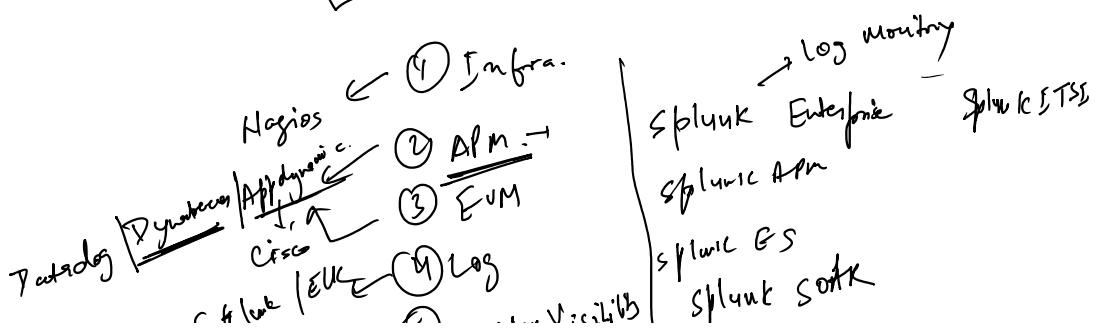
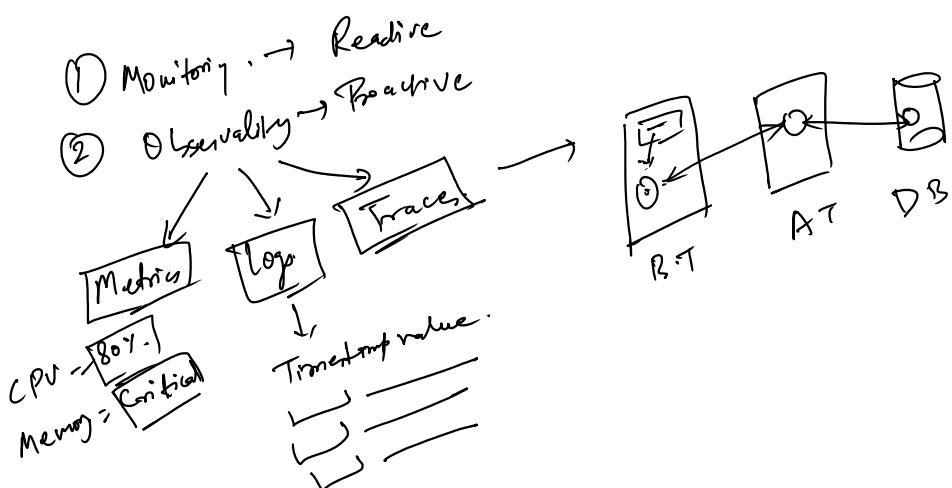
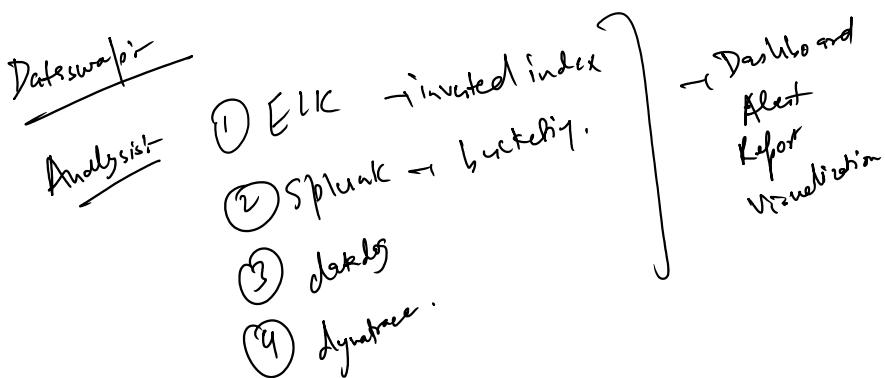
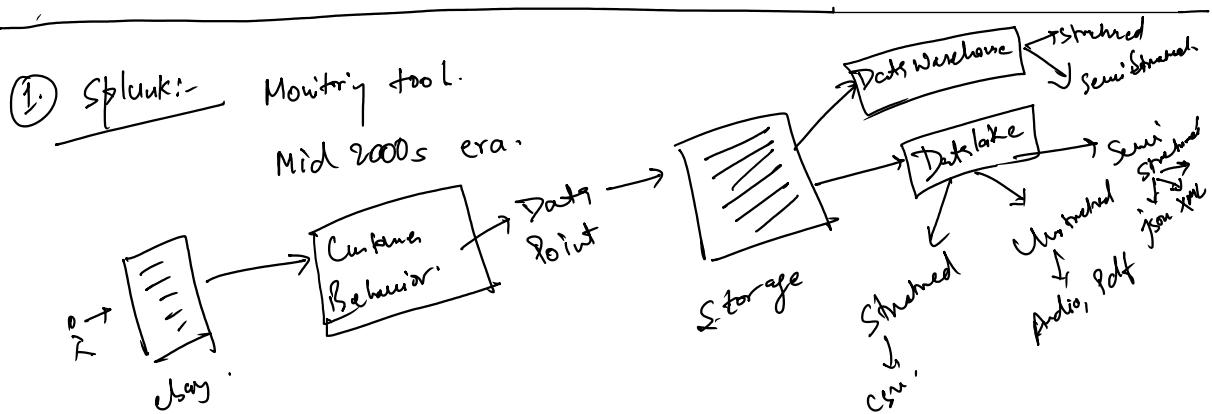


