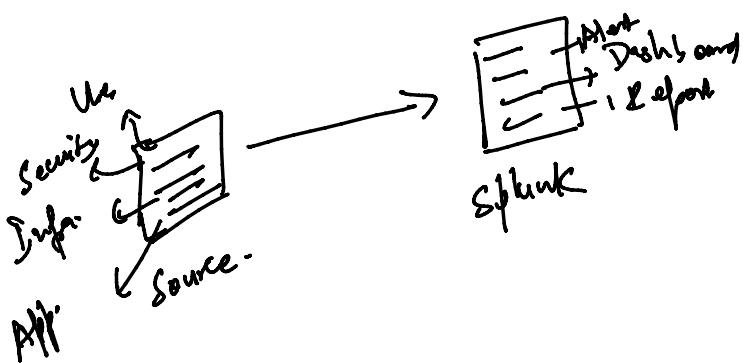


- (1) Splunk.
- (2) Components of Splunk

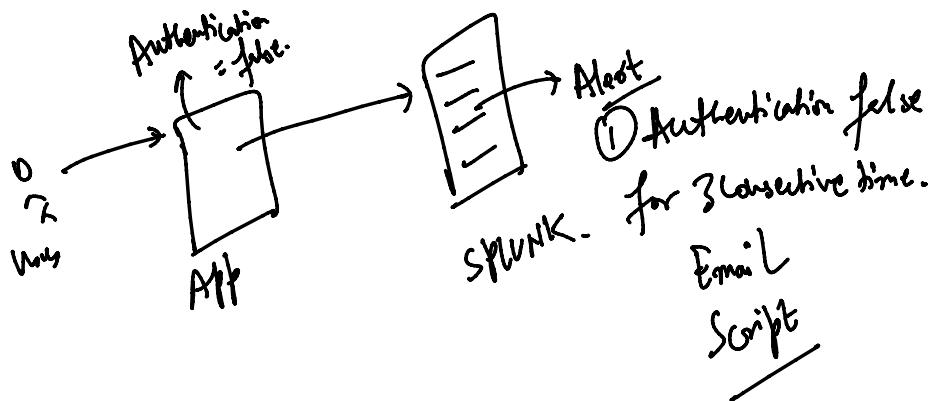
- (3) Use Case

(4) Basic Commands :-

- (1) file
- (2) remove
- (3) stats
- (4) eval
- (5) chart
- (6) timechart
- (7) Addcoltotals
- (8) Addtotals
- (9) rex
- (10) join



