-45-152.us-east-2.compute.internal <none>
onap           onap-aaf-aaf-cs-5755ccf8f4-tz6fn          1/1        Running

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0	4h	10.42.181.148	ip-172-31-42-33.us-east-2.compute.internal	<none>
onap		onap-aaf-aaf-fs-7f8f9dcd74-27gfd	1/1	Running
0	4h	10.42.118.145	ip-172-31-41-30.us-east-2.compute.internal	<none>
onap		onap-aaf-aaf-gui-bfd9c7fd6-qk6zw	1/1	Running
0	4h	10.42.201.9	ip-172-31-41-229.us-east-2.compute.internal	<none>
onap		onap-aaf-aaf-hello-6447444665-5t24n	1/1	Running
0	4h	10.42.150.107	ip-172-31-41-110.us-east-2.compute.internal	<none>
onap		onap-aaf-aaf-locate-845c5867db-2q8qv	1/1	Running
0	4h	10.42.190.184	ip-172-31-39-138.us-east-2.compute.internal	<none>
onap		onap-aaf-aaf-oauth-68bc85dbd4-7qv7w	1/1	Running
0	4h	10.42.233.42	ip-172-31-38-95.us-east-2.compute.internal	<none>
onap		onap-aaf-aaf-service-69fb68d68-qhgqc	1/1	Running
0	4h	10.42.108.135	ip-172-31-38-194.us-east-2.compute.internal	<none>
onap		onap-aaf-aaf-sms-7497c9bfcc-dtc8s	1/1	Running
0	4h	10.42.85.30	ip-172-31-42-33.us-east-2.compute.internal	<none>
onap		onap-aaf-aaf-sms-preload-lvqx9	0/1	Completed
0	4h	10.42.75.71	ip-172-31-37-59.us-east-2.compute.internal	<none>
onap		onap-aaf-aaf-sms-quorumclient-0	1/1	Running
0	4h	10.42.30.16	ip-172-31-36-163.us-east-2.compute.internal	<none>
onap		onap-aaf-aaf-sms-quorumclient-1	1/1	Running
0	4h	10.42.164.247	ip-172-31-41-110.us-east-2.compute.internal	<none>
onap		onap-aaf-aaf-sms-quorumclient-2	1/1	Running
0	4h	10.42.232.51	ip-172-31-38-95.us-east-2.compute.internal	<none>
onap		onap-aaf-aaf-sms-vault-0	2/2	Running
1	4h	10.42.242.253	ip-172-31-33-223.us-east-2.compute.internal	<none>
onap		onap-aaf-aaf-sshsm-distcenter-q15f8	0/1	Completed
0	4h	10.42.75.223	ip-172-31-34-207.us-east-2.compute.internal	<none>
onap		onap-aaf-aaf-sshsm-testca-7rzc	0/1	Completed
0	4h	10.42.18.37	ip-172-31-34-111.us-east-2.compute.internal	<none>
onap		onap-aai-aai-695546c99-l4vd4	1/1	Running
0	4h	10.42.61.157	ip-172-31-41-229.us-east-2.compute.internal	<none>
onap		onap-aai-aai-babel-c489c944c-l6fxm	2/2	Running
0	4h	10.42.151.176	ip-172-31-42-33.us-east-2.compute.internal	<none>
onap		onap-aai-aai-cassandra-0	1/1	Running
0	4h	10.42.60.200	ip-172-31-34-207.us-east-2.compute.internal	<none>
onap		onap-aai-aai-cassandra-1	1/1	Running
1	4h	10.42.102.208	ip-172-31-45-152.us-east-2.compute.internal	<none>
onap		onap-aai-aai-cassandra-2	1/1	Running
0	4h	10.42.168.115	ip-172-31-36-163.us-east-2.compute.internal	<none>
onap		onap-aai-aai-champ-54f7986b6b-6qqk8	2/2	Running
0	4h	10.42.233.99	ip-172-31-41-30.us-east-2.compute.internal	<none>
onap		onap-aai-aai-data-router-5b777d798c-hkt9p	2/2	Running
0	4h	10.42.254.152	ip-172-31-41-229.us-east-2.compute.internal	<none>
onap		onap-aai-aai-elasticsearch-c9bf9dbf6-fl1jw	1/1	Running
0	4h	10.42.136.54	ip-172-31-41-110.us-east-2.compute.internal	<none>
onap		onap-aai-aai-gizmo-5f8bf54f6f-4sj45	2/2	Running
0	4h	10.42.128.212	ip-172-31-39-138.us-east-2.compute.internal	<none>
onap		onap-aai-aai-graphadmin-789c67bb8b-kd9kw	2/2	Running
0	4h	10.42.196.56	ip-172-31-38-95.us-east-2.compute.internal	<none>
onap		onap-aai-aai-graphadmin-create-db-schema-26pfs	0/1	Completed
0	4h	10.42.14.14	ip-172-31-37-59.us-east-2.compute.internal	<none>
onap		onap-aai-aai-modelloader-695fd4bf48-5gdm	2/2	Running
0	4h	10.42.188.20	ip-172-31-38-194.us-east-2.compute.internal	<none>
onap		onap-aai-aai-resources-765d6f6678-xg4jv	2/2	Running
0	4h	10.42.224.167	ip-172-31-34-111.us-east-2.compute.internal	<none>
onap		onap-aai-aai-search-data-559b8dbc7f-k549g	2/2	Running
0	4h	10.42.110.212	ip-172-31-33-223.us-east-2.compute.internal	<none>
onap		onap-aai-aai-spark-be-75658695f5-wjkzw	2/2	Running
0	4h	10.42.7.139	ip-172-31-45-152.us-east-2.compute.internal	<none>
onap		onap-aai-aai-spike-f854cf86d-fdx7j	2/2	Running
0	4h	10.42.175.92	ip-172-31-42-33.us-east-2.compute.internal	<none>
onap		onap-aai-aai-traversal-5fcc7cc847-mrqt	2/2	Running
0	4h	10.42.174.143	ip-172-31-39-138.us-east-2.compute.internal	<none>
onap		onap-aai-aai-traversal-update-query-data-qlk7w	0/1	Completed
0	4h	10.42.88.122	ip-172-31-36-163.us-east-2.compute.internal	<none>
onap		onap-appc-appc-0	2/2	Running
0	4h	10.42.106.203	ip-172-31-37-59.us-east-2.compute.internal	<none>
onap		onap-appc-appc-ansible-server-78784978b6-jrz2b	1/1	Running
0	4h	10.42.232.15	ip-172-31-38-95.us-east-2.compute.internal	<none>
onap		onap-appc-appc-cdt-d654974f6-bxhk	1/1	Running
0	4h	10.42.170.154	ip-172-31-38-194.us-east-2.compute.internal	<none>

onap		onap-appc-appc-db-0	1/1	Running
0	4h	10.42.215.183	ip-172-31-41-110.us-east-2.compute.internal	<none>
onap		onap-appc-appc-db-1	1/1	Running
1	4h	10.42.113.105	ip-172-31-41-30.us-east-2.compute.internal	<none>