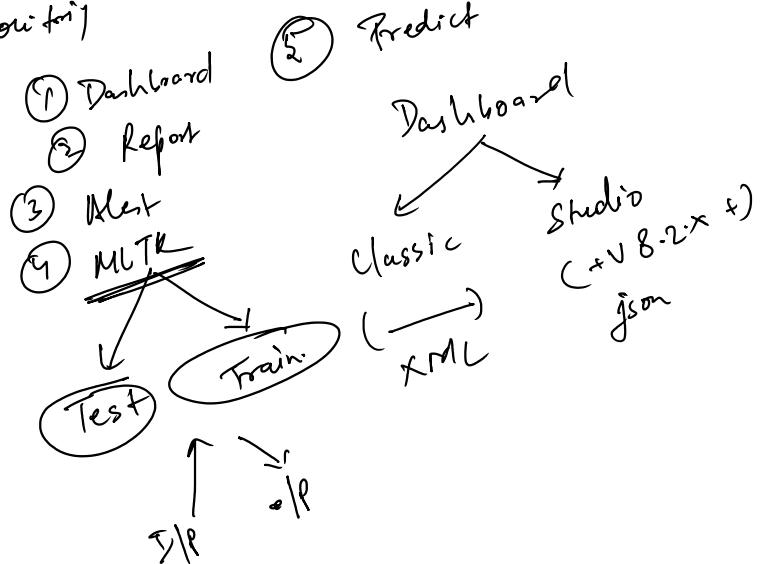
- ① S plunk -
 - ② Component.
 - ③ Use Cases
 - ④ Adv. & Disadv.

 Feature.



