

XHR - XML HTTP Request  
Browse API that allow web page to make  
HTTP req. to a server asynchronously  
w/o loading the whole page

Key Uses of XHR:-

- ① Submit form w/o full page reload.
- ② Poll server for real-time update.
- ③ Fetch data dynamically (e.g. load content, search suggestions).

Key Use Action:- Bookmarks / identify the important use action.

JMP (Interaction to Next Paint):-

Web Performance Metrics, Responsiveness of the Page

Measure the latency b/w a user action (like clicking, tapping, typing) & Next visual update (Paint) on the screen.

Score	the Experience
$\leq 200ms$	- Good
$200-500ms$	- Needs Improvement
$> 500ms$	- Poor

Ex:- click, taps or type

- Browser took to visual respond
- logs the result.

User Responsiveness (JMP)

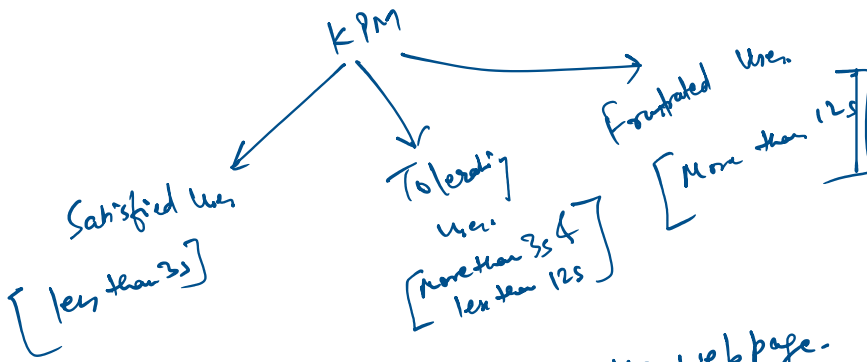
Apdex Ratio:- For a transaction in Dynatrace, based on performance threshold set. DT do the rating on the Basis of Problem Occured. ex - Page load, Image load.

$0 - 0.5$ + Unacceptable	$0.85 - 0.94$ → Good
$0.5 - 0.7$ → Poor	$0.94 - 1.0$ → Excellent
$0.7 - 1.0$ → Fair	

0.5 - 0.7 → Poor  
0.7 - 0.85 → Fair

0.94 - 1.0 → Excellent

Key Performance Metrics Calculate on the basis of how much time it will take to open/load the page.



Injection - Code snippets on the top of the web page.

Injection → Manual → Add the snippet on the top of web page

Injection → Automatic → Automatically added the snippets

- ① Infra.
- ② ALM
- ③ KPM

## Synthetic Monitoring

Simulate the user interaction

- API -
- ① Availability
  - ② Performance.
  - ③ Functionality monitored feature.

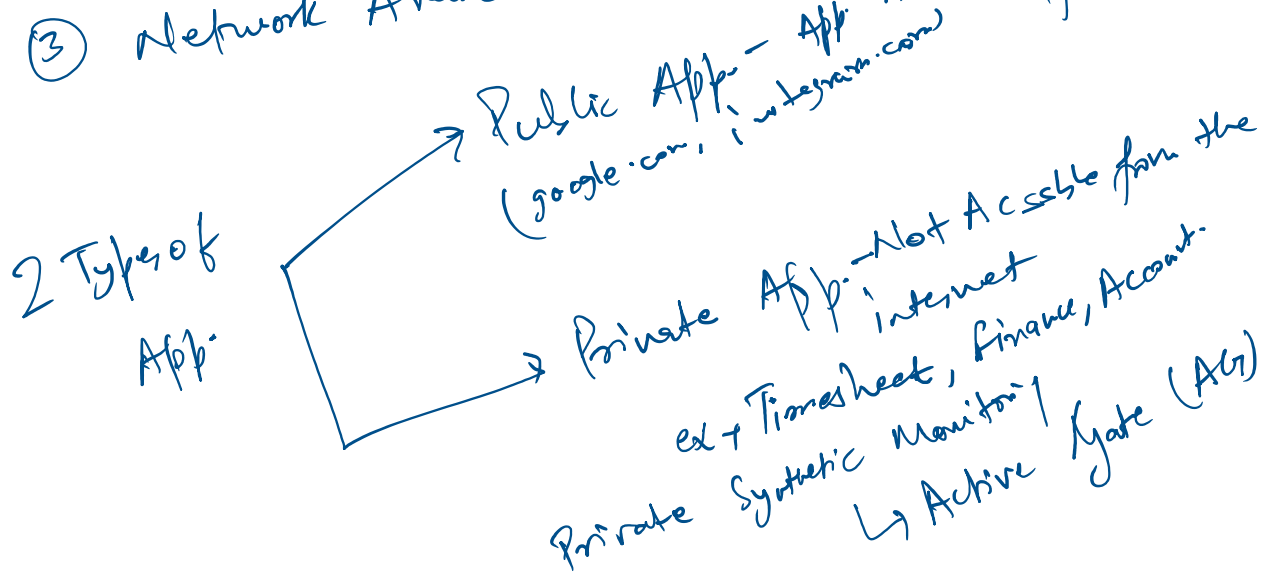
- ① Get - Fetching the data.
- ② Post - Insert the data.
- ③ Put - Modification of data.
- ④ Delete - Delete the configuration.
- ⑤ Patch - Partially update the resource.

