

LOVELY PROFESSIONAL UNIVERSITY

SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

CA 3 PROJECT REPORT

INT-301

OPEN-SOURCE TECHNOLOGY

INT301: Open-Source Technologies

CA3

Submitted to Mr:

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QUESTON:

Use any open-source software to generate your entire system's log report of past 3 months

along with this find partial and full multimedia files (video files) in DataStream.

**OBJECTIVE:**

The system log is a direct access data set that stores the commands and notifications. Logging is a method of tracking and storing data to ensure application availability and to assess the impact of state transformations on performance. Monitoring is tool used for alerting Devops to System-related issues by analysing metrics. It helps in detecting and locate bugs easily when developing software or in the software which can be fixed easily and help the user to get good user experience

**DESCRPTION:**

Elastic is an open-source software which I have used for generating system log report. Log Monitoring Scalable, centralized log monitoring for hybrid cloud as the recognized leader in log monitoring, with the broadest and most comprehensive set of log data sources in the industry, the Elastic Stack (also known as the ELK Stack) is the most popular free and open logging platform.

USES OF ELASTIC:

* View your deployment’s health and performance in real time and analyse past cluster, index, and node metrics.
* View your deployment’s logs to debug issues, discover slow queries, surface deprecations, and analyse access to your deployment

In this I have also used Event viewer application software to generate the systems log report. Because elastic is available only for 15 days to use and after that it requires for an subscrption. [Event Viewer is an application that shows a log detailing information about significant events on your computer such as automatically downloaded updates, errors, and warnings](https://www.freecodecamp.org/news/event-viewer-how-to-access-the-windows-10-activity-log/). It is a software which can be used by every windows operating system machine for free. Each program you open on your Windows 10 computer sends a notification to a particular activity log in the Event Viewer. All other activity such as OS changes, security updates, driver quirks, hardware failure, and so on are also posted to a particular log. So, you can think of the event viewer as a database that records every activity on your computer. With the event viewer, you can troubleshoot different Windows and application issues. If you explore the event viewer in-depth, you will see different information, warnings, and plenty of errors. Don’t freak out – this is normal. Even the best-maintained computers show plenty of errors and warnings.

**How to Access the Windows 10 Activity Log through the Start Menu**

**Step 1**: Click on Start or press the Windows key on your keyboard  
**Step 2**: Search for Event Viewer  
**Step 3**: Click on the first search result or press ENTER

When you open the event viewer to see your computer's activity logs, you are automatically shown the Event Viewer (Local) tab. But this might not contain the details you need, as it's just a page you are greeted with when you open the Event Viewer.

**SCOPE OF THE PROJECT:**

Log management system will be very handy when particular file or document missing, we can use log management tool in that case so that we can fetch the details of the file or document. but in this it will be very helpful to view the user’s login this will help in to find that at how productive the user has been while using the system this help to analyse and generate report on the particular user which can be used by many large MNC to monitor their workers without any external agent

**SYSTEM DESCREPTION:**

ELASTIC HAVE USED PREDEFINED SYSTEM REPORT AVILABLE IN THE SYSTEM.