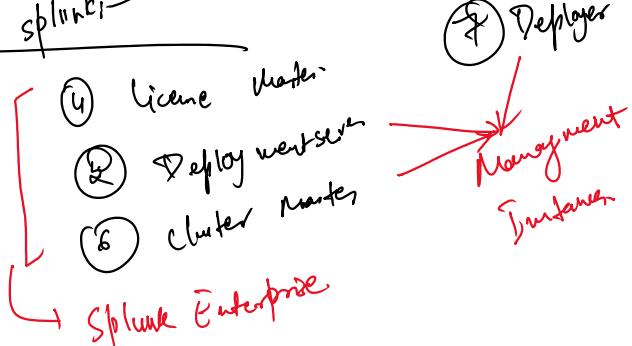


Splunk:- Log Monitoring



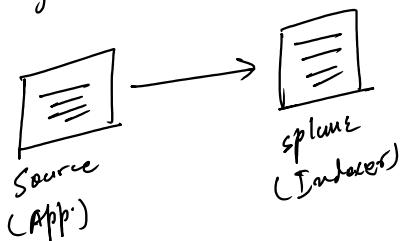
Components of Splunk

- (1) Indexer
- (2) Search Head
- (3) Forwarder

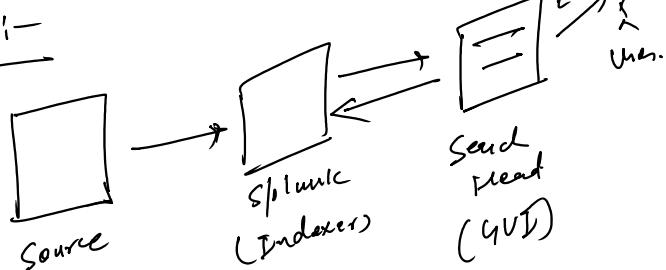


1. Indexer

Storage your data.



