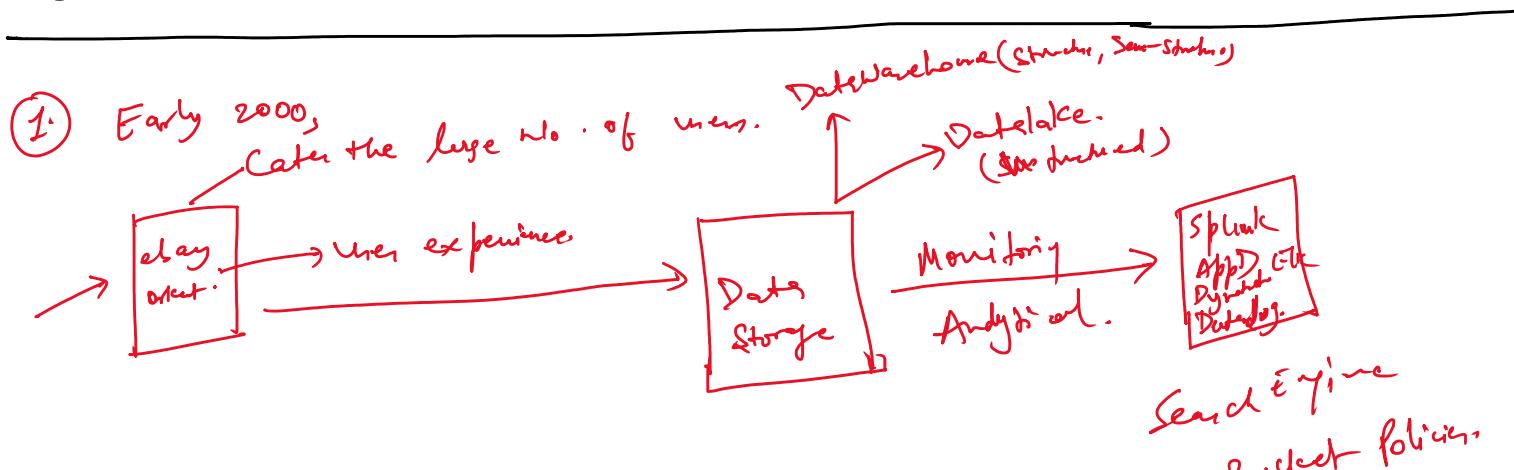


① ATM

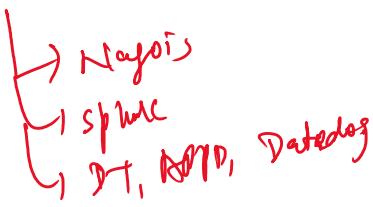
- ② Dynatrace.
- ③ History DT
- ④ Architecture of DT Server.
- ⑤ Server Component.
- ⑥ Environment Active gate.
- ⑦ Hardware specification
- ⑧ License in DT.



Monitoring

- ① Log monitoring → Splunk/ELK → DT, APP, DB.
 - Java
 - Net
 - HTTP
- ② Application before Monitoring,
- ③ EUM - End user Monitoring → RUM (Real user Monitoring)
- ④ Database visibility → SQL → NoSQL
- ⑤ Container Monitoring → Docker
- ⑥ Infrastructure monitoring → Linux/Windows
 - ↓ Nmap

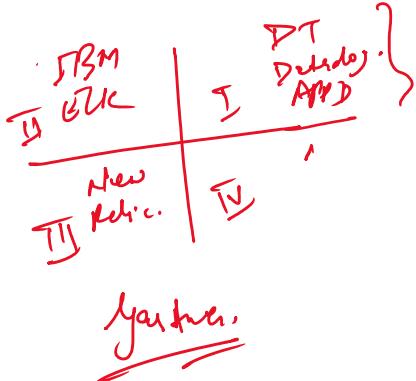
⑥ Infrastructure



Dynatrace

Apm, ATOps, Cloud Infra., DEM (Digital Experience Manager)

- ① Deep Transaction Tracing
- ② Synthetic Monitoring
- ③ Real User Monitoring



Gartner

2014, DT multiple monitoring Tool

APPMon - S.8

DT → DCRM - Datacentre Real user monitoring.

