

① Introduction to Splunk

② Splunk Components

③ Splunk GUI

④ User Interface

⑤ Splunk Commands

⑥ Splunk - Monitoring Tool

⑦ Application

⑧ Website

⑨ Data Warehouse | Data

⑩ Focus | Analyze Data

⑪ Visualization

Date generation
Application

User specific

ETL

⑫ Splunk. → Log Monitoring.

⑬ Dynatrace → APM

⑭ AppD.

⑮ Nagios → Infra. Monitoring

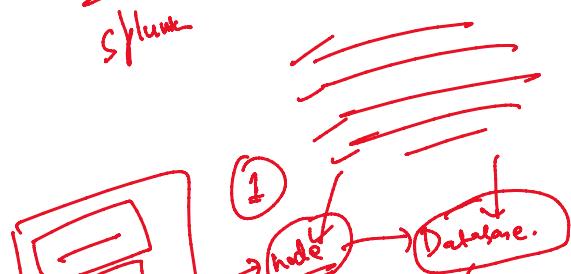
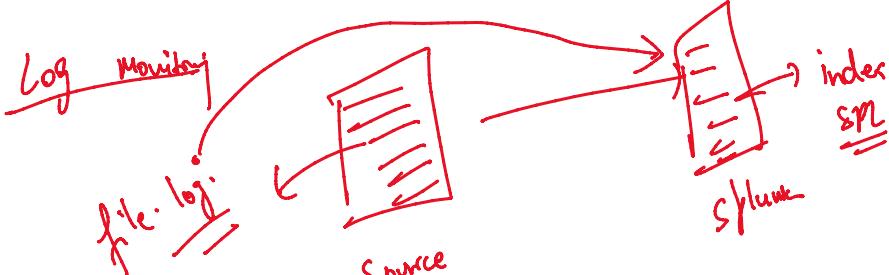
⑯ ELK. → Log Monitoring.

Log Monitoring

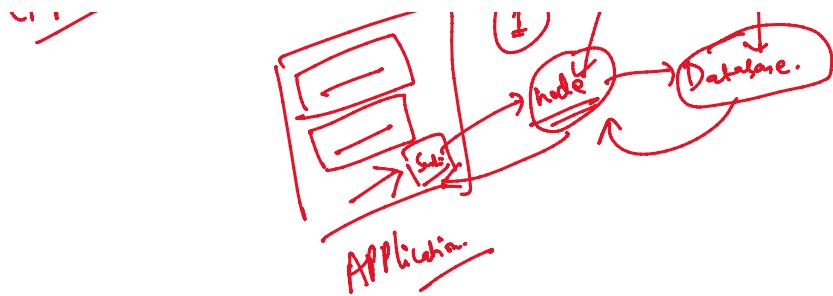
APM

Infra. Monitoring.

Security (SIEM)



APM Monitoring:-



Input:-

CPV, Memory, Disk, Process

OSSEC

Splunk:- ① No restriction on format-

② No restriction on data source.

Dashboard:- XML → classic Dashboard
JSON → studio "

Machine learning:- LR, LTP, BCL

Alert:- Run time alert.

Report:-

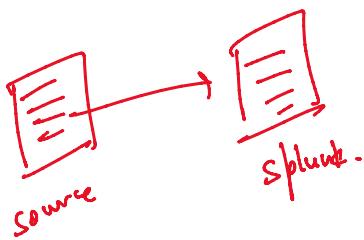
Components of Splunk:-

- ① Indexer
- ② Search Head
- ③ Forwarder
- ④ Deployment Server
- ⑤ Cluster Master
- ⑥ Deployer
- ⑦ SMC

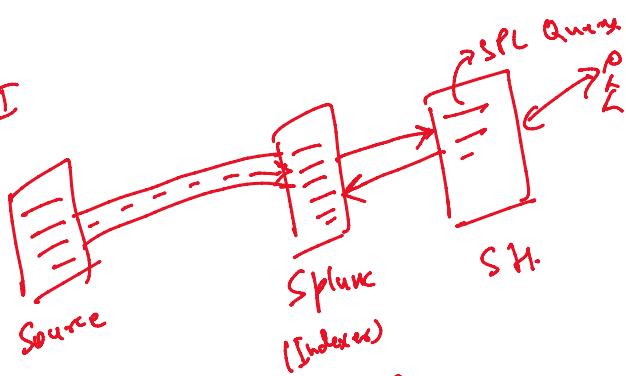
✓ ③ forwarder
✓ ④ license Master

① ⑧ SH C-

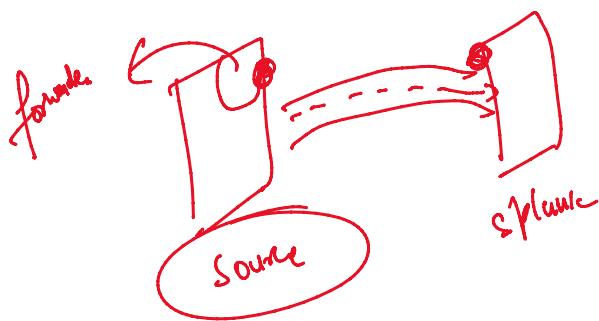
① Indexer: Database -> built.



