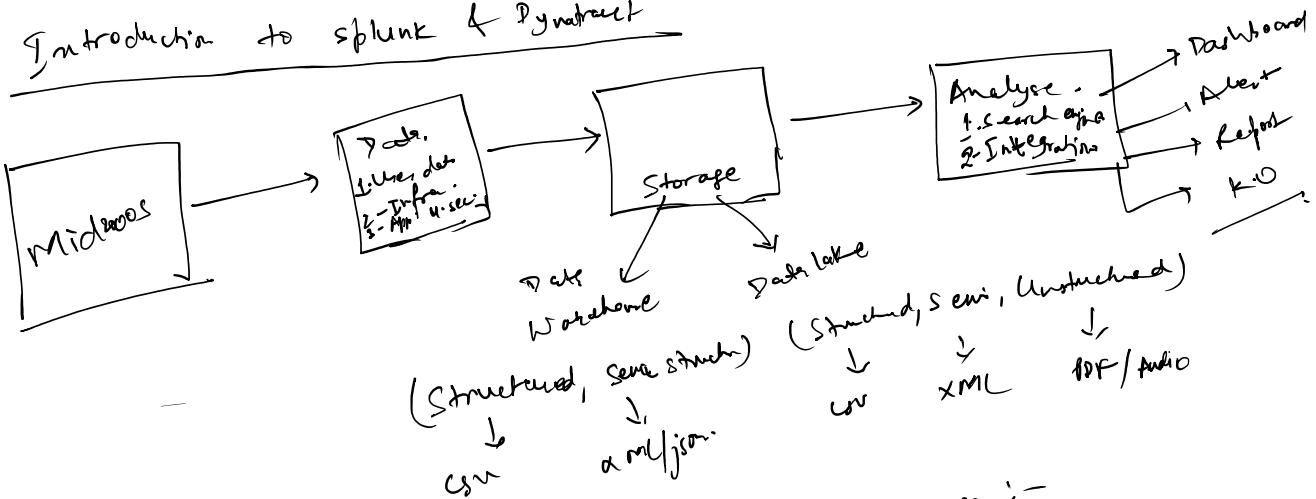


## ① Introduction to Splunk & Dynatrace



Splunk :-

- ① Log Monitoring tool
- ② Dashboard, Reports, Alert
- ③ ML, Predictive Analytics

Monitoring → Reactive Approach

Dynatrace :-

- ① Observability Tool
- ② APM, RUM, Log monitoring, Container, Cloud
- ③ Database visibility
- ④ Dashboard, Alert, API

