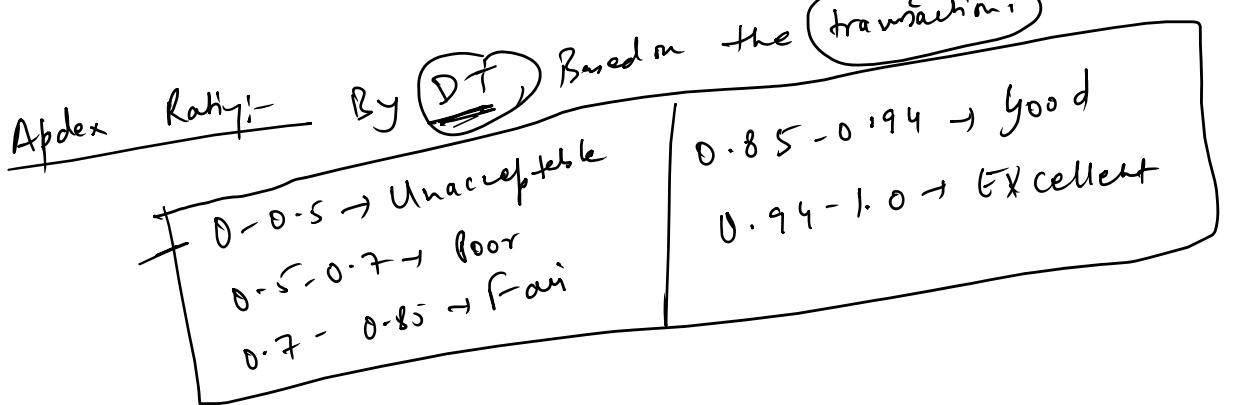
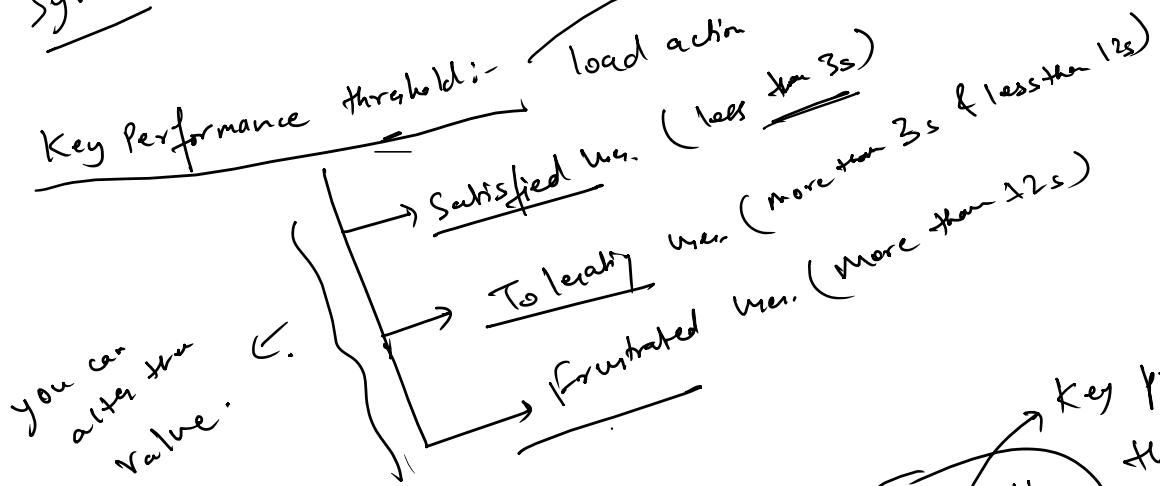


RUM - Real User Monitoring.

↳ real user hit your app that is called real user monitoring
Synthetic - Bot → hit your application.



Bounce Rate

Single page session $\times 100$

Total session

1000 people visit your site, 400 leave after viewing just one page.

$$BR = \frac{400}{1000} \times 100 = 40\%$$

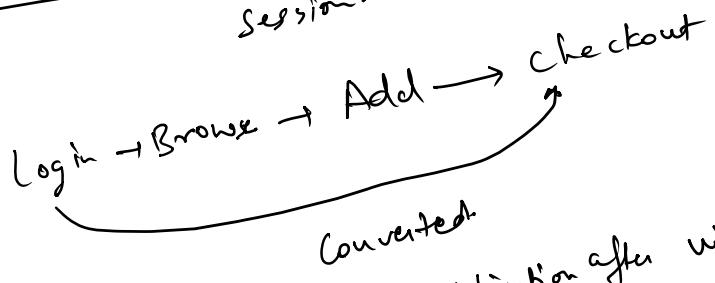
$BR \uparrow \rightarrow$ Expected poor experience.

$BR \downarrow \rightarrow$ Visitor is enjoy with your site.

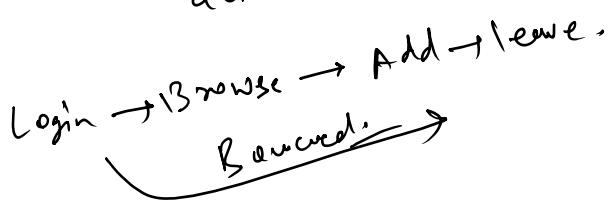
Blog & New Article \rightarrow 65-90%
 ... more \rightarrow 20-40%

Blog & New Article → 0%
 Retail & e-commerce → 20 - 40%
 Banking → 60 - 90%
 Service Site → 30 - 55%

① Converted Session — User complete the defined goal within a session.



② Bounced session — User leave the application after viewing only one page
 action without meaningful impact.



Beacon Endpoint — URL or API endpoint
 Send the captured data (beacon) about user session.

Beacon - Small payload of data with metrics like page load,
 event, user actions etc.

Sent from user browser/mobile app

① User visit API

② Data Captured

③ Processing

Time to first Byte (TTFB) →



... → Receiving the first bytes to the response

Time to first byte

B/W Browser request — Recieve the first bytes to the response from the server.

How quickly server respond to a request?

$$TTFB = \left(\text{Network latency} + \text{Server processing time} + \text{Response start} \right)$$

< 200ms - Good

200-500 - Need Improvement

> 500ms - Poor

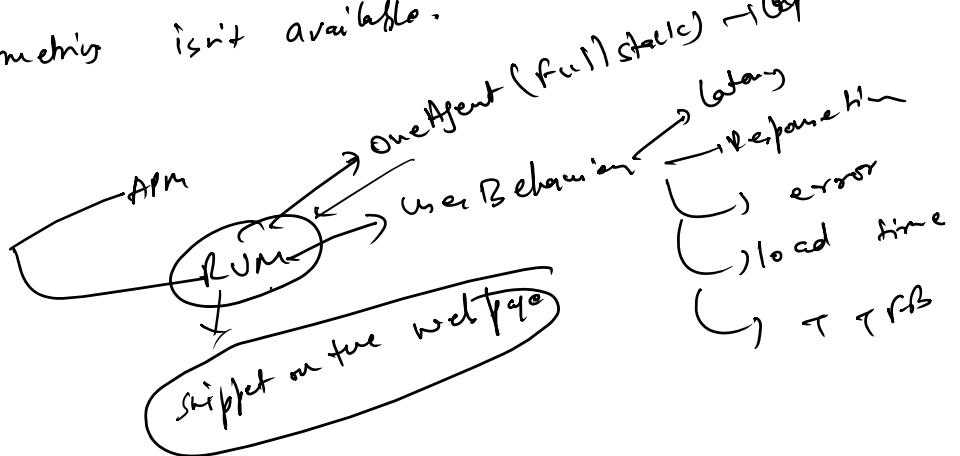
→ many H.d.
Apdex (App. Performance Index)
→ Response time

→ App. Health & performance.

(1) Key performance threshold - evaluate App. Health & performance

(2) Fallback metrics threshold - primary metric can't be calculated
↳ 2. lack of data or low traffic or lack of Apdex config.

Backup rule for judging app. health when main metric isn't available.



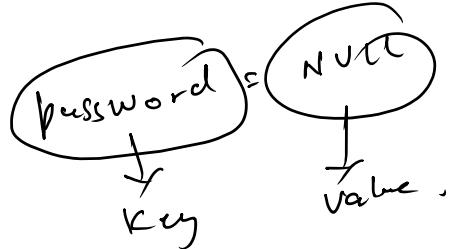
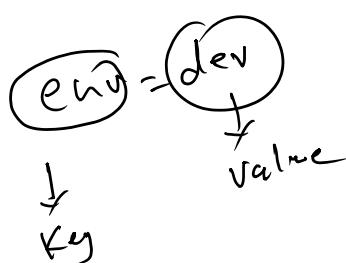
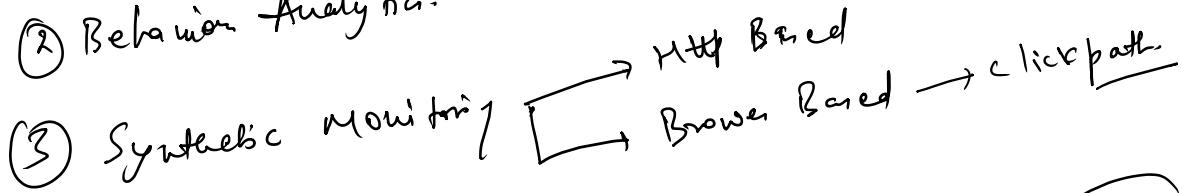
Next:-

(1) Error

(2) Behavior Analysis

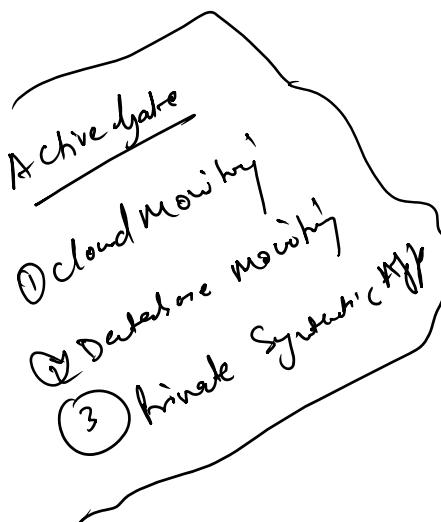
→ HTTP Based → Click Path

② Behavior Analysis



Get - fetch.
Put - ~~push~~ modify
Post - push
Patch - extract

Cloud Monitoring



- ① Install the Active gate.
- ② Agentless method - generate unique token on DT end.
- ③ Rule (yaml) + Role + Group + Policy → AWS code
- ④ AWS Stack (cloud formation)
- ⑤ DT → Custom Token
- ⑥ Integrations - Set of permission.

① Dynatrace Component / Architecture

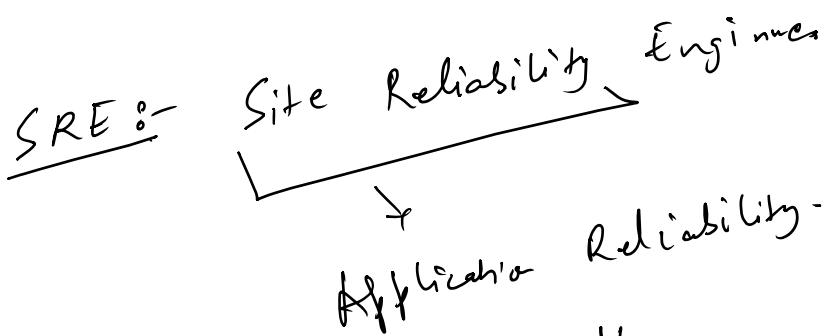
- ② Infra.
- ③ APM
- ⑦ RUM

⑥ Cloud Monitoring

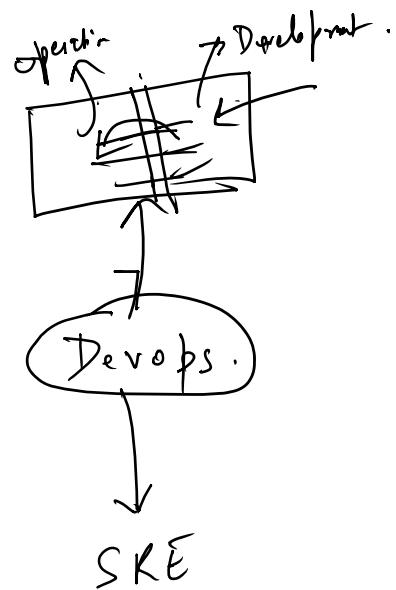
- (4) Run
- (5) Synthetic

Tomorrow:

- (1) SLO (Service level objective)
- (2) Management zone.
- (3) Network zone.
- (4) Application zone.



- (1) Scalable
- (2) Flexible
- (3) Robust



- 99.9% → SLI - Memory > 40% → Normal, 25min
- 99.9% → SLO - object inside my team → two party.
- 99.8% → SCA - Agreement b/w P1, BOA, 3min
- $SLO < SCA$

$(100 - 99.9\%) = 0.1\% \rightarrow \text{Error Budget}$

In a month, we effort the drop in the app's issue until service is down.

- (1) upgrade
- (2) patching
- (3) experiment

✓ PII
your services

✓ Other

To: → Reflective Activity.