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What is ELK?

1. ELK is an acronym that stands for Elasticsearch, Logstash, and Kibana.

Elasticsearch: Search and analytics engine that helps you quickly find and analyze large amounts of data. It stores data in a way that makes it easy to search.

Logstash: Data collection and processing tool. Transforms data from various sources before sending it to Elasticsearch for indexing.

Kibana: Visualization dashboard for Elasticsearch data.

Diagram



logback-spring.xml

```
<appender name="COMMON FILE"</pre>
class="ch.qos.logback.core.rolling.RollingFileAppender">
Bandaru/Desktop/MICROSERVICES/Logs/project.log</file>
           <pattern>%d{yyyy-MM-dd HH:mm:ss} %-5level [%thread] %logger{36} -
%msg%n</pattern>
       </encoder>
       <rollingPolicy
class="ch.qos.logback.core.rolling.SizeAndTimeBasedRollingPolicy">
           <fileNamePattern>C:/Users/Sreenivas
Bandaru/Desktop/MICROSERVICES/Logs/spring-%d{yyyy-MM-dd}.%i.log</fileNamePatter
           <maxFileSize>10MB</maxFileSize>
       </rollingPolicy>
   </appender>
  <root level="INFO">
       <appender-ref ref="COMMON FILE" />
   </root>
 /configuration>
```

Steps

- 1. Download ElasticSearch , Logstash and kibana and extract it.
- 2. Run ElasticSearch, and kibana
- 3. Then after, go to the ElasticSearch\bin folder and open the batch file of ElasticSearch.
- 4. ElasticSearch generates password and token.
- 5. Then after, go to the Kibana/bin folder and open the batch file of Kibana.
- 6. Kibana give us port number where we have to go there and login on this port with the help of ElasticSearch credentials.
- 7. After that we have to update the Logstash file and save it.
- 8. Open cmd and run this command:-logstash.bat -f ./config/logstash-sample.conf
- 9. If this process is properly worked or connected then data will be shown on your logstash cmd in json format.
- 10. Then go to kibana in kibana, go to stack management and create Dataview and save it. (match your index name properly)
- 11. Now you are able to see your logs with the help of all this process.





