Distributed Systems

COMP90015 2019 Semester 1
Tutorial 02

Q1. Define and briefly explain each of the following distributed system challenges:

-   Concurrency
-   Heterogeneity
-   Failure Handling
-   Openness
-   Security
-   Scalability
-   Transparency

C I A
Confidentiality: plantext ->(encryption) cipher text
integrity DDoS
Availability

Authentication passwords, public key authentication
Authorization access control lists

openness
  documentation publishing key interface

scalability
  handle growth number of the client

Access Trans. : access the file remote and local
Location Trans.
Failure Trans.

Q2. Briefly explain the difference between a client-server architecture and a peer-to-peer architecture.

Q3. Briefly explain each of the following distributed system architecture variations, giving also a reason or a benefit of its use:

- Services provided by multiple servers

- Proxy servers and caches

- Mobile code and Mobile Agents   mobile code JS
                                          Mobile agent travel

- Network computers

- Thin clients

- Tiered Architecture

Questions?