onap		onap-appc-appc-db-2	1/1	Running
1	4h	10.42.245.153	ip-172-31-38-95.us-east-2.compute.internal	<none>
onap		onap-appc-appc-dgbuilder-6bdc7bd56b-ssb2p	1/1	Running
0	4h	10.42.188.237	ip-172-31-37-59.us-east-2.compute.internal	<none>
onap		onap-clamp-clamp-8cd95c6b4-kbmxg	2/2	Running
0	4h	10.42.149.44	ip-172-31-38-95.us-east-2.compute.internal	<none>
onap		onap-clamp-clamp-dash-es-5566796d7c-b2mbd	1/1	Running
0	4h	10.42.51.26	ip-172-31-36-163.us-east-2.compute.internal	<none>
onap		onap-clamp-clamp-dash-kibana-646fccf75d-vf68k	1/1	Running
0	4h	10.42.173.69	ip-172-31-34-207.us-east-2.compute.internal	<none>
onap		onap-clamp-clamp-dash-logstash-7bfc956564-xhlj5	1/1	Running
0	4h	10.42.38.41	ip-172-31-33-223.us-east-2.compute.internal	<none>
onap		onap-clamp-clampdb-6797447d-bkrbr	1/1	Running
0	4h	10.42.37.63	ip-172-31-45-152.us-east-2.compute.internal	<none>
onap		onap-cli-cli-5498964cf9-ndk74	1/1	Running
0	4h	10.42.251.86	ip-172-31-41-229.us-east-2.compute.internal	<none>
onap		onap-consul-consul-849447d678-8677q	1/1	Running
0	4h	10.42.56.217	ip-172-31-41-110.us-east-2.compute.internal	<none>
onap		onap-consul-consul-server-0	1/1	Running
0	4h	10.42.69.75	ip-172-31-34-111.us-east-2.compute.internal	<none>
onap		onap-consul-consul-server-1	1/1	Running
0	4h	10.42.156.89	ip-172-31-33-223.us-east-2.compute.internal	<none>
onap		onap-consul-consul-server-2	1/1	Running
0	4h	10.42.69.41	ip-172-31-38-194.us-east-2.compute.internal	<none>
onap		onap-contrib-netbox-app-6d4d768d9d-gksvt	1/1	Running
0	4h	10.42.179.105	ip-172-31-38-95.us-east-2.compute.internal	<none>
onap		onap-contrib-netbox-app-provisioning-gmmvj	0/1	Completed
0	4h	10.42.111.99	ip-172-31-41-229.us-east-2.compute.internal	<none>
onap		onap-contrib-netbox-app-provisioning-n6fw4	0/1	Error
0	4h	10.42.21.12	ip-172-31-36-163.us-east-2.compute.internal	<none>
onap		onap-contrib-netbox-app-provisioning-nc8ww	0/1	Error
0	4h	10.42.109.156	ip-172-31-41-110.us-east-2.compute.internal	<none>
onap		onap-contrib-netbox-app-provisioning-xcxdx	0/1	Error
0	4h	10.42.152.223	ip-172-31-39-138.us-east-2.compute.internal	<none>
onap		onap-contrib-netbox-nginx-54c979ff7f-nk5kk	1/1	Running
0	4h	10.42.244.179	ip-172-31-34-111.us-east-2.compute.internal	<none>
onap		onap-contrib-netbox-postgres-784b5d5fd9-2wdf7	1/1	Running
0	4h	10.42.175.55	ip-172-31-36-163.us-east-2.compute.internal	<none>
onap		onap-dcae-gen2-dcae-bootstrap-7bb4b6bc57-gvz47	1/1	Running
0	4h	10.42.74.208	ip-172-31-37-59.us-east-2.compute.internal	<none>
onap		onap-dcae-gen2-dcae-cloudify-manager-9cb7f4c66-7h77h	1/1	Running
0	4h	10.42.250.189	ip-172-31-36-163.us-east-2.compute.internal	<none>
onap		onap-dcae-gen2-dcae-db-0	1/1	Running
0	4h	10.42.230.118	ip-172-31-33-223.us-east-2.compute.internal	<none>
onap		onap-dcae-gen2-dcae-db-1	1/1	Running
0	4h	10.42.29.230	ip-172-31-37-24.us-east-2.compute.internal	<none>
onap		onap-dcae-gen2-dcae-healthcheck-7b664b566c-w5w4h	1/1	Running
0	4h	10.42.9.151	ip-172-31-34-111.us-east-2.compute.internal	<none>
onap		onap-dcae-gen2-dcae-pgpool-688d65b66d-jpv8x	1/1	Running
0	4h	10.42.177.56	ip-172-31-42-33.us-east-2.compute.internal	<none>
onap		onap-dcae-gen2-dcae-pgpool-688d65b66d-srm5q	1/1	Running
0	4h	10.42.164.252	ip-172-31-34-207.us-east-2.compute.internal	<none>
onap		onap-dcae-gen2-dcae-redis-0	1/1	Running
0	4h	10.42.32.17	ip-172-31-45-152.us-east-2.compute.internal	<none>
onap		onap-dcae-gen2-dcae-redis-1	1/1	Running
0	4h	10.42.52.99	ip-172-31-34-207.us-east-2.compute.internal	<none>
onap		onap-dcae-gen2-dcae-redis-2	1/1	Running
0	4h	10.42.45.144	ip-172-31-41-229.us-east-2.compute.internal	<none>
onap		onap-dcae-gen2-dcae-redis-3	1/1	Running
0	4h	10.42.79.151	ip-172-31-37-59.us-east-2.compute.internal	<none>
onap		onap-dcae-gen2-dcae-redis-4	1/1	Running
0	4h	10.42.110.141	ip-172-31-39-138.us-east-2.compute.internal	<none>
onap		onap-dcae-gen2-dcae-redis-5	1/1	Running
0	4h	10.42.253.134	ip-172-31-38-95.us-east-2.compute.internal	<none>
onap		onap-dmaap-dbc-pg-0	1/1	Running
0	4h	10.42.166.51	ip-172-31-33-223.us-east-2.compute.internal	<none>
onap		onap-dmaap-dbc-pg-1	1/1	Running

0	4h	10.42.230.243	ip-172-31-37-59.us-east-2.compute.internal	<none>
onap		onap-dmaap-dbc-pgpool-c5f8498-1r854	1/1	Running
0	4h	10.42.35.8	ip-172-31-41-229.us-east-2.compute.internal	<none>
onap		onap-dmaap-dbc-pgpool-c5f8498-m84f5	1/1	Running
0	4h	10.42.240.60	ip-172-31-38-194.us-east-2.compute.internal	<none>
onap		onap-dmaap-dmaap-bus-controller-59c96d6b8f-nlc4t	1/1	Running
0	4h	10.42.240.232	ip-172-31-37-59.us-east-2.compute.internal	<none>
onap		onap-dmaap-dmaap-dr-db-557c66dc9d-4ltgp	1/1	Running
1	4h	10.42.210.116	ip-172-31-41-110.us-east-2.compute.internal	<none>
onap		onap-dmaap-dmaap-dr-node-6496d8f55b-jfvrm	0/1	Init:0/1
