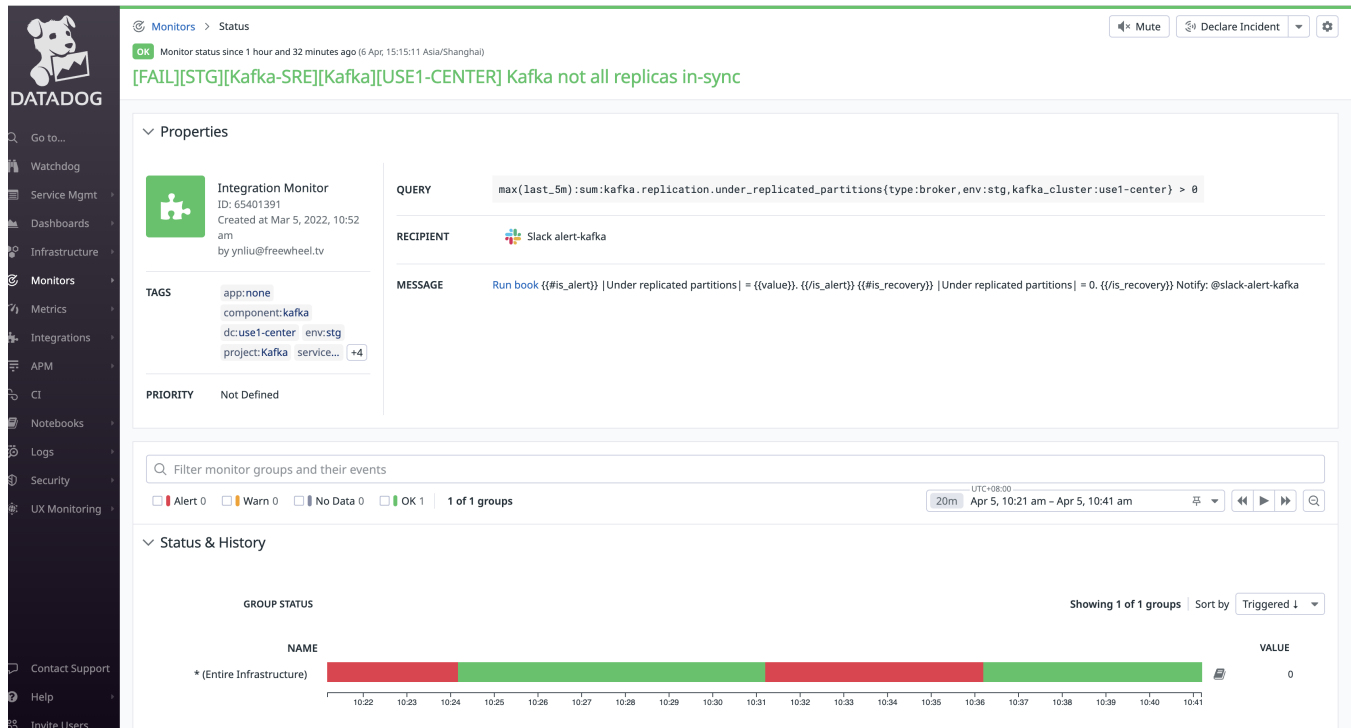


# TroubleShooting Notes

## Phenomenon

Datadog comes alert :

[https://app.datadoghq.com/monitors/65401391?from\\_ts=1680661271000&to\\_ts=1680662471000&eval\\_ts=1680662471000](https://app.datadoghq.com/monitors/65401391?from_ts=1680661271000&to_ts=1680662471000&eval_ts=1680662471000)



After login the hosts, we found that the system has been rebooted.

