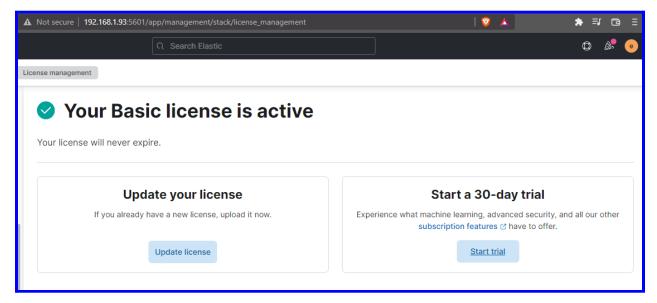
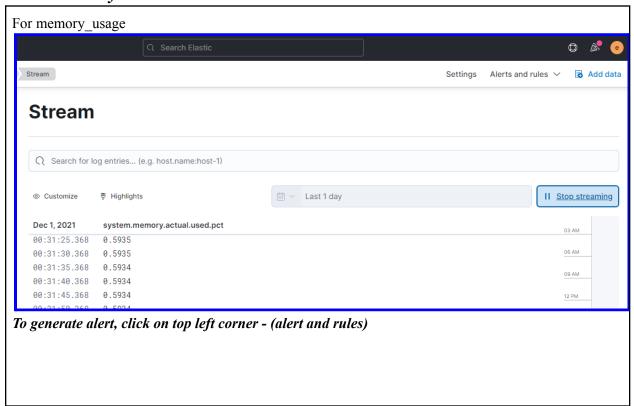
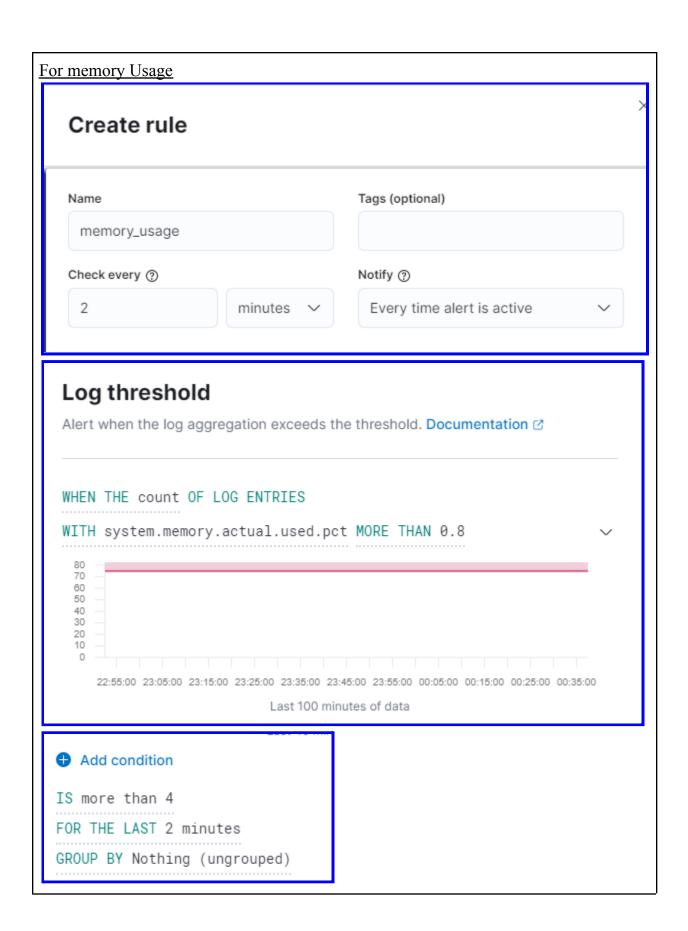
2. Generate alerts through the kibana system for following thresholds a. when memory usage > 80% for the last 2 minutes send an alert to a slack channel b. When Disk usage > 70% send alerts to a slack channel c. When load average > 1 for last 2 minutes send alert to a slack channel

