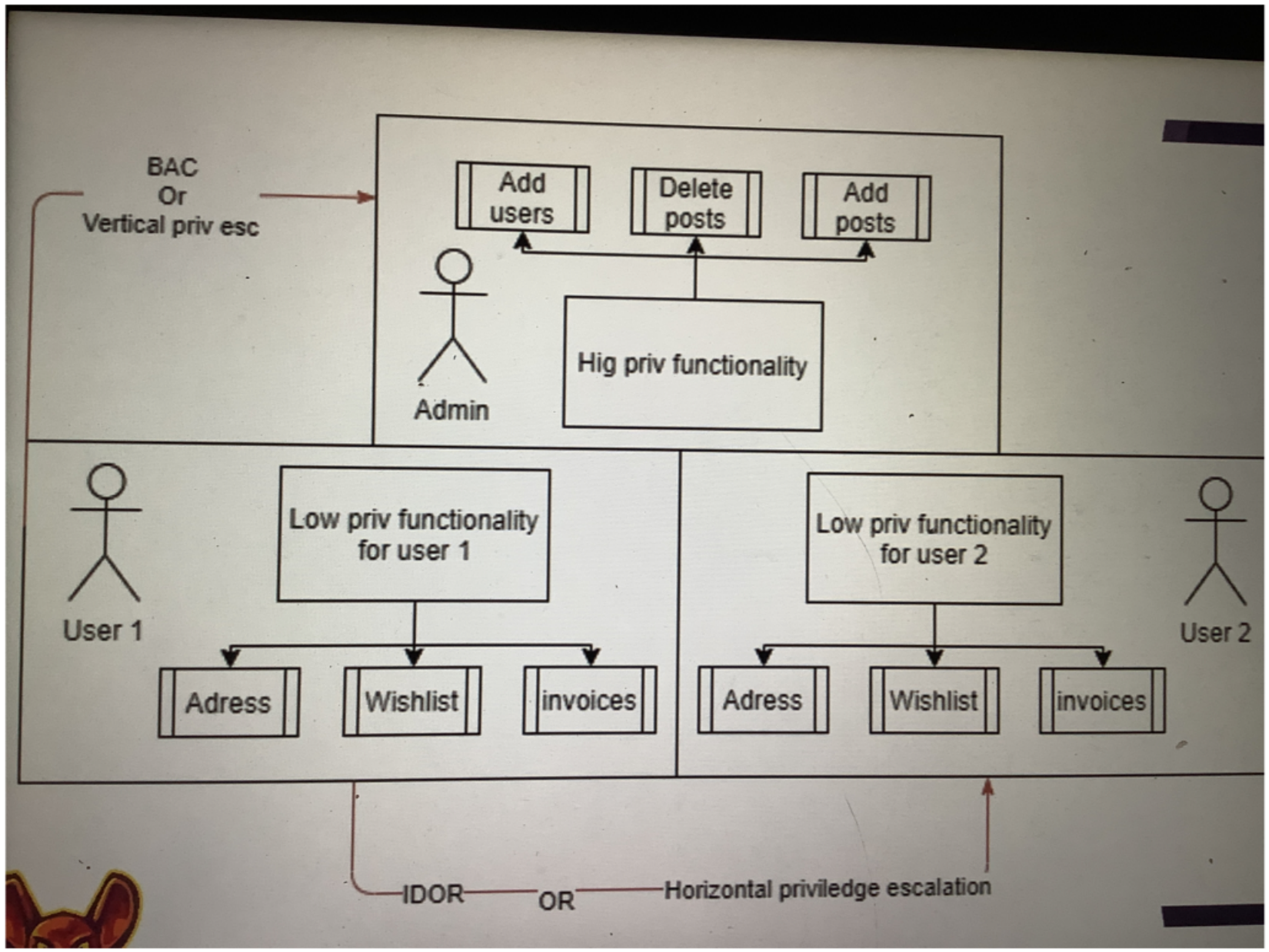
xss rat broken access control

Requires acess to different priv-levels



* this is mainly focused on Vertical

What is BAC (Broken Access Control)

- Privilege escalation
  - Vertical
  - Horizontal
- Examples:
  - We have an admin and a normal user. We can test the admin settings with the low priv user
  - We have a normal user and a prospect user. The prospect user can not execute all the functions because he only has a trial account
  - We have two users of the same authorization level: See IDOR

Attack Strategy

Attack Strategy – General tips

- Make sure we have the right target
  - Need users with different access levels for vertical priv esc
  - Need multiple accounts for IDOR (See IDOR chapter)
    - No static websites
- Create a mindmap of the target
  - Note down functionalities
  - Note down priviledge levels
  - Indicate if priviledge level can execute functionality

* make sure these are priviledge levels!!

