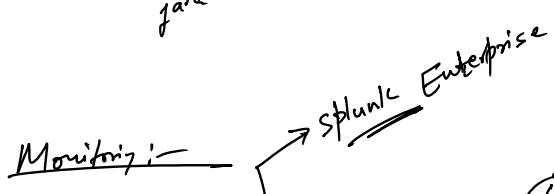
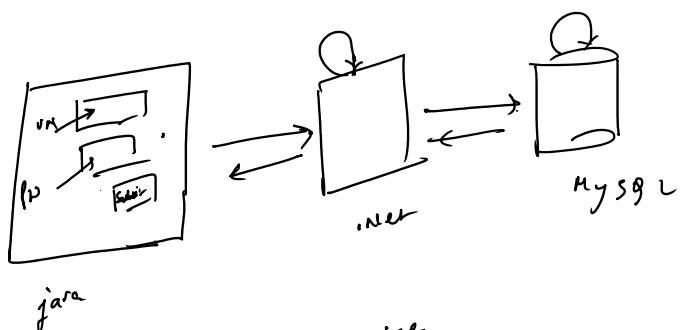


① AI Powered Root Cause Analysis (RCA):

- ① Davis AI :- Automate real time root cause detection.
- ② Davis Drastically reduce alert noise with precision.
- ③ Smart cache auto discov real-time topology.



- ① Log Monitoring
- ② Infrastructure Monitoring
- ③ APM
- ④ EUM
- ⑤ Database Monitoring
- ⑥ Container Monitoring
- ⑦ Network Monitoring

SaaS - Amazon, Flipkart, Facebook] ✓ Dynatrace
 Managed - Managing infra + App.

Datadog] → SaaS
new relic

Dynatrace Purepath

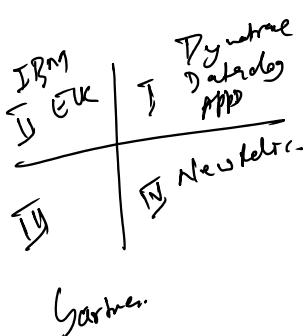
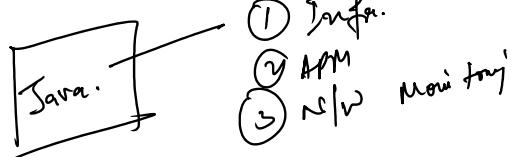
Core tracking behind the end-to-end transaction flow, enabling developer & SRE to understand the exact happened during every req; across every tier of the stack.

Purepath → trace ID

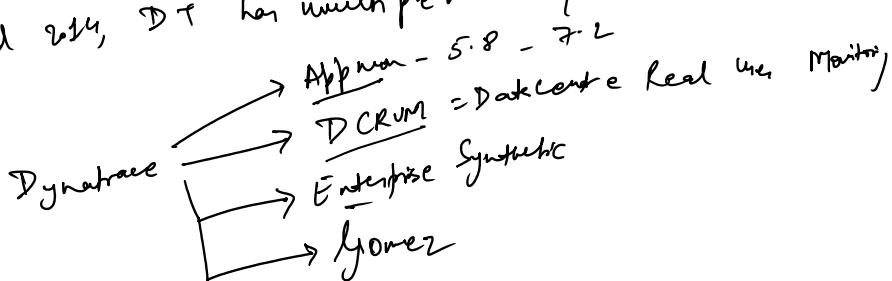
- ① Method level execution details
- ② Traces every req. from user interaction to database query
- ③ Correlates with logs, metrics, & tracing data.
- ④ Identifies latency hotspots, failure & exception.

* Dynatrace APM, AJOPs, Cloud Infrastructure Monitoring, DEM (Digital Experience Management).