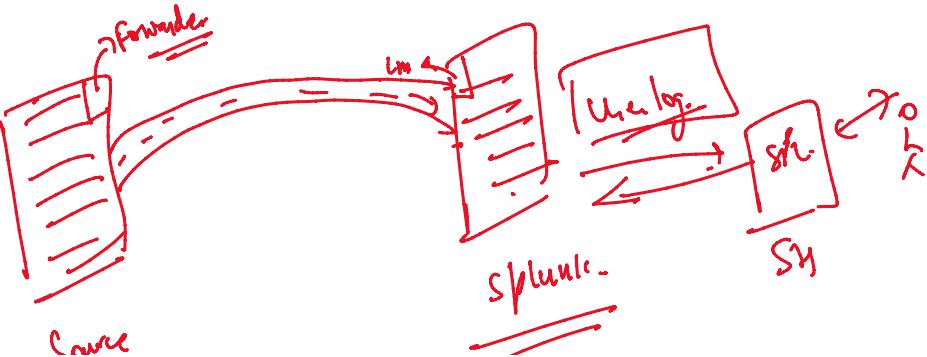
② Search Heads: GUI

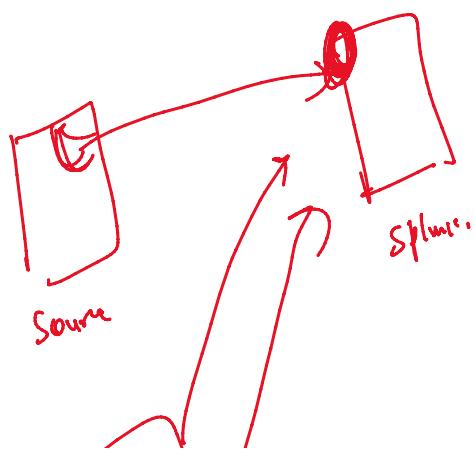
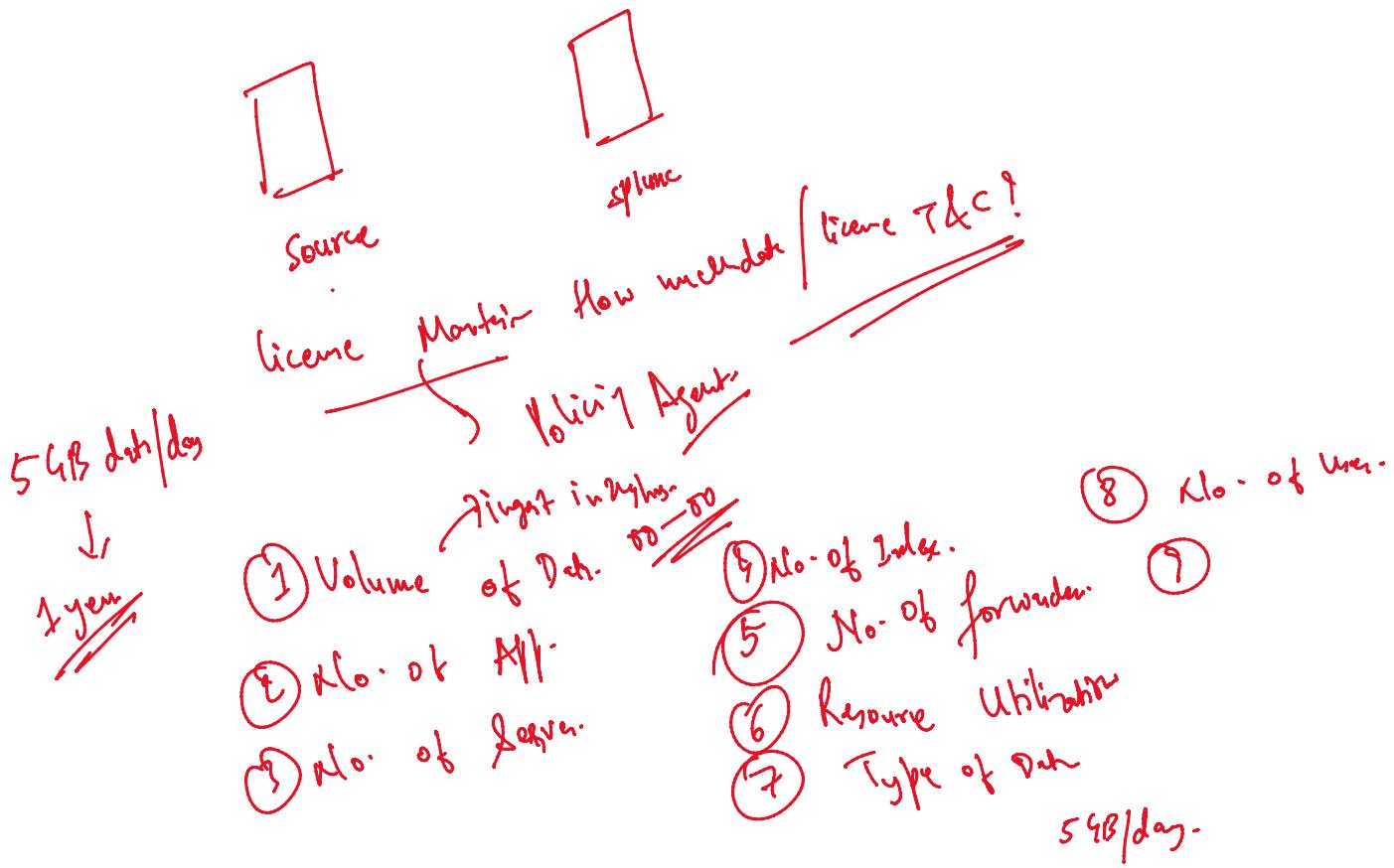
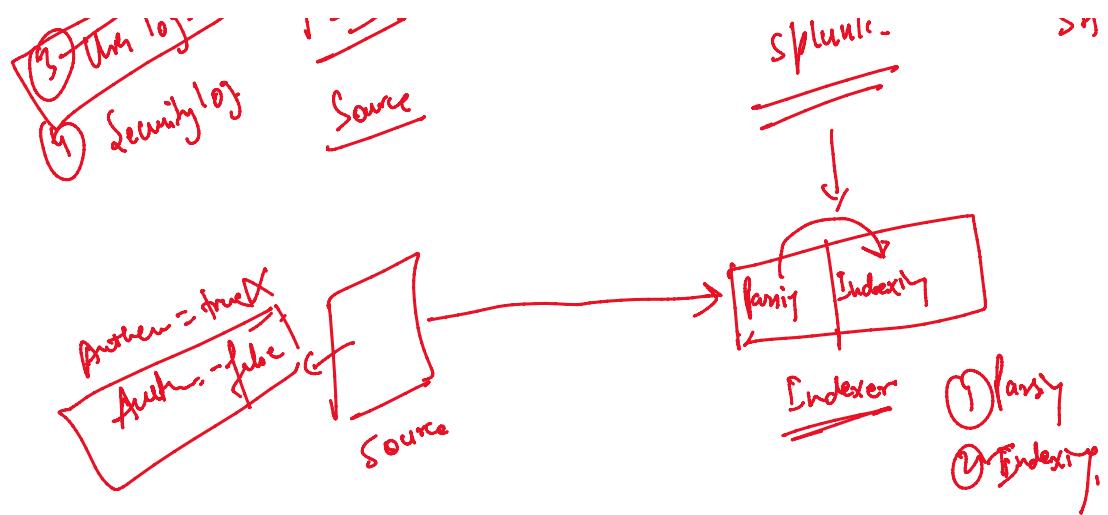