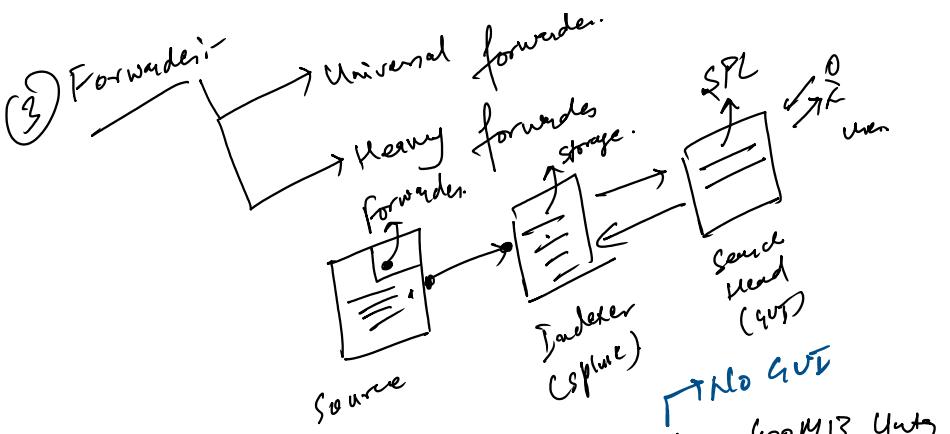
2. Search Head:-



Forwarder:-

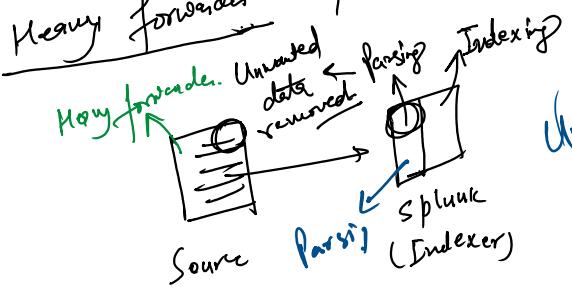
SPL

Universal forwarder



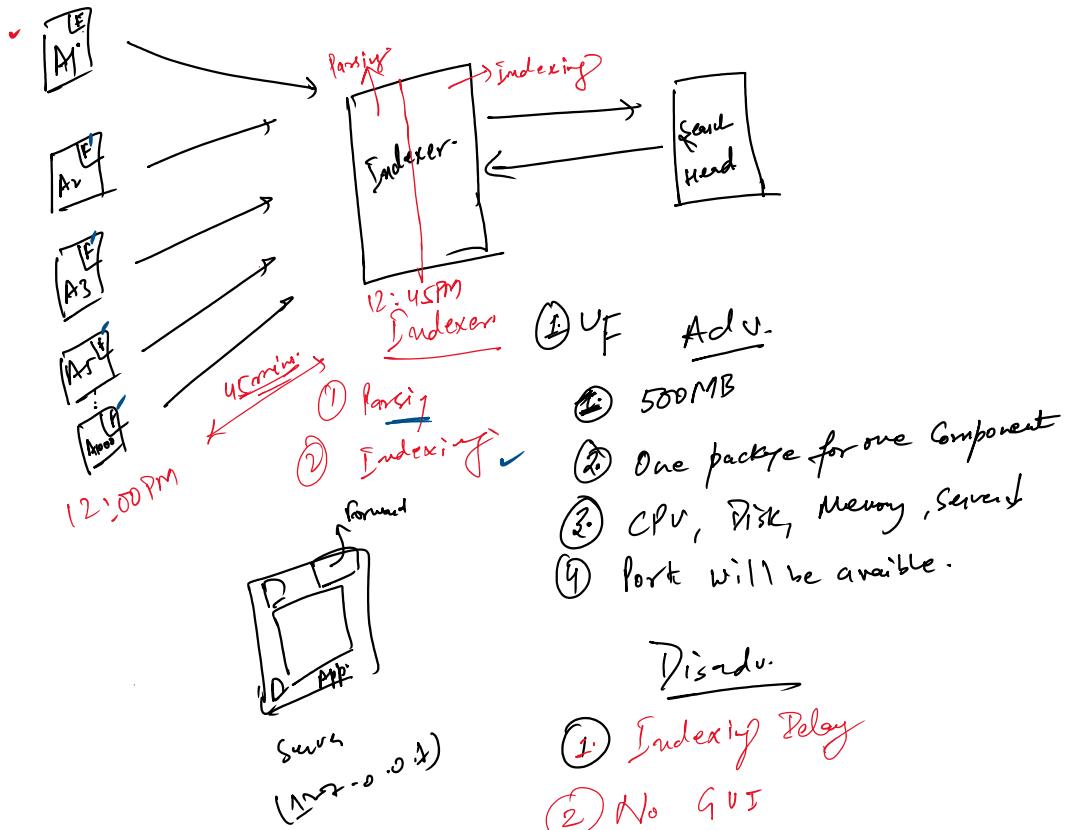
Universal Forwarder → Splunk Universal Forwarder → 600M13 Units.

Heavy forwarder → Splunk Enterprise → 5.78GB Units



Universal forwarder forward
data same as it is

② More Complex



APP:-

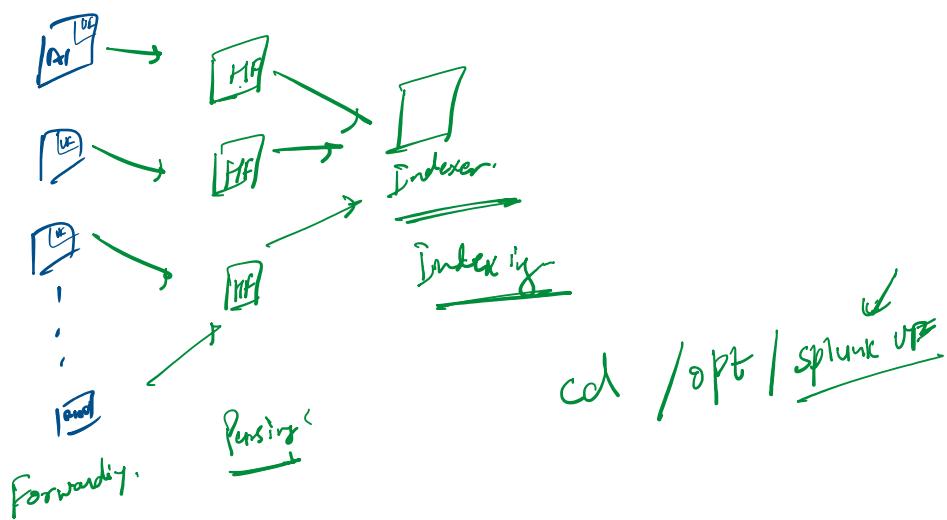
" " "

Adv.:-

- ① GUI
- ② Load on Indexer is negligible.
- ③ No or minimal indexing Delay.

Disadv.:-

- ① Size - 6 GB
- ② Computational.
- ③ Cost ↑
- ④ Root will be occupied.