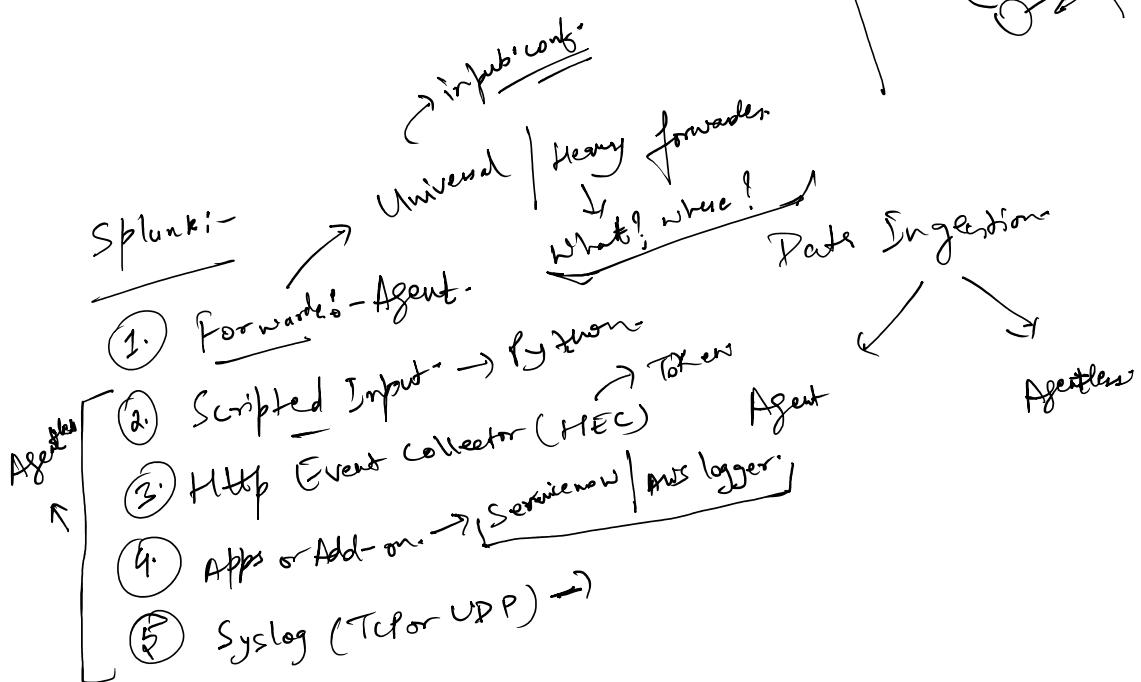
Observability

- ① Proactive Approach
- ② Metrics → CPU > 40%
- ③ Logs → timestamp value
- ④ Traces → Node level
- ⑤ BT → Distro

→ pub/sub

Universal | Heavy forwarder  
what, where?

Data Ingestion



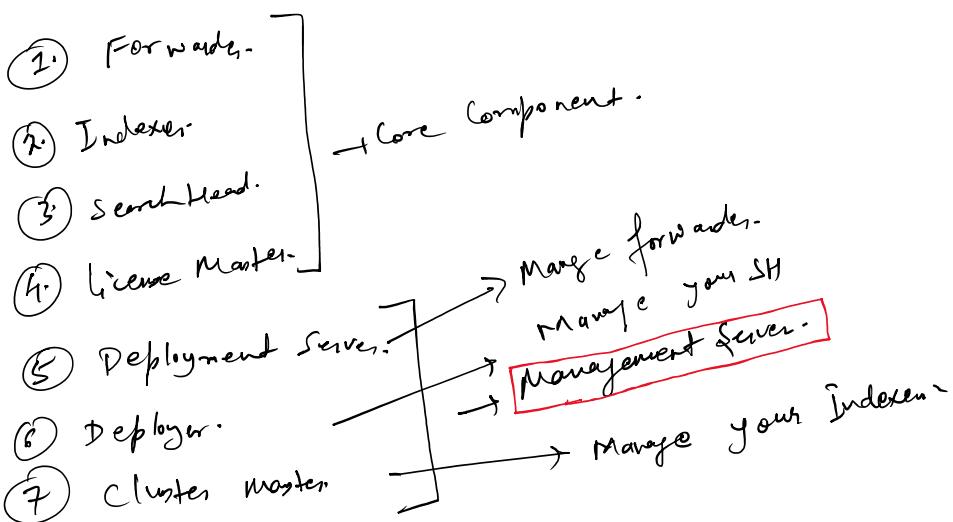
Dynatrace

- ① One Agent → Agent
- ② API → Native Gate

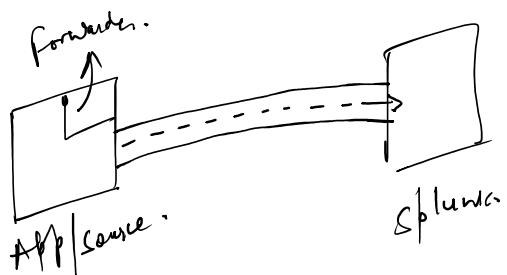
→ Agentless

- ② API
  - ③ Active Gate
  - ④ Custom App / Add-on
  - ⑤ Open telemetry
  - ⑥ Syslog
- Agents

