

# Logging User Guide

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see: [LOG-66](#) - Getting issue details... [STATUS](#)

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## Quickstart - getting your ELK Dashboard up

[Logging Analytics Dashboards \(Kibana\)](#)

### Enabling the ELK stack

Target the VM in your cluster that is running log-kibana - in the live CD system for example it is usually on <http://master3.onap.info:30253>

The index needs to be enabled - this is currently being automated in [LOG-152](#) - Getting issue details... [STATUS](#) for now you can flip the following dropdown.

Management / Kibana

Index Patterns Saved Objects Advanced Settings

**Warning**  
No default index pattern. You must select or create one to continue.

**Configure an index pattern**

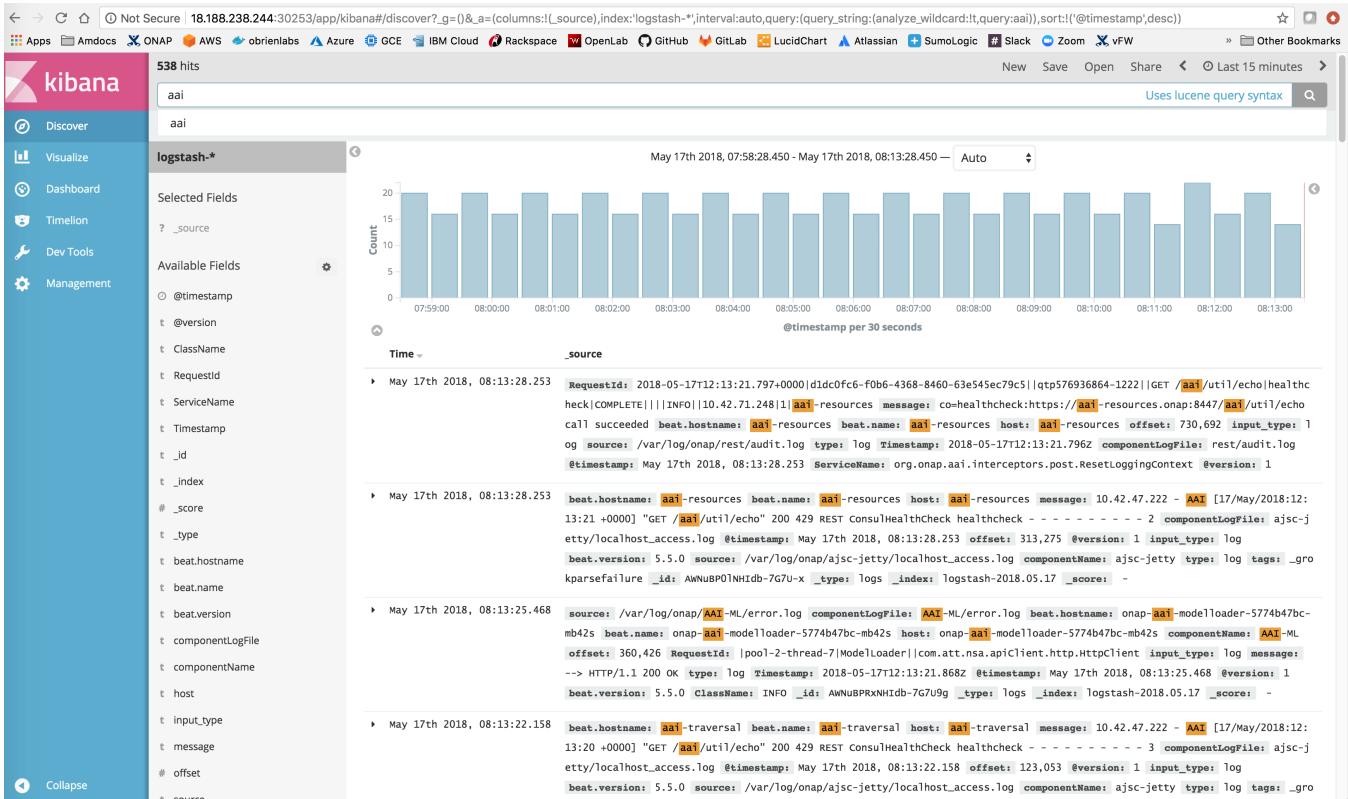
**Index name or pattern**  
logstash-\*

Patterns allow you to define dynamic index names using \* as a wildcard. E

**Time Filter field name** refresh fields

I don't want to use the Time Filter  
✓ @timestamp  
BeginTimestamp  
EndTimestamp

You will be able to search on logs - separate from also using the kibana dashboards.