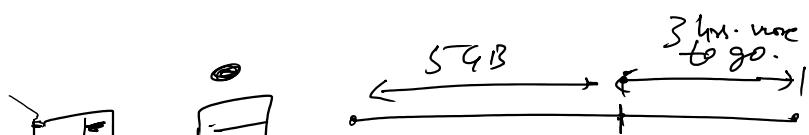
4. License Master:-

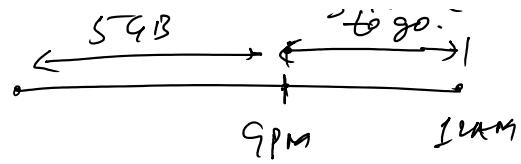
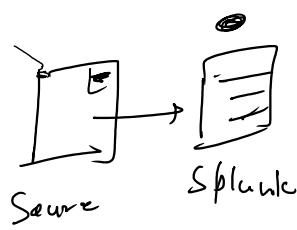
Check the license condition.

- ① Timeframe
- ② Feature usage
- ③ Storage
- ④ Size of Infra.

Amount of data ingested in Splunk on the daily basis.
 $5\text{GB/d} \rightarrow 1\text{year}$

↳ License calculation is done.

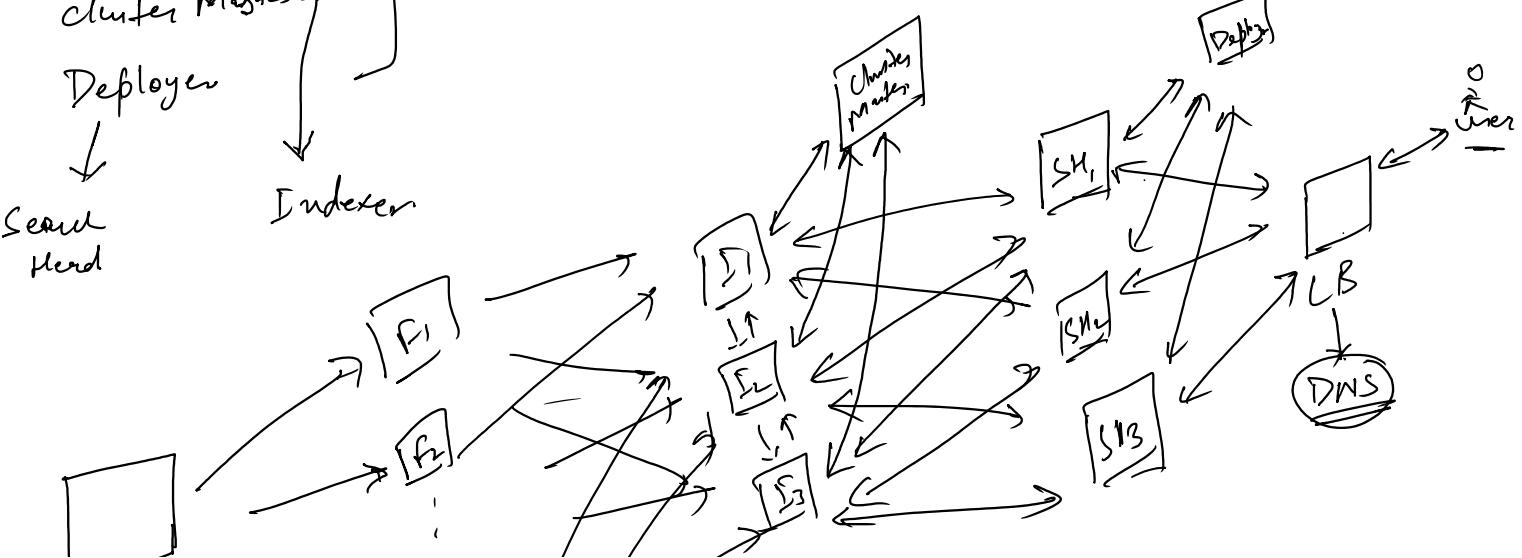
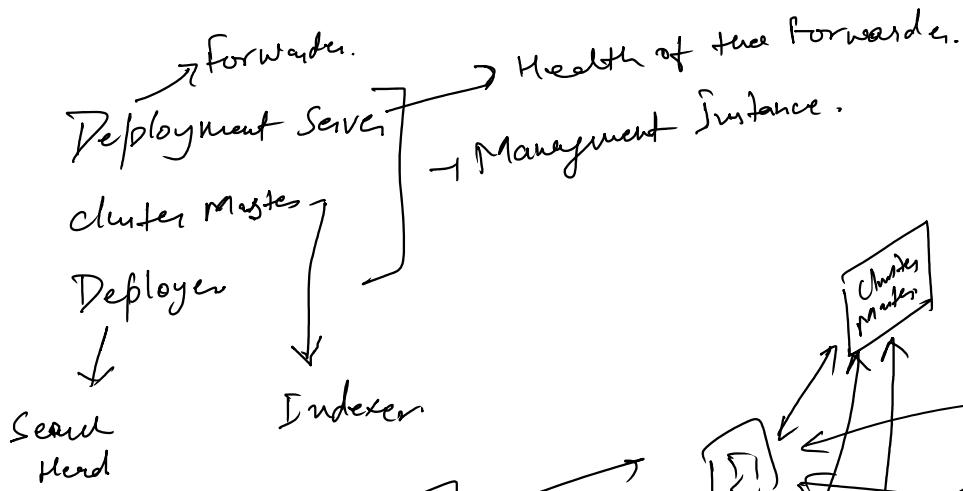
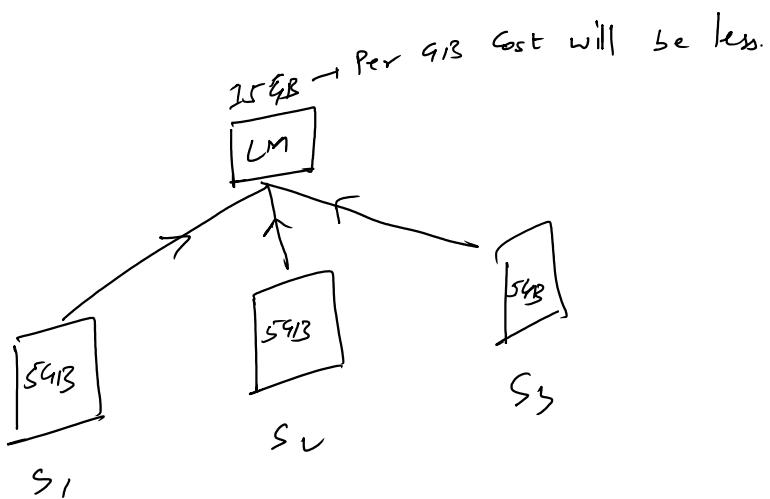


