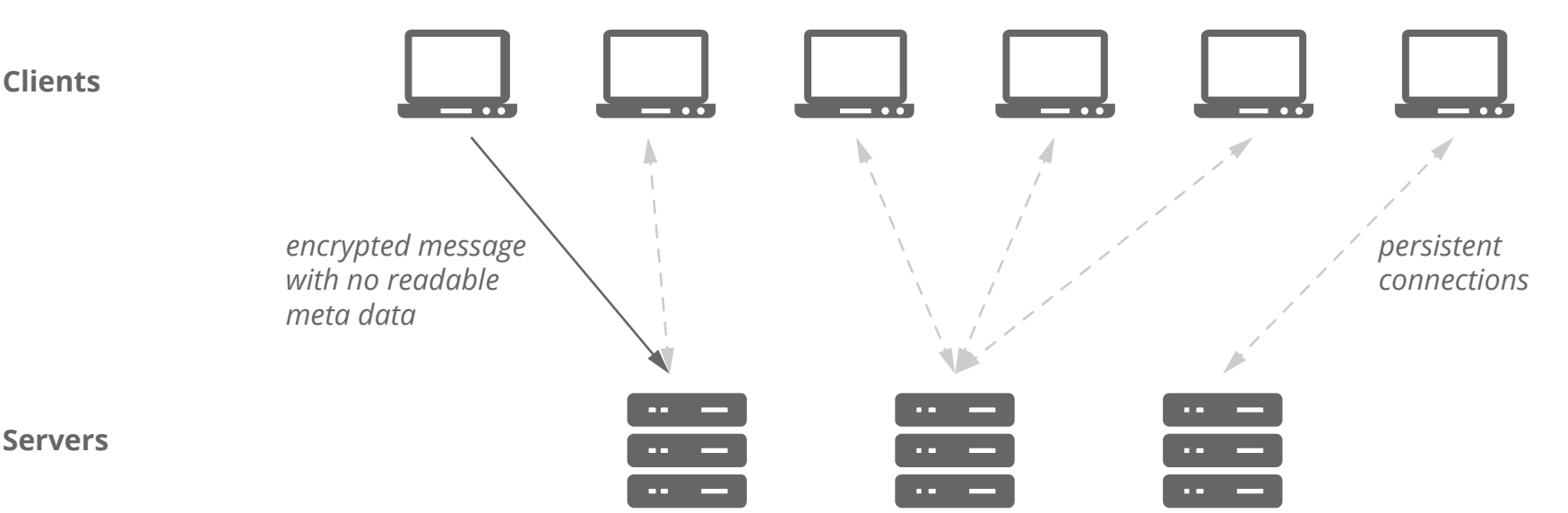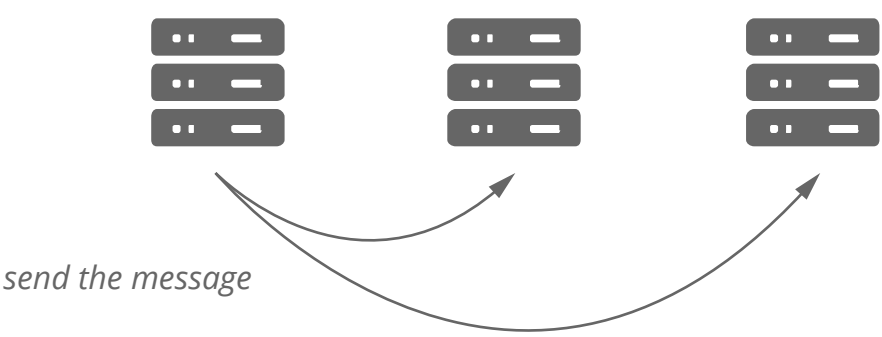## 1 - A client send a message to one of the servers

The client is connected to one of the server and send a message in a websocket. The message is fully encrypted. Every datas and meta datas are put in a JSON object, stingyfied and encrypted in one chain with a AES256 key.

Clients

Servers

encrypted message
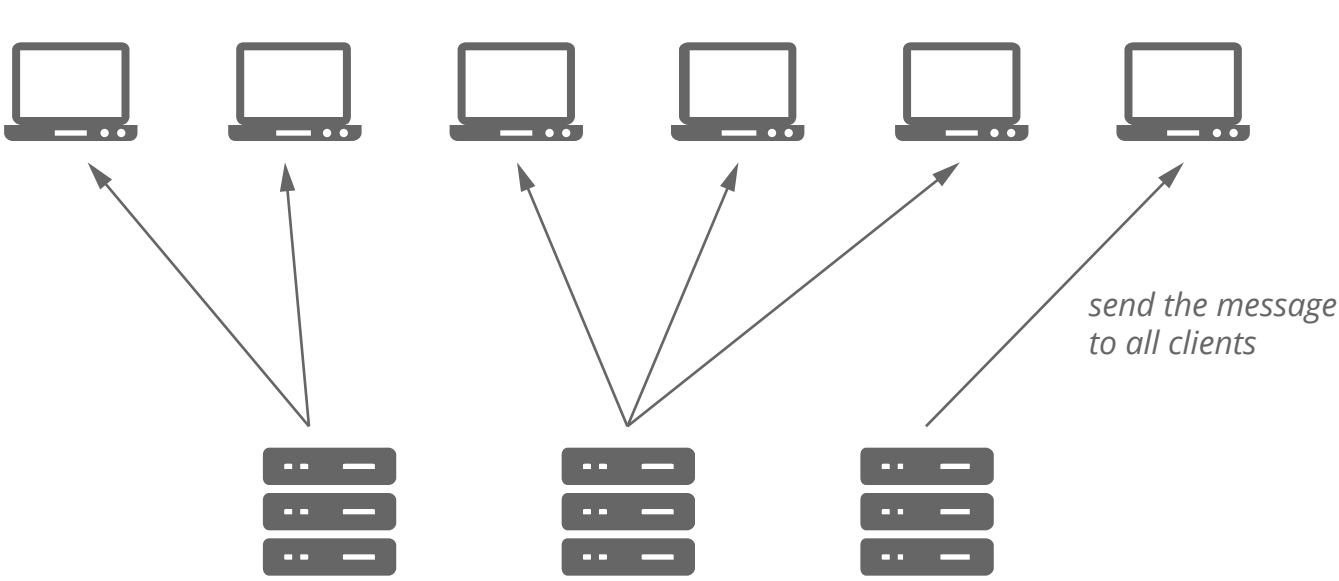with no readable
meta data

persistent
connections

2 - The receiving server propagates the message to the other servers of the cluster

Last 1.000 messages will be kept to send to newly connected users. When there are more than 1.000 messages, older ones are deleted.

send the message

3 - The servers send the message to theirs clients

So everyone gets all the datas

send the message
to all clients

4 - The client process the message with his keys

If the client can decrypt the message with the keys he has, he keeps it and displays it. Otherwise he ignores the message.

message

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