③ Forwarder: Agent that will forward the data from the source to the splunk end.

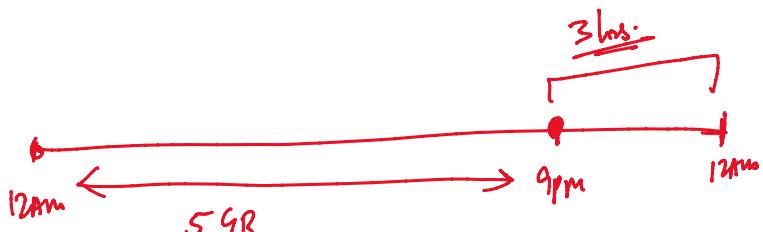


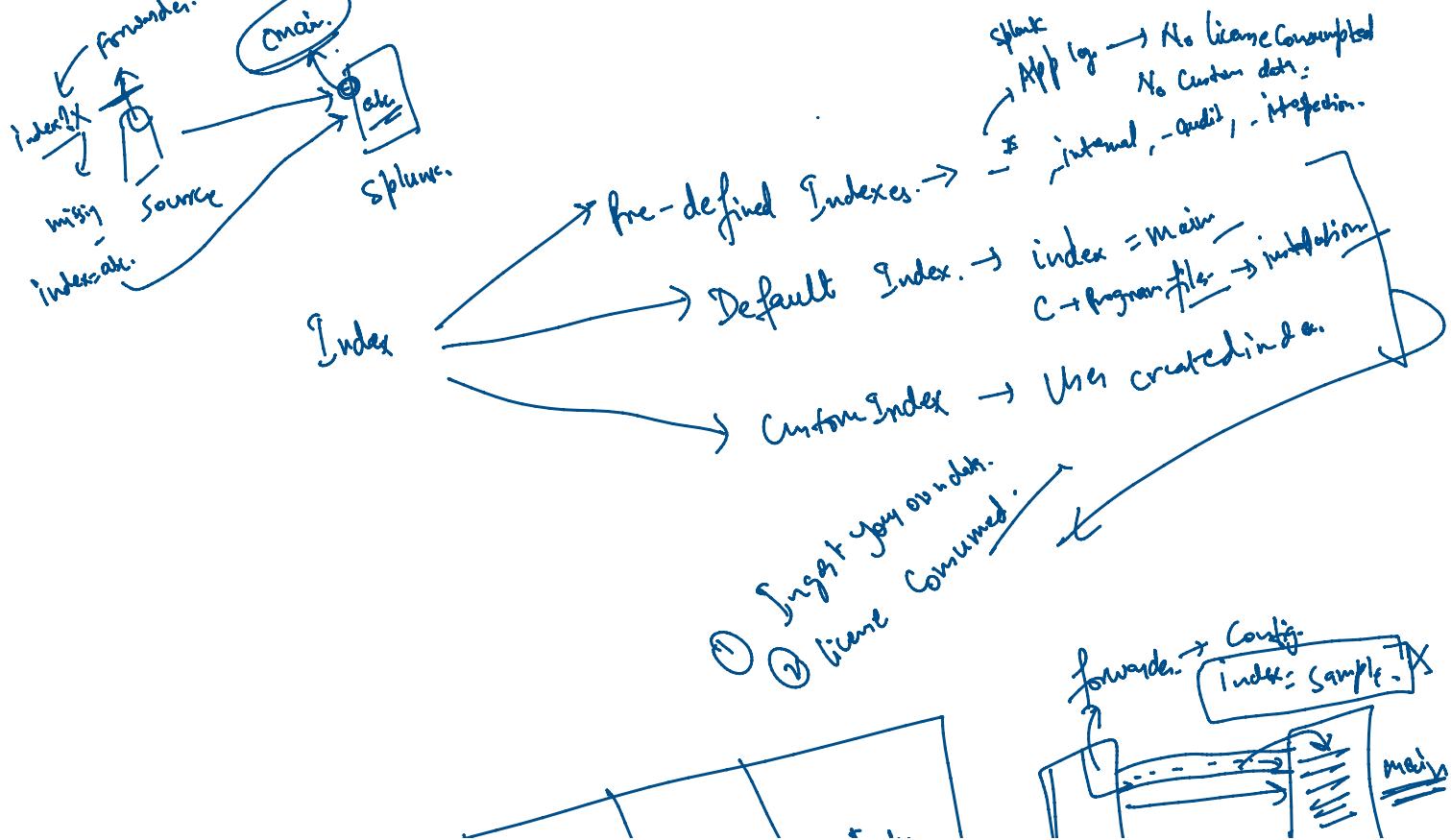