## Components of Splunk

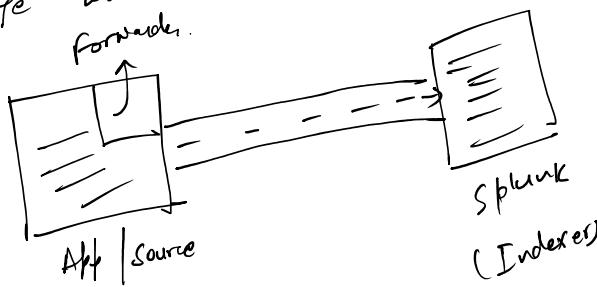


### ① Forwarder

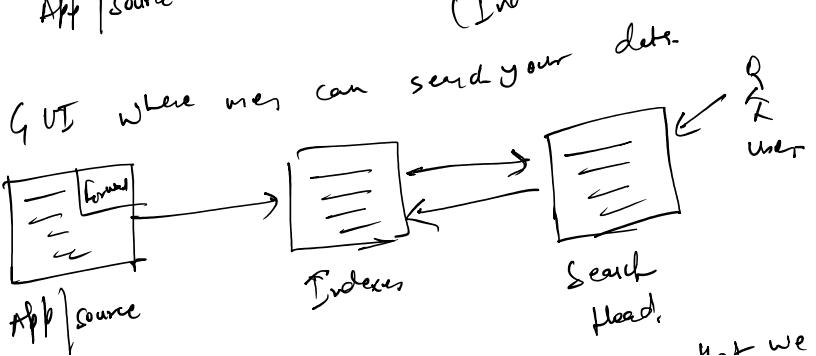


### ② Indexer

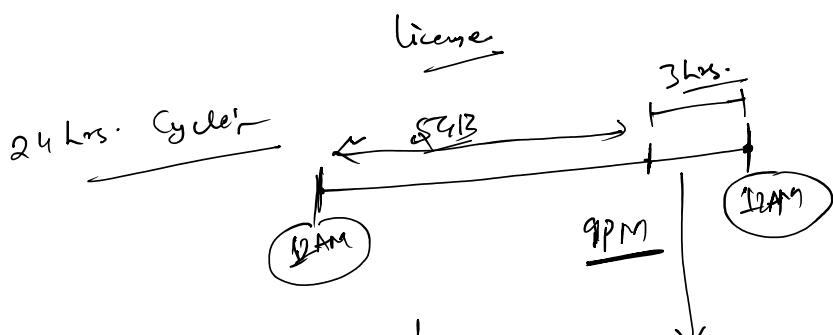
Storage where the data is stored.



### ③ Search Head



App source → Indexes → Search Head.  
 Policy agent that will make sure that we will  
 adhere with the license policy.  
 How much data ingested on daily basis?  
 $5GB/day \rightarrow 1\text{ year}$

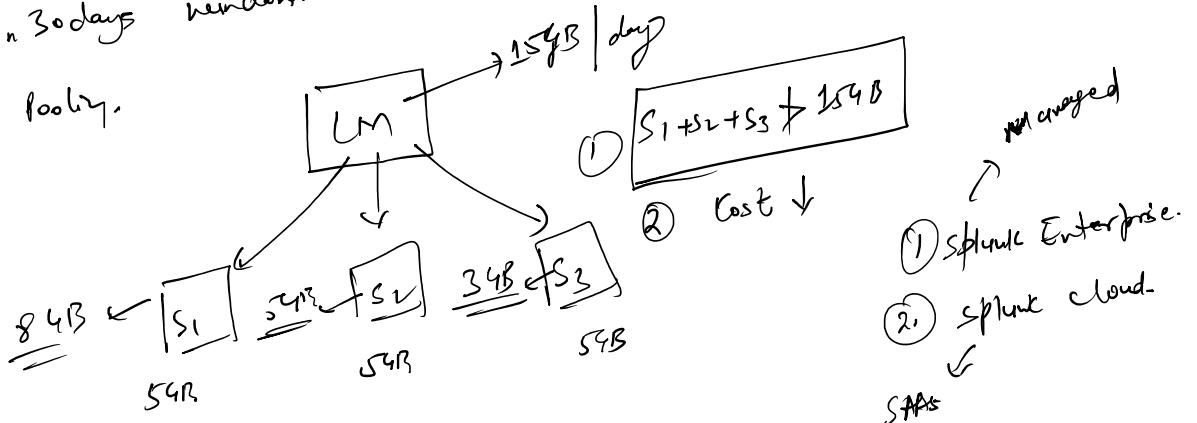


Alert / Report / Dashboard  
System will come on alert

- ① Data ingestion will continue.
- ② Searching of data will be disabled.