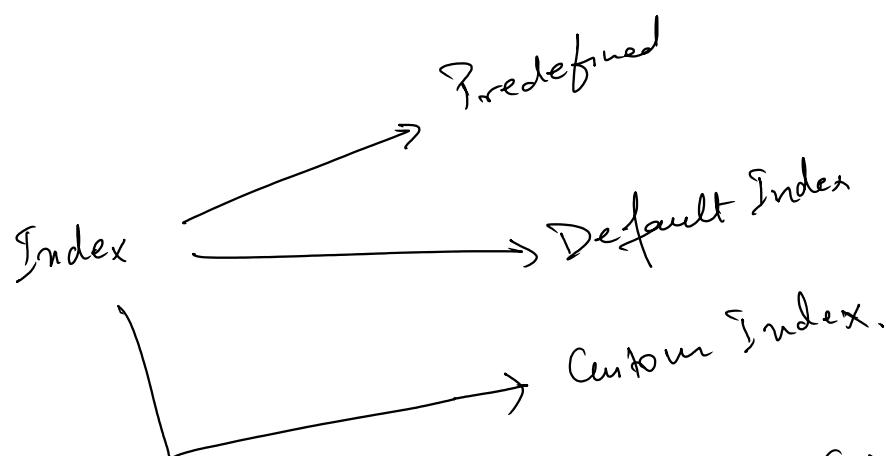
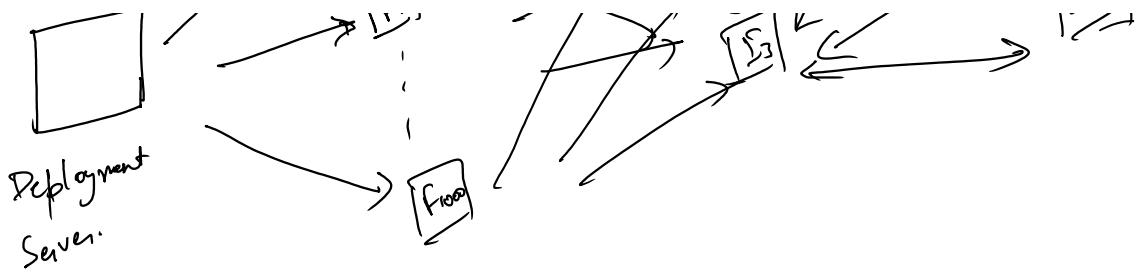