EVENT VIEWR USED: MICROSOFT WINDOWS11 OS

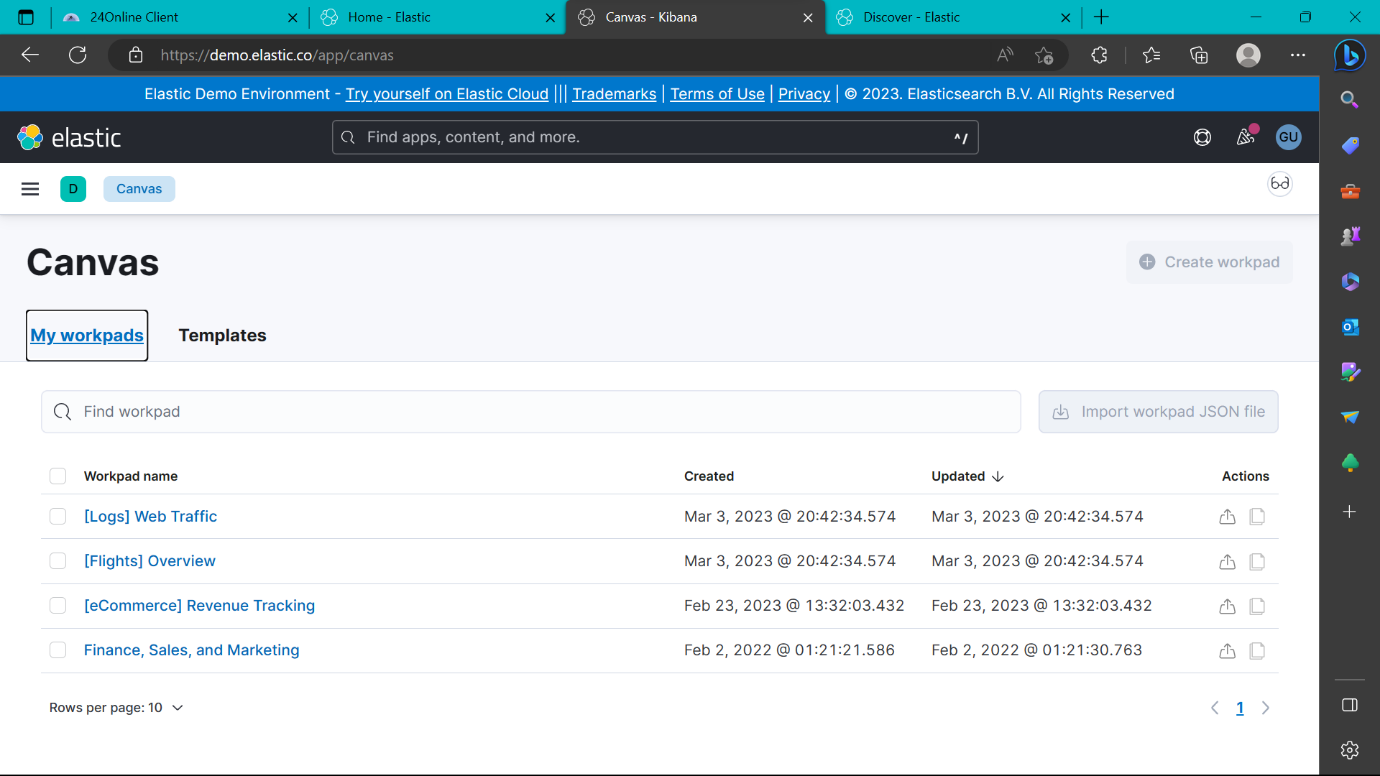
**FUNCTIONAL DEPENDENCIES:**

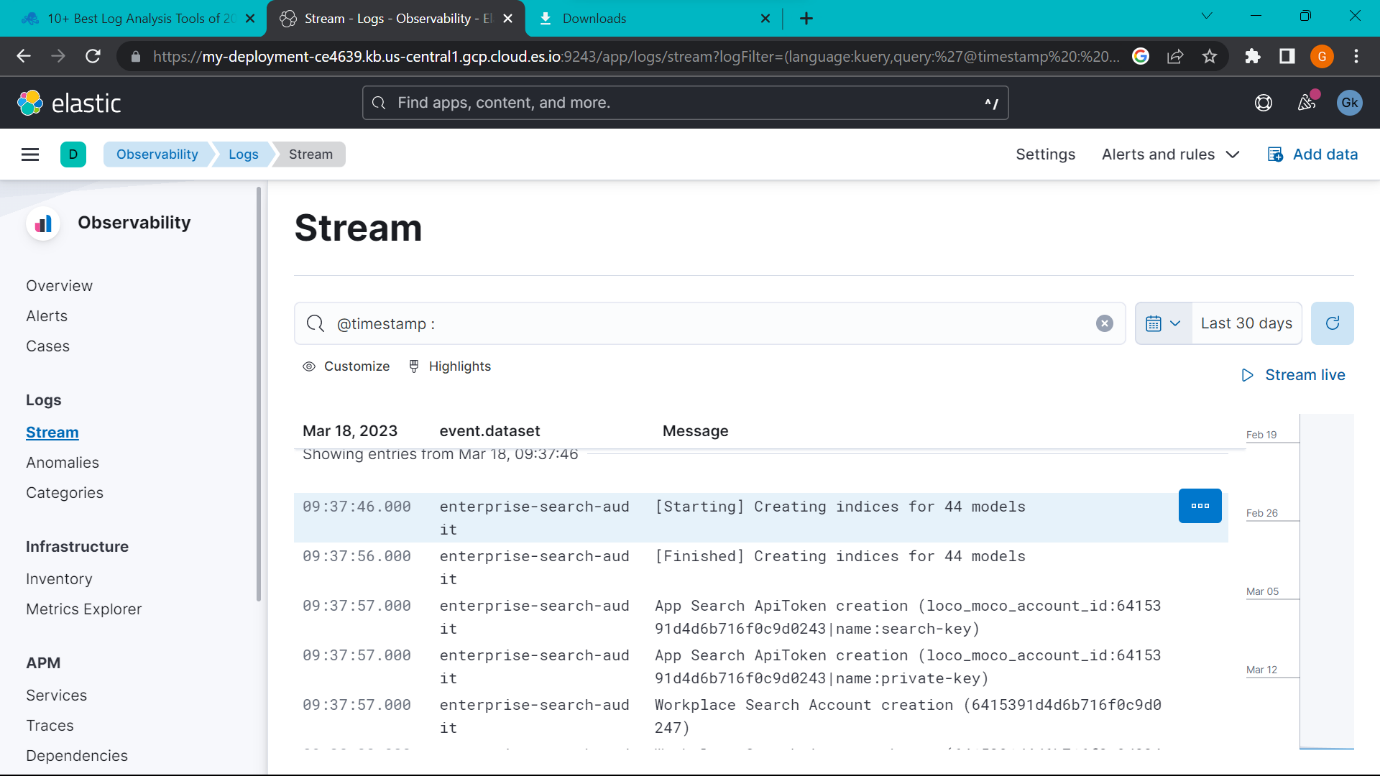
IMPORT ELASTIC PUBLIC GPG KEY