\* 5 times in 30 days window

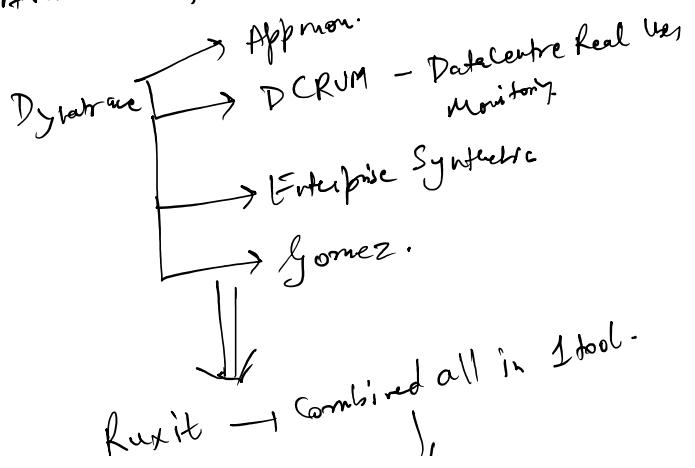
\* license policy.



Component in Pyretail →

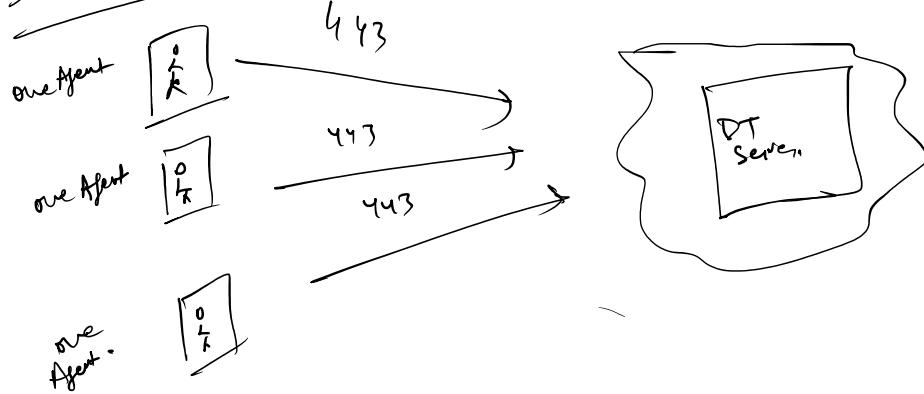
- ① SaaS
- ② Managed

Around 2014, DT multiple monitoring tool



Run it → Combined all in one  
↓  
by interface

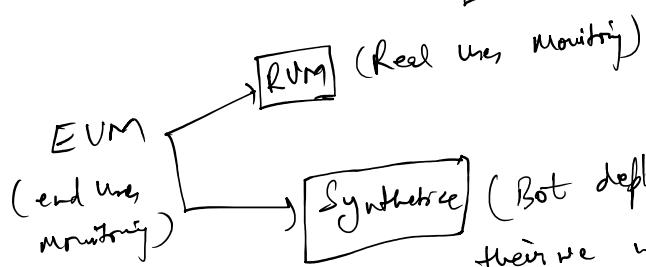
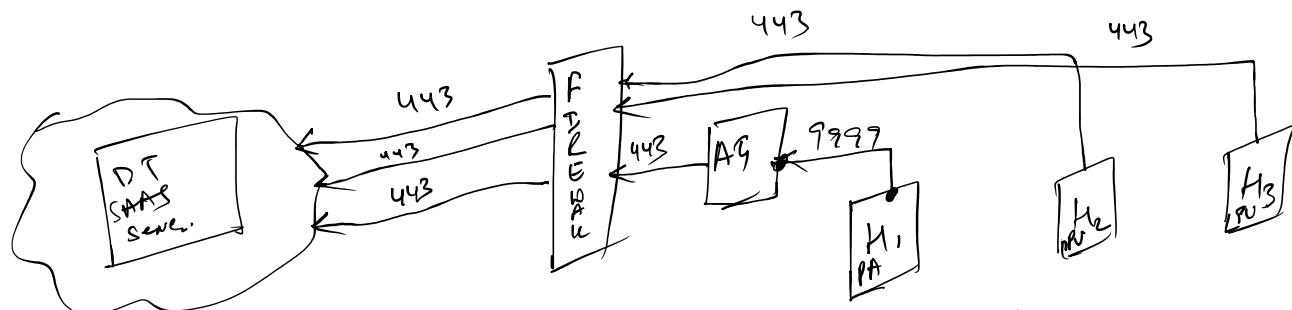