`ec2-user@ip-10-50-111-158.ec2.internal:/var/log` · 06:20 AM Thu Apr 06 ·

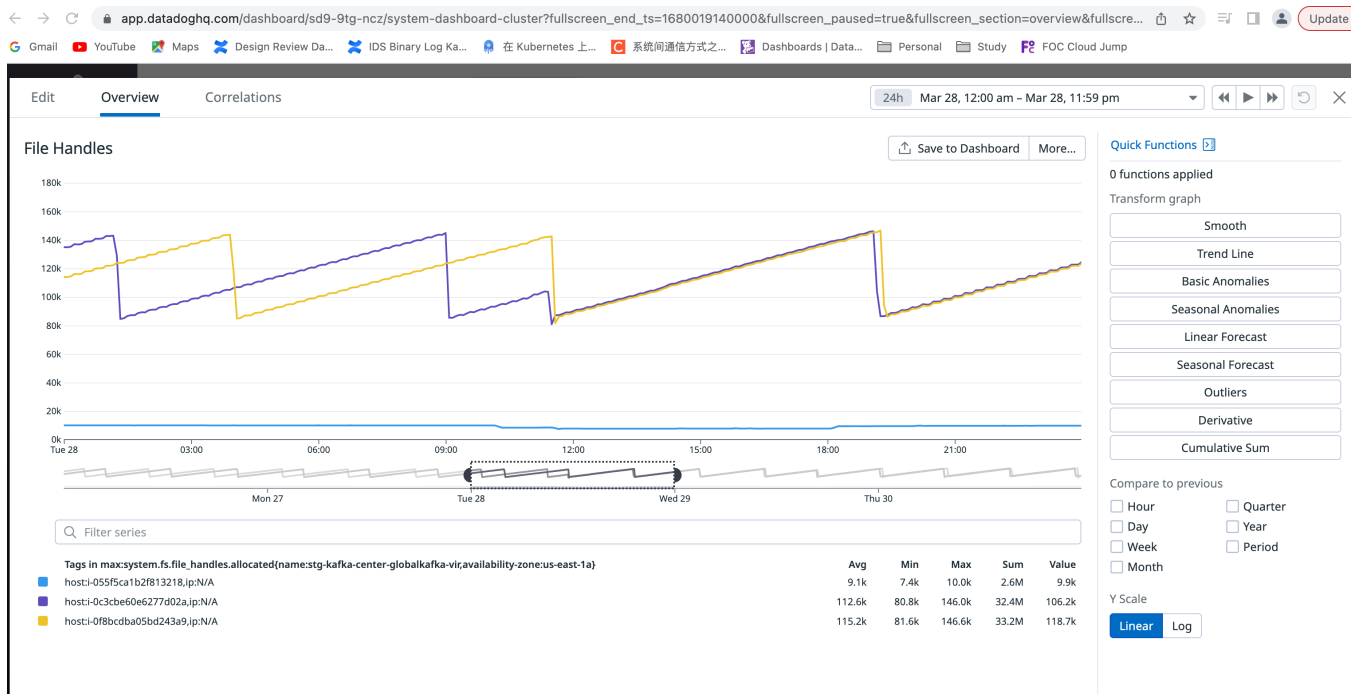
**!1204 \$ last reboot|head -5**

```
reboot system boot 3.10.0-693.21.1. Wed Mar 29 08:59 - 06:20 (7+21:21)
reboot system boot 3.10.0-693.21.1. Tue Mar 28 03:30 - 08:57 (1+05:27)
reboot system boot 3.10.0-693.21.1. Tue Oct 12 08:54 - 03:28 (531+18:34)
reboot system boot 3.10.0-693.21.1. Tue Dec 15 06:42 - 03:28 (832+20:46)
reboot system boot 3.10.0-693.21.1. Fri Sep 11 06:07 - 03:28 (927+21:20)
```

These timestamp matches the spike time from below "File Handle" dashboard:

[https://app.datadoghq.com/dashboard/sd9-9tg-ncz/system-dashboard-cluster?](https://app.datadoghq.com/dashboard/sd9-9tg-ncz/system-dashboard-cluster?fullscreen_end_ts=1680019140000&fullscreen_paused=true&fullscreen_section=overview&fullscreen_start_ts=1679932800000&fullscreen_widget=3439240776542206&tpl_var_ec2_name%5B0%5D=stg-kafka-center-globalkafka-vir&from_ts=1680164915705&to_ts=1680769715705&live=true)

[fullscreen\\_end\\_ts=1680019140000&fullscreen\\_paused=true&fullscreen\\_section=overview&fullscreen\\_start\\_ts=1679932800000&fullscreen\\_widget=3439240776542206&tpl\\_var\\_ec2\\_name%5B0%5D=stg-kafka-center-globalkafka-vir&from\\_ts=1680164915705&to\\_ts=1680769715705&live=true](https://app.datadoghq.com/dashboard/sd9-9tg-ncz/system-dashboard-cluster?fullscreen_end_ts=1680019140000&fullscreen_paused=true&fullscreen_section=overview&fullscreen_start_ts=1679932800000&fullscreen_widget=3439240776542206&tpl_var_ec2_name%5B0%5D=stg-kafka-center-globalkafka-vir&from_ts=1680164915705&to_ts=1680769715705&live=true)



And Nick found this ERROR log in server.log file

```
[2023-04-05 10:37:06,068] ERROR Error while rolling log segment for fw_ads_fastlane_binary_log-488 in dir /export1/kafka-data (kafka.server.LogDirFailureChannel)
Caused by: java.lang.OutOfMemoryError: Map failed
[2023-04-05 10:37:06,088] WARN [ReplicaFetcher replicalD=3, leaderId=1, fetcherId=0] Partition fw_ads_fastlane_binary_log-488 marked as failed (kafka.server.ReplicaFetcherThread)
[2023-04-05 10:37:10,397] INFO Registered kafka:type=kafka.Log4jController MBean (kafka.utils.Log4jControllerRegistration$)
[2023-04-05 10:37:11,232] INFO Registered signal handlers for TERM, INT, HUP (org.apache.kafka.common.utils.LoggingSignalHandler)
[2023-04-05 10:37:11,233] INFO starting (kafka.server.KafkaServer)
```

According these two points, we doubt that the JVM has issue with map count.

After check the max count number of Kafka process

```
ec2-user@ip-10-50-111-158.ec2.internal:/var/log · 07:02 AM Thu Apr 06 ·
!1207 $ sudo cat /proc/11575/maps | wc -l
65281
```

Then check the system

```
ec2-user@ip-10-50-111-158.ec2.internal:/var/log · 07:02 AM Thu Apr 06 ·
!1208 $ sudo cat /proc/sys/vm/max_map_count
65530
```

The max\_map\_count from system nearly run out with Kafka,

Change the map count

```
$ echo "vm.max_map_count=262144" >> /etc/sysctl.conf
$ echo 262144 > /proc/sys/vm/max_map_count
```

ref:

[Best practices for Aerospike on Linux](#)

<https://stackoverflow.com/questions/42889241/how-to-increase-vm-max-map-count>

Another related issue: Too Many Files Open

Check the current status of Kafka:

```
cat /proc/kafka_pid/limits
```

ulimit -a

ulimit -n 100000

systemctl daemon-reload

Additional

**max\_map\_count** VMANORMAL