

Confiabilidade de Sistemas Distribuídos Dependable Distributed Systems

DI-FCT-UNL, Nuno Preguiça

Lab 03

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MIEI

Mestrado Integrado em Engenharia Informática

Goal (1)

- Add the following security guarantees to your system.
 - Guarantee that the client is connecting to a server of the systems. Avoid replaying.
 - Suggestion: use TLS connection.

Goal (2)

- Add the following security guarantees to your system.
 - Guarantee that the replies from the server are correct.
 - Suggestion: Send to the client the replies received by the BFT-smart client, so that the client of your system can verify that the result was returned by $f+1$ replicas.
 - In BFT-smart, when creating the ServiceProxy, it is possible to pass to the system a replyExtractor object that will be called when a message of the protocol is received. Create a custom replyExtractor that saves the messages to be sent to the client of your system.

Goal (3)

- Add the following security guarantees to your system.
 - Guarantee that the client has permissions to execute the operation he is asking.
 - Suggestion: wait until next lecture, for BitCoin presentation.

Note

- The first project, to be delivered by 8/April, will be the result of the system being developed in the labs.