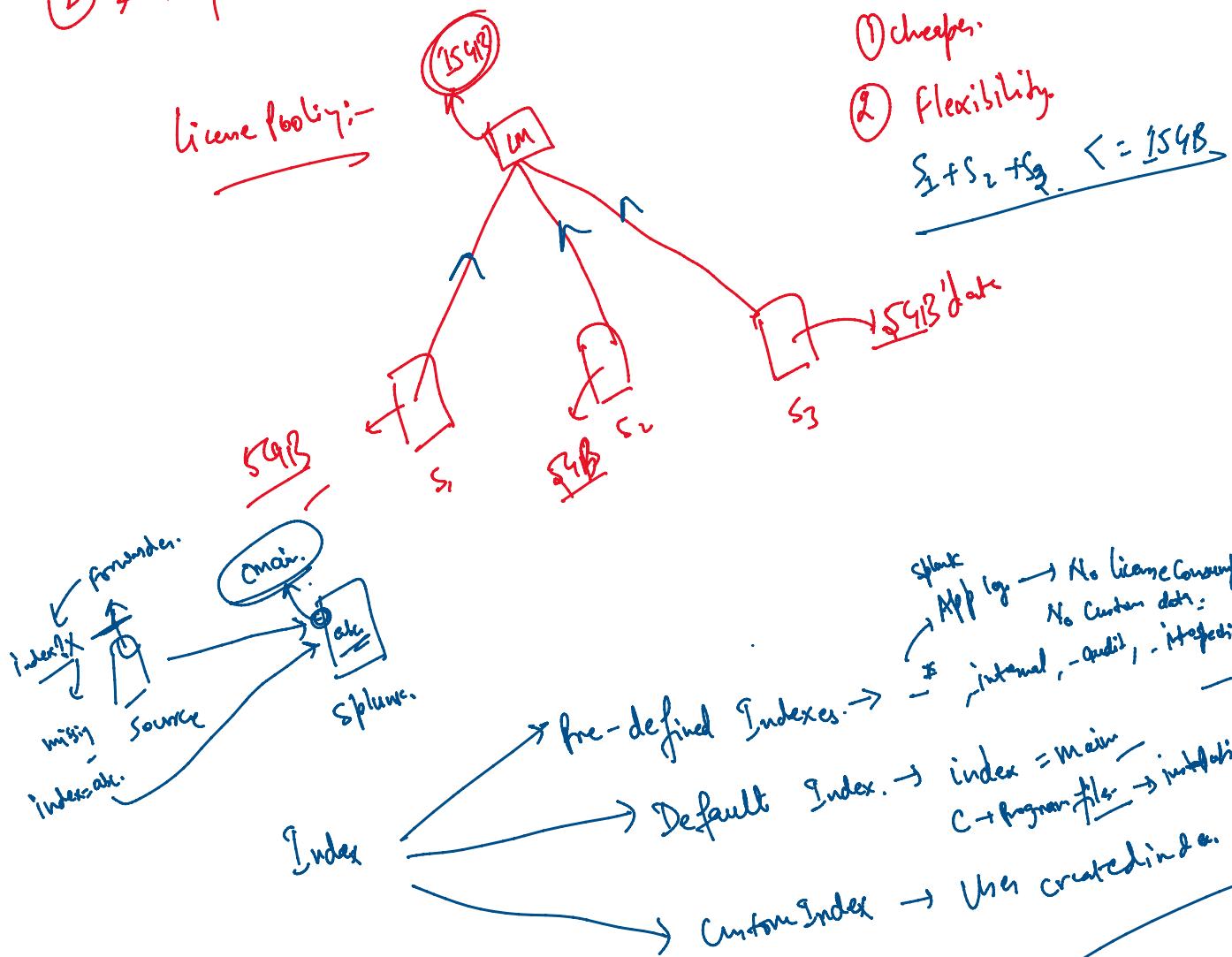
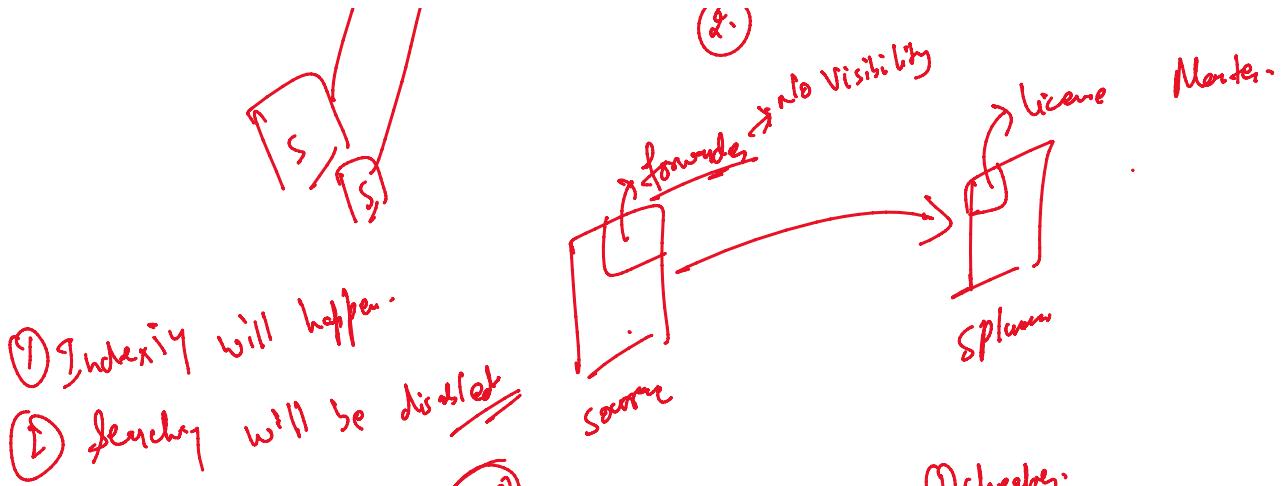
① App log
② Infra log.
③ Other log.
- info

