Question:  
  
Design a System which is responsible collecting the telemetry data from Servers and give visualization to end users that how your servers work in real time.  
  
Functional Requirement:  
  
1. End user can able to see the metric close to real time.

2. User can see visualization maximum of 1 year old.  
3. User can only see data of server which he/she owns.  
  
Follow up:  
1. How we will make sure system generates alerts and user get notified if something going wrong in their systems.  
  
  
Non-Functional Requirements:

1. System should be highly available.
2. After 1 year I expect 10k customer, 2-year 50k, 5-year 100k-150k user who are using my system.
3. Per server emits 250 different kind of metric and each metric size is 1-2kb.

2 sec end to end

1sec – 1000ms

1000/5 = 200

250kb \* 200 =