28	4h	10.42.95.32	ip-172-31-38-194.us-east-2.compute.internal	<none>
onap		onap-dmaap-dmaap-dr-prov-86f79c47f9-tldsp	0/1	CrashLoopBackOff
59	4h	10.42.76.248	ip-172-31-34-207.us-east-2.compute.internal	<none>
onap		onap-dmaap-message-router-557cb765-sc4pb	1/1	Running
0	4h	10.42.157.140	ip-172-31-45-152.us-east-2.compute.internal	<none>
onap		onap-dmaap-message-router-kafka-7b4d45b44c-7g5pz	1/1	Running
0	4h	10.42.218.166	ip-172-31-34-111.us-east-2.compute.internal	<none>
onap		onap-dmaap-message-router-zookeeper-5bc7588665-pz9x5	1/1	Running
0	4h	10.42.129.130	ip-172-31-34-207.us-east-2.compute.internal	<none>
onap		onap-esr-esr-gui-6c5ccd59d6-xzh46	1/1	Running
0	4h	10.42.89.47	ip-172-31-41-30.us-east-2.compute.internal	<none>
onap		onap-esr-esr-server-5f967d4767-nl5xc	2/2	Running
0	4h	10.42.146.185	ip-172-31-41-30.us-east-2.compute.internal	<none>
onap		onap-log-log-elasticsearch-7c5b74569f-g64hw	1/1	Running
0	4h	10.42.54.225	ip-172-31-33-223.us-east-2.compute.internal	<none>
onap		onap-log-log-kibana-84b875cc6b-gdzip8	1/1	Running
0	4h	10.42.56.186	ip-172-31-36-163.us-east-2.compute.internal	<none>
onap		onap-log-log-logstash-7hmrz	1/1	Running
0	4h	10.42.200.38	ip-172-31-36-163.us-east-2.compute.internal	<none>
onap		onap-log-log-logstash-8cb9c	1/1	Running
0	4h	10.42.162.152	ip-172-31-34-207.us-east-2.compute.internal	<none>
onap		onap-log-log-logstash-8pqrp	1/1	Running
0	4h	10.42.97.239	ip-172-31-41-110.us-east-2.compute.internal	<none>
onap		onap-log-log-logstash-bvq5r	1/1	Running
0	4h	10.42.241.246	ip-172-31-42-33.us-east-2.compute.internal	<none>
onap		onap-log-log-logstash-cckqk	1/1	Running
0	4h	10.42.222.107	ip-172-31-38-194.us-east-2.compute.internal	<none>
onap		onap-log-log-logstash-gq826	1/1	Running
0	4h	10.42.129.134	ip-172-31-33-223.us-east-2.compute.internal	<none>
onap		onap-log-log-logstash-kzvbv	1/1	Running
0	4h	10.42.195.222	ip-172-31-39-138.us-east-2.compute.internal	<none>
onap		onap-log-log-logstash-mdbtv	1/1	Running
0	4h	10.42.54.127	ip-172-31-41-229.us-east-2.compute.internal	<none>
onap		onap-log-log-logstash-n78q5	1/1	Running
0	4h	10.42.22.101	ip-172-31-37-24.us-east-2.compute.internal	<none>
onap		onap-log-log-logstash-ns76c	1/1	Running
0	4h	10.42.124.239	ip-172-31-37-59.us-east-2.compute.internal	<none>
onap		onap-log-log-logstash-pvsnw	1/1	Running
0	4h	10.42.164.130	ip-172-31-45-152.us-east-2.compute.internal	<none>
onap		onap-log-log-logstash-q86z9	1/1	Running
0	4h	10.42.73.74	ip-172-31-41-30.us-east-2.compute.internal	<none>
onap		onap-log-log-logstash-skr52	1/1	Running
0	4h	10.42.0.150	ip-172-31-38-95.us-east-2.compute.internal	<none>
onap		onap-log-log-logstash-zjkph	1/1	Running
0	4h	10.42.47.5	ip-172-31-34-111.us-east-2.compute.internal	<none>
onap		onap-msb-kube2msb-5c79ddd89f-4m524	1/1	Running
0	4h	10.42.86.56	ip-172-31-34-111.us-east-2.compute.internal	<none>
onap		onap-msb-msb-consul-6949bd46f4-gsm59	1/1	Running
0	4h	10.42.19.136	ip-172-31-33-223.us-east-2.compute.internal	<none>
onap		onap-msb-msb-discovery-86c7b945f9-ffxtx	2/2	Running
0	4h	10.42.27.240	ip-172-31-45-152.us-east-2.compute.internal	<none>
onap		onap-msb-msb-eag-5f86f89c4f-4pr2t	2/2	Running
0	4h	10.42.36.35	ip-172-31-42-33.us-east-2.compute.internal	<none>
onap		onap-msb-msb-iag-56cdd4c87b-4xtz7	2/2	Running
0	4h	10.42.152.29	ip-172-31-41-30.us-east-2.compute.internal	<none>
onap		onap-multicloud-multicloud-867df449f8-gwkdw	2/2	Running
0	4h	10.42.87.4	ip-172-31-37-24.us-east-2.compute.internal	<none>
onap		onap-multicloud-multicloud-azure-5db4ddd44d-cpphs	2/2	Running
0	4h	10.42.84.246	ip-172-31-37-24.us-east-2.compute.internal	<none>
onap		onap-multicloud-multicloud-ocata-c557948df-5sgfs	2/2	Running
0	4h	10.42.39.16	ip-172-31-41-110.us-east-2.compute.internal	<none>

onap		onap-multicloud-multicloud-pike-8ff99dfb6-zmrw8	2/2	Running
0	4h	10.42.176.68 ip-172-31-39-138.us-east-2.compute.internal	<none>	
onap		onap-multicloud-multicloud-vio-866cd4bf9b-g2zlx	2/2	Running
0	4h	10.42.64.228 ip-172-31-38-95.us-east-2.compute.internal	<none>	
onap		onap-multicloud-multicloud-windriver-7775ddc4b9-4278w	2/2	Running
0	4h	10.42.87.19 ip-172-31-38-194.us-east-2.compute.internal	<none>	
onap		onap-nbi-nbi-7595d4dbc-9m95t	1/1	Running
1	4h	10.42.94.19 ip-172-31-41-30.us-east-2.compute.internal	<none>	
onap		onap-nbi-nbi-mariadb-65f556b8b7-fgjzx	1/1	Running
0	4h	10.42.195.127 ip-172-31-34-207.us-east-2.compute.internal	<none>	
onap		onap-nbi-nbi-mongo-0	1/1	Running
0	4h	10.42.184.20 ip-172-31-37-59.us-east-2.compute.internal	<none>	
onap		onap-oof-cmsso-db-0	1/1	Running
0	4h	10.42.193.70 ip-172-31-37-59.us-east-2.compute.internal	<none>	
onap		onap-oof-music-cassandra-0	1/1	Running
1	4h	10.42.189.19 ip-172-31-42-33.us-east-2.compute.internal	<none>	