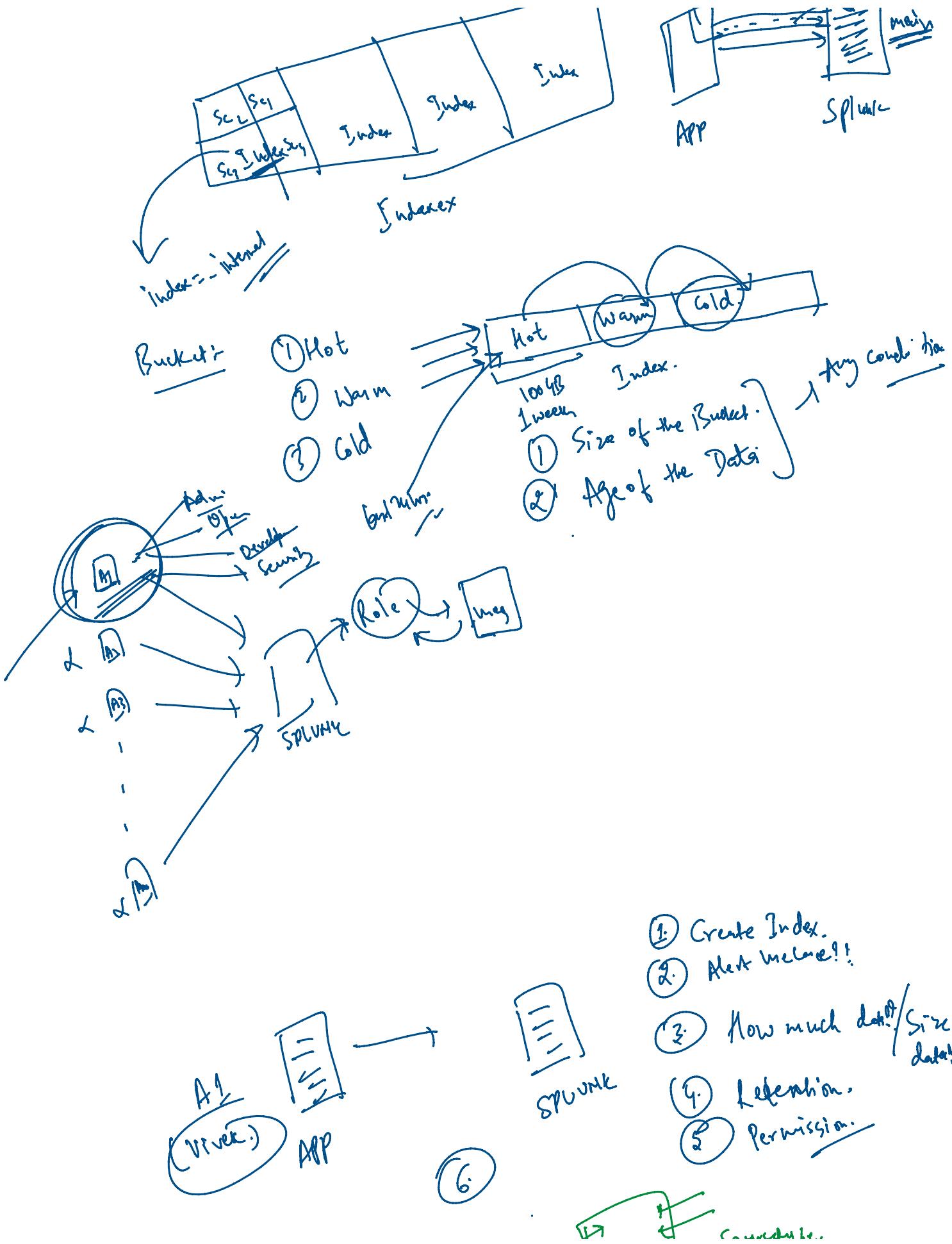




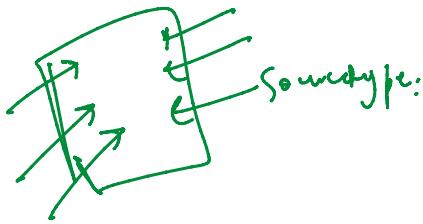
① Stay in local drives. No 'index'.
 ② No visibility
 1 year Monitor