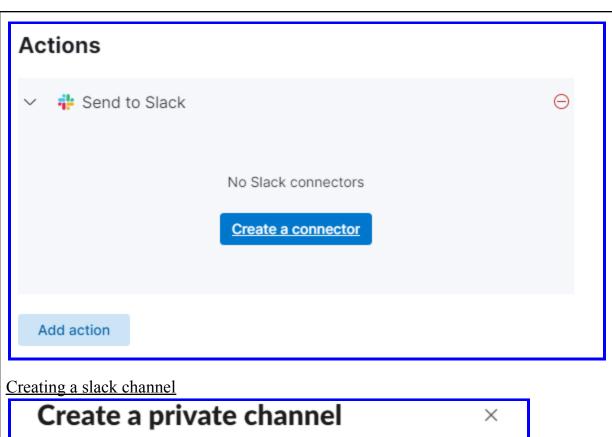
To enable alerts, we should have subscribed version

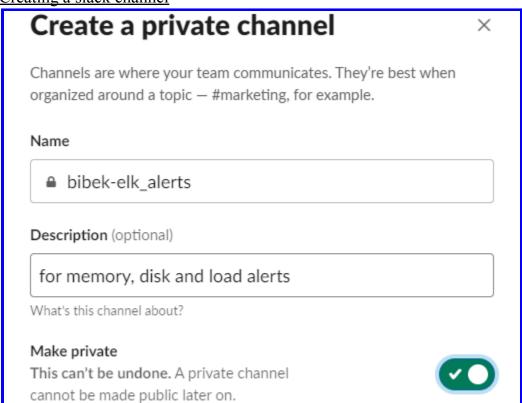


Enabled 30-day trial

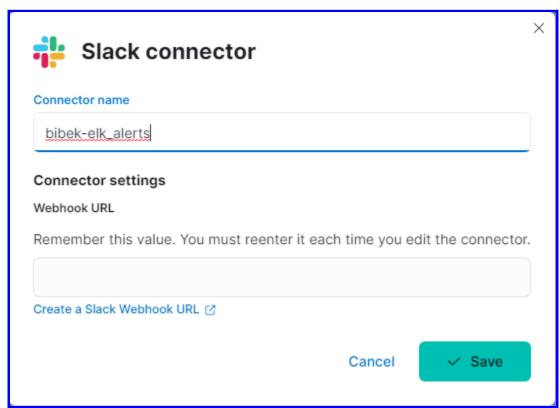


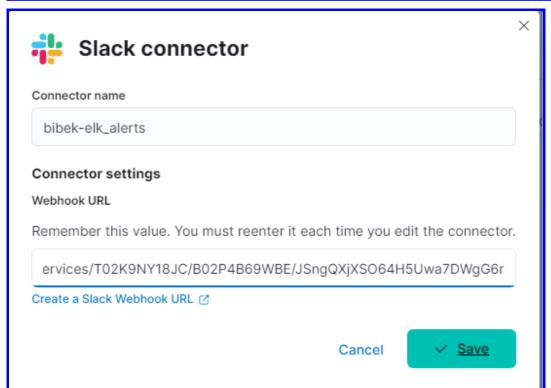


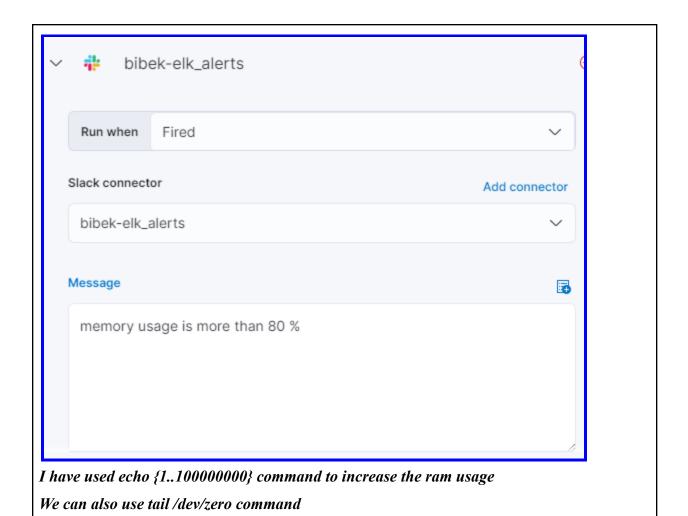


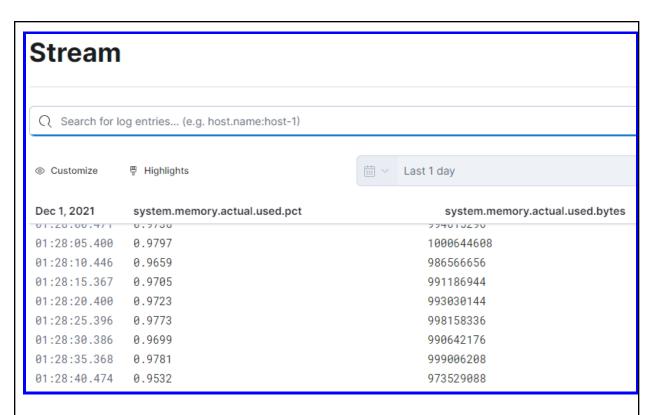