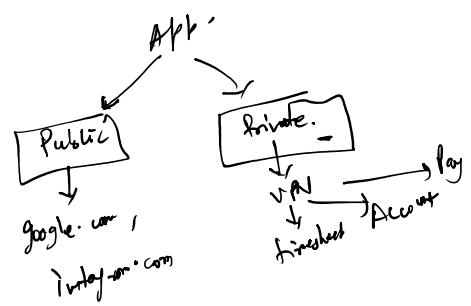
### ① SaaS:-



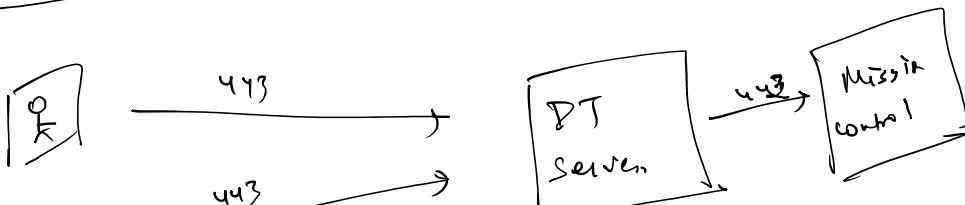
One Agent: - Doesn't depends on the Application language. It depends on the OS. (Windows / Linux)

### Active Gate:-

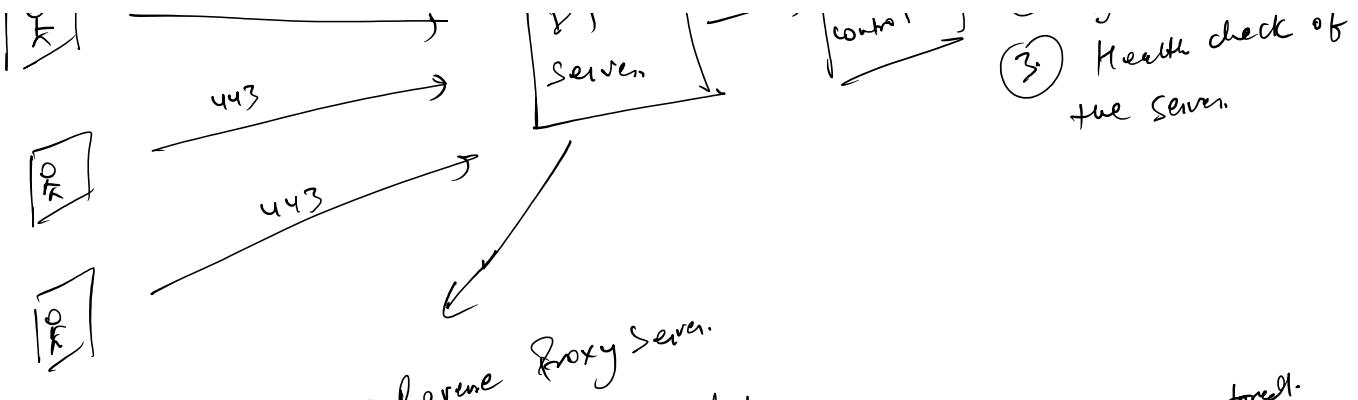
- ① Private App Monitoring -
- ② Cloud monitoring ,
- ③ Synthetic private Monitoring .