- ① Deep transaction tracing
- ② Synthetic monitoring
- ③ Real User Monitoring



* Around 2014, DT has multiple monitoring Tool



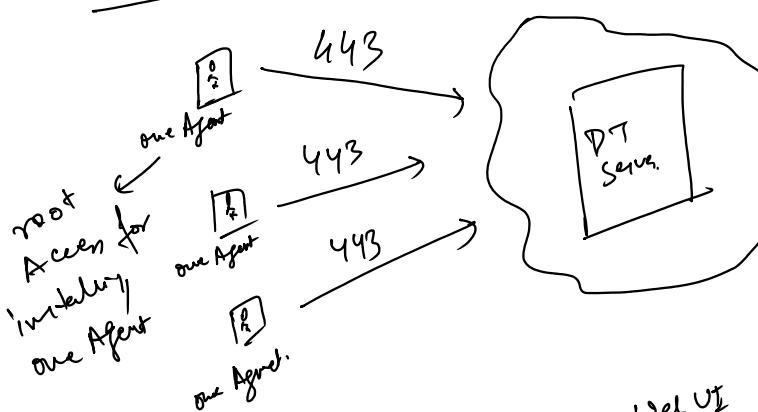
B/H - Server Virtualization

→ Transaction occurred Ruxit, combined all tools into one tool →

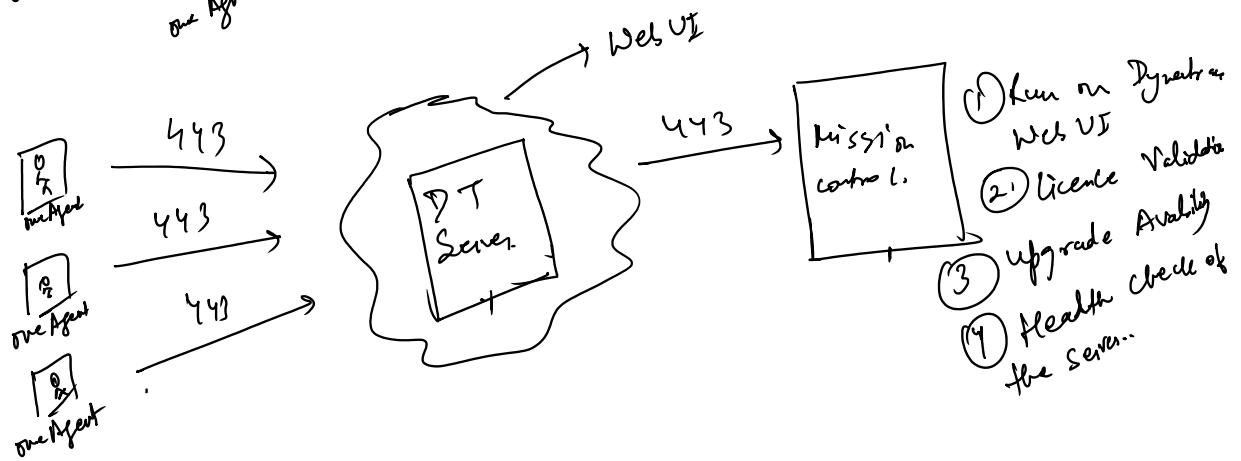
- * Dynatrace acquired Ruxit, combined all tools into the ~~Dynatrace~~ is Dynatrace.

- * Two flavors
 - SaaS
 - managed.