onap		onap-oof-music-cassandra-1	1/1	Running
0	4h	10.42.163.171 ip-172-31-33-223.us-east-2.compute.internal	<none>	
onap		onap-oof-music-cassandra-2	1/1	Running
0	4h	10.42.195.0 ip-172-31-34-207.us-east-2.compute.internal	<none>	
onap		onap-oof-music-cassandra-job-config-7mb5f	0/1	Completed
0	4h	10.42.38.249 ip-172-31-41-110.us-east-2.compute.internal	<none>	
onap		onap-oof-music-tomcat-7974f8748c-4pgg8	1/1	Running
0	4h	10.42.118.22 ip-172-31-38-95.us-east-2.compute.internal	<none>	
onap		onap-oof-music-tomcat-7974f8748c-dxdds	1/1	Running
0	4h	10.42.159.58 ip-172-31-41-110.us-east-2.compute.internal	<none>	
onap		onap-oof-music-tomcat-7974f8748c-jh7jg	1/1	Running
0	4h	10.42.64.7 ip-172-31-45-152.us-east-2.compute.internal	<none>	
onap		onap-oof-oof-6dbf897c86-8d6bx	1/1	Running
0	4h	10.42.20.170 ip-172-31-45-152.us-east-2.compute.internal	<none>	
onap		onap-oof-oof-cmsso-service-7d54b6b478-djvdm	1/1	Running
0	4h	10.42.192.55 ip-172-31-41-229.us-east-2.compute.internal	<none>	
onap		onap-oof-oof-has-api-774f9458cb-mtfg8	1/1	Running
0	4h	10.42.208.73 ip-172-31-36-163.us-east-2.compute.internal	<none>	
onap		onap-oof-oof-has-controller-7998c7f7b6-vg6nz	1/1	Running
0	4h	10.42.91.250 ip-172-31-36-163.us-east-2.compute.internal	<none>	
onap		onap-oof-oof-has-data-5dffb4c7df-gmjzz	1/1	Running
0	4h	10.42.213.36 ip-172-31-34-207.us-east-2.compute.internal	<none>	
onap		onap-oof-oof-has-healthcheck-rpst7	0/1	Completed
0	4h	10.42.241.223 ip-172-31-39-138.us-east-2.compute.internal	<none>	
onap		onap-oof-oof-has-onboard-5bd2l	0/1	Completed
0	4h	10.42.205.75 ip-172-31-38-194.us-east-2.compute.internal	<none>	
onap		onap-oof-oof-has-reservation-59759db679-dz4cs	1/1	Running
0	4h	10.42.48.244 ip-172-31-34-111.us-east-2.compute.internal	<none>	
onap		onap-oof-oof-has-solver-5bfc76f46-hfc88	1/1	Running
0	4h	10.42.225.129 ip-172-31-33-223.us-east-2.compute.internal	<none>	
onap		onap-oof-zookeeper-0	1/1	Running
0	4h	10.42.171.61 ip-172-31-37-59.us-east-2.compute.internal	<none>	
onap		onap-oof-zookeeper-1	1/1	Running
0	4h	10.42.251.101 ip-172-31-34-111.us-east-2.compute.internal	<none>	
onap		onap-oof-zookeeper-2	1/1	Running
0	4h	10.42.65.144 ip-172-31-37-24.us-east-2.compute.internal	<none>	
onap		onap-policy-brmsgw-86dd8fc4f7-xtzk9	1/1	Running
0	4h	10.42.56.63 ip-172-31-41-30.us-east-2.compute.internal	<none>	
onap		onap-policy-drools-0	1/1	Running
0	4h	10.42.75.29 ip-172-31-41-110.us-east-2.compute.internal	<none>	
onap		onap-policy-nexus-b7f484bdb-gmn76	1/1	Running
0	4h	10.42.45.249 ip-172-31-41-229.us-east-2.compute.internal	<none>	
onap		onap-policy-pap-6555659676-77nl7	2/2	Running
0	4h	10.42.87.216 ip-172-31-36-163.us-east-2.compute.internal	<none>	
onap		onap-policy-pdp-0	2/2	Running
0	4h	10.42.63.230 ip-172-31-39-138.us-east-2.compute.internal	<none>	
onap		onap-policy-policy-apex-pdp-0	1/1	Running
0	4h	10.42.73.87 ip-172-31-38-95.us-east-2.compute.internal	<none>	
onap		onap-policy-policy-distribution-79544b78c7-hk5mk	1/1	Running
0	4h	10.42.104.145 ip-172-31-37-59.us-east-2.compute.internal	<none>	
onap		onap-policy-policydb-79cdf7cb7c-jb82c	1/1	Running
0	4h	10.42.98.252 ip-172-31-38-194.us-east-2.compute.internal	<none>	
onap		onap-pomba-pomba-aaictxbuilder-684d5977cd-sj8dm	2/2	Running
0	4h	10.42.170.23 ip-172-31-34-207.us-east-2.compute.internal	<none>	
onap		onap-pomba-pomba-contextaggregator-779745878d-4s8c9	1/1	Running

0	4h	10.42.154.6	ip-172-31-34-111.us-east-2.compute.internal	<none>
onap		onap-pomba-pomba-data-router-59bb4fd899-dc5zc	1/1	Running
0	4h	10.42.171.88	ip-172-31-38-194.us-east-2.compute.internal	<none>
onap		onap-pomba-pomba-elasticsearch-7b8bc5f864-5mjgk	1/1	Running
0	4h	10.42.111.181	ip-172-31-33-223.us-east-2.compute.internal	<none>
onap		onap-pomba-pomba-kibana-6dd8dbb68b-xltcm	1/1	Running
0	4h	10.42.181.201	ip-172-31-45-152.us-east-2.compute.internal	<none>
onap		onap-pomba-pomba-networkdiscovery-d47f68c88-j2zw4	2/2	Running
0	4h	10.42.34.101	ip-172-31-41-30.us-east-2.compute.internal	<none>
onap		onap-pomba-pomba-networkdiscoveryctxbuilder-6978dc6c79-6z7zm	2/2	Running
0	4h	10.42.116.177	ip-172-31-41-229.us-east-2.compute.internal	<none>
onap		onap-pomba-pomba-sdcctxbuilder-fcbc7f96b-nj2c9	1/1	Running
0	4h	10.42.87.59	ip-172-31-41-110.us-east-2.compute.internal	<none>
onap		onap-pomba-pomba-search-data-5b4d8f7dc6-k7qlx	2/2	Running
0	4h	10.42.37.226	ip-172-31-39-138.us-east-2.compute.internal	<none>
onap		onap-pomba-pomba-servicedecomposition-99b445978-6crkz	2/2	Running
0	4h	10.42.46.61	ip-172-31-41-110.us-east-2.compute.internal	<none>
onap		onap-pomba-pomba-validation-service-5c8454484-t4kls	1/1	Running
0	4h	10.42.235.206	ip-172-31-38-194.us-east-2.compute.internal	<none>
onap		onap-portal-portal-app-67bc49d88-tpxbq	2/2	Running
