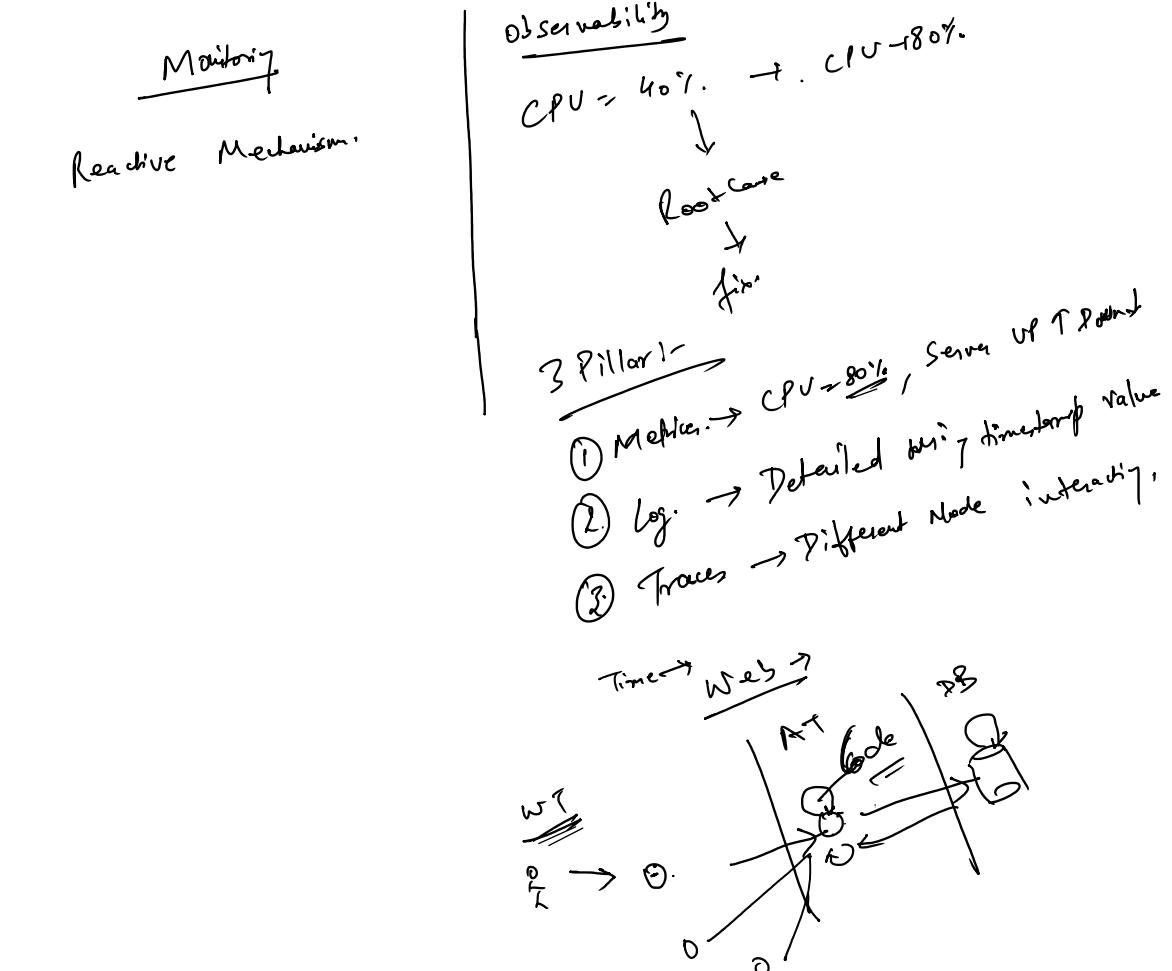


Monitoring

Reactive Mechanism



SLI vs SLO vs SLA

- - - L - V $M_{\text{empty}} = 8 \text{ g.}$, Disk-Full / Not Full

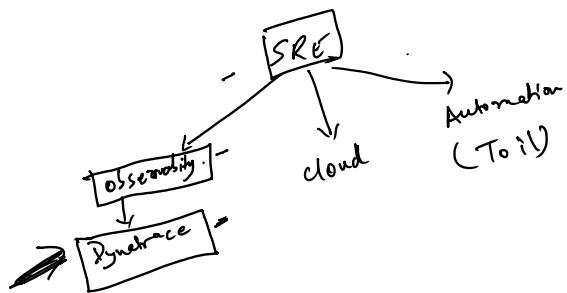
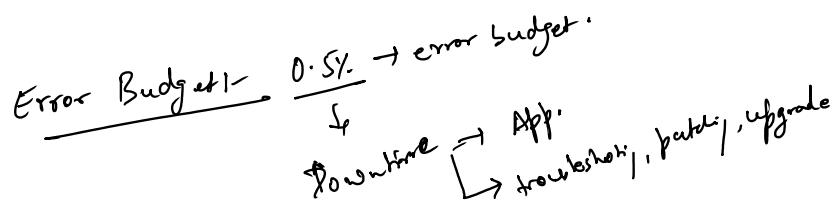
SLI vs SLO vs SLA

SLI - Service level indicator → CPU = 40%, Memory = 8GB, Disk-Full/NotFull

SLO - Service level objective - Team level standard. 99.5% → SLO

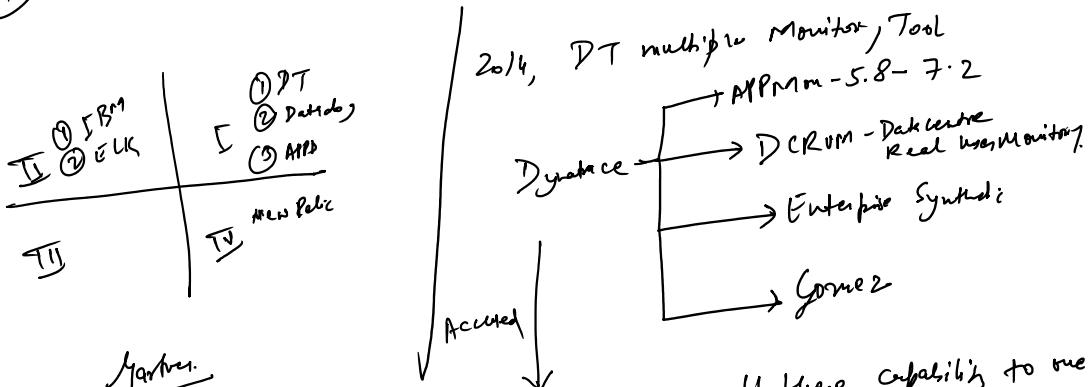
SLO - Service level objective - Team level standard. 99.5% → SLO

SLA - Service level agreement - b/w developer - fix/extra/penalty
