

Question: "We have intercepted the enemy's communications, but unfortunately, some data was corrupted during transmission. Can you recover the message?" M4 UKW \$ Gamma 2 4 \$ 5 9 \$ 14 3 \$ 5 20 fv cd hu ik es op yl wq jm

"Ciphertext: zkrtrvvvnrkulxhoywoj" (Words in the flag are separated by underscores)

Solution: From the chall name, it is easy to guess that this is the enigma cipher. Most of the specifications are given and we need to decode the ciphertext.

Go to cryptii.com and choose Enigma and then the decode option. Once you notice the specifications on the site, you'll notice that we aren't given the exact reflector (Could be UKW B thin or UKW C thin) and we aren't give the details of rotors 2,3 and 4. We start brute forcing it using UKW B thin and rotors starting from 1,1,1. We soon find the flag on the 31st attempt with the rotor configuration being 1,4,7.

The screenshot shows the Cryptii Enigma machine decoder interface. The ciphertext 'zkrtrvvvnrkulxhoywoj' is entered on the left. The central configuration panel is set to 'Enigma M4 Shark' with 'UKW B thin' reflector. Rotors are set to Gamma, I, IV, and VII. The plugboard shows 'fv cd hu ik es op yl wq jm'. The output shows 'Encoded 20 chars'.

Flag: csictf{no_shit_sherlock}