0	4h	10.42.25.53	ip-172-31-33-223.us-east-2.compute.internal	<none>
onap		onap-portal-portal-cassandra-75d4746d76-jn78x	1/1	Running
0	4h	10.42.128.240	ip-172-31-36-163.us-east-2.compute.internal	<none>
onap		onap-portal-portal-db-7b768ffcc-92q8b	1/1	Running
1	4h	10.42.187.56	ip-172-31-34-207.us-east-2.compute.internal	<none>
onap		onap-portal-portal-db-config-qshzn	0/2	Completed
0	4h	10.42.112.46	ip-172-31-45-152.us-east-2.compute.internal	<none>
onap		onap-portal-portal-db-config-rk4m2	0/2	Init:Error
0	4h	10.42.57.79	ip-172-31-38-194.us-east-2.compute.internal	<none>
onap		onap-portal-portal-sdk-59fbd4bd9d-6j9x9	2/2	Running
0	4h	10.42.217.29	ip-172-31-41-229.us-east-2.compute.internal	<none>
onap		onap-portal-portal-widget-79587fdf56-5dh2c	1/1	Running
0	4h	10.42.12.249	ip-172-31-33-223.us-east-2.compute.internal	<none>
onap		onap-portal-portal-zookeeper-7c9444bfb5-9bvqg	1/1	Running
0	4h	10.42.113.205	ip-172-31-37-59.us-east-2.compute.internal	<none>
onap		onap-robot-robot-86c5f986b7-kd257	1/1	Running
0	4h	10.42.246.138	ip-172-31-36-163.us-east-2.compute.internal	<none>
onap		onap-sdc-sdc-be-7fdc576bfb-6q5bx	2/2	Running
0	4h	10.42.142.158	ip-172-31-34-111.us-east-2.compute.internal	<none>
onap		onap-sdc-sdc-be-config-backend-2vw2q	0/1	Completed
0	4h	10.42.87.181	ip-172-31-39-138.us-east-2.compute.internal	<none>
onap		onap-sdc-sdc-be-config-backend-k57lh	0/1	Init:Error
0	4h	10.42.148.79	ip-172-31-45-152.us-east-2.compute.internal	<none>
onap		onap-sdc-sdc-cs-5b9bb5756d-28zhd	1/1	Running
1	4h	10.42.232.24	ip-172-31-37-59.us-east-2.compute.internal	<none>
onap		onap-sdc-sdc-cs-config-cassandra-vgnz2	0/1	Completed
0	4h	10.42.111.187	ip-172-31-34-111.us-east-2.compute.internal	<none>
onap		onap-sdc-sdc-es-8bdf86659-bvgj6	1/1	Running
0	4h	10.42.21.223	ip-172-31-36-163.us-east-2.compute.internal	<none>
onap		onap-sdc-sdc-es-config-elasticsearch-lkb9m	0/1	Completed
0	4h	10.42.20.202	ip-172-31-39-138.us-east-2.compute.internal	<none>
onap		onap-sdc-sdc-fe-65c95cf8bf-2944f	2/2	Running
0	4h	10.42.193.193	ip-172-31-34-207.us-east-2.compute.internal	<none>
onap		onap-sdc-sdc-kb-79bfff4cf-6p5qn	1/1	Running
0	4h	10.42.59.138	ip-172-31-34-111.us-east-2.compute.internal	<none>
onap		onap-sdc-sdc-onboarding-be-84466885d5-pwqpn	2/2	Running
0	4h	10.42.163.142	ip-172-31-45-152.us-east-2.compute.internal	<none>
onap		onap-sdc-sdc-onboarding-be-cassandra-init-7zv5j	0/1	Completed
0	4h	10.42.218.1	ip-172-31-41-229.us-east-2.compute.internal	<none>
onap		onap-sdc-sdc-wfd-be-54f49cb9f-8wmkz	1/1	Running
0	4h	10.42.69.253	ip-172-31-34-207.us-east-2.compute.internal	<none>
onap		onap-sdc-sdc-wfd-be-workflow-init-q8t7z	0/1	Completed
0	4h	10.42.255.91	ip-172-31-41-30.us-east-2.compute.internal	<none>
onap		onap-sdc-sdc-wfd-fe-585bd84f8d-grwhh	2/2	Running
0	4h	10.42.110.244	ip-172-31-38-95.us-east-2.compute.internal	<none>
onap		onap-sdcn-controller-blueprints-7c8f9dbfb7-tq4f5	1/1	Running
0	4h	10.42.200.245	ip-172-31-37-59.us-east-2.compute.internal	<none>

onap		onap-sdnc-controller-blueprints-db-0	1/1	Running
0	4h	10.42.207.149 ip-172-31-41-30.us-east-2.compute.internal	<none>	
onap		onap-sdnc-nengdb-0	1/1	Running
0	4h	10.42.211.255 ip-172-31-41-229.us-east-2.compute.internal	<none>	
onap		onap-sdnc-network-name-gen-f4ff8b99f-8bxbh	1/1	Running
0	4h	10.42.107.56 ip-172-31-41-110.us-east-2.compute.internal	<none>	
onap		onap-sdnc-sdnc-0	2/2	Running
0	4h	10.42.220.124 ip-172-31-33-223.us-east-2.compute.internal	<none>	
onap		onap-sdnc-sdnc-ansible-server-dffcf4c8b-jdpmh	1/1	Running
0	4h	10.42.84.202 ip-172-31-39-138.us-east-2.compute.internal	<none>	
onap		onap-sdnc-sdnc-db-0	2/2	Running
0	4h	10.42.45.121 ip-172-31-36-163.us-east-2.compute.internal	<none>	
onap		onap-sdnc-sdnc-dgbuilder-5496ff5f86-5127s	1/1	Running
0	4h	10.42.17.254 ip-172-31-38-95.us-east-2.compute.internal	<none>	
onap		onap-sdnc-sdnc-dmaap-listener-54f5c69c7c-bxp2n	1/1	Running
0	4h	10.42.42.177 ip-172-31-41-229.us-east-2.compute.internal	<none>	
onap		onap-sdnc-sdnc-portal-8ff4bb696-j9xz5	1/1	Running
0	4h	10.42.250.3 ip-172-31-38-95.us-east-2.compute.internal	<none>	
onap		onap-sdnc-sdnc-ueb-listener-5d5749f879-2pw5j	1/1	Running
0	4h	10.42.93.48 ip-172-31-38-194.us-east-2.compute.internal	<none>	
onap		onap-sniro-emulator-sniro-emulator-5bdc8cc4cb-qjbk8	1/1	Running
0	4h	10.42.207.251 ip-172-31-37-59.us-east-2.compute.internal	<none>	
onap		onap-so-so-7f5f98949b-w85kc	1/1	Running
0	4h	10.42.110.129 ip-172-31-39-138.us-east-2.compute.internal	<none>	
onap		onap-so-so-bpmn-infra-74fcf888b4-9tnfc	1/1	Running
0	4h	10.42.60.90 ip-172-31-37-24.us-east-2.compute.internal	<none>	
onap		onap-so-so-catalog-db-adapter-5b8cb47dc-j44bt	1/1	Running
0	4h	10.42.222.142 ip-172-31-36-163.us-east-2.compute.internal	<none>	