Enterprise Synthetic

PowerZ

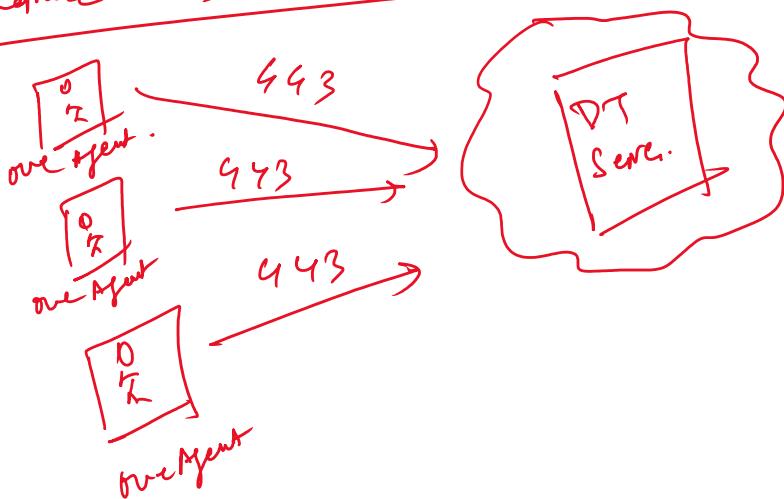
* DT acquired by Ruxit, combined all in one tool that

is Dynatrace.

→ SaaS (Infra.)

* Dynatrace → Managed (Infra., SaaS App)

