MR. ROBOT

1. This challenge looks like there's numbers that are encrypted using a telephone diagram kind of way. Reading the challenge there is a hint or secret key giving which is 1 = 9 and 5 = 5 but changes to 0. Download telephone.png to see what's in the photo.

Challenge — 1 Solves

Telephone Cipher
200

Creepy Voice. She's lying to me, I know this look's confusing, but I'm Sure theres an explaination. What she says isn't the telephone number the flag is looking for, looks like we have to decrypt the numbers with the telephone using the hints giving. 1 = 9, 5 =5 but is changed to 0, hmm I can see the encryption method? Can You?

Syntax EVILCORP_CTF{numbers}

📥 Telephone.png   📥 NumbersAud...

Flag   Submit

2. Telephone png shows numbers that are similar to what someone will see in a telephone. Download the .wav file and listen to it.

1 = 9
5 = 5 but changes to 0

2. Listening to the .wav file a creepy girl says the following numbers. 4 7 9 7 1 0 0, for now these numbers don't mean much but using the hint 1 = 9 and 5 = 5 change to 0 we can try decrypt this using the telephone diagram and using the 5 as a middle point.
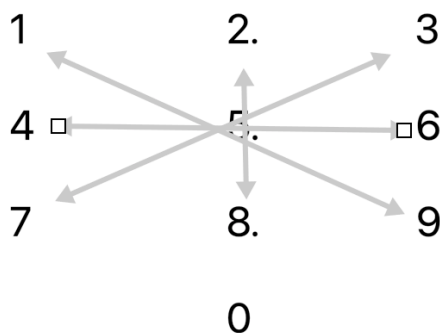
Hints

1 = 9

5 = 5 changes to 0

Creepy Audio Numbers

4 7 9 7 6 1 0 0

2. As show in this arrows leading to corresponding numbers using 5 as a middle point, so 1 =9, 2 = 8, 3 = 7, 4 = 6 and 5 = 0 and vice versa.

Telephone Diagram

1	2.	3
4	5.	6
7	8.	9
	0	

2. So few notes was made just to confirm the method used to see does it make sense so because 5 = 5 this lets to believe 5 acts as a middle number. 1 = 9 so 1 is going diagonal so this lets to believe 3 goes diagonal across 5 so equals to 7. And the same with the rest of the numbers. Also a note to take is 5 = 5 changes to 0 so that means 0 = 0 and changes to 5.

Notes

1. 5 acts as a middle centre point

2. so if 1 = 9 and 5 = 5 the 3 = 7 and vice versa