- (1) ELK
- (2) Splunk
- (3) Major
- (4) Dynatrace
- (5) AppD
- (6) Datadog

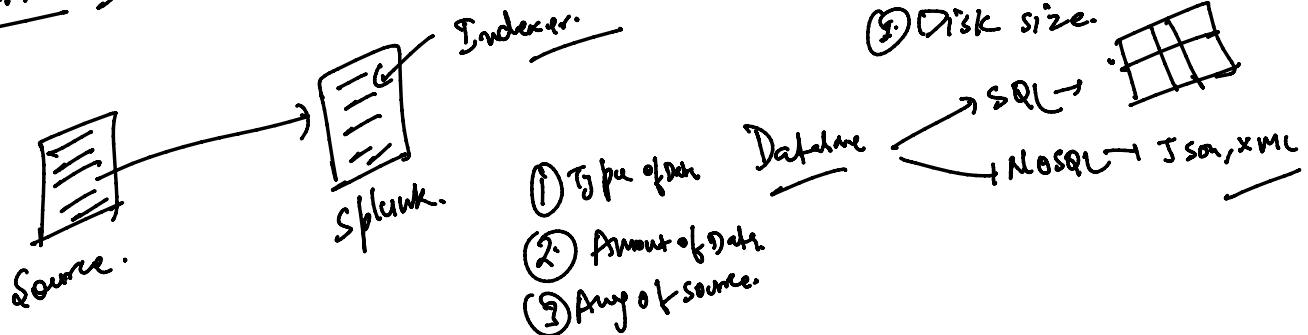


- Splunk:-
- ① Dashboard
 - ② Report
 - ③ Alert
 - ④ Predication
 - ⑤ MLTK

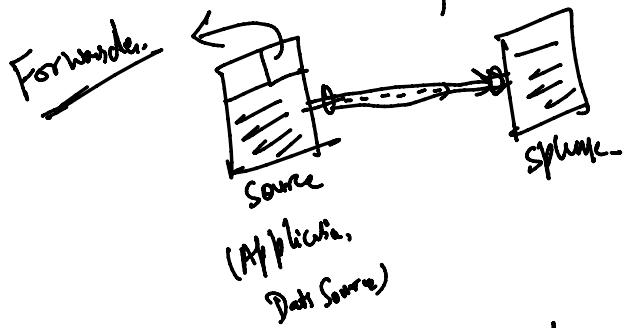
Components of Splunk:-

- ① Indexer
- ② Forwarder
- ③ Search Head
- ④ License Master

① Indexer: Internal Database where all the data storage works.



② Forwarder: Forward the data from Source to the destination.



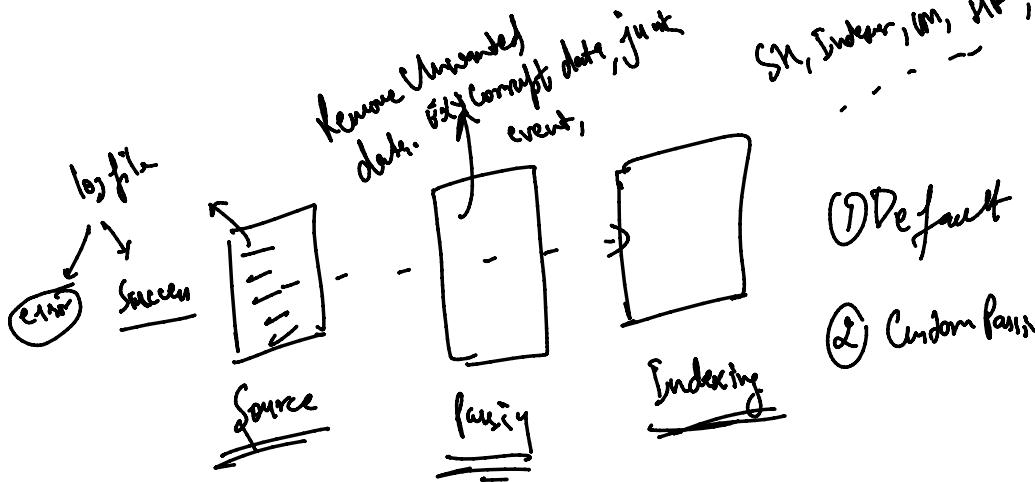
Xn → 30MB
Unty → 250MB

(PPT
Data Source)

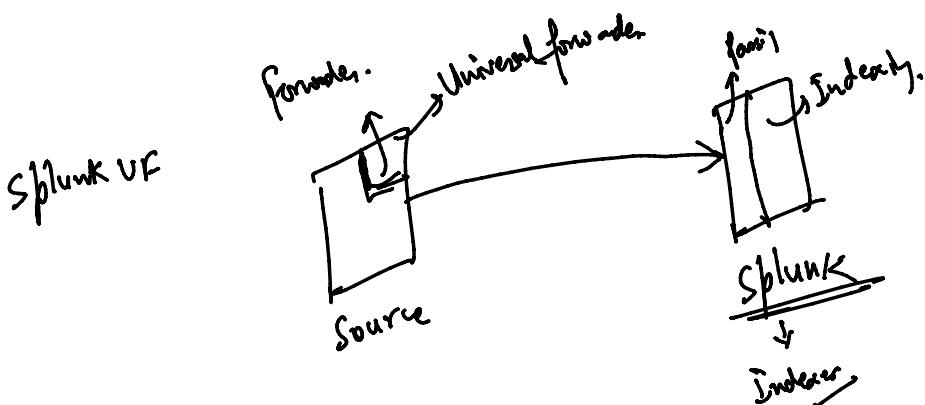
Two Type of forwarder

- ① Universal forwarder - Standalone package for universal forwarder
- ② Heavy forwarder - Splunk Enterprise.