- 1 Date size
 - 2 Sample data (P/I), Date format
How much.
 - 3 Index creation →



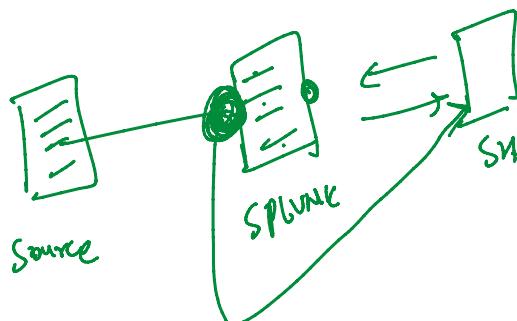
- Retention:

What

is the final objective? ↗ WJP



- ① historical Data | relative Data
 - ② Real Time.



Same

$$\text{effort} = \frac{10 \cdot 0 \cdot 0.1}{\log 10}$$

$$\begin{aligned} \text{Host} &= 10^0 \cdot 0 \cdot 0.1 \\ \text{Source} &= \sqrt{\log} \\ \text{Sourcetyp} &= \log \end{aligned}$$

Host = $\frac{10 \cdot 0 \cdot 0 \cdot 1}{\cancel{10}}$
Source = $\text{var} \log \text{abc.log}$ ✓
Sourcetype = $\text{log-file [data type]}$

~~time = 'last time'~~
~~last modified~~

Time

wine

schiff

202

14

1

Command :-

Table

• timechart

Commands :-

- ① Table
- ② Rename
- ③ Stats.
- ④ fillnull
- ⑤ sort
- ⑥ eval
- ⑦ Dedup

- ⑧ timechart
- ⑨ chart
- ⑩ Rex
- ⑪ addcoltotal
- ⑫ addtotal
- ⑬ Top
- ⑭ Style

- ⑮ rare.
- ⑯ Where
- ⑰ eventcount
- ⑱ field
- ⑲ search

Value visualization

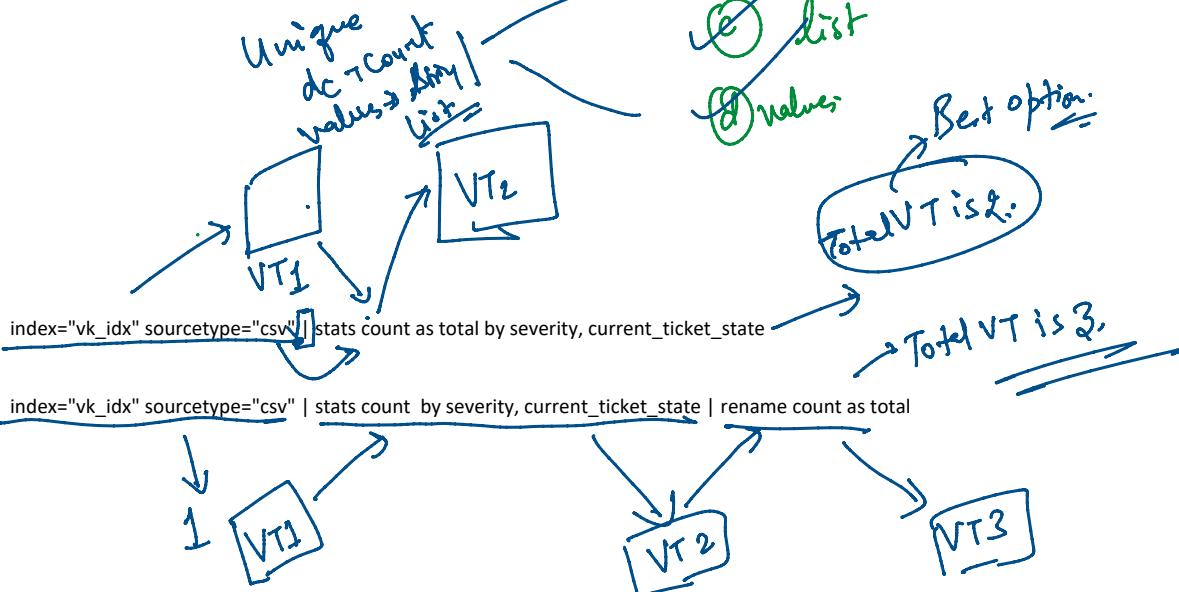
Value that is repeatedly
occurring Mode denoted by
underlined



① Table:- Output in the Tabular format.