SaaS Architecture



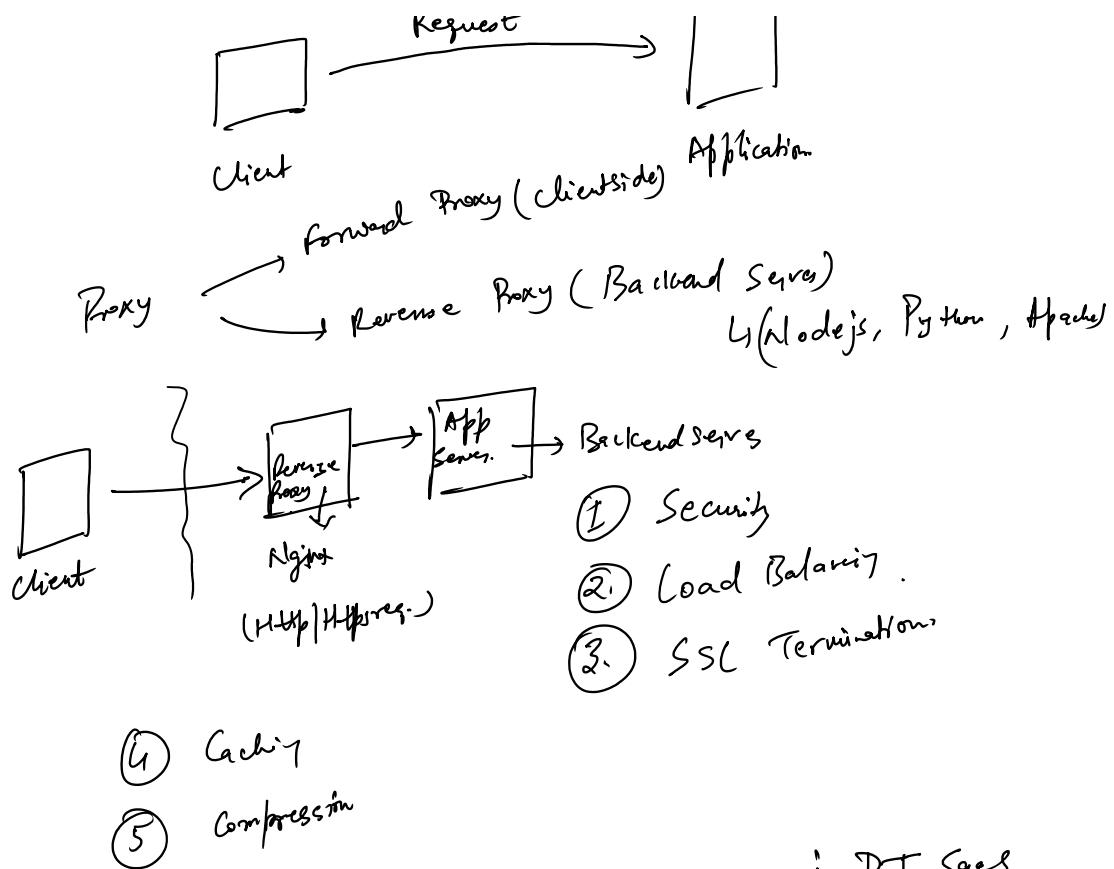
One Agent :- Depends on Os.
It will pick App from any language.
It is Os Dependent
not application.



DT Server Component

- ① Nginx - Reverse Proxy Server.
- ② Elastic Search - Engine that Analyze your Data.
- ③ Cassandra Hypercube - Store Data for the Distributed Database.
- ④ DT Service - Collection, Processing & Analyzing the data.
- ⑤ Embedded Active gate - light weight Agent that collect the local data to DT Server
 - ↳ Bundle
 - ↳ Count with one Agent