With the URL to get the data in json, whether it is or not ... user impact.

① HTTP - Hit the URL or not 4xx

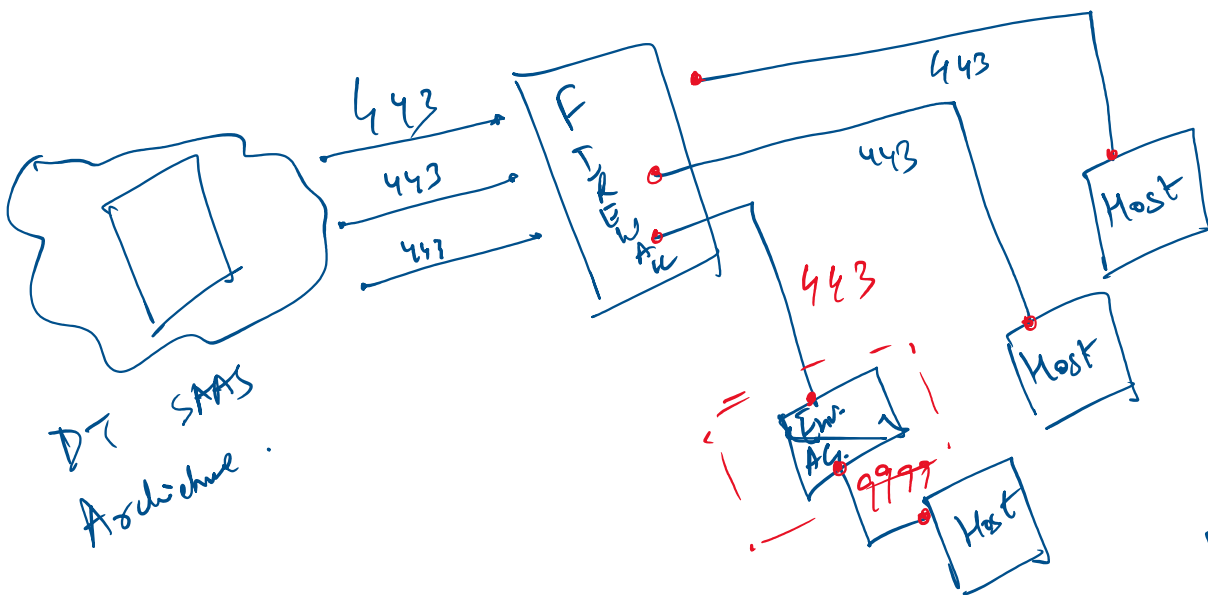
② Browser Monitoring - Simulate the user impact.

③ Network Availability - M/W - Ping, ICMP



Uses of Active Gate (AG) :-

- ① Used to Monitor the Private IP Address
- ② Monitor the cloud Application (AWS, Azure or GCP)



Environment zone

Location of

Infra.  
ARM  
LVM  
Synthetic

## Management zone

- ① Segregate the view on the basis of filters

LVM  
Synthetic