onap		onap-so-so-mariadb-5b5bd695c4-jdx8v	1/1	Running
0	4h	10.42.249.209 ip-172-31-37-59.us-east-2.compute.internal	<none>	
onap		onap-so-so-monitoring-855456948b-fr24q	1/1	Running
0	4h	10.42.14.54 ip-172-31-34-207.us-east-2.compute.internal	<none>	
onap		onap-so-so-openstack-adapter-c44cd98dc-pk2gb	1/1	Running
1	4h	10.42.25.240 ip-172-31-34-111.us-east-2.compute.internal	<none>	
onap		onap-so-so-request-db-adapter-745dc6677-z7tcx	1/1	Running
0	4h	10.42.186.49 ip-172-31-45-152.us-east-2.compute.internal	<none>	
onap		onap-so-so-sdc-controller-67f8cbbc7c-kdfmr	1/1	Running
0	4h	10.42.23.215 ip-172-31-41-30.us-east-2.compute.internal	<none>	
onap		onap-so-so-sdnc-adapter-5cbc5f8dd8-6k22h	1/1	Running
0	4h	10.42.14.50 ip-172-31-41-229.us-east-2.compute.internal	<none>	
onap		onap-so-so-vfc-adapter-6c5996d748-5h2jj	1/1	Running
0	4h	10.42.205.174 ip-172-31-41-110.us-east-2.compute.internal	<none>	
onap		onap-uui-uui-d5ff69677-xkmaq2	1/1	Running
0	4h	10.42.157.9 ip-172-31-38-194.us-east-2.compute.internal	<none>	
onap		onap-uui-uui-server-7cc8bcb956-c28g5	1/1	Running
0	4h	10.42.245.99 ip-172-31-38-95.us-east-2.compute.internal	<none>	
onap		onap-vfc-vfc-catalog-66dd84cc97-htgsr	2/2	Running
0	4h	10.42.248.74 ip-172-31-37-59.us-east-2.compute.internal	<none>	
onap		onap-vfc-vfc-db-65d8fd5567-25z45	1/1	Running
0	4h	10.42.181.50 ip-172-31-37-24.us-east-2.compute.internal	<none>	
onap		onap-vfc-vfc-ems-driver-6f5fd887db-hrh7q	1/1	Running
0	4h	10.42.28.44 ip-172-31-36-163.us-east-2.compute.internal	<none>	
onap		onap-vfc-vfc-generic-vnfm-driver-7964b7f4cc-nd2d2	2/2	Running
1	4h	10.42.172.200 ip-172-31-34-207.us-east-2.compute.internal	<none>	
onap		onap-vfc-vfc-huawei-vnfm-driver-6c5676758d-vs8fh	2/2	Running
0	4h	10.42.58.24 ip-172-31-34-111.us-east-2.compute.internal	<none>	
onap		onap-vfc-vfc-juju-vnfm-driver-67b9c4bb4c-fhv45	2/2	Running
0	4h	10.42.10.58 ip-172-31-41-30.us-east-2.compute.internal	<none>	
onap		onap-vfc-vfc-multivim-proxy-5f6f455bfd-tg7m2	1/1	Running
0	4h	10.42.51.118 ip-172-31-41-229.us-east-2.compute.internal	<none>	
onap		onap-vfc-vfc-nokia-v2vnfm-driver-6f7646f69d-22p88	1/1	Running
0	4h	10.42.158.31 ip-172-31-41-110.us-east-2.compute.internal	<none>	
onap		onap-vfc-vfc-nokia-vnfm-driver-7c9d59597f-gkmct	2/2	Running
0	4h	10.42.184.15 ip-172-31-39-138.us-east-2.compute.internal	<none>	
onap		onap-vfc-vfc-nsldm-c8478dcc8-cn1vd	2/2	Running
0	4h	10.42.144.183 ip-172-31-38-95.us-east-2.compute.internal	<none>	
onap		onap-vfc-vfc-resmgr-6d7d7bc78b-f5v88	2/2	Running
0	4h	10.42.255.238 ip-172-31-37-24.us-east-2.compute.internal	<none>	
onap		onap-vfc-vfc-vnflcm-fb656d967-p6wh2	2/2	Running
0	4h	10.42.56.73 ip-172-31-36-163.us-east-2.compute.internal	<none>	
onap		onap-vfc-vfc-vnfmgr-66d5cd85f7-ld4v4	2/2	Running

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0          4h          10.42.121.241   ip-172-31-34-207.us-east-2.compute.internal   <none>
onap       onap-vfc-vfc-vnfres-7757d4b486-bkqqz          2/2          Running
0          4h          10.42.100.120   ip-172-31-34-111.us-east-2.compute.internal   <none>
onap       onap-vfc-vfc-workflow-68f85b8fcf-mxgwl          1/1          Running
0          4h          10.42.72.65      ip-172-31-45-152.us-east-2.compute.internal   <none>
onap       onap-vfc-vfc-workflow-engine-7d76bb4b56-tj6ks          1/1          Running
0          4h          10.42.48.13      ip-172-31-33-223.us-east-2.compute.internal   <none>
onap       onap-vfc-vfc-zte-sdnc-driver-58d4fc6d9f-hk4d9          1/1          Running
0          4h          10.42.245.72     ip-172-31-41-30.us-east-2.compute.internal   <none>
onap       onap-vfc-vfc-zte-vnfm-driver-fc669cc8d-64k6j          2/2          Running
1          4h          10.42.68.226     ip-172-31-41-229.us-east-2.compute.internal   <none>
onap       onap-vid-vid-5cb464799b-fw69j          2/2          Running
0          4h          10.42.21.193     ip-172-31-41-110.us-east-2.compute.internal   <none>
onap       onap-vid-vid-galera-config-4f274          0/1          Completed
0          4h          10.42.80.200     ip-172-31-33-223.us-east-2.compute.internal   <none>
onap       onap-vid-vid-mariadb-galera-0          1/1          Running
0          4h          10.42.40.225     ip-172-31-45-152.us-east-2.compute.internal   <none>
onap       onap-vnfsdk-vnfsdk-6b45bfff4-phcwx          1/1          Running
0          4h          10.42.32.180     ip-172-31-38-95.us-east-2.compute.internal   <none>
onap       onap-vnfsdk-vnfsdk-init-postgres-lf659          0/1          Completed
0          4h          10.42.238.204     ip-172-31-38-194.us-east-2.compute.internal   <none>
onap       onap-vnfsdk-vnfsdk-pgpool-6874f7b695-69njk          1/1          Running
