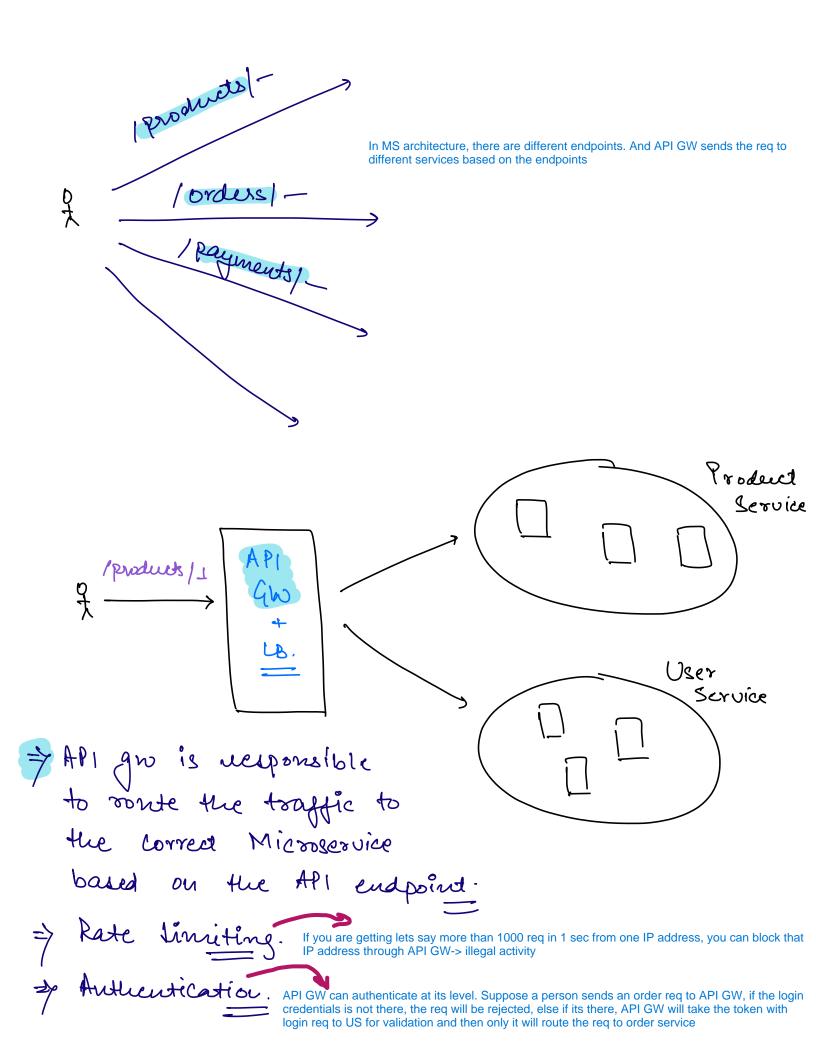
-> API Gateway
-> load balancer. PS, US, PytS will run on different instances/machines/servers aing & Monitoring When a user makes a Get Req -> it goes to the PS Authentication or Validation of User login credentials. different servers Product So when S4 is talking to S5 to validate the token, will you hardcode the URL/IP here? No, if S4 is always making a call to S5, S5 may go down coz of too much traffic. lervice. So ideally whatever req is coming from PS, may go to any of these servers S5, S6, S7 through @Loadbalancer annotation Through the introduction of SD, you can know which IP address of Servers are there Sz is in US @ loadbalanced API GW makes a reg to S3 PS through @RESTTEMPLATI /products/1 library Jal idation User Service Server side LoadBalancino C_{7}

Here PS will connect with SD to get IP addresses of all servers of US and then with @Loadbalancer annotation, PS will send GET request to any of the servers in US in a balanced way. Since PS is a client who is sending req to US -> so this is client side LB