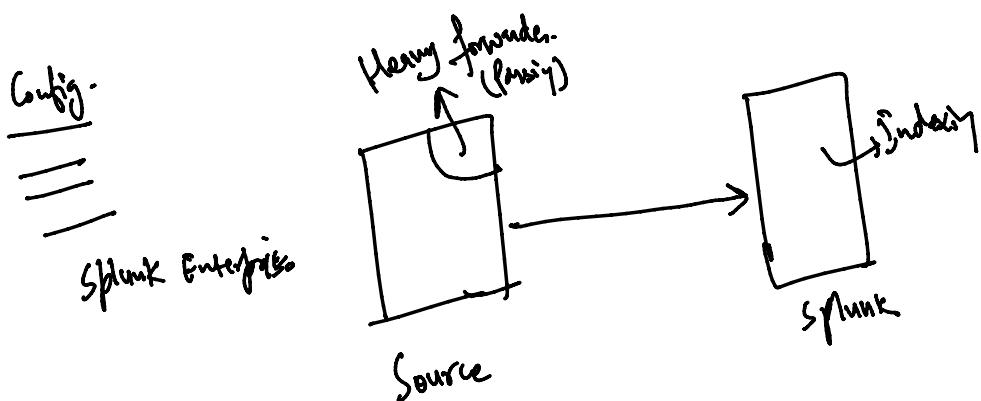
Universal → 2.5
Heavy → 4.85 MB → 5GB → 100+



- ① Default Parsing → Cleaning, removing corrupt data.
- ② Custom Parsing - Specific event by a specific log/story.



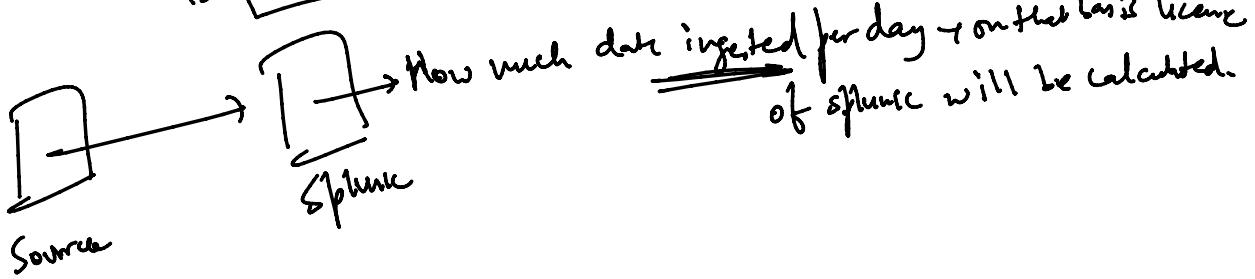
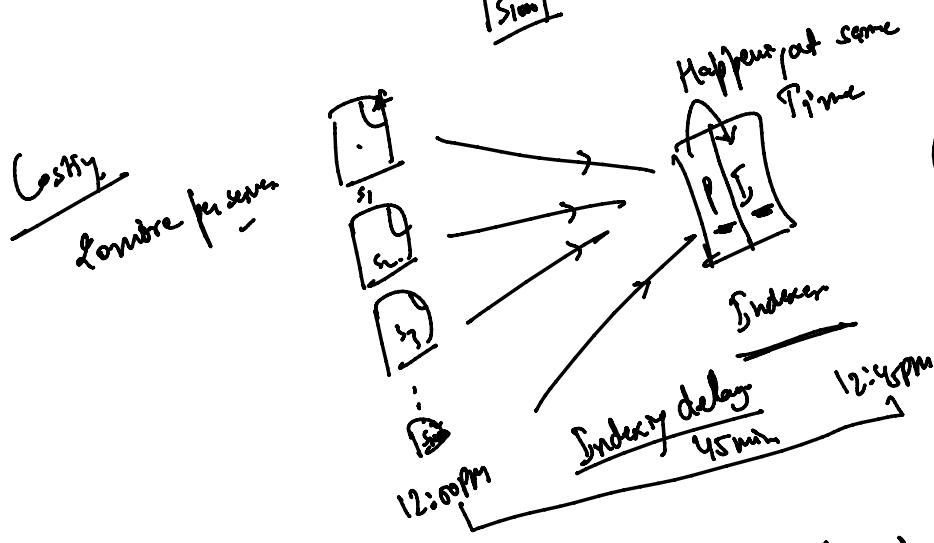
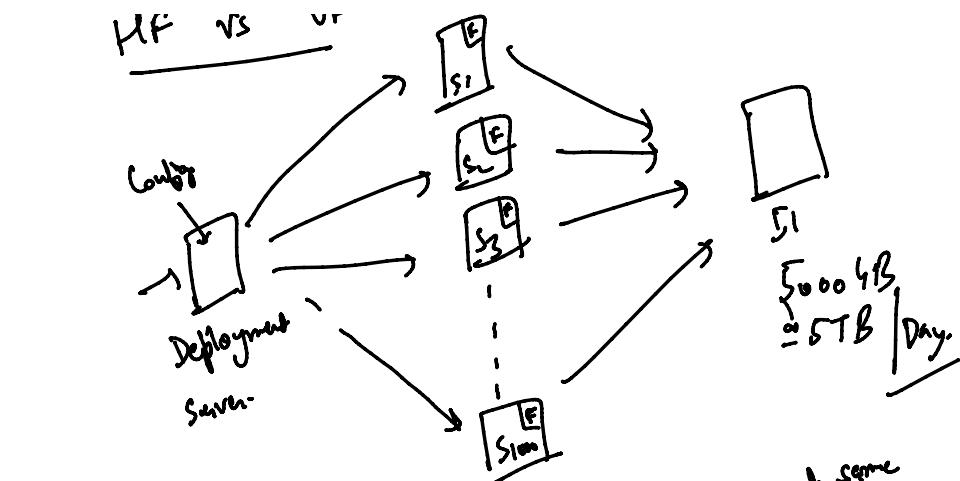
- ① forward the data same as it is.
- ② parsing will be taken care at the indexer level.
- ③ Incker = Parsy + Indexing.



