

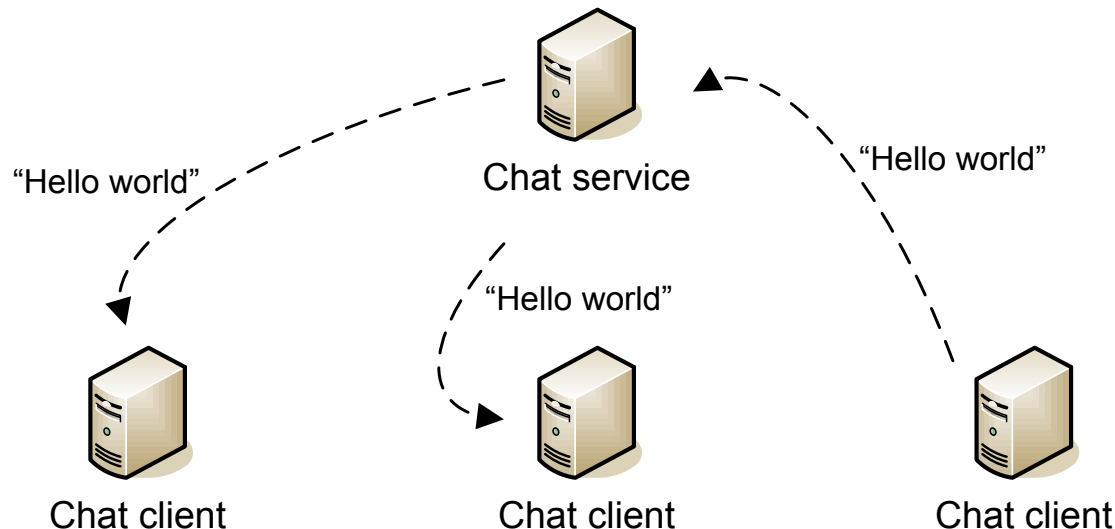
**SSC/STI
2014/2015**

Practical class #10

- **Practical Assignment #3 (Programming and Security)**

Practical Assignment #3

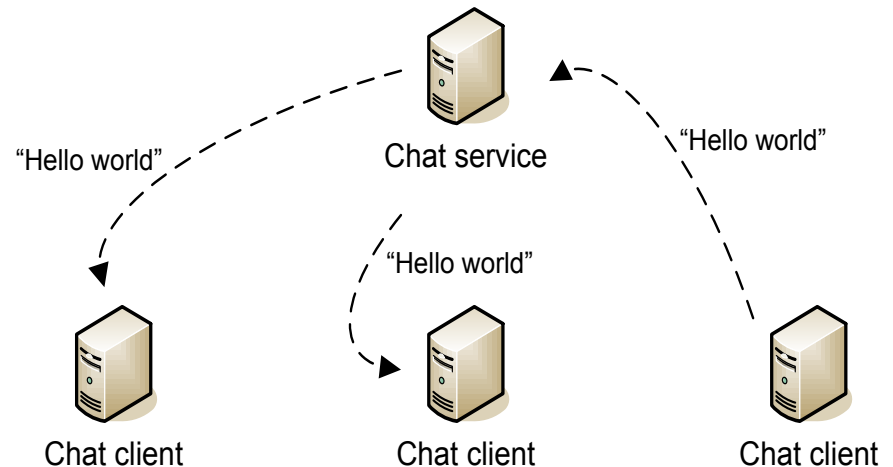
- A simple Chat service on top of which security will be applied
- Our goal is **security**, not to improve the Chat service
- Source code in Java provided



Practical Assignment #3

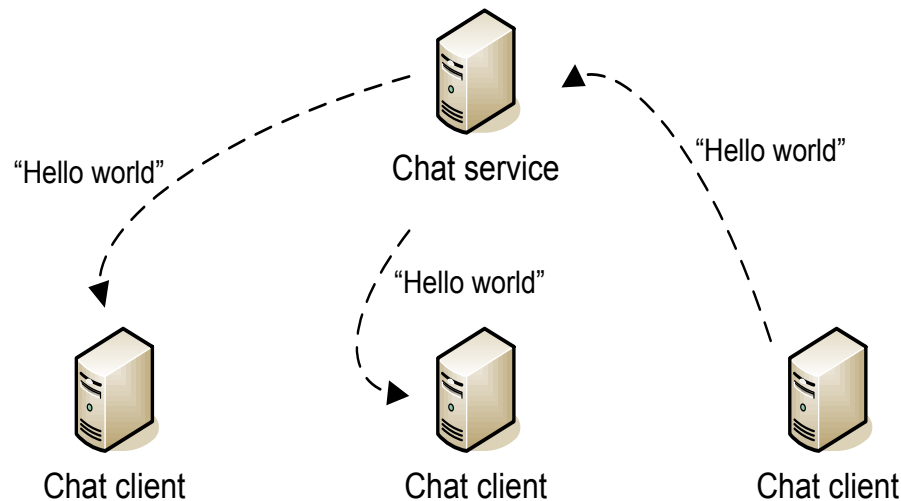
Security requirements:

- Confidentiality
- Authenticity
- Integrity
- Non-repudiation
- Key management, support:
 - Security provisioning
 - Key negotiation
 - Key renewal
- Secure management of confidential information



Practical Assignment #3

- Important aspects
 - What is the **security model**?
 - What are the **security procedures**?
 - What are the **cryptographic algorithms** employed, and how are they employed (usage mode, key size, ...)?



Chat service, source code in Java

Java source code provided:

- ChatClient.java
- ChatServer.java

Example usage:

```
java ChatServer 5555
```

```
java ChatClient 10.10.0.1 5555
```