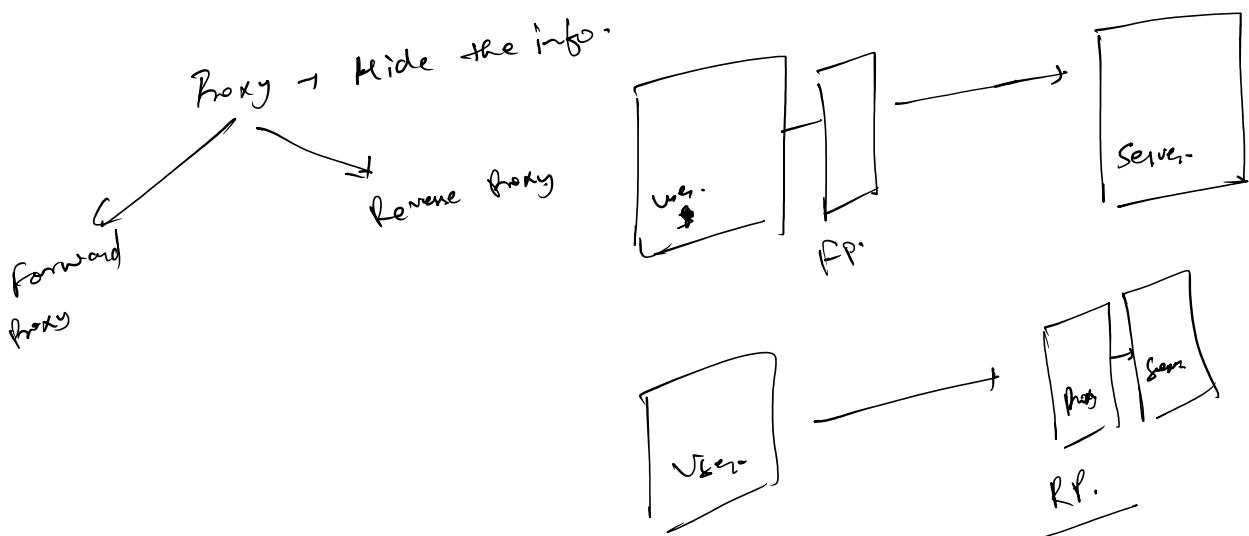
### DT Managed Architecture:-



- ① check license.
- ② upgrade Availability
- ③ Health check of ... servers.



- ① nginx → Reverse Proxy Server. → Search & Analyse the data.
- ② Elastic Search → Reverse Proxy Server. → Distributed Database where data is stored.
- ③ Cassandra Hypercube → Reverse Proxy Server. → Collect, Process & Analyse the data.
- ④ DT Serve. → Reverse Proxy Server. → Collect, Process & Analyse the data.



## Licence in DT6

- ① classic licensing (legacy)
  - ② Dynatrace Platform Subscription (DPS) — April 2023
- ① classic licensing → Based on fixed Allocation of unit
- ① Host Unit / Host Unit hours -
- ② Dynatrace Data Unit (DDU) - logs, trees, custom metrics  
..... (DEM) - Real or Synthetic

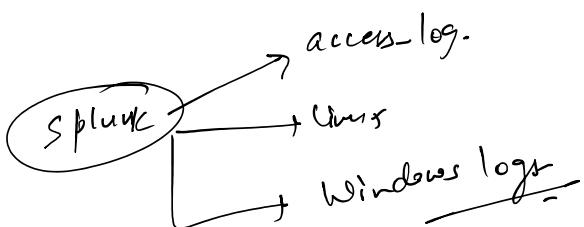
- ② Data Date Unit (DDU) - exp.
- ③ Digital experience monitoring (DEM) - Real or Synthetic
- ④ Application Security Monitoring (ASM)

Active → expired → Inactive → Deleted.