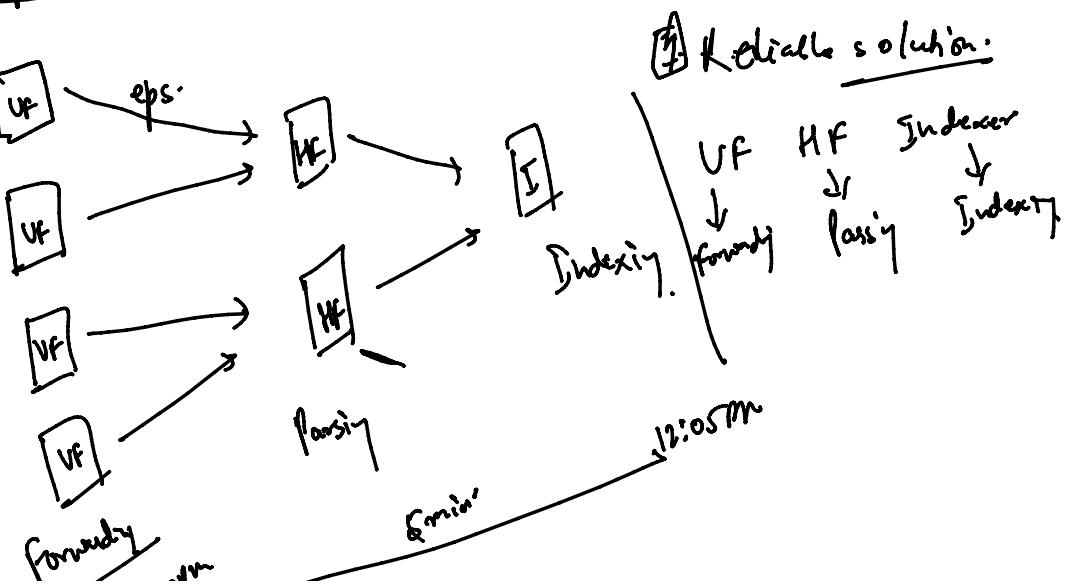
- ① forwarding of data is being taken care after parsing.
- ② Indexer will take care of only Indexing Activity.