0          4h          10.42.239.14      ip-172-31-36-163.us-east-2.compute.internal   <none>
onap       onap-vnfsdk-vnfsdk-pgpool-6874f7b695-pjmwmp          1/1          Running
0          4h          10.42.171.177     ip-172-31-39-138.us-east-2.compute.internal   <none>
onap       onap-vnfsdk-vnfsdk-postgres-0          1/1          Running
0          4h          10.42.106.183     ip-172-31-37-59.us-east-2.compute.internal   <none>
onap       onap-vnfsdk-vnfsdk-postgres-1          1/1          Running
0          4h          10.42.47.66      ip-172-31-41-229.us-east-2.compute.internal   <none>
ubuntu@ip-172-31-40-250:~$ kubectl get nodes -o wide
NAME                                     STATUS      ROLES    AGE      VERSION      INTERNAL-IP
EXTERNAL-IP    OS-IMAGE      KERNEL-VERSION CONTAINER-RUNTIME
ip-172-31-33-223.us-east-2.compute.internal Ready      <none>    5h       v1.11.2-rancher1  18.222.148.116
18.222.148.116  Ubuntu 16.04.1 LTS  4.4.0-1049-aws  docker://17.3.2
ip-172-31-34-111.us-east-2.compute.internal Ready      <none>    5h       v1.11.2-rancher1  3.16.37.170
3.16.37.170    Ubuntu 16.04.1 LTS  4.4.0-1049-aws  docker://17.3.2
ip-172-31-34-207.us-east-2.compute.internal Ready      <none>    5h       v1.11.2-rancher1  18.225.32.201
18.225.32.201  Ubuntu 16.04.1 LTS  4.4.0-1049-aws  docker://17.3.2
ip-172-31-36-163.us-east-2.compute.internal Ready      <none>    5h       v1.11.2-rancher1  13.58.189.251
13.58.189.251  Ubuntu 16.04.1 LTS  4.4.0-1049-aws  docker://17.3.2
ip-172-31-37-24.us-east-2.compute.internal Ready      <none>    5h       v1.11.2-rancher1  18.224.180.26
18.224.180.26  Ubuntu 16.04.1 LTS  4.4.0-1049-aws  docker://17.3.2
ip-172-31-37-59.us-east-2.compute.internal Ready      <none>    5h       v1.11.2-rancher1  18.191.248.14
18.191.248.14  Ubuntu 16.04.1 LTS  4.4.0-1049-aws  docker://17.3.2
ip-172-31-38-194.us-east-2.compute.internal Ready      <none>    4h       v1.11.2-rancher1  18.217.45.91
18.217.45.91  Ubuntu 16.04.1 LTS  4.4.0-1049-aws  docker://17.3.2
ip-172-31-38-95.us-east-2.compute.internal Ready      <none>    4h       v1.11.2-rancher1  52.15.39.21
52.15.39.21    Ubuntu 16.04.1 LTS  4.4.0-1049-aws  docker://17.3.2
ip-172-31-39-138.us-east-2.compute.internal Ready      <none>    4h       v1.11.2-rancher1  18.224.199.40
18.224.199.40  Ubuntu 16.04.1 LTS  4.4.0-1049-aws  docker://17.3.2
ip-172-31-41-110.us-east-2.compute.internal Ready      <none>    4h       v1.11.2-rancher1  18.223.151.180
18.223.151.180 Ubuntu 16.04.1 LTS  4.4.0-1049-aws  docker://17.3.2
ip-172-31-41-229.us-east-2.compute.internal Ready      <none>    5h       v1.11.2-rancher1  18.218.252.13
18.218.252.13  Ubuntu 16.04.1 LTS  4.4.0-1049-aws  docker://17.3.2
ip-172-31-41-30.us-east-2.compute.internal Ready      <none>    4h       v1.11.2-rancher1  3.16.113.3
3.16.113.3     Ubuntu 16.04.1 LTS  4.4.0-1049-aws  docker://17.3.2
ip-172-31-42-33.us-east-2.compute.internal Ready      <none>    5h       v1.11.2-rancher1  13.59.2.86
13.59.2.86     Ubuntu 16.04.1 LTS  4.4.0-1049-aws  docker://17.3.2
ip-172-31-45-152.us-east-2.compute.internal Ready      <none>    4h       v1.11.2-rancher1  18.219.56.50
18.219.56.50   Ubuntu 16.04.1 LTS  4.4.0-1049-aws  docker://17.3.2
ubuntu@ip-172-31-40-250:~$ kubectl top nodes
NAME                                     CPU(cores)   CPU%      MEMORY(bytes)  MEMORY%
ip-172-31-33-223.us-east-2.compute.internal 852m         10%       13923Mi        90%
ip-172-31-34-111.us-east-2.compute.internal 1160m        14%       11643Mi        75%
ip-172-31-34-207.us-east-2.compute.internal 1101m        13%       7981Mi         51%
ip-172-31-36-163.us-east-2.compute.internal 656m         8%        13377Mi        87%
ip-172-31-37-24.us-east-2.compute.internal 401m         5%        8543Mi         55%
ip-172-31-37-59.us-east-2.compute.internal 711m         8%        10873Mi        70%
ip-172-31-38-194.us-east-2.compute.internal 1136m        14%       8195Mi         53%
ip-172-31-38-95.us-east-2.compute.internal 1195m        14%       9127Mi         59%
ip-172-31-39-138.us-east-2.compute.internal 296m         3%        10870Mi        70%

```

ip-172-31-41-110.us-east-2.compute.internal	2586m	32%	10950Mi	71%
ip-172-31-41-229.us-east-2.compute.internal	159m	1%	9138Mi	59%
ip-172-31-41-30.us-east-2.compute.internal	180m	2%	9862Mi	64%
ip-172-31-42-33.us-east-2.compute.internal	1573m	19%	6352Mi	41%
ip-172-31-45-152.us-east-2.compute.internal	1579m	19%	10633Mi	69%

ubuntu@ip-172-31-40-250:~/oom/kubernetes/robot\$ sudo ./ete-k8s.sh onap health

./ete-k8s.sh: 22: [: onap: unexpected operator

./ete-k8s.sh: 22: [: health: unexpected operator

+ export NAMESPACE=onap

Testsuites

=====  
Testsuites.Health-Check :: Testing ecomp components are available via calls.  