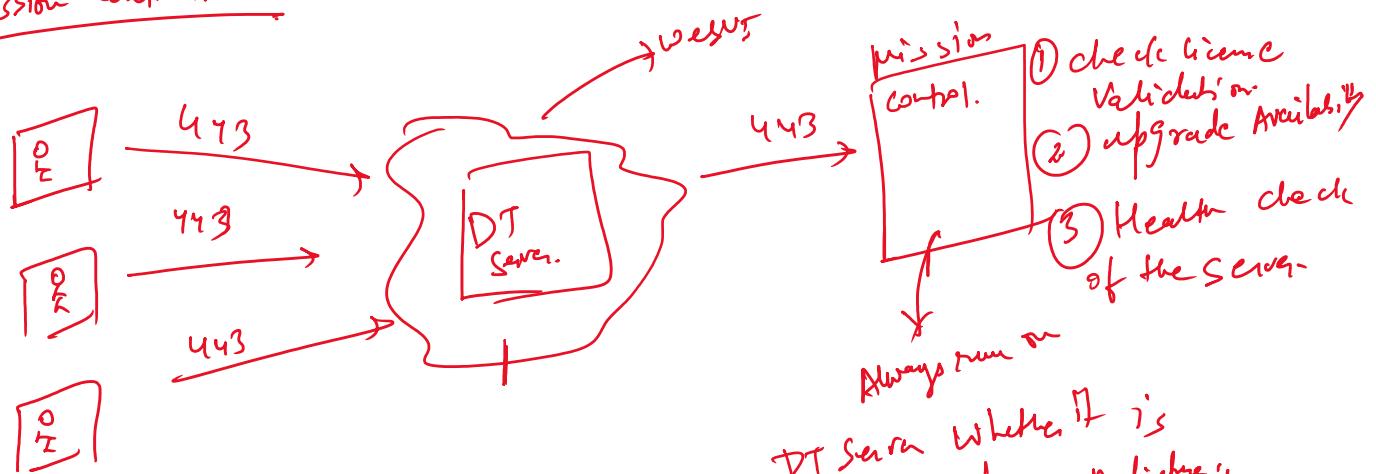
Dynatrace SaaS Architecture



① One Agent → Java .Net / Python / PHP

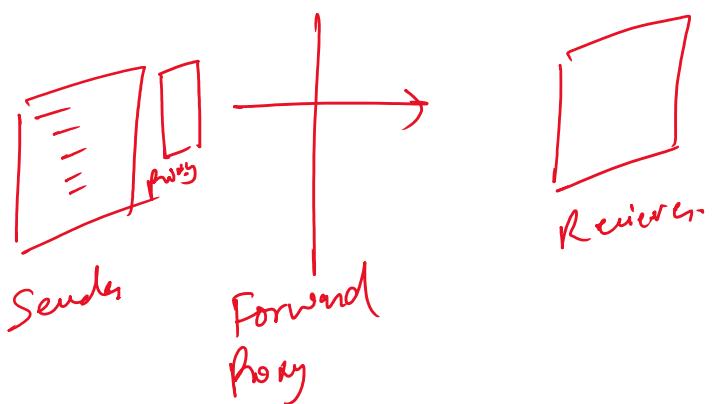
② O.S. → Linux / Windows

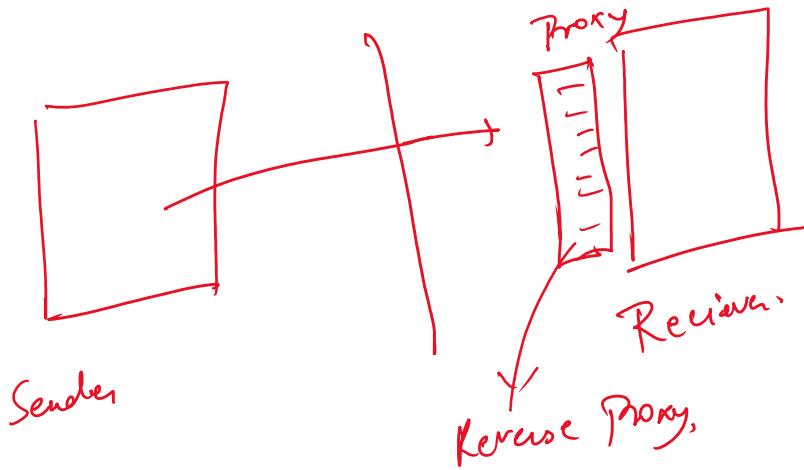
Mission Control:-



DT Server Components:-

- ① **nginx :- Proxy Server** ↗ Reverse Proxy Server.
 - ② **Elastic Search :- Analyze the data.**
 - ③ **Cassandra/Hypercube :- Distributed data base where data is stored.**
 - ④ **DT Server :- Collecting, processing, Analyzing the data.**
 - ⑤ **Embedded Active Gate :- Light weight Agent that collect the local data to DT.**
- Forward Proxy → Forward client req. to internet.
 Reverse Proxy → Accept req. from client.





Active Gate Additional Components comes in DT SaaS Env.

What? Why?

① Consolidation & compression of data.

