

# Over The Wire -- Natas

## Level 11 - Level 12

1. Get cookie from website(Use the default color #ffffff)  
CIVLlh4ASCsCBE8IAxMacFMZV2hdVVotEhhUJQNVAmhSEV4sFxFeaAw=
2. Decode cookie from base64 to hex(We can skip this step)  
0A554B221E00482B02044F2503131A70531957685D555A2D12185425035502685211  
5E2C17115E680C
3. Json encode the default data from page source  
{"showpassword":"no","bgcolor":"#ffffff"}
4. Calculate xor of decoded cookie and encoded data to hex(You can get the key)  
7177384a7177384a7177384a7177384a7177384a7177384a7177384a7177384a717738  
4a7177384a71  
The key is 7177384a in hex and qw8J in ascii
5. Edit a new data which show password is true  
{"showpassword":"yes","bgcolor":"#ffffff"}
6. Transfer data to hex  
7b2273686f7770617373776f7264223a22796573222c226267636f6c6f72223a22236666  
66666666227d
7. Modify key so that it get same length with transferred data  
7177384a7177384a7177384a7177384a7177384a7177384a7177384a7177384a717738  
4a7177384a7177
8. Xor modified data and key, then encode by base64  
CIVLlh4ASCsCBE8IAxMacFMOXTITWxooFhRXJh4FGnBTVF4sFxFeLFMK
9. Set cookie in <http://natas11.natas.labs.overthewire.org/> and refresh  
EDXp0pS26wLKHZy1rDBPUZk0RKfLGIR3

## Level 12 - Level 13