=====

Basic A&AI Health Check | PASS |

-----  
Basic AAF Health Check | PASS |

-----  
Basic AAF SMS Health Check | PASS |

-----  
Basic APPC Health Check | PASS |

-----  
Basic CLI Health Check | PASS |

-----  
Basic CLAMP Health Check | PASS |

-----  
Basic DCAE Health Check | PASS |

-----  
Basic DMAAP Data Router Health Check [ WARN ] Retrying (Retry(total=2, connect=None, read=None, redirect=None, status=None)) after connection broken by 'NewConnectionError('<urllib3.connection.HTTPConnection object at 0x7f536960ea50>: Failed to establish a new connection: [Errno 111] Connection refused',)': /internal/fetchProv  
[ WARN ] Retrying (Retry(total=1, connect=None, read=None, redirect=None, status=None)) after connection broken by 'NewConnectionError('<urllib3.connection.HTTPConnection object at 0x7f536972e450>: Failed to establish a new connection: [Errno 111] Connection refused',)': /internal/fetchProv  
[ WARN ] Retrying (Retry(total=0, connect=None, read=None, redirect=None, status=None)) after connection broken by 'NewConnectionError('<urllib3.connection.HTTPConnection object at 0x7f5369617090>: Failed to establish a new connection: [Errno 111] Connection refused',)': /internal/fetchProv  
| FAIL |

ConnectionError: HTTPConnectionPool(host='dmaap-dr-node.onap', port=8080): Max retries exceeded with url: /internal/fetchProv (Caused by NewConnectionError('<urllib3.connection.HTTPConnection object at 0x7f5369d21850>: Failed to establish a new connection: [Errno 111] Connection refused',))

-----  
Basic DMAAP Message Router Health Check | PASS |

-----  
Basic External API NBI Health Check | PASS |

-----  
Basic Log Elasticsearch Health Check | PASS |

-----  
Basic Log Kibana Health Check | PASS |

-----  
Basic Log Logstash Health Check | PASS |

-----  
Basic Microservice Bus Health Check | PASS |

-----  
Basic Multicloud API Health Check | PASS |

-----  
Basic Multicloud-ocata API Health Check | PASS |

-----  
Basic Multicloud-pike API Health Check | PASS |

-----  
Basic Multicloud-titanium\_cloud API Health Check | PASS |

-----  
Basic Multicloud-vio API Health Check | PASS |

-----  
Basic OOF-Homing Health Check | PASS |

-----  
Basic OOF-SNIRO Health Check | PASS |

-----  
Basic OOF-CMSO Health Check | PASS |

-----  
Basic Policy Health Check | PASS |



```

-----
Basic Pomba AAI-context-builder Health Check | PASS |
-----
Basic Pomba SDC-context-builder Health Check | PASS |
-----
Basic Pomba Network-discovery-context-builder Health Check | PASS |
-----
Basic Portal Health Check | PASS |
-----
Basic SDC Health Check (DMaaP:UP) | PASS |
-----
Basic SDNC Health Check | PASS |
-----
Basic SO Health Check | PASS |
-----
Basic UseCaseUI API Health Check | PASS |
-----
Basic VFC catalog API Health Check | PASS |
-----
Basic VFC emsdriver API Health Check | PASS |
-----
Basic VFC gvnfmdriver API Health Check | PASS |
-----
Basic VFC huaweivnmfdriver API Health Check | PASS |
-----
Basic VFC jujuvnmfdriver API Health Check | PASS |
-----
Basic VFC multivimproxy API Health Check | PASS |
-----
Basic VFC nokiavnmfdriver API Health Check | PASS |
-----
Basic VFC nokiav2driver API Health Check | PASS |
-----
Basic VFC nslcm API Health Check | PASS |
-----
Basic VFC resmgr API Health Check | PASS |
-----
Basic VFC vnflcm API Health Check | PASS |
-----
Basic VFC vnfmgr API Health Check | PASS |
-----
Basic VFC vnfres API Health Check | PASS |
-----
Basic VFC workflow API Health Check | PASS |
-----
Basic VFC ztesdncdriver API Health Check | PASS |
-----
Basic VFC ztevnfmdriver API Health Check | PASS |
-----
Basic VID Health Check | PASS |
-----
Basic VNFSDK Health Check | PASS |
-----
Basic Holmes Rule Management API Health Check | FAIL |
502 != 200
-----
Basic Holmes Engine Management API Health Check | FAIL |
502 != 200
-----
Testsuites.Health-Check :: Testing ecomp components are available ... | FAIL |
51 critical tests, 48 passed, 3 failed
51 tests total, 48 passed, 3 failed

```

## ONAP Module Dependencies - Compile and Runtime

## Existing Library Research

Portal/SDK

SO

AAI

## Library Selected for Reference Implementation

Java

Python

## Specification

Developed in Casablanca - implemented in Dublin - [ONAP Application Logging Specification v1.2 \(Casablanca\)](#)

## Use Cases

Design Issues

## Developer Guide

## Testing Guide

## Change Log