- ① HF
- ② less time at Indexer

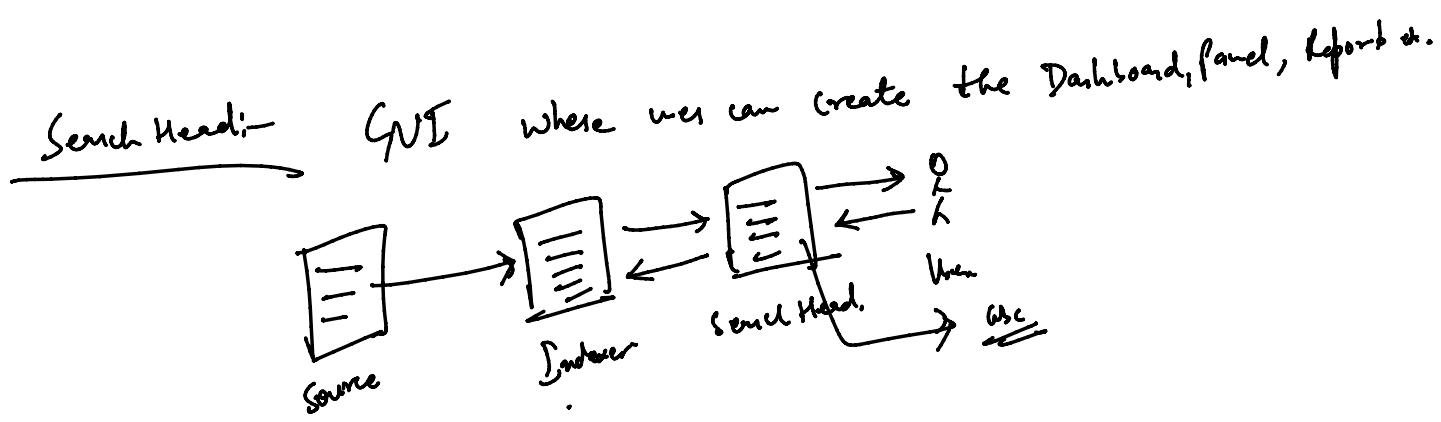


Hybrid Concept

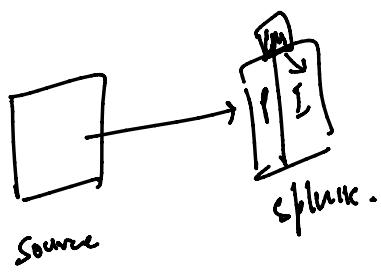


Forward
12:00pm

Emin'



Licence Manager: Policy agent which will monitor that someone should not be crossing the daily limit.

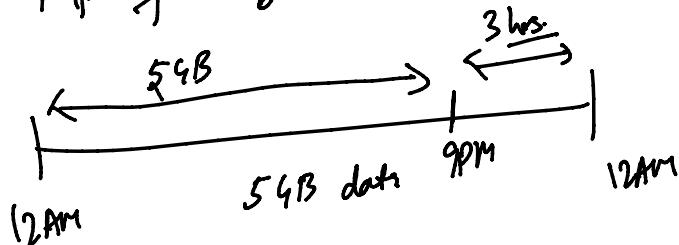


Criteria:

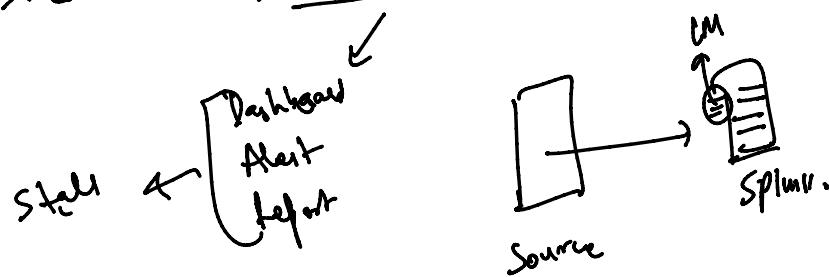
(1) LM is calculated on the basis of how much data is ingested in Splunk per day? 5 GB/day for 1 year. \$ \$ \$

- (1) No Carry forward
- (2) No lending from future days.

24 hrs. cycle → 12 AM - 12 AM



- (1) Saved in indexer, Search will be disabled.



- (1) Temp storage.
- (2) Auto-extend the license.
- (3) Delete old data.
- (4) Borrow from Next day.