## Troubleshooting:

```
# check indices to verify data exists in Elasticsearch
root@k8s:~# curl -u elastic:changeme http://127.0.0.1:30254/_cat/indices
red open .monitoring-es-6-2017.10.04 X9nA9PHsR92u9VA1EjvrJA 1 1
yellow open .monitoring-es-6-2017.10.05 GEWfbYV8Qu632lLcOaGufg 1 1 70825 324 49mb 49mb
yellow open onaplogs-2017.10.05 qOErijm_zR1yJbES2A94GuA 5 1 417450 0 146.9mb 146.9mb
yellow open .triggered_watches sJWEmGgYRmuOsOa0ouWgaw 1 1 0 0 365.7kb 365.7kb
yellow open onaplogs-2017.10.04 NoEhHdK3ToeUC2KGqo3XIA 5 1 270744 0 103.1mb 103.1mb
yellow open .monitoring-alerts-6 84pDDo6HQOGlggJQ5nMriA 1 1 1 0 6.3kb 6.3kb
yellow open .watcher-history-3-2017.10.04 IZ_1PBP-RiuevffPV3a1-g 1 1 2612 0 2.6mb 2.6mb
yellow open .watcher-history-3-2017.10.05 IDLSTtl9Thq0pTuTyzngNQ 1 1 4544 0 3.2mb 3.2mb
yellow open .kibana WWyQNR5HTzCRsqEQkPR3YA 1 1 1 0 3.2kb 3.2kb
yellow open .watches vS6TCNdTwSL9JJ0x_N8QQ 1 1 4 0 63.4kb 63.4kb
```

## Configuration

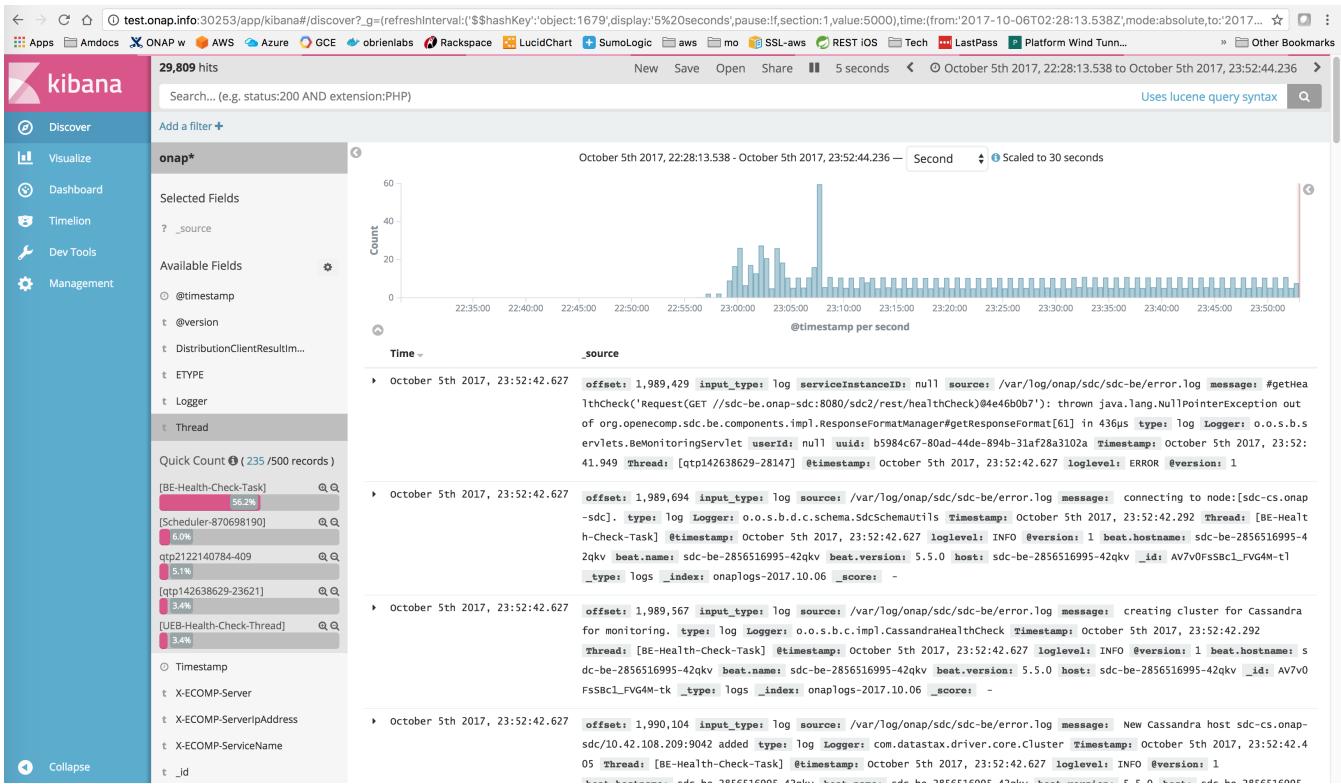
search on log\* and select a "time filter field name" to @timestamp