③ Stats:-

Statistical output



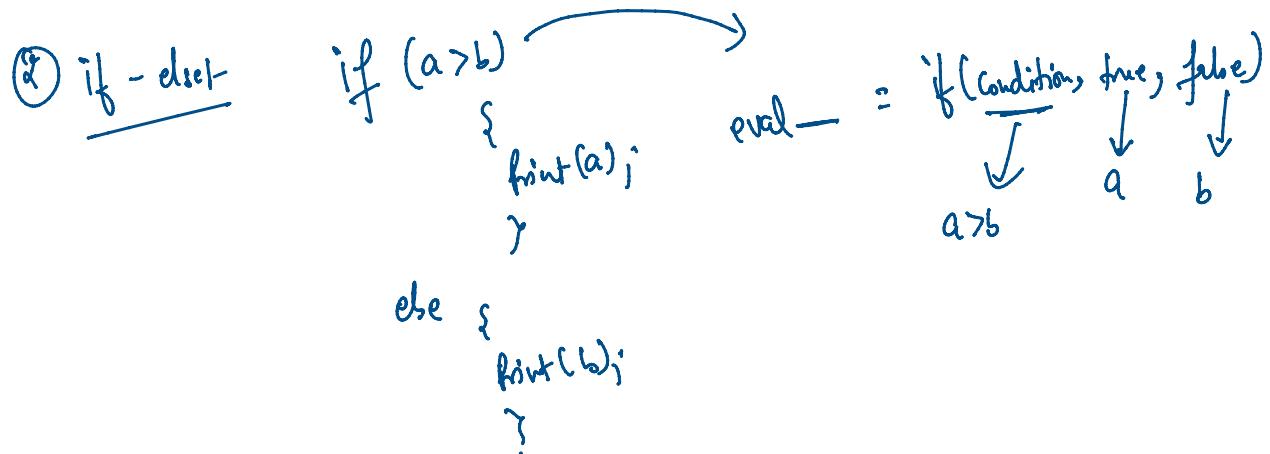
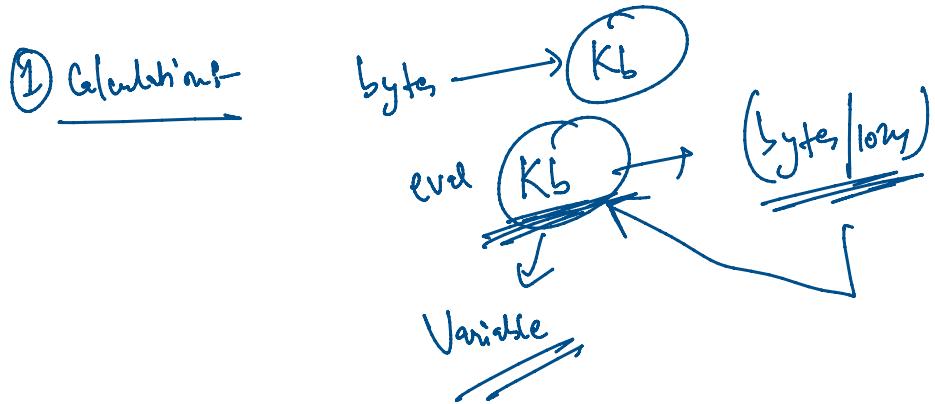
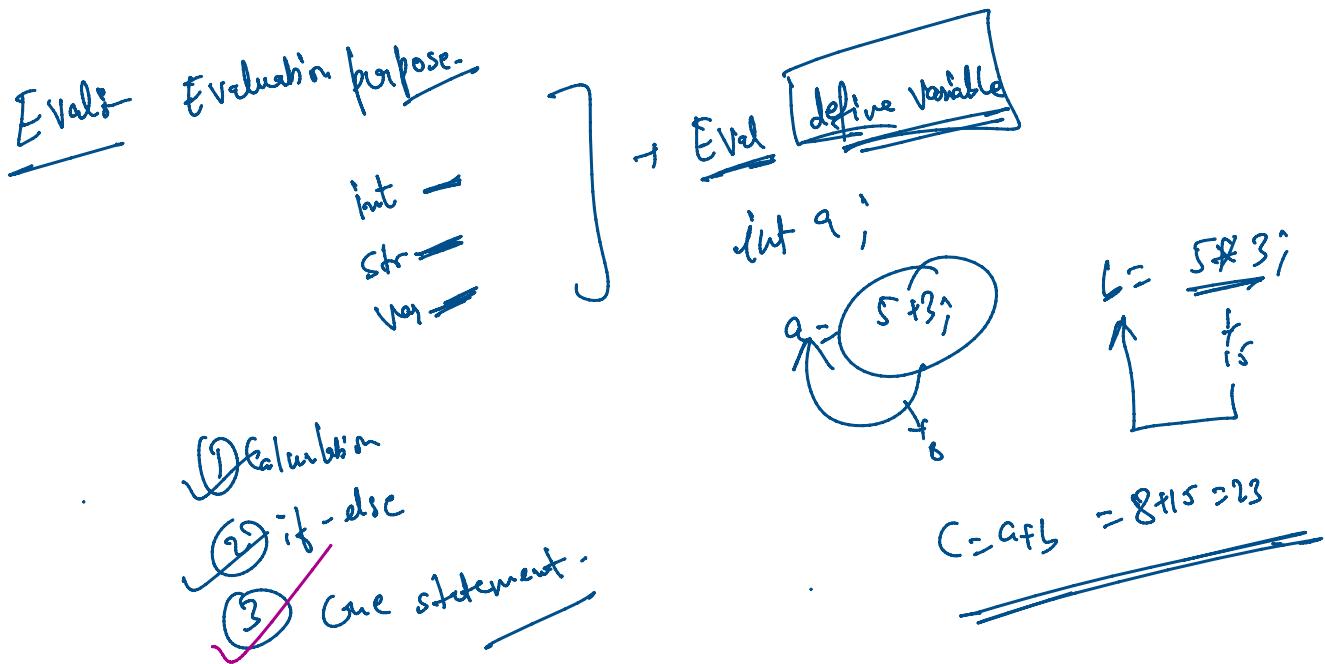
④ Dedup | sort .

