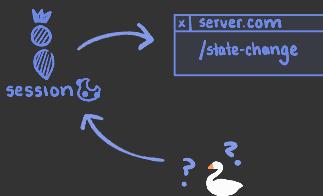


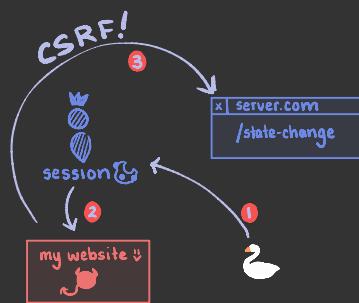
# CRSF

## Cross-Site Request Forgery



You want to make admin change their password, but you obviously can't do it yourself

Basically, how do you make admin change their pw without them knowing?



① Make admin visit attacker website

② When admin visits attacker website, scripts hosted on there instigate a request back to the vuln-server, to change pw of the user who made the request

③ When a request is made, admin's sessional cookies are packaged with it, so vuln server will change the pw of admin-w/out admin explicitly making the request knowingly

## HOW DOES THIS WORK

A CSRF requires 3 things:

- State-changing request on server
  - ↳ like changing a password or email, transferring money, etc. Requests which display data to the user won't work since CORS prevents us from looking at the response of a cross-site request
- The server only using cookies for sessional checks.
  - ↳ Most browsers will package in a user's cookies in an HTTP request. If the vulnerable server only authenticates on sessional cookie alone, a victim will never know a request was made on their behalf.
- The request containing deterministic parameters ONLY
  - ↳ Requests with unexpected or non-deterministic params will be hard for an attacker to predict the values for

## NOTES

- CSRF attacks can theoretically arise when an application packages in a user's credentials in a request automatically
- Similar to XSS in that CSRF requires a victim user to visit some site an attacker controls.