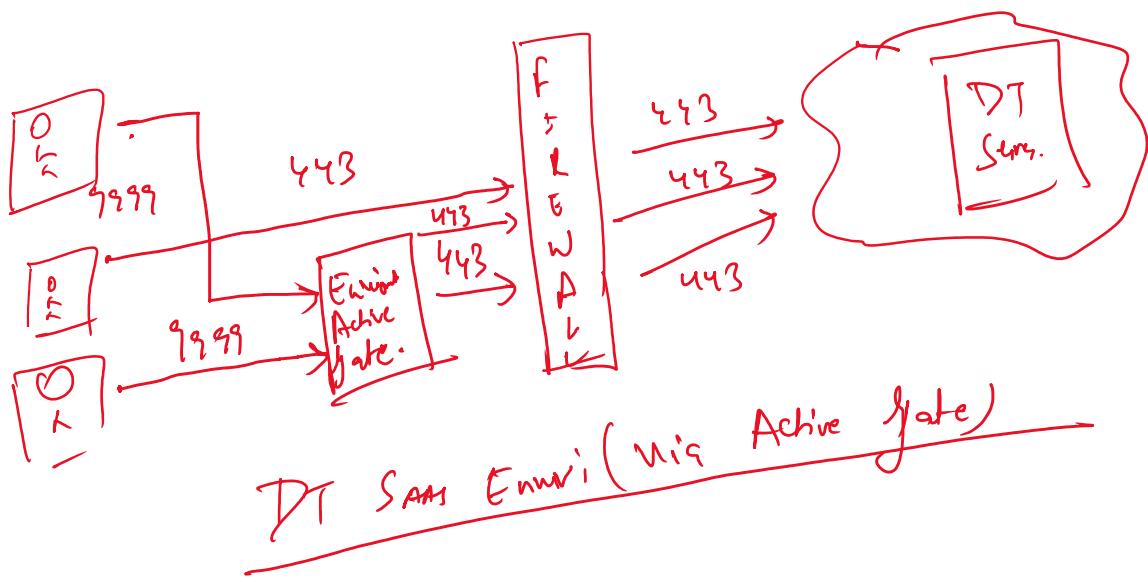
② Cloud Integration w/ AWS, Azure, GCP

③ Reporting Plugin.

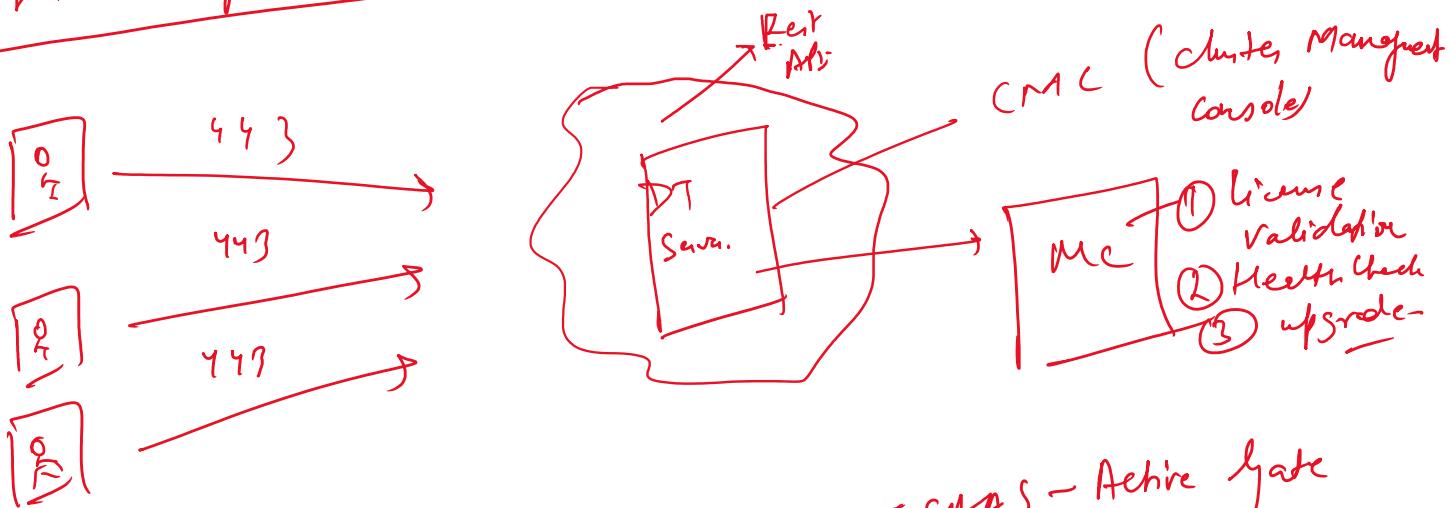
④ Memory dump, reg. Active Gate.

⑤ Private URL (Payment, Timesheet, login)

⑥ Mainframe App. data need env. gate.