① Date ingestion will continue.
Searching will be stopped.
 No date will be sensible

↓
 Break → 5 times in a day.

License Pooling :-
 $S_1 + S_2 + S_3 \neq 15\text{GB}$





Predefined → Index starting with * (-internal, _audit, _introspection, _telemetry)

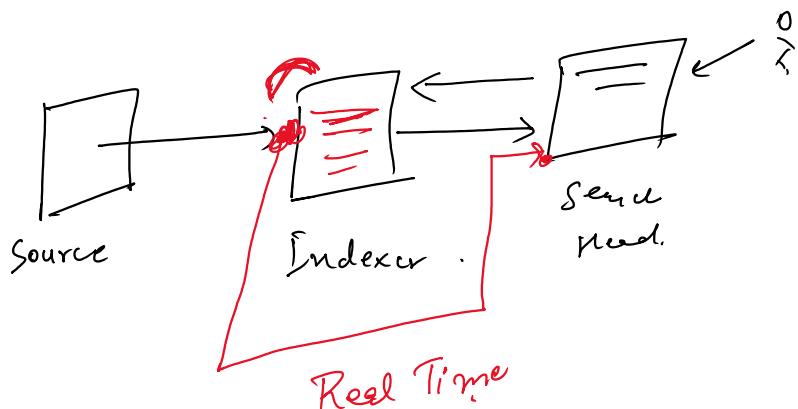
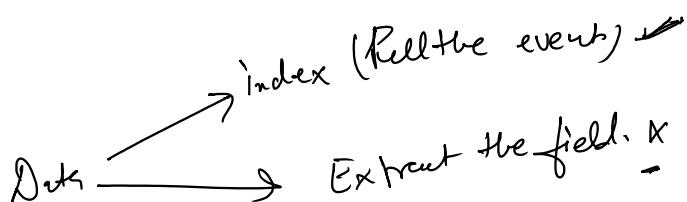
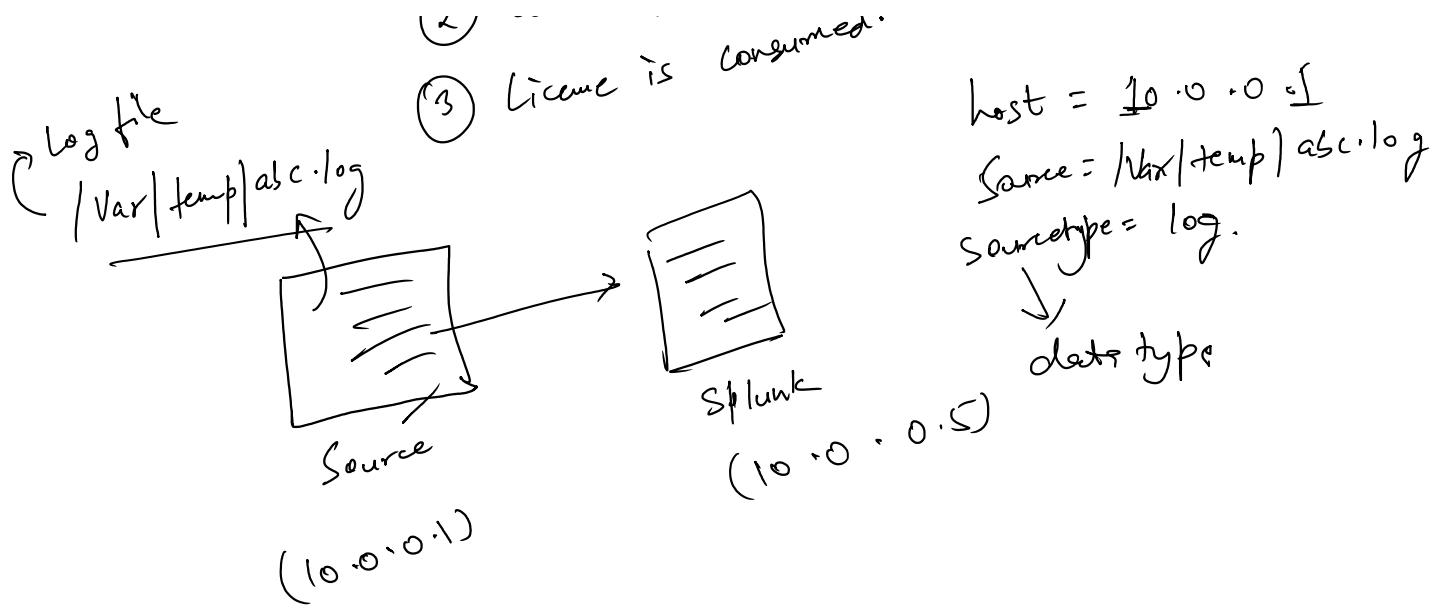
- ① License is not calculated for internal logs of splunk
- ② License is not consumed for ingest app custom data.
- ③ You can't ingest any other application/custom data.