SPAR date get deleted after 60 days post expiration if not renewed.

## 2. Dynatrace Platform subscription (DPS) :- Modern model-

- ① Commit for minimum spend at the platform level, pay for actual usage - 1 year upto 3y ear
- ② Usage based model.
- ③ On-demand at the same cost after crossing annual commitment



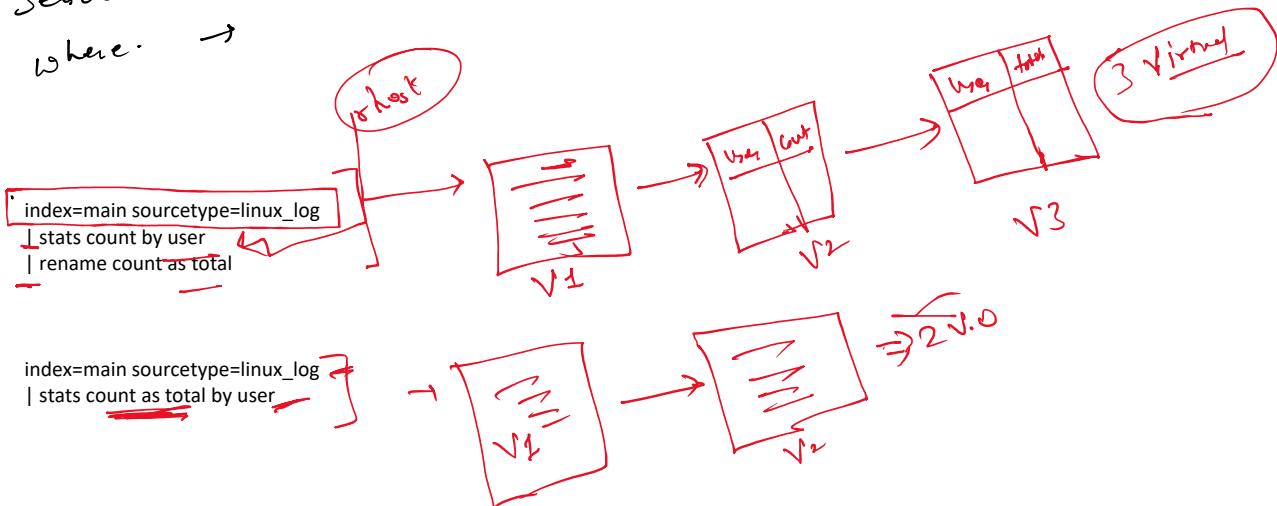
- ① Log ingestion → tabs & transforms, conf
- ② Event Breaking
- ③ Timestamp extraction

field name is core sensitive  
field value is core insensitive

Commands:-

- ① table → Tabular format.
- ② rename | New Name of field → Search level
  - tab sum(f1) as sum-f1
  - sum.
  - Values →
- ③ ... output → ① count → count the events
- ④ list → Categorise data on the basis of certain fields

- ① rename → Kewr  
 ② stats → Statistical output → 1 count → Count the event 2 sum  
 ③ avg → stab avg(f1) as avg-f1  
 ④ list → Categorise basis of certain fields  
 ⑤ eval → 1 calculation 2 if-else  
 ⑥ dedup → remove the duplicate values  
 ⑦ timechart →  
 ⑧ Search →  
 ⑨ where →



```

if - else:-           if (a > b)
if (a > b)           {   if (a > b, a, b)
{                   print(a);       ↓
}                   }   ↓
else {             true   false
print(b);           Condition.
}
        }
  
```

Dedup → Most recent data & ignore the older one.

Search  
where ] + filter purpose

filter  
Top

Search:-

1 to 20

... have two fields.

A	B
10	5
20	10
30	25
40	45
5	7

Search:-

search A > 20

A	T
30	
40	

Where it compares two fields.

5  
7

Where A > B

A	B
10	5
20	10