↳ 99% SLA < SLO

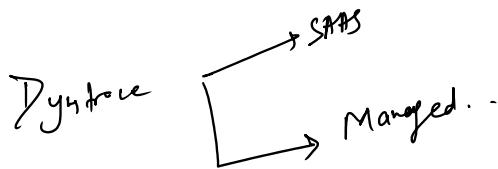


- ① Log Monitoring.
- ② Application Performance Monitoring (APM) → Real user monitoring → OS, latency, network, location
- ③ End user monitoring (EUM) → Synthetic monitoring → Hang/long.

- ④ Infra Monitoring → OS-Linux, Windows
- ⑤ Network Monitoring
- ⑥ Datacenter Visibility → MySQL, NoSQL
- ⑦ Container / cloud Monitoring → Docker, AWS, Azure.

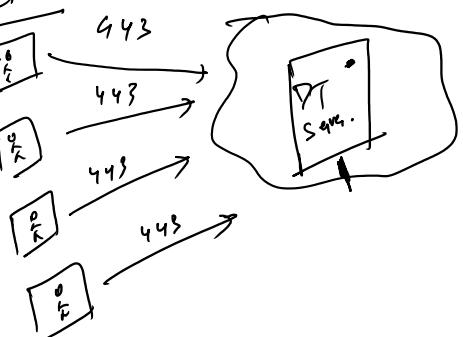


Rexit, combine all these capability to one tool, that is Dynatrace.