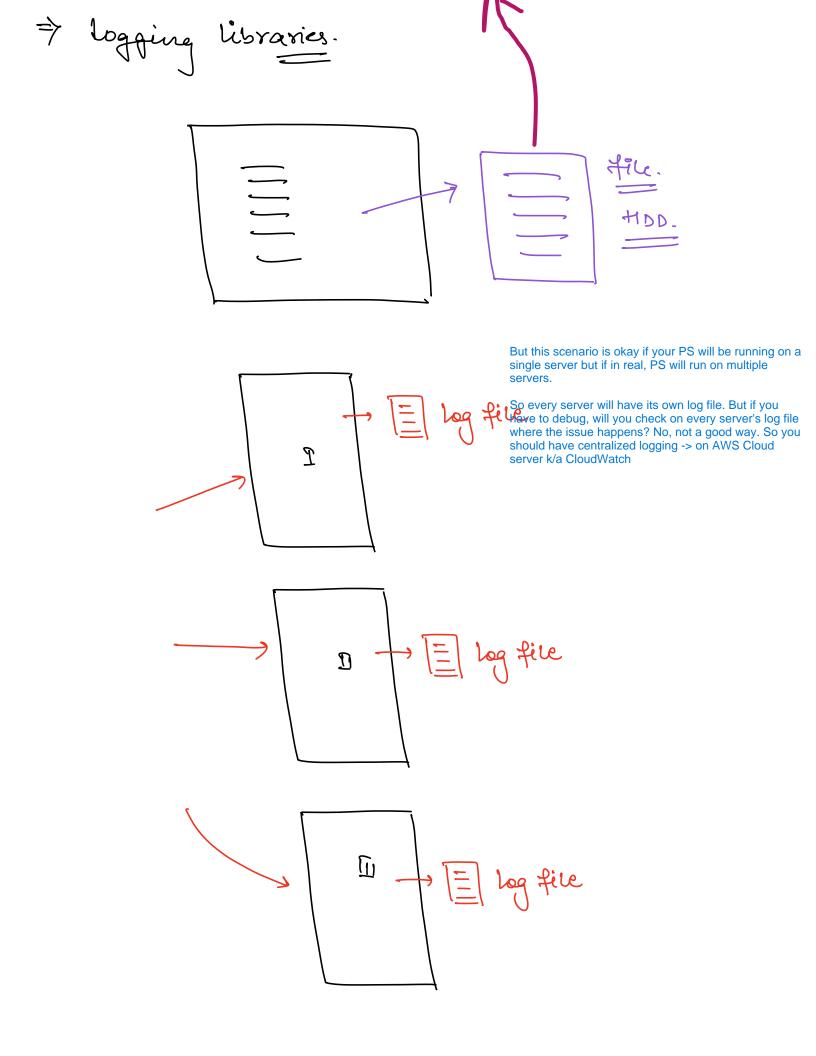
-> Client Side bond balancing.

When API GW sends req -> it is Server side LB

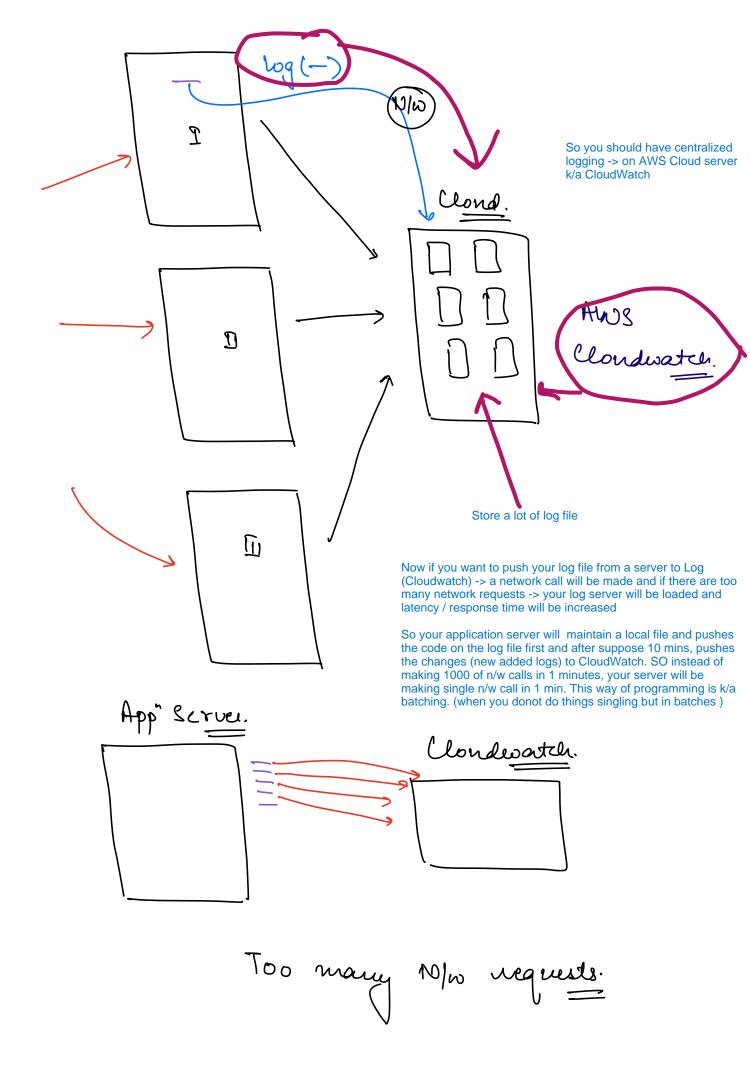


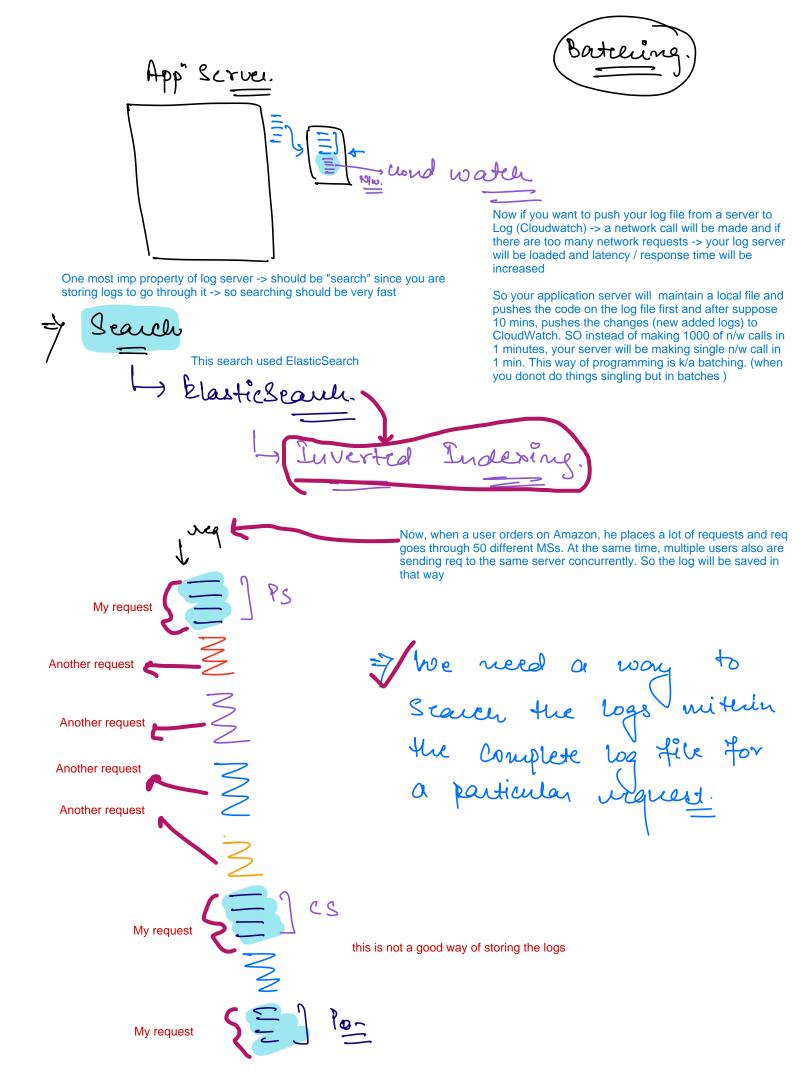
logging & Monitoring	
L0441NG.	
SignUp (String email, String Passmord)? You should give some kind of print statement which will reflect in the logs so that this use does some malicious activity on the a/c lets say in scaler, you could track when the user this mail id, the a/c was created, and all of the activities can bee seen in the logs. should print ("User mith cervail:" + "Signed Up")	with
<u></u>	
Change Class Dance (long classed, String name) (Print ("User mith Id: —" is — ");	
Print ("User mith Id: —" Log are used for.);
→ Auditing → Pelongaing.	

But the print statement gets printed in the console, so if in production you restart the application, you cannot see the older lines on the console. Thats why in production, you use some kind of logging libraries, so instead of print(write log) and all of this log statements will get accumulated in a file which gets stored in the hard disk of your server

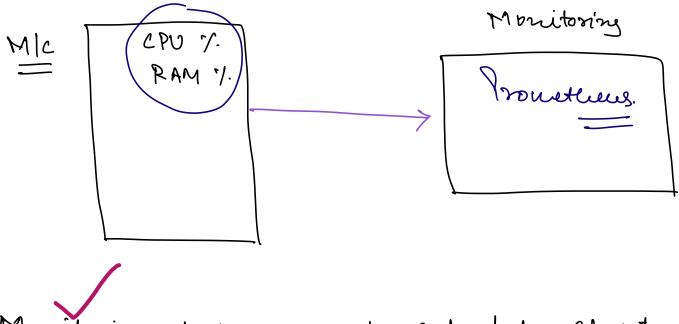


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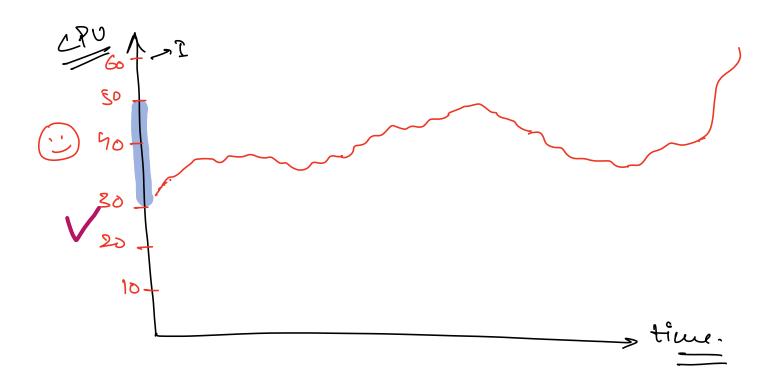


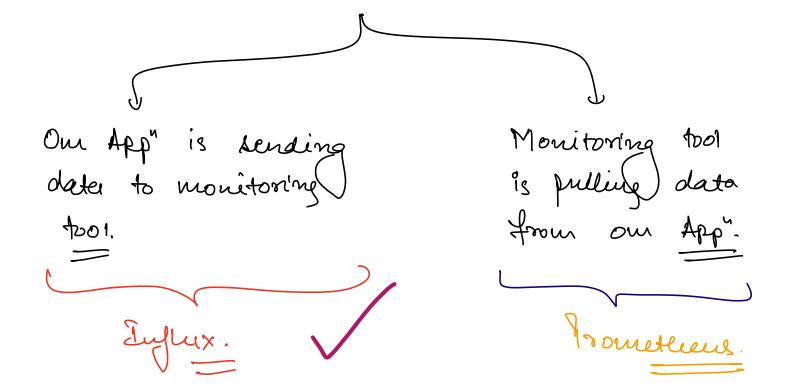


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will create	a uniqu	ue Id, let	s say a re	eqID nov	w when th	ne PS will	call the (Cart Servi	ice, it wil	I send th	ne unique	ID and w	hen card	Service will	
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Monitoring tool needs to get data about different metrices (CPU/RAM. --) from om server.





Add Spring Boot Starter Actuator dependency in Maven and run the PS file

Go to "localhost:3030/actuator/metrics/system.cpu.usage" for seeing the cpu usage

For Monitoring you have the below libraries:-

- 1. Prometheus
- 2. New Relic

For Tracing logs:-

- 1. CLoudWatch
- 2. LogDNA
- a log management tool that helps users track, debug, and troubleshoot applications