DT Managed Architecture

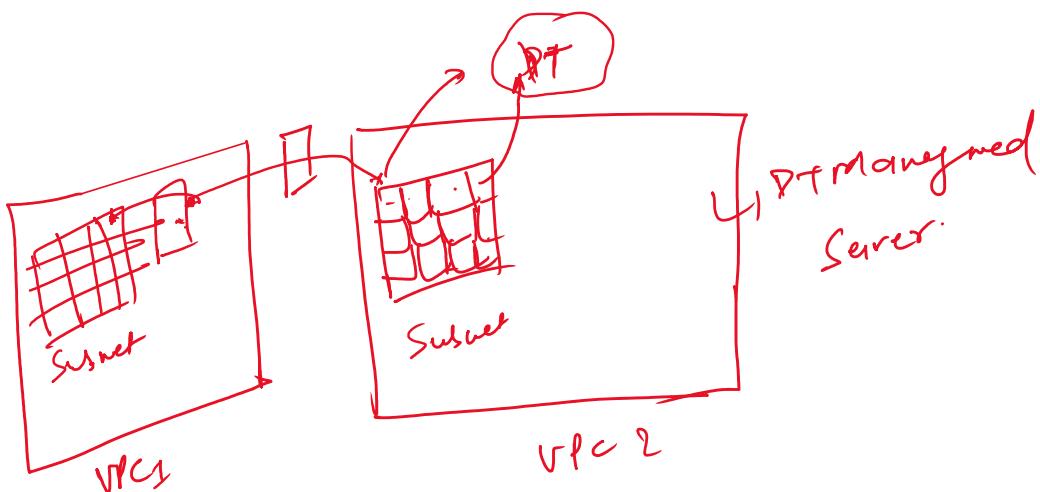
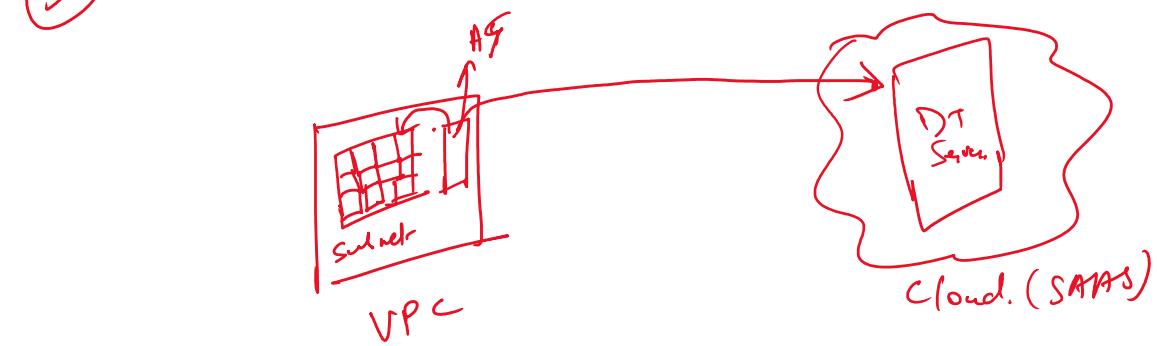


CMC (Cluster Management Console)

- ① Manage / Validate license Report.
- ② Create user / Policy.
- ③ Enable the Audit logs.