- (1) Data Input.
- (2) New Database
- (3) Prediction

Start ~ Uptime

Source

Processor

- ③ Predication
- ④ Buffer

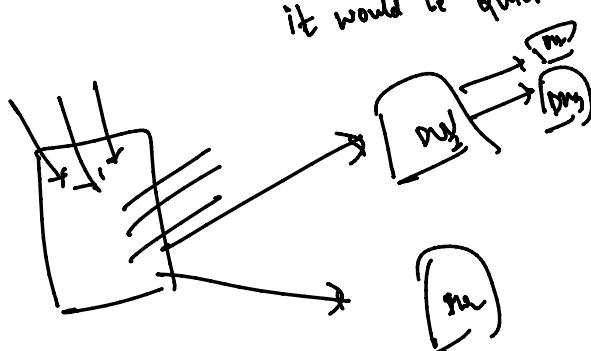
per GB cost vary.

3 times → Today.

datatype

S ₁	S ₂				
S ₃	I ₁	I ₂	I ₃	I ₄	

Indexer



I₁ + Security logs

S₁ → Palo

S₂ → fireeye

S₃ + McAfee

reserved to structure
splunk → app specific
↳ License not consumed.
↳ internal, - audit
- introspect.
- * No Destination

pre-defined Index

Index

↳ Default Index → index = main.
↳ C:\logon\gs /

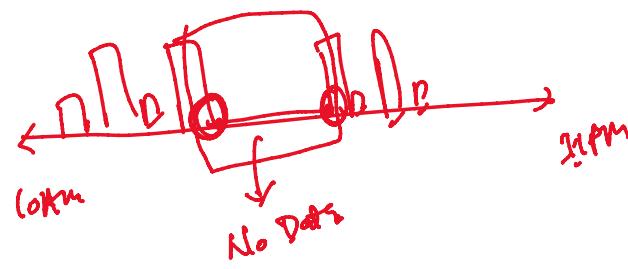
↳ Custom Index
↳ Create User specific index.

index = VK-index

index = sno 55

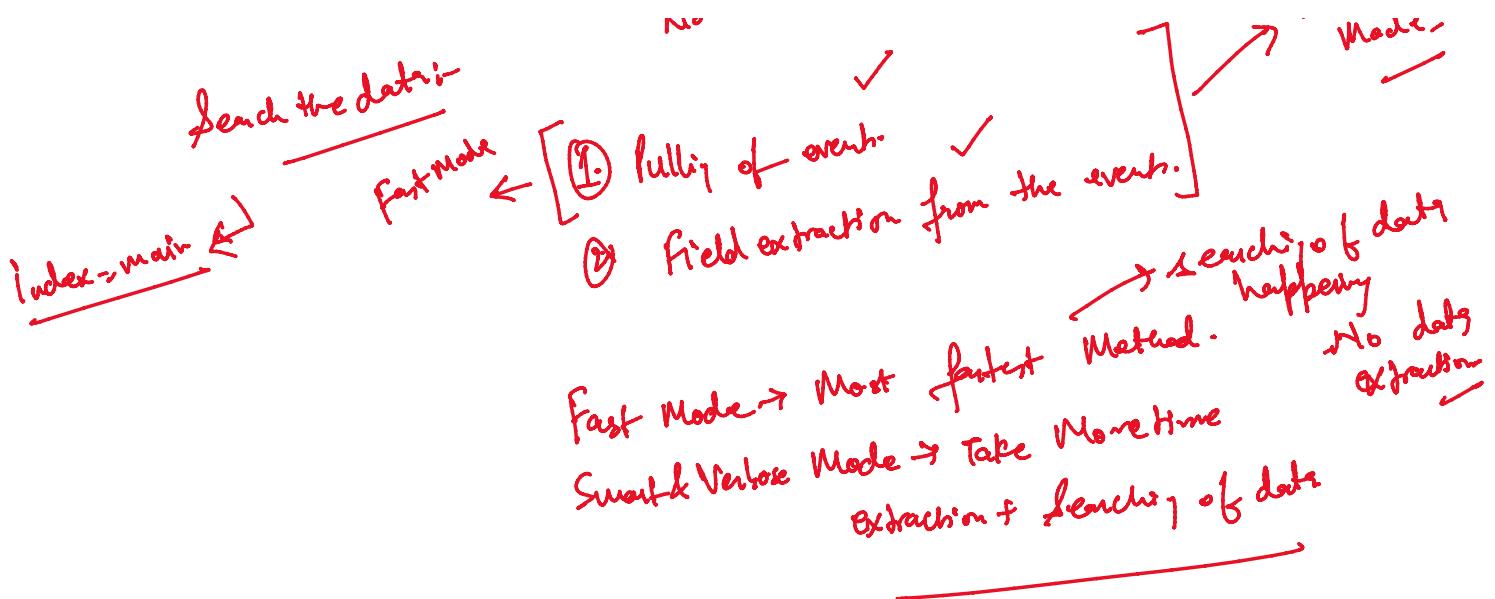
While data ingestion,
if you are not defining the
destination → main index