Default

- ① index = "main"
- ② You can ingest app custom data.
- ③ License is consumed.
- ④ When user doesn't specify the index name in log forwarding, then log is ingested in default index (index = main)

Custom Index

- ① User can create their own index (vc_idx, snow_idx).
- ② Custom / App - data, you can ingest in splunk.
- ③ License is consumed.



SPL Commands:

- 1 Table
- 2 Rename
- 3 Sort
- 4 Stats
- 5 Eval
- 6 Top
- 7 Rare

- 8 chart
- 9 Timechart
- 10 Date & Time fun
- 11 geomap
- 12 Single Value Visualization
- 13 Append / Appendcols | Appendpipe
- 14 Addtotal / Addcoltotal

- 15 Dedup
- 16 Rex

(6) Top
(7) Rare.

(14) Add total / Add Col total.

(1) Table:- Tabular output
Ex:- Table f₁, f₂, f₃ - - -

(2) Rename:- change the name of the field name at search time
Ex:- rename to AS Incident-number

(3) stats:- (1) Count → No. of events.
 ↳ | stat count

(2) Sum → | stat sum (→ as —)

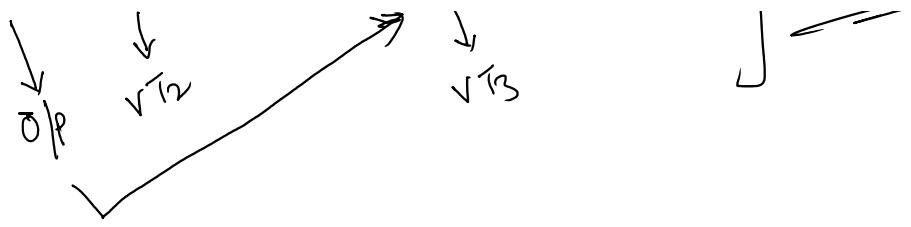
(3) Avg. → | stat avg (→ as —)

(4) Value. → group the fields on specific value. Unique one
 All the values-

(5) list →

Virtual table
index="vk_idx" sourcetype="csv"
| stats count as total by current_ticket_state, severity
↳ VT₁] + Total VT = 2

index="vk_idx" sourcetype="csv" ↳ VT₁
| stats count by current_ticket_state, severity | rename count as total ↳ VT₂
↳ VT₃] + Total VT = 3



Sort :- Sorting purpose .
 Ascending :- Sort count | Sort (+) count
 Descending :- Sort - count -