Material:

* Fault Tolerance by example
  + Link: <https://www.softwarearchiblog.com/2015/09/fault-tolerance-microservices.html>
* Circuit Breaking:
  + <http://www.softwarearchiblog.com/2015/06/circuit-breakers-and-resiliency.html>
* Health Check
  + <https://microservices.io/patterns/observability/health-check-api.html>
* Chaos Monkey By Netflix
  + <https://github.com/Netflix/SimianArmy/wiki/Chaos-Monkey>
* Bulkheads
  + <https://www.softwarearchiblog.com/2018/02/bulkheads-resiliency-design-pattern.html>
* Byzantine Fault Tolerance
  + <https://www.youtube.com/watch?v=VWG9xcwjxUg&t=4s>
* Measuring reliability or performance - SLI, SLO and SLA
  + <https://www.youtube.com/watch?v=LKpIirL8f-I>
* Case Study: Groupon and Screwdriver
  + <https://engineering.groupon.com/2016/java/screwdriver/>

Questions:

1. Explain how we can implement the bulkheads pattern in our systems.
2. Describe the implications of separation of the application to different geographical zones on our design and implementation.
3. Give an example of a point of failure in your current system’s architecture.
4. How would you specify the requirements for fault tolerance of a system?
5. How do you test the tolerance of a system?