① SAPS Architecture

One Agent
extension to collect data.
OS Dependent.
Not depends on AM
target. Java / .Net

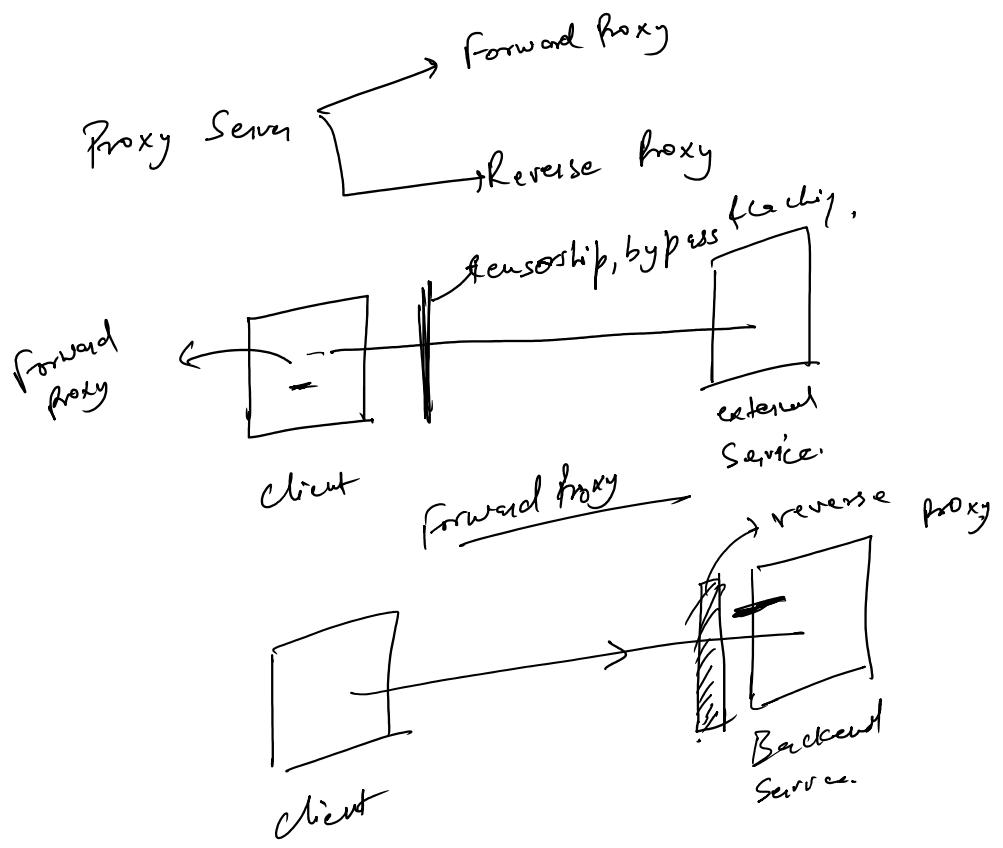


Allow run on the DT Server.

- ① Validate the license.
- ② Upgrade Availability
- ③ Health check of the Server.

DT Server Components

- ① Nginx → Reverse proxy server that analyze the data.
- ② Elastic search → Search engine where data is stored.
- ③ Cassandra Hypercube → Distributed database where data is stored.
- ④ DT Server → Collecting, Processing & Analyzing the data.



Client Service

⑤ Embedded Active gate:- light weight Agent that collect the local database DT.