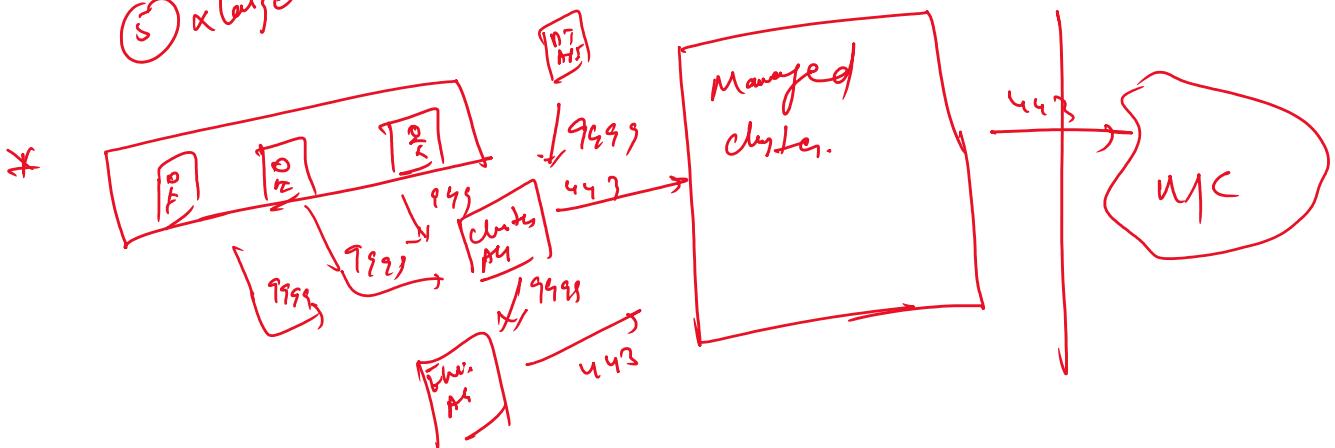
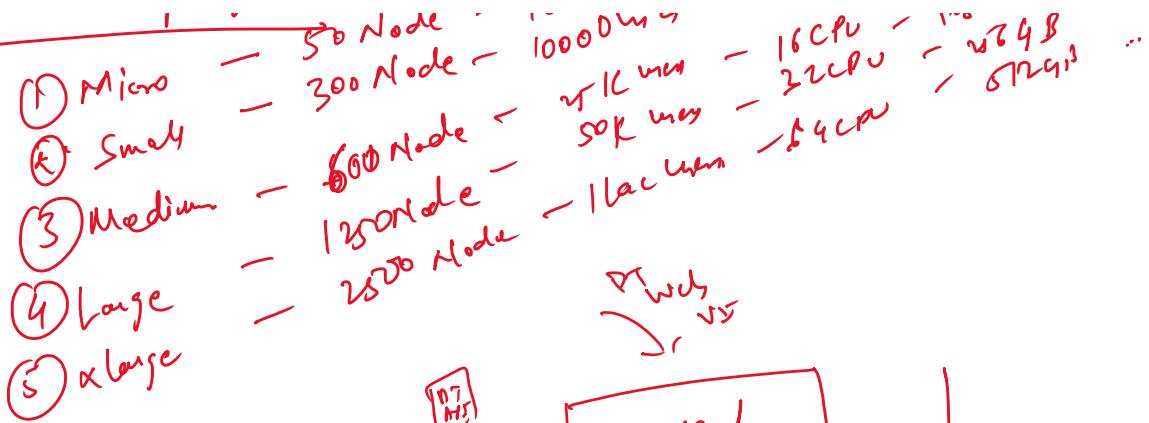
DT SaaS - Active gate

DT Managed - CMC
(Cluster Management Console)



Hardware Specification

M Micro	- 50 Node	- 1000 User	- 4 CPU	- 32GB Ram
	- 300 Node	- 1000 User	- 8 CPU	- 64GB Ram
		- 16 CPU	- 128GB Ram	
		- 32 CPU	- 256GB Ram	
			- 64 CPU	



* License in DT :- Consumption-based licensing Model

HU (Host Unit)
 (Bredon Host RAM)
 (CPU monitored by one agent).
 [Impact of full stack monitoring]
 $1\text{ MV} = 16\text{ GB RAM or } 16\text{ Vcores}$

DDU (Data Unit)
 (Sug. Data Unit)
 (Sug. Log, metric, trace events)
 (uniform metric log injection), AVG data traces
 $\text{DDU} = 0.002 \text{ PVS}$
 $1\text{ KB} = 0.1\text{ PVS}$
 $\text{Trace Pvs} = 0.5 - 2.0\text{ PVS}$
 $\text{Event} = 0.1 \text{ DDU}$