* if application is qualified for BAC record priv levels

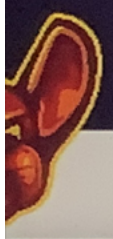
in mind maps

Tips

Attack Strategy – General tips

- Test BAC for all different priviledge levels
- The CTO might have different BAC issues than an employee

	A	B	C	D	E	F
1	HR application					
2						
3		Employee	Manager	CEO	CTO	Admin
4	Create timesheet					
5	Complete timesheet					
6	Print timesheet					
7	Sign timesheet					
8	Report					
9	Create users					
10	Delete users					
11	Create user roles					
12	Change user roles					



Y

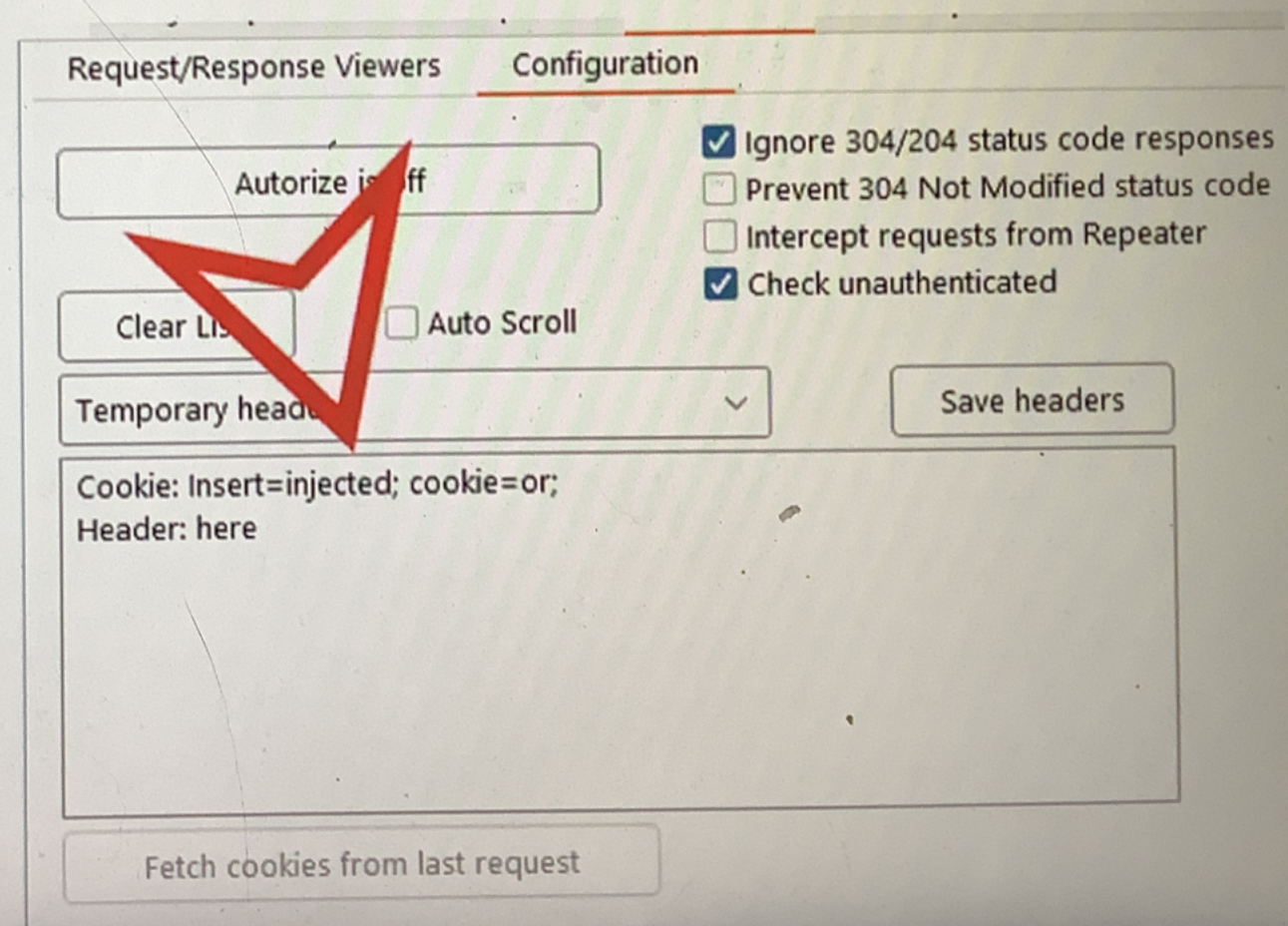
test all levels!

