

Distributed Systems

COMP90015 2018 Semester 2
Tutorial 8

Things to cover today

Part 1: Security Questions

Part 2: Sending files with Java RMI

Security Questions

1. List and briefly explain some worst case assumptions when designing a secure system.
2. Define encryption and describe the two main types of keys used by encryption algorithms.
3. Discuss the three major roles that encryption plays in the implementation of secure systems
4. Explain how digital signatures work.

Security Questions

5. How does Alice send a secret message to Bob if they both share a secret key?
6. How can Alice authenticate and communicate secretly with Bob assuming there is an authentication server that knows Alice's and Bob's secret keys?