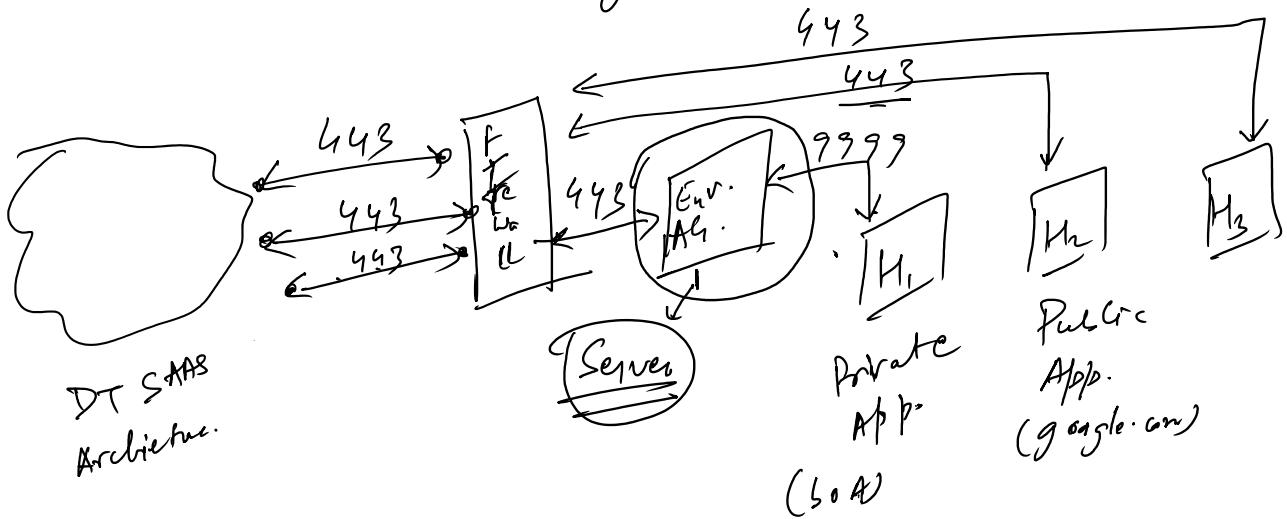
Environment Active gate

① Private Application.

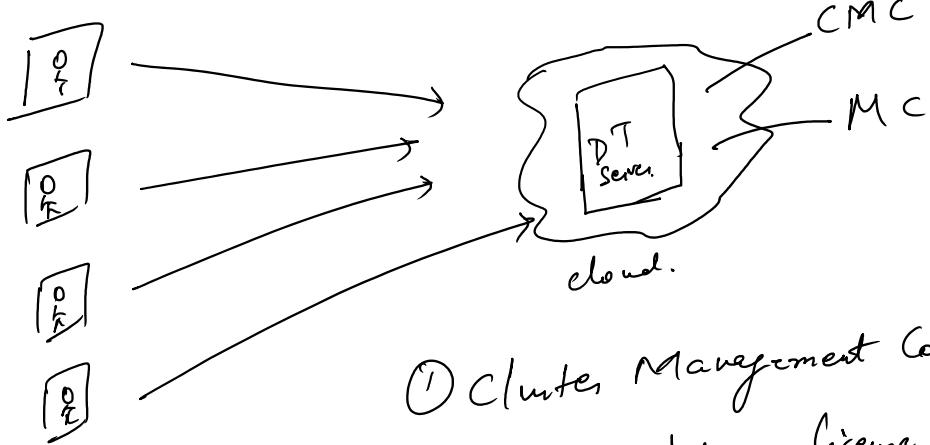
② cloud integration like AWS, Azure, GCP

③ App. has lots Memory dump, reg. Active gate.

④ Mainframe App. data need environment gateway.



Dynatrace Managed Architecture



① Cluster Management Console: - (CMC) :-

② Manage Validate License
Reboot.

17

- ② Manage Validate License Report.
- ③ Create any user / policy
- ④ Enable the Audit log.

Hardware Specification

- ① Micro - 5 Node - 1000 Per node - 4 CPU - 32 GB RAM
- ② Small - 300 Node - 10,000 - 8 CPU - 64 GB RAM
- ③ Medium - 600 Node - 25000 - 16 CPU - 128 GB
- ④ Large - 1000 Node - 50000 - 32 CPU - 256 GB
- ⑤ X Large - 250 Node - 100,000 - 64 CPU - 512 GB
- Managed → No Active gate - CMC
SaaS → Active gate - No CMC

* License in DT:-

① Unit Based Consumption