onap | split rows | aggregation=terms | field=source.keyword | size=100, play

```
http://k8s:30253/app/kibana#/discover?_g=()&_a=(columns:!(_source),index:'onap*',interval:auto,query:(query_string:(analyzeWildcard:tt,query:'*')),sort:(('@timestamp',desc))
```

```
# filter by aai
October 5th 2017, 11:10:39.087 source:/var/log/onap/aa1/aa1-ml/error.log offset:605,688 DistributionClientResultImpl .responseStatus: ASDC_SERVER_PROBLEM, responseMessage=ASDC server problem] 2017-10-05T15:10:37.393Z input_type:log message: MDLSVC2001E|MDLSVC2001E Unable to register with ASDC: Failed to initialize distribution client: ASDC server problem|log Logger:org.onap.aai.modelloader.service.SdcConnectionJob Timestamp:October 5th 2017, 11:10:37.347 Thread:[Timer-0] INFO org.openecom.sdc.impl.DistributionClientImpl DistributionClient - init 2017-10-05T15:10:37.393Z [Timer-0] ERROR org.openecom.sdc.http.AsdcConnectorClient status from ASDC is org.openecom.sdc.http.HttpAsdcResponse@2c523e67 2017-10-05T15:10:37.393Z [Timer-0] ERROR org.open
```

## ONAP Kibana Dashboard



## Logging Design

### Repositories

Repo	Directory	Details
oom		Deployment yaml
oom		configs
logging-analytics		docker image configs
logging-analytics		reference logback.xml configs
(various) aai....		runtime logback.xml/log4j configs

## Logging API

Discuss shared library approach to logging (Java only for now)

## Logging DevOps

[ONAP Development#KubernetesDevOps](#)

## Logging Framework Deployment

### Triage Log Capture

The following are procedures to determine the state of logs traversing from the container under use via the filebeat, logstash, elasticsearch pipeline.

I would start with the deployment.yaml and verify the filebeat section is the same as other working pods that are listed in the last check I did for pairwise testing. I would expect logs from for example portal in portal-app and portal-sdk – at least error logs.

[LOG-230 - Getting issue details...](#)

[STATUS](#)

After this I would check the logstash service to see if it is receiving logs its port – I'll add instructions to the wiki.

We can also check the docker pv for the 2 portal containers – the emptydir should be in /var/lib/docker – this is a secondary place we can pickup/verify the logs besides filebeat.

## Originating Container

### Filebeat Sidecar Container

[Filebeat sidecar container setup and configuration in OOM](#)

### Logstash DaemonSet

### Elasticsearch container

### Kibana container

## Enabling Debug Logs

### Via URL

MSO	<a href="http://cd.onap.info:30223/mso/logging/debug">http://cd.onap.info:30223/mso/logging/debug</a>	Debuglog successfully enabled.
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### Via Logback.xml

## Logging Access

### Robot logs

after a

/dockerdnfs/onap/robot# ./demo-k8s.sh init\_customer

<http://host:30209/logs/demo/InitCustomer/report.html>

user:robot pass:robot

### Host VM logs

/dockerdnfs/onap/aai/aai-traversal/logs/

/dockerdnfs/onap/sdc/logs/ASDC/ASDC-BE/

```
ubuntu@ip-172-31-15-18:/dockerdnfs/onap$ ls -la aai/data-router/logs/AIA-DR/
-rw-r--r-- 1 root root      0 Aug 16 01:11 audit.log
-rw-r--r-- 1 root root      0 Aug 16 01:11 debug.log
-rw-r--r-- 1 root root 106459 Aug 17 00:01 error.2018-08-16.log.zip
-rw-r--r-- 1 root root 5562166 Aug 17 19:50 error.log
-rw-r--r-- 1 root root     536 Aug 16 01:12 metrics.log
```

## ELK Logs

## Training Videos

Video	Details
 20171005_enable_kibana.mov	Configuring a new ONAP install's ELK stack

## References