Store your custom
data.
license will be consumed.



0. → the data

smart / Vector
Mode



Commands:-

- (1) table
- (2) Rename
- (3) top
- (4) rare
- (5) Dedup
- (6) Append / Appendable / Appendpipe
- (7) eval
- (8) Timestart
- (9) chart
- (10) eventcount
- (11) Sort
- (12) stats

(1) Tablet create the Tabular output
table field1, field2, field3

Top it will give the top values

| top sourceType default | Top 10 values

| top limit=3 sourceType | Top 3 values

| top limit=0 sourceType | Unlimited output.

Eval:- Evaluation purpose

int —
Var —
Str —

- expression.

Var -
 Str -
 eval define-variable = expression
 $\Rightarrow \text{Kb} = (\text{bytes}/1024)$

- ① Calculation \rightarrow bytes \rightarrow Kb
- ② if-else \rightarrow
- ③ Case Statement \rightarrow

② if - else :-

```

if (a>b)
{
    Print (a);
}
else {
    Print (b);
}
    
```

if - else Statement
 if
 $\text{if } (a > b, a, b)$

③ Case Statement

Switch(a): -

Switch(b): -

Switch(c): -

:

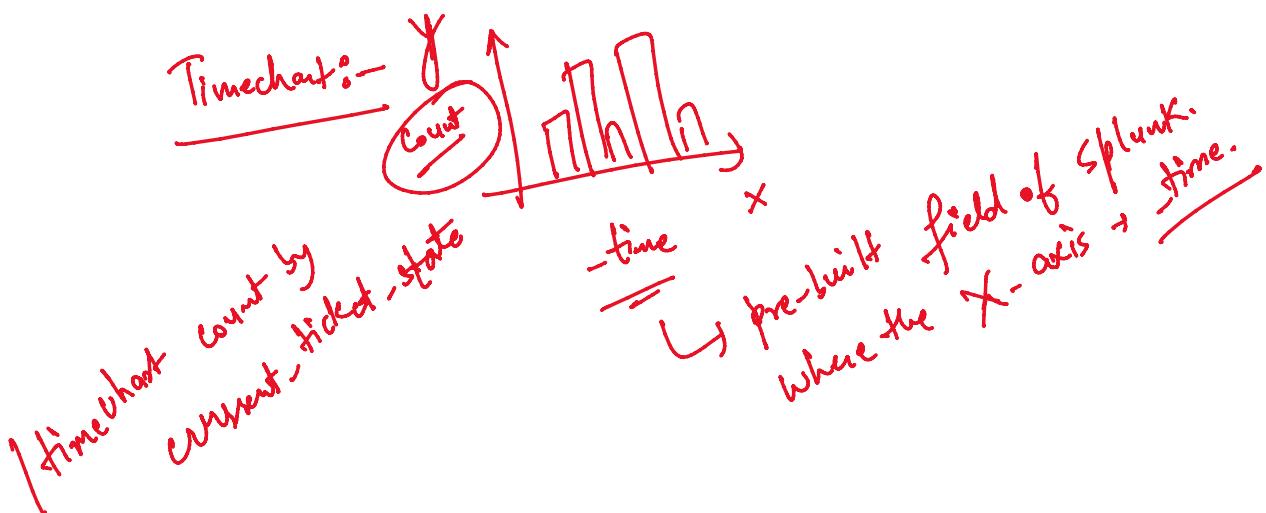
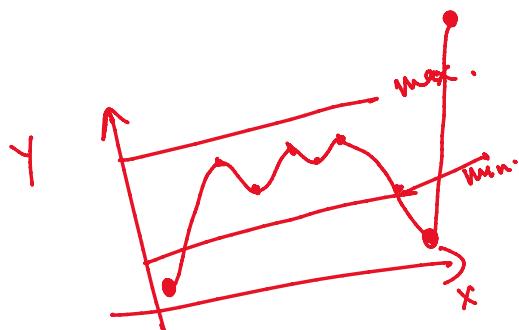
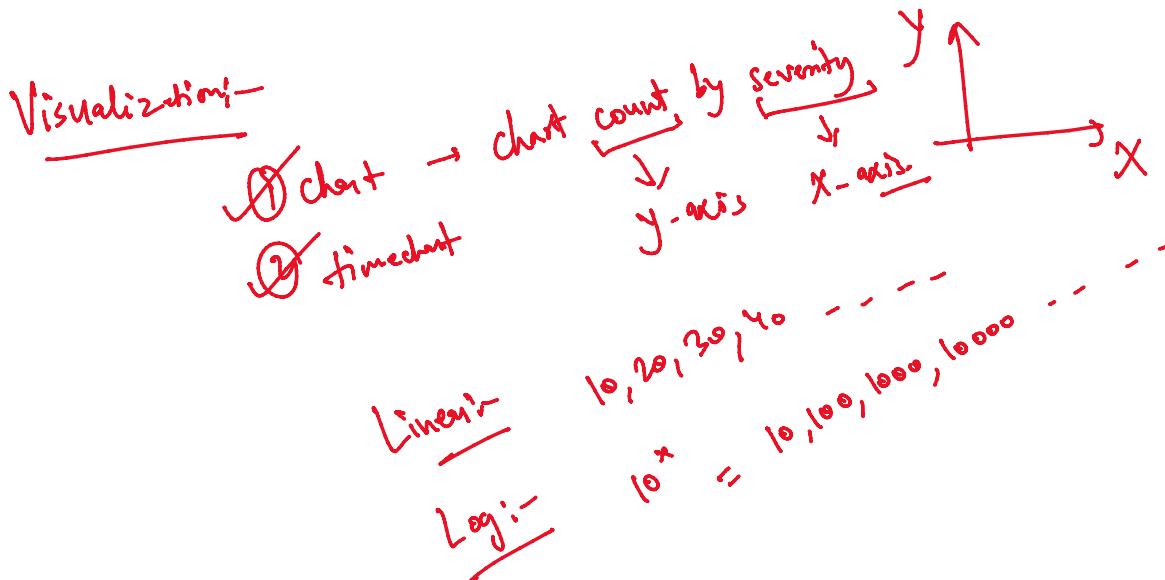
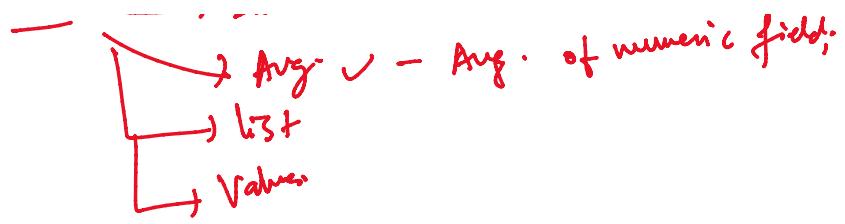
default: -

Sort - severity
 ↳ Descending order

Sort + severity
 ↳ Default \rightarrow Ascending order.

Stat:- Statistical output -

Stat \rightarrow Count
 Stat \rightarrow Sum \checkmark - summation of numeric field
 Stat \rightarrow Avg. \checkmark - Avg. of numeric field;



time-submitted = 09-09-09 09:09

min

time-submitted = 09-09-09 09:09

%.d-%m-%Y → Asia

%.m-%d-%Y → US

%.Y-%m-%d → Europe

date & time → epoch format

Strptime → parse the date & time field

Strftime → format the date & time field.

Convert the date & time field
→ Convert the format f₁ to
format f₂

Convert into the system
Readable format