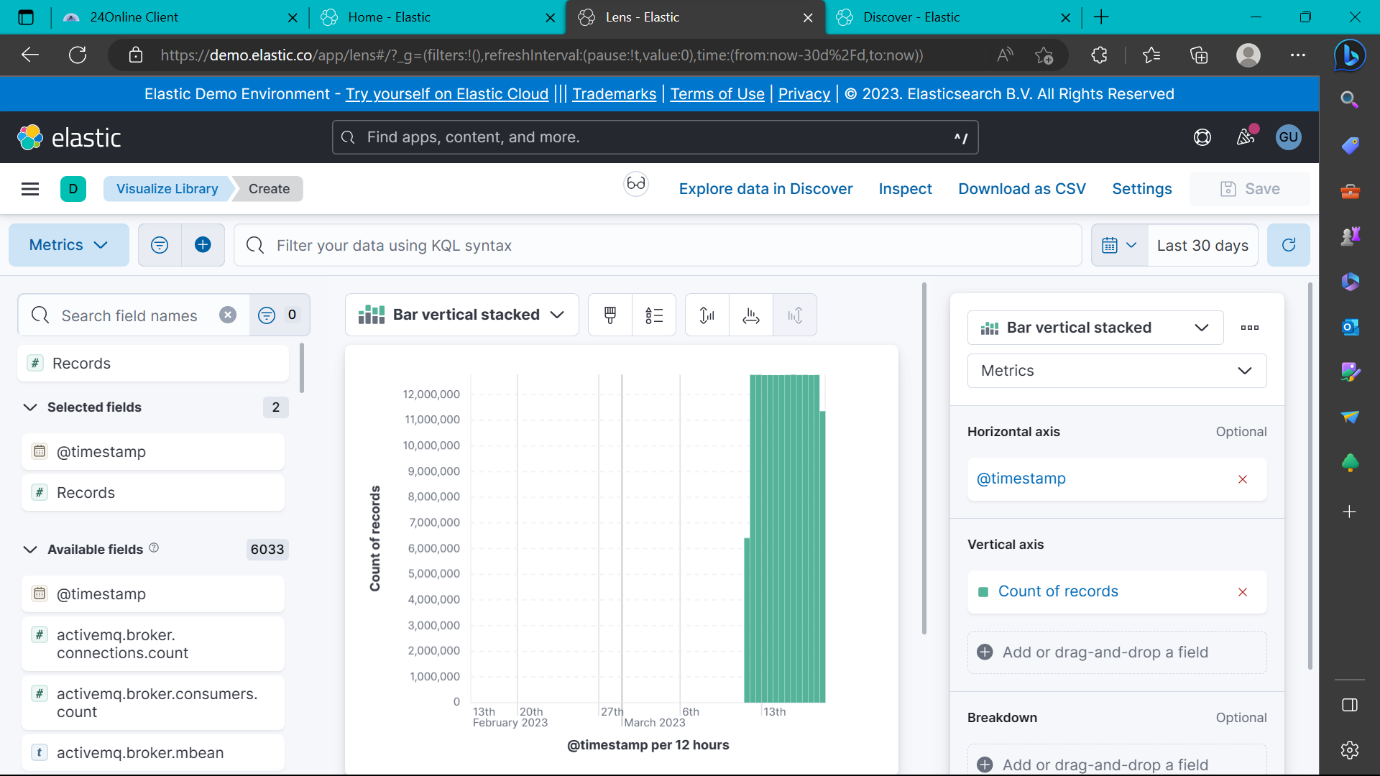
sudo rpm --import <http://packages.elasticsearch.org/GPG-KEY-elasticsearch>

**ANALYSIS REPORT:**

ELASTIC OPEN-SOURCE SOSTWARE SYSTEM LOG SCREENSHOT:







EVENT VIEWER SCREEN SHOT:

