

Spring1Demo Script : Distributed Tracing

Navigate to Distributed Tracing Space. You should see 5 apps there namely :

acme-financial-ui

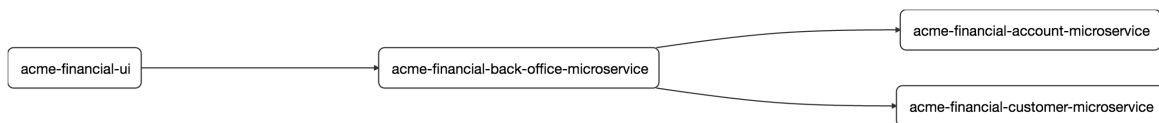
acme-financial-back-office-microservice

acme-financial-account-microservice

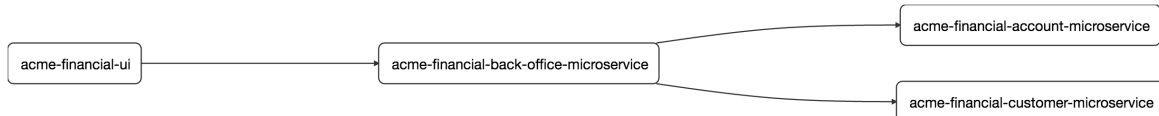
acme-financial-customer-microservice

Zipkin

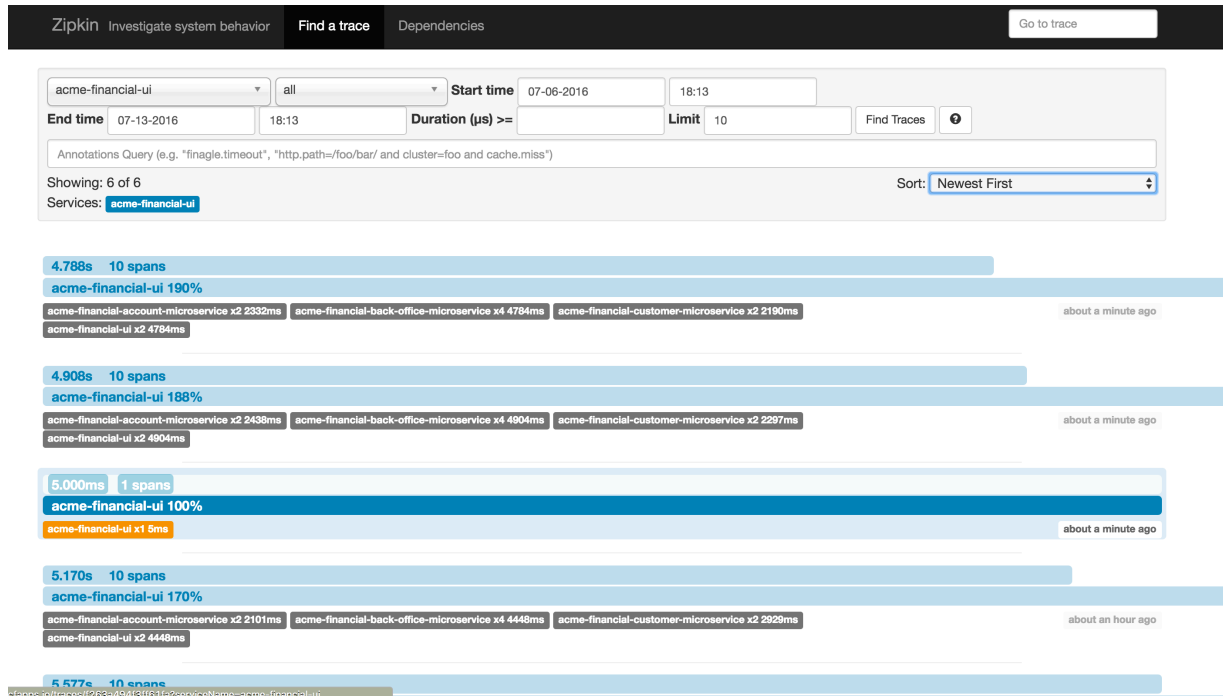
App Structure:



1. Show the project structure to the users. Explain acme-financial-ui calls acme-financial-back-office-microservice, which in turn calls acme-financial-account-microservice and acme-financial-customer-microservice.
2. Navigate to acme-financial-ui
3. Add “/start” to the url. Example : <http://acme-financial-ui-1.cfapps.io/start>
4. Direct attention to the url. You should see total of 4+ secs delay in loading the page.
5. Once it loads, you should see this message : "Hello from Acme Financial's Backend service. Calling Acme Financial's Account Service [Hello from Acme Financial's Account Microservice] and then Customer Service [Hello from Acme's Customer Microservice]"
6. You should see the request response from the 4 microservices depicted in #1 and the message in [] are responses from the microservices. Example : [Hello from Acme Financial's Account Microservice] is the response from acme-financial-account-microservice.
7. Navigate to Zipkin apps URL. It should be : <http://zipkin-as-a-service.cfapps.io/>. Check the zipkin app in your space if different.
8. Click the “Dependencies” tab which shows the relationship between microservices.

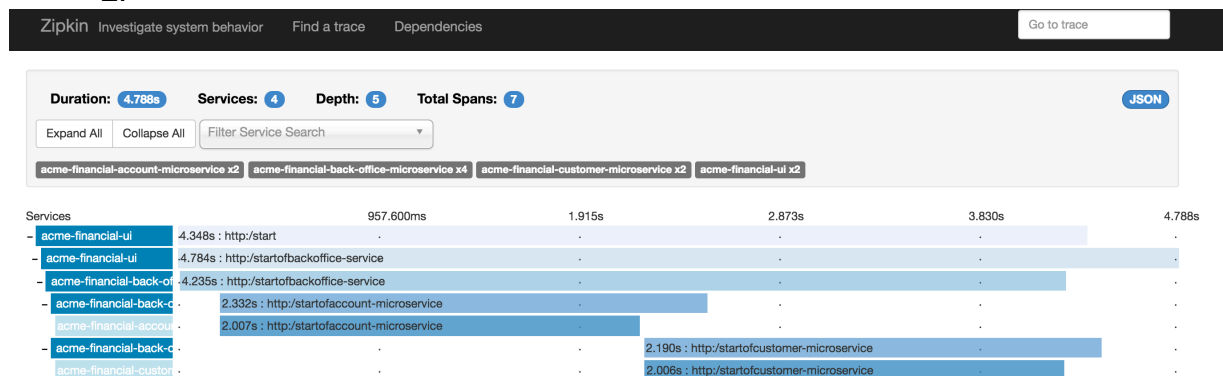


9. Bring up “acme-financial-ui” on the filter and sort by “newest first”. You should see this :



10. Expand All and you should see this : Explain the total latency showed in “Duration” by showing below. Explain concept of traces and spans (explained in slides).

2.



11. Explain what happened using the visualization. The app “acme-financial-ui” has a “/start” which when clicked, calls “/startofbackoffice-

service” on acme-financial-back-office-microservice. This in turns calls “/startofaccount-microservice” and “”/startofcustomer-microservice”. You can also click on any of the service and explain the tags automatically added by spring cloud sleuth. Also explain they can add custom tags and sampling percentage using sleuth.

acme-financial-back-office-microservice.http:/startofbackoffice-service: 4.235s

AKA: acme-financial-back-office-microservice

Date Time	Relative Time	Annotation	Address
Key	Value		
http.host	acme-financial-back-office-microservice.cfapps.io		
http.method	GET		
http.path	/startOfBackOffice-Service		
http.url	http://acme-financial-back-office-microservice.cfapps.io/startOfBackOffice-Service		
Local Component	unknown		
Local Address	127.0.0.1:8080 (acme-financial-back-office-microservice)		