## Creating a slack web-hook url

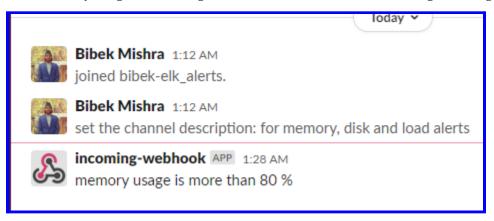




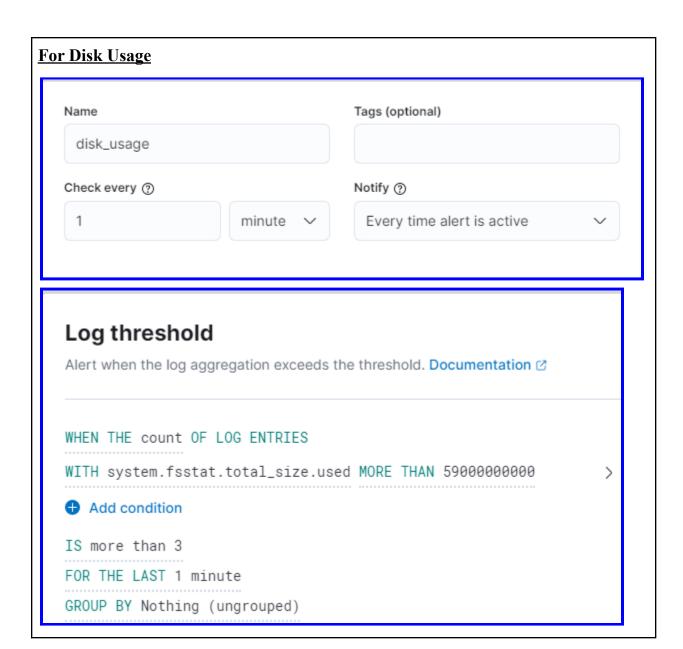


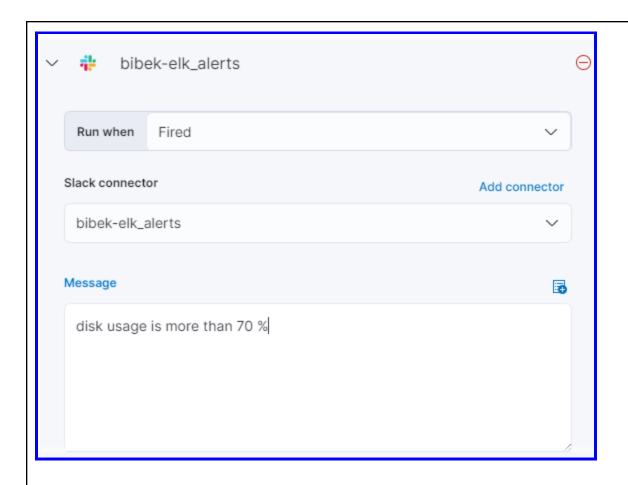


When memory usage reached higher 0.9 i.e 90 %. It alerts with sending a message in slack channel



In this way, memory usage alerts can be generated

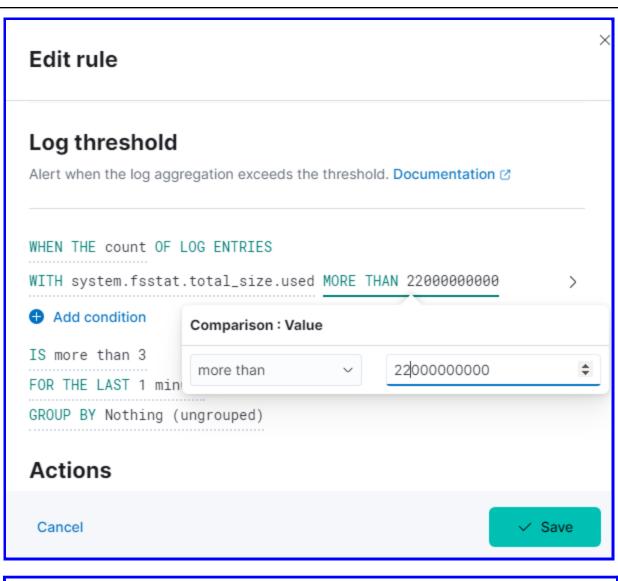




