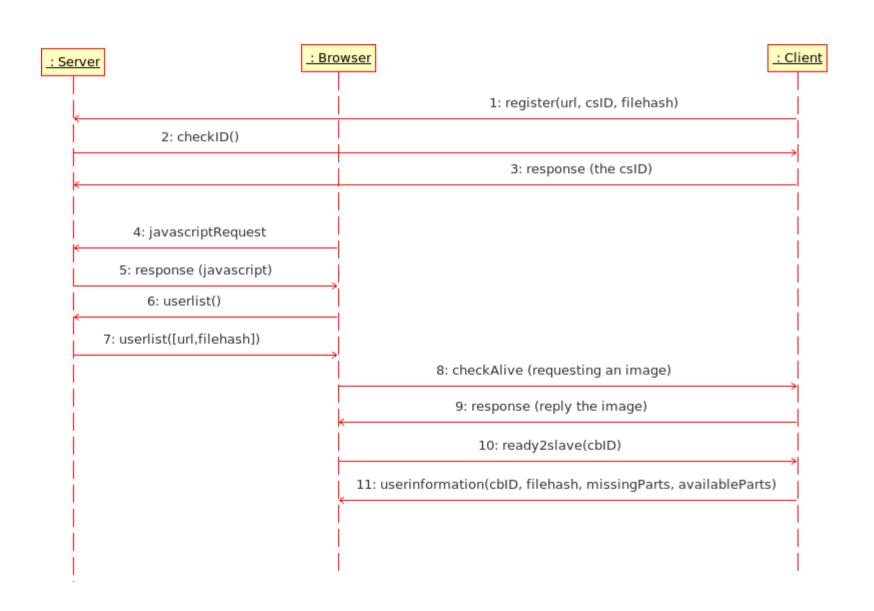
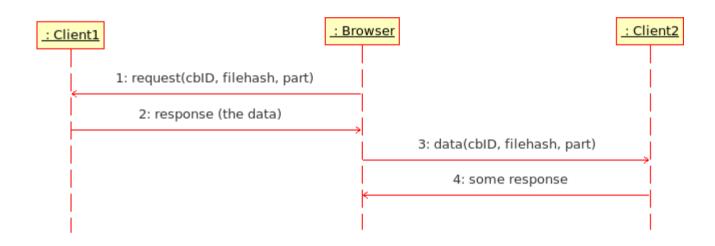
Browser Share

- How the protocol works
- What techniques are used
- Demonstration

Protocol Registration



Protocol Data Transfer



Methodology Dynamic Script Includes

- JavaScript creates a new <script>
- <script> src points to receipient
- Filename defines type of request
- Parameters are passed as GET

Problem Dynamic Script Includes

- Long timeout
- JavaScript is single threaded
- → Stops the execution until timeout occurs

Solution Dynamic Image Inlcudes

- JavaScript creates a new
- src points to receipient
- onload the desired JavaScript is executed
- JavaScript keeps executing until onload occurs

Methodology Dynamic Forms in IFrames

- Huge amounts of data per POST
- JavaScript creates <form> in an <iframe>
- Automatized submit of forms leads to a reload of the whole page, because it is triggered in the context of the main frame
- Target of <form> = name of <iframe> causes the response to appear in the <iframe>

Methodology HTTPS

- Encrypted communication between browser and client via HTTPS
- Problems:
 - Static certificate
 - Current browser restrict encrypted communication with self-signed certificates
- TODO:
 - Implement application layer encryption

Demonstration

Thanks for your attention