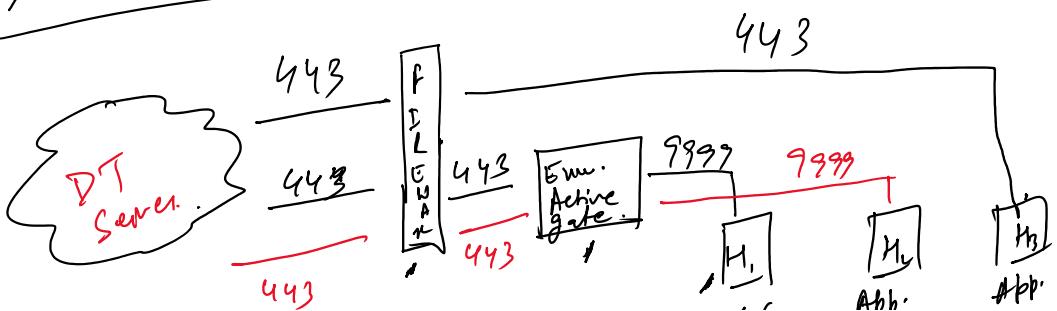


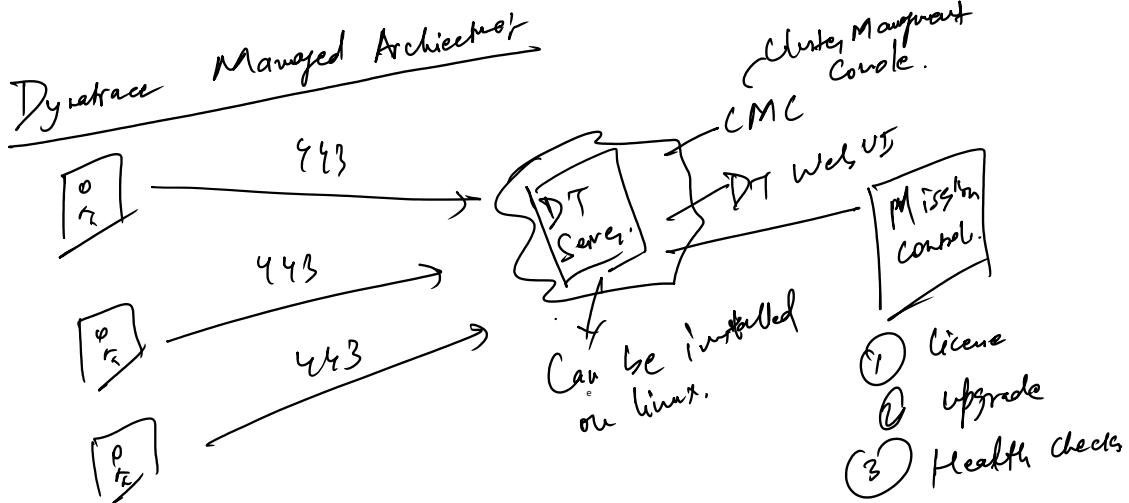
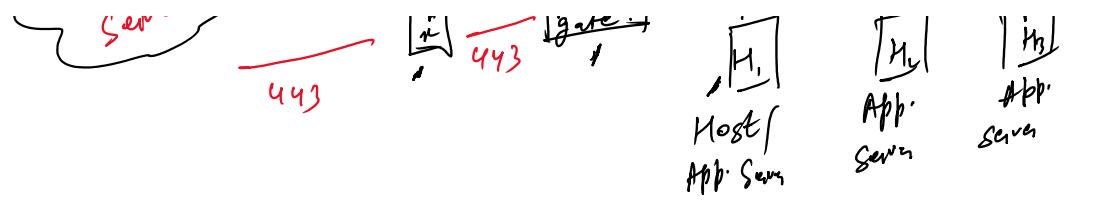
Environment Active Gate → Additional Component Comes in DT SaaS
environment.

Why? What?

- (1) Consolidation & compression of data from diff sources to DT Server
- (2) cloud integration with AWS, Azure, GCP need Active Gate
- (3) Plugin req.
- (4) Access Private URL (that is not Access Publicly), require active gate to setup synthetic monitoring
- (5) Mainframe App data need environment gateway.

Dynatrace SaaS Architecture





* CMC - Cluster Management Console

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

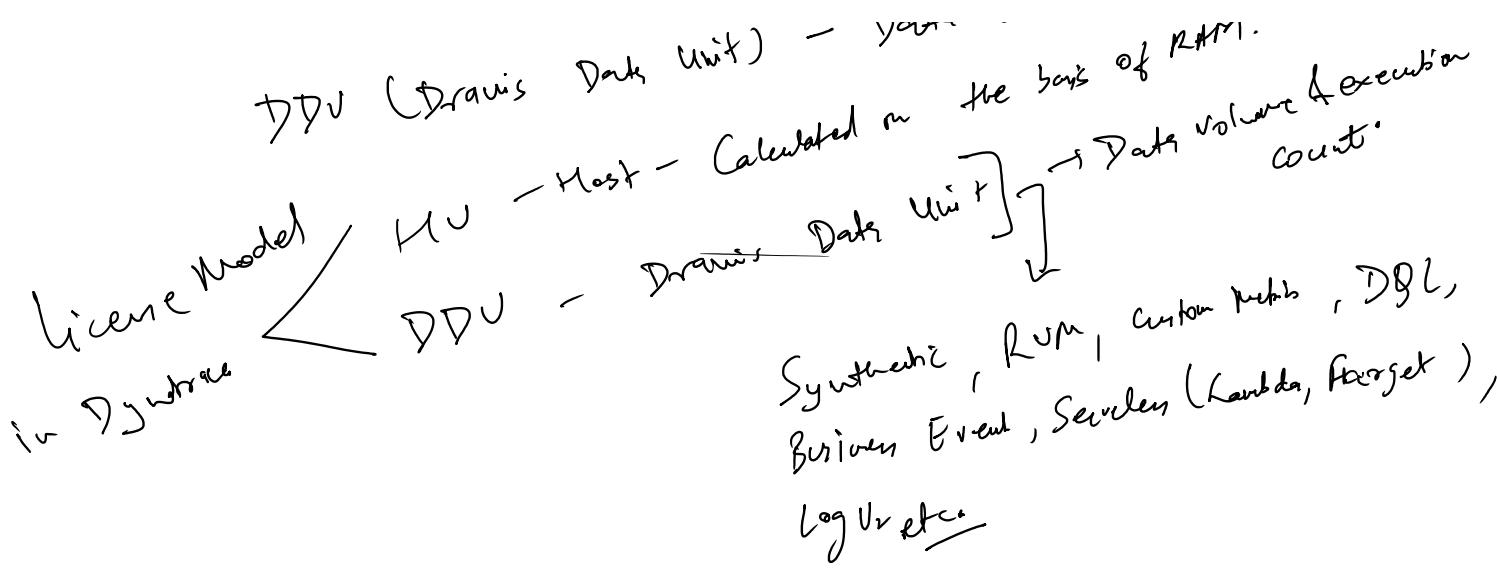
* License in Dynatrace

① Unit Based Calculation for consumption based.

- Dynatrace Capabilities
- ① Host Monitoring
 - ② Container Monitoring
 - ③ Digital Experience
 - ④ Application Security
 - ⑤ Log management & Analytics (powered by Graylog)
 - ⑥ Traces
 - ⑦ Metrics

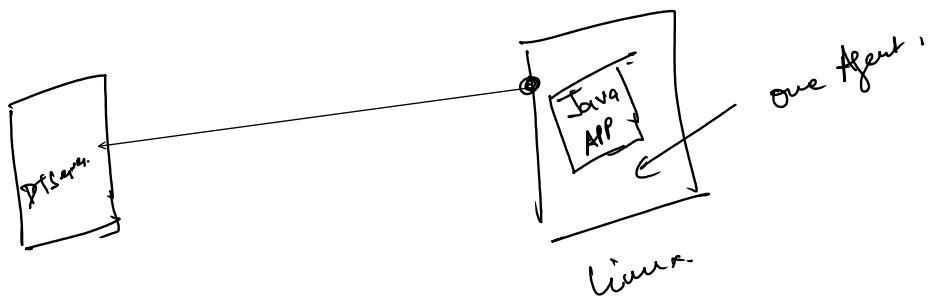
Full stack monitoring - 1 MU = 16 GB of RAM a host
 $32 \text{ GB host} \cdot 1 \text{ MU} = 2 \text{ Host unit hours}$

DDU (Dynamic Data Unit) - Data Volume based features.
 ... the basis of RUM.
 ... trace & execution



Benefits:-

- ① Pay for what you use.
- ② Modular - enable only the features you need.
- ③ Elastic Pricing - great for cloud & contains workload transparent usage metrics - Implement license usage dashboard & APM.
- ④ One Agent



SLI - Service level indicator

SLO - Service level objective

SLA - Service level Agreement

Metrics | Boolean

Server down | Trends to root;
upgrade | patching