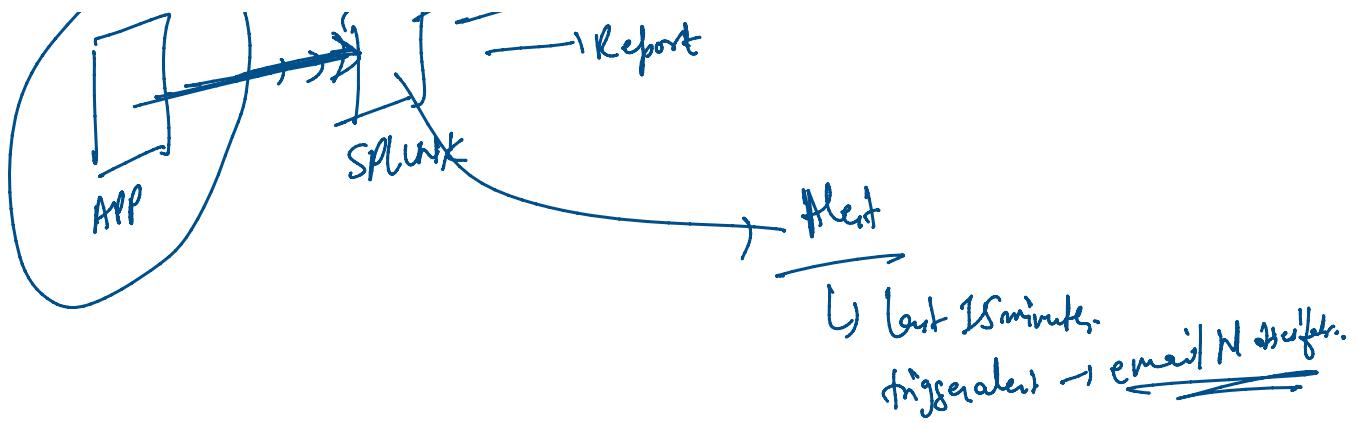
Duplicate value.

Sort (-) → Descending

Sort + → Ascending order

Sort & severity → Both are in
Sort & severity → the Ascending order





3. Case statements

Case 1: - Mon
Case 2: Tues.
Case 3: Wed

;

Default: Sunday

Case 1:

Case 2:

Case 3:

Case 4:

default:

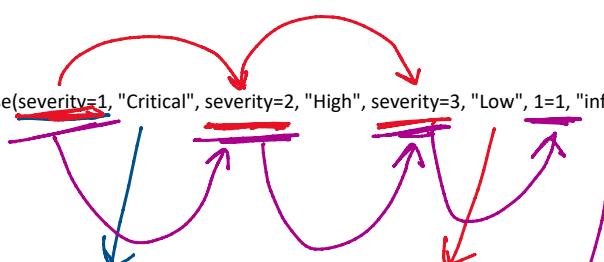
1 → Critical
2 → High
3 → Normal
4 → Low.

eval severity=case(severity=1, "Critical", severity=2, "High", severity=3, "Normal", severity=4, "Low")

1=1

Default Universal Condition

```
index=vk_idx | dedup severity | eval priority=case(severity=1, "Critical", severity=2, "High", severity=3, "Low", 1=1, "Info") | table severity, priority | sort severity
```



Off.

Severity>3.

Low.

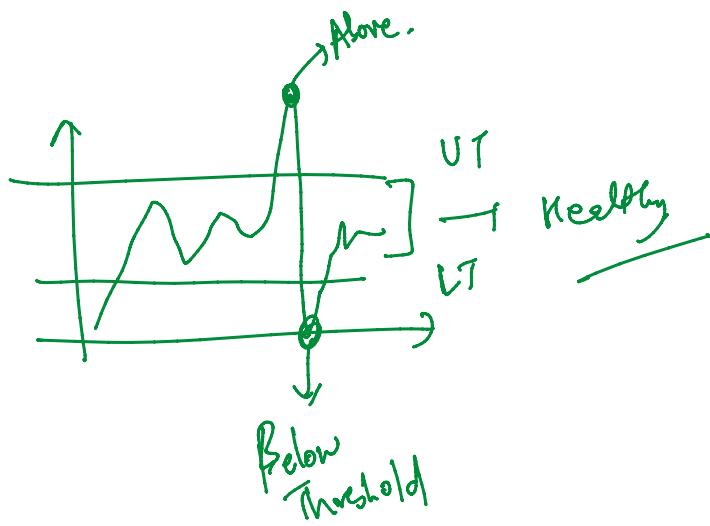
Severity>5

Info

Top & Rore:-

Top + top values

Rore + least values



Where & Search Commands

(A)	(B)
10	30
20	20
✓30	10
✓40	5
✓50	15

Search $A > 20 \rightarrow$ filter in the same field
Where $A > B \rightarrow$ filter b/w two fields

09th July:-

→ strftime

0th July:-

② Timechart

→ strftime
→ strftime.

- ① until Custom Visualization App
- ② Add xlabel & Add Col totals.
- ③ Rev. → field extraction, Date Manually.
- ④ EventCount
- ⑤ Fields