Attack Strategy – Manual

- Sometimes if user can not execute function, front end button is just hidden
  - Javascript function might still work
  - We can execute javascript function via the developer console
- We can just log in as admin and copy & paste URL of functions we should not execute as low priv user
- We can execute request as admin and capture in burp, then send to repeater and paste in low priv user authorization header

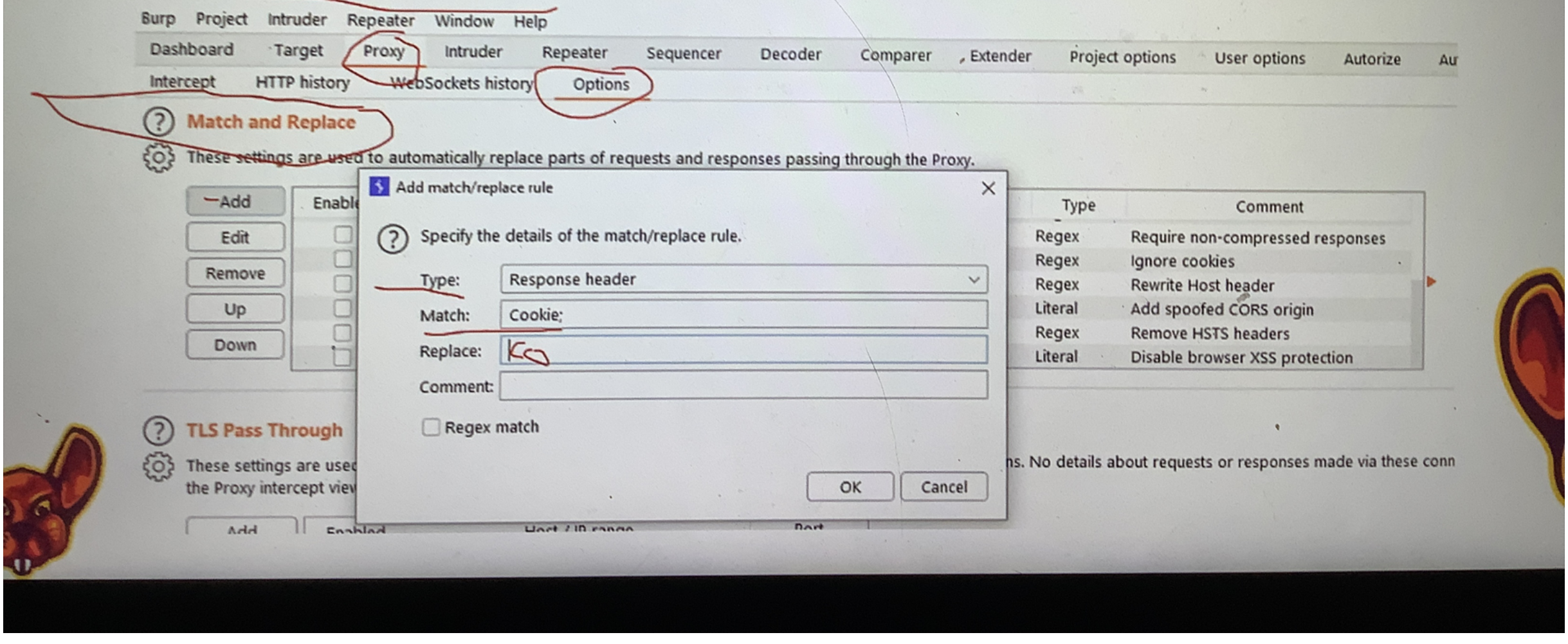
Attack Strategy – Semi-automated

- We can use authorise – free burp extension
  - Log in as low priv user
  - Copy their cookie
  - Paste it in authorise
  - Log in as admin user
  - Activate Authorise
  - See tools chapter for guide



Attack Strategy – Semi-automated

- Auto repeater
- Match and replace



↳ as we browse burp will auto-update the headers
  ○ will show more false positives but still good

Really make sure to take good notes, and really map out functionality and different privileges.