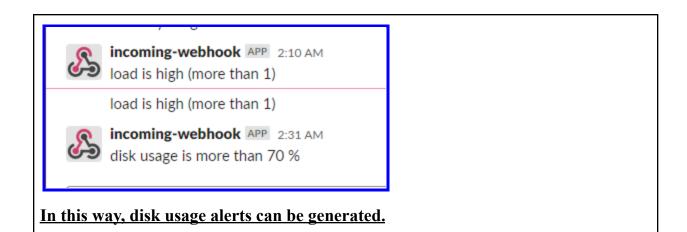
I installed **stress** package to <u>increase the disk usage</u> And used **stress -d 40 -** To increase disk usage to 70 %

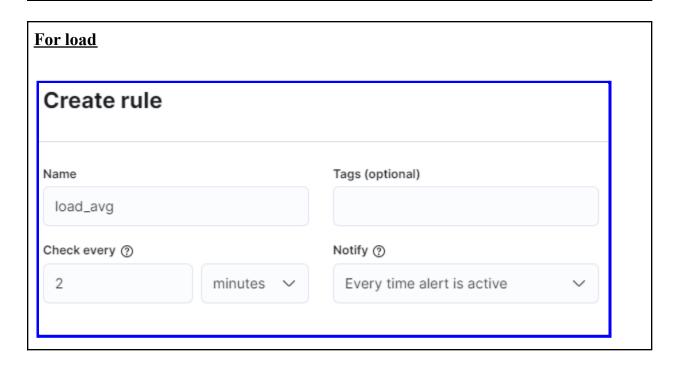
```
root@metricbeat:/home/bibek# stress -d 40
stress: info: [3081] dispatching hogs: 0 cpu, 0 io, 0 vm, 40 hdd
```

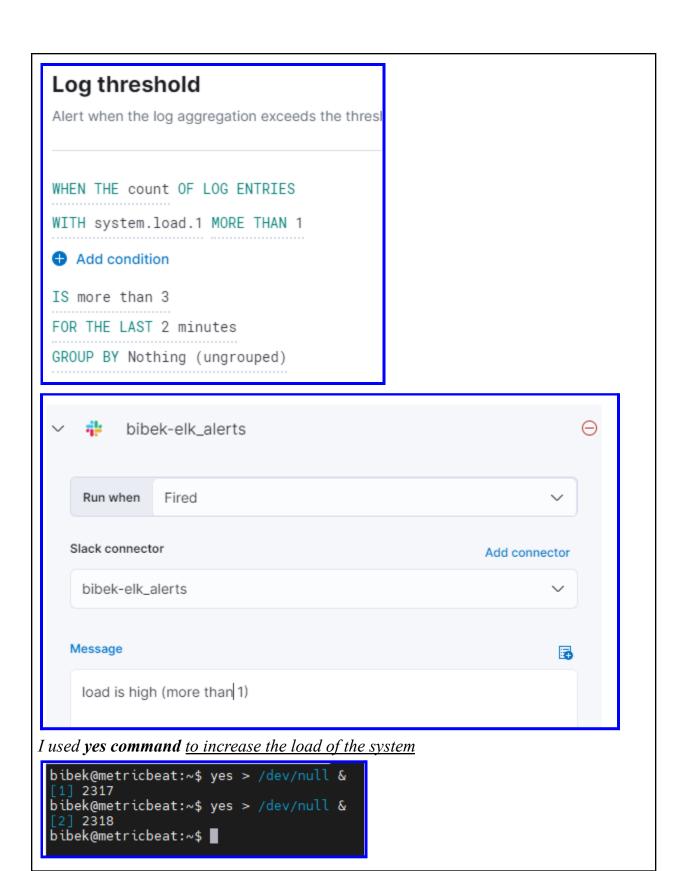
Since I have used **80 GB HDD** for this VM, <u>14 GB was already occupied by system files</u>
It takes a lot of time to occupy up to 70 % of the disk through the stress <u>command</u>.
So I decided to edit the rule and keep up to 22 GB which was already hit by the stress command.



Dec 1, 2021	system.fsstat.total_size.total	system.fsstat.total_size.used
02:31:16.578	85244551168	25450283008
02:31:21.578	85244551168	25487663104
02:31:29.976	85244551168	25545633792
02:31:31.578	85244551168	25561243648
02:31:36.579	85244551168	25612460032
02:31:41.578	85244551168	25662513152
02:31:46.579	85244551168	25721720832







 Customize # Highlights Dec 1, 2021 system.load.1 02.07.14.000 2.01 02:09:19.888 02:09:24.888 2.01 02:09:29.889 2.01 02:09:34.888 2.01 02:09:39.888 02:09:44.888 02:09:49.889 02:09:54.888 Last update 1 second ago



Bibek Mishra 1:12 AM joined bibek-elk\_alerts.



Bibek Mishra 1:12 AM

set the channel description: for memory, disk and load alerts



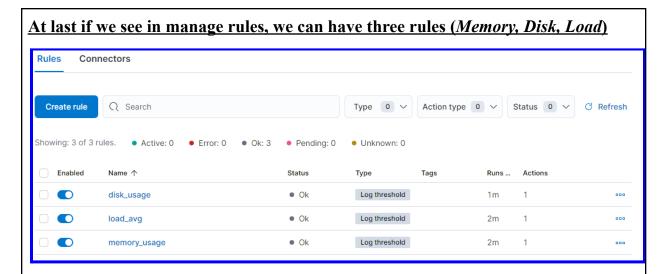
incoming-webhook APP 1:28 AM memory usage is more than 80 %

1:30 memory usage is more than 80 %



incoming-webhook APP 2:10 AM load is high (more than 1)

In this way load alerts can be generated.



The rules **become active** when <u>threshold value is reached</u> and <u>sends alerts</u> after successful count for the given time period.

Thank you !!!