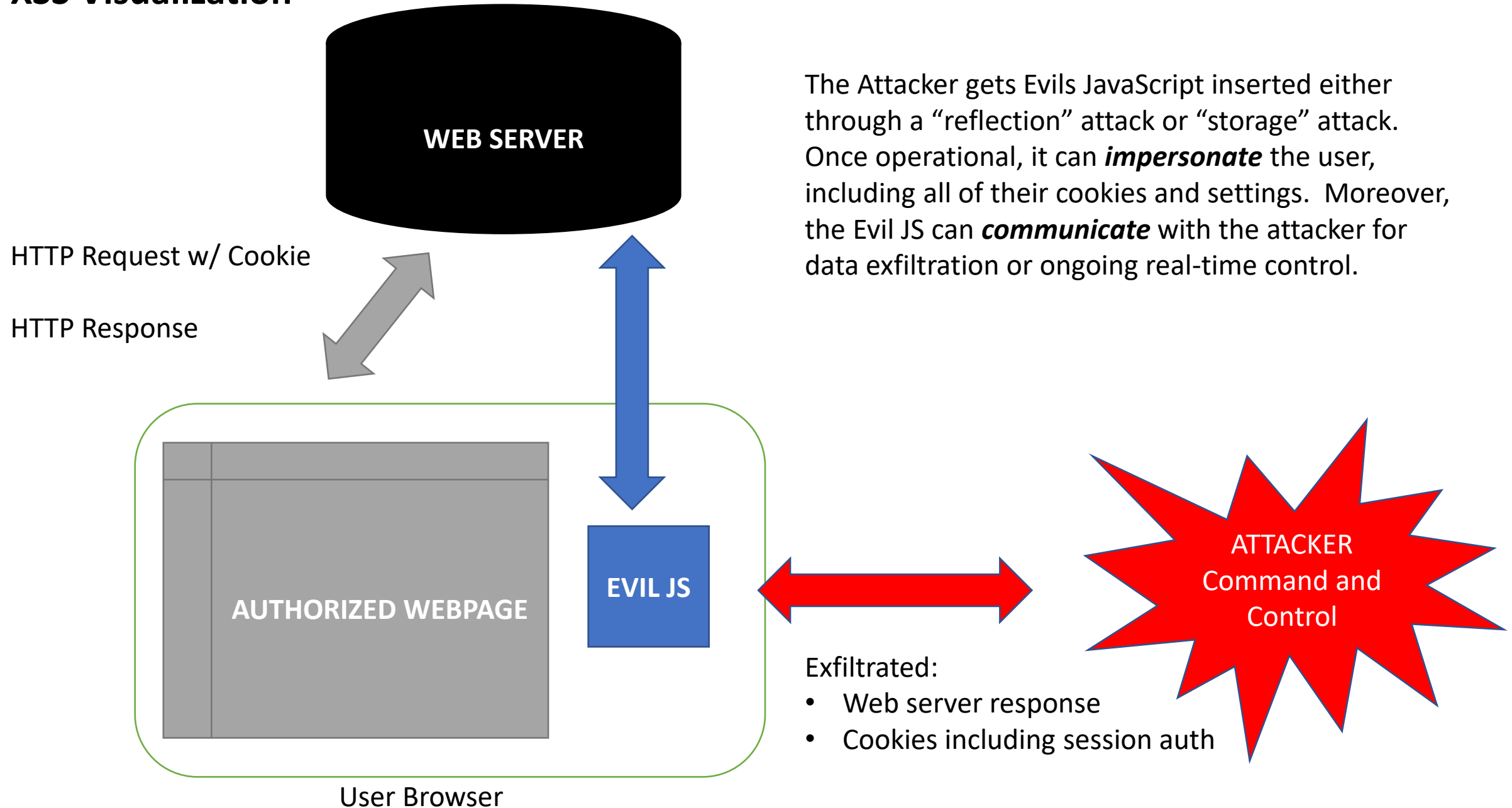
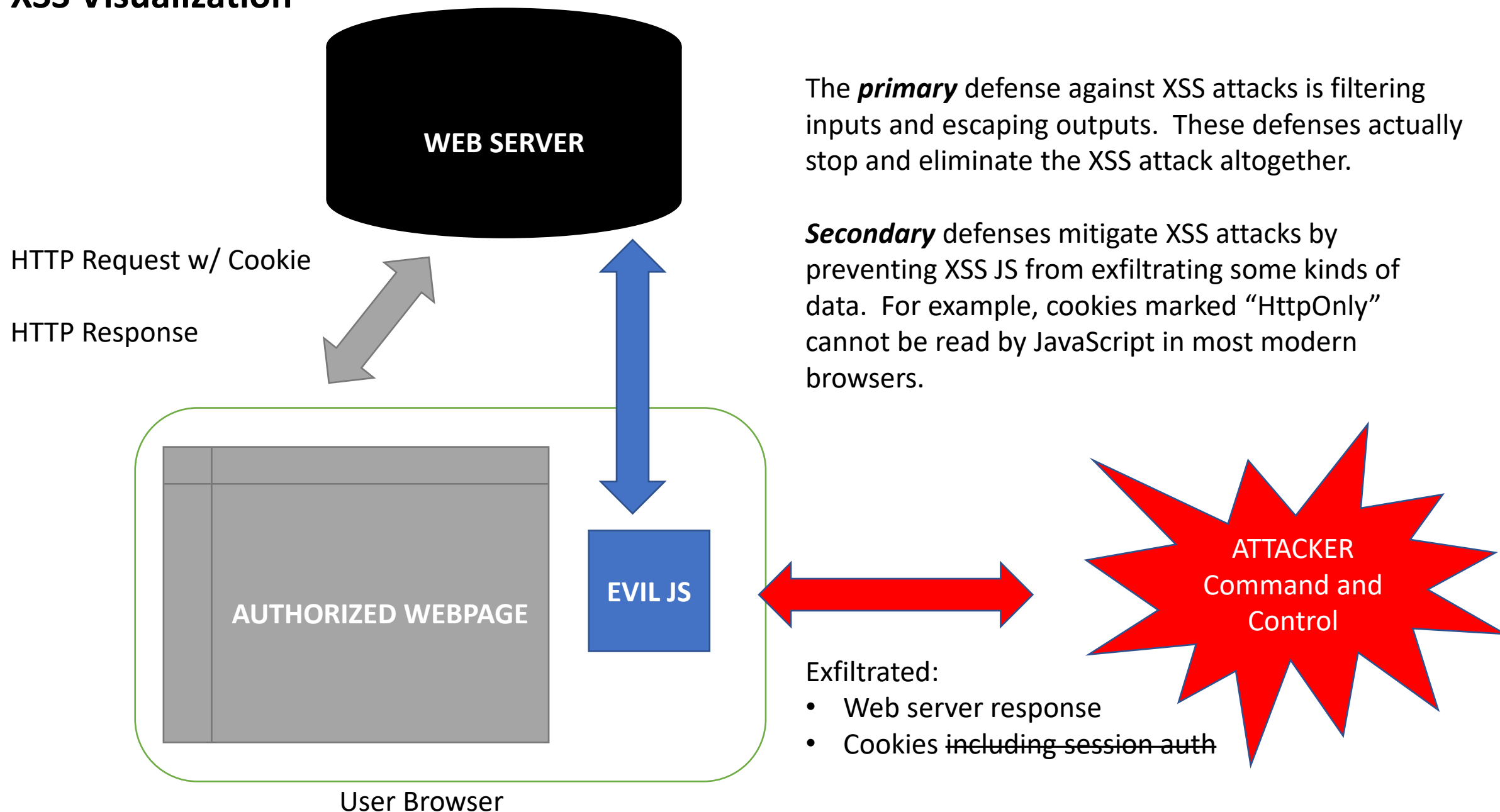


# XSS, CSRF Supplement

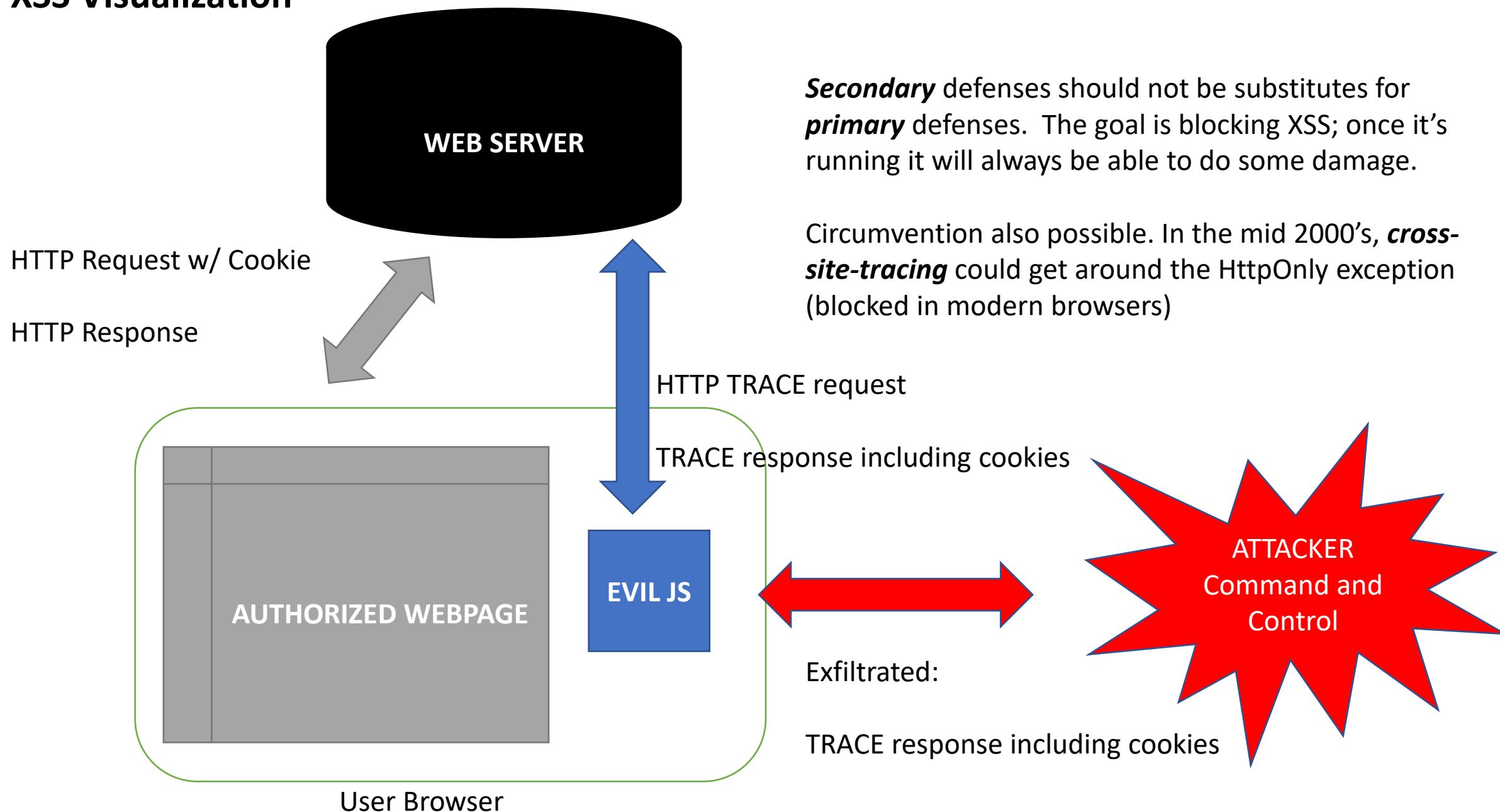
# XSS Visualization



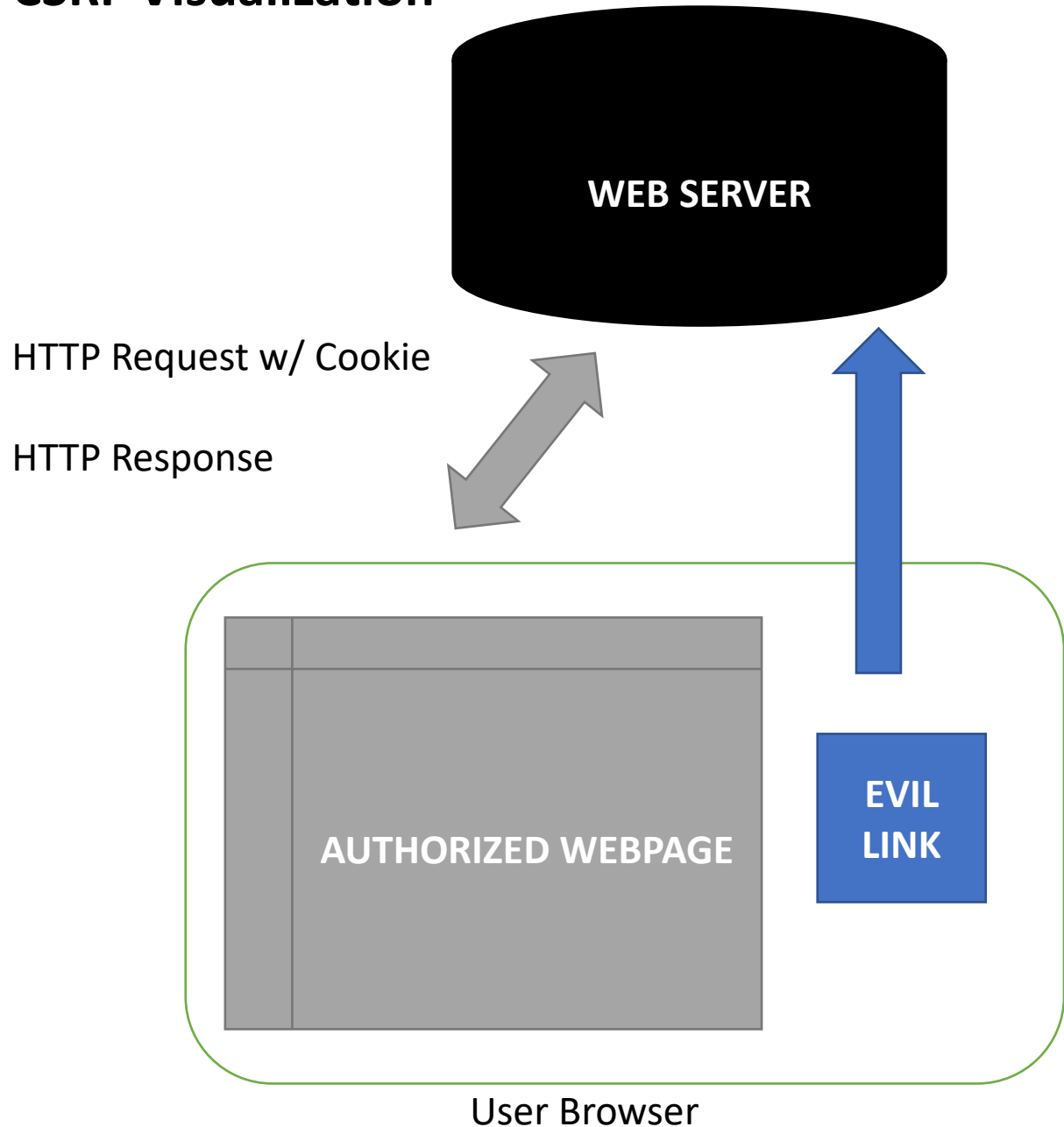
# XSS Visualization



# XSS Visualization



# CSRF Visualization

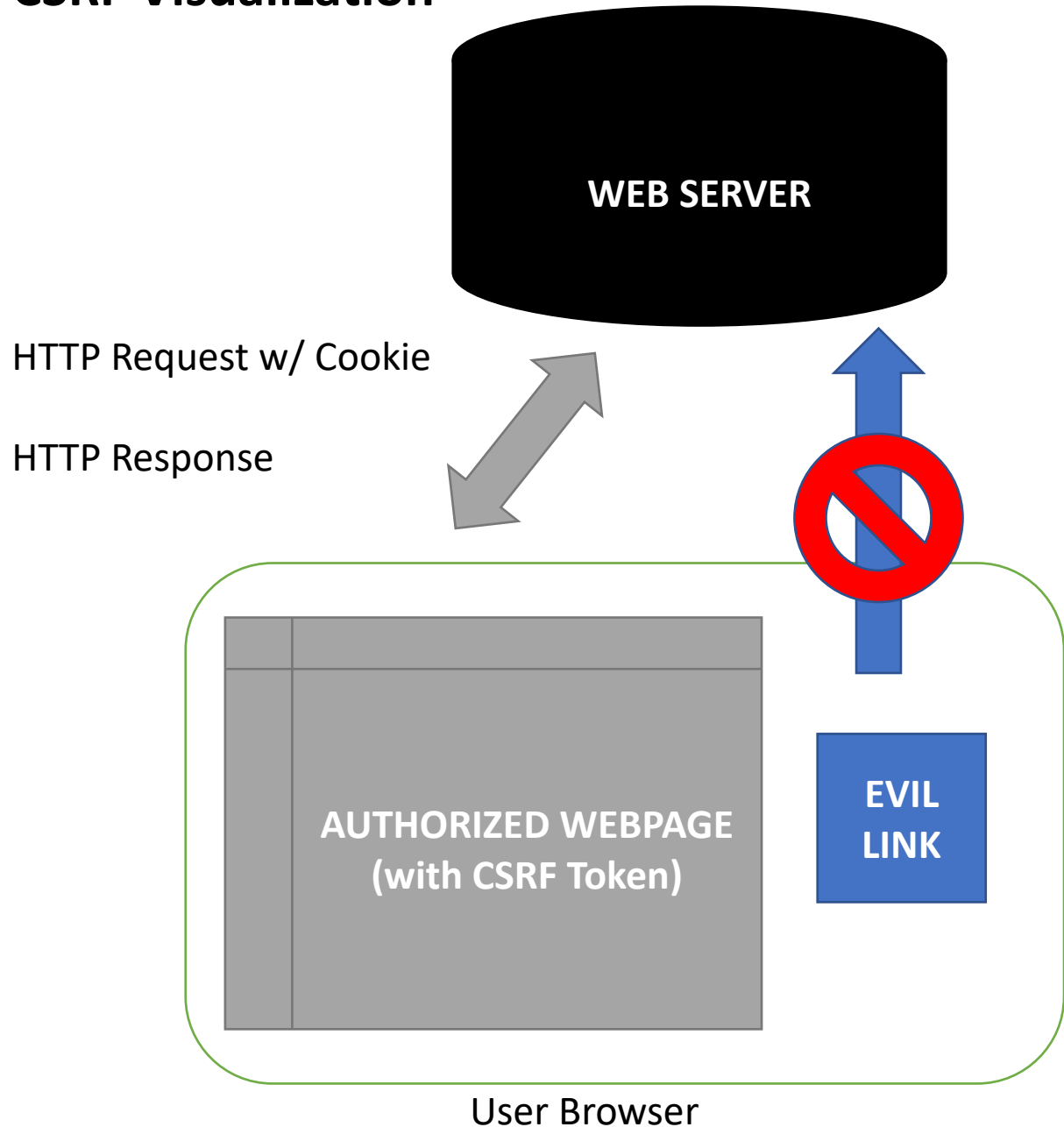


***Cross-Site Request Forgery*** is simpler than XSS. There is typically no JS and it is not typically ***two-way communication with the Attacker***.

The idea is simply getting the victim to click on a link or otherwise transmit an HTTP request that causes an unauthorized transaction. For the attacker to succeed:

1. An inducible action
2. Cookie-based session handling
3. Predictable request parameters

# CSRF Visualization



A **CSRF-Token** is some *unpredictable* value embedded in the webpage that is used for identifying authorized requests. For this to work:

1. CSRF Token cannot be a cookie
2. Must be unpredictable
3. Not easily interceptable

Typically issued from the server in a hidden form element. Automatically transmitted back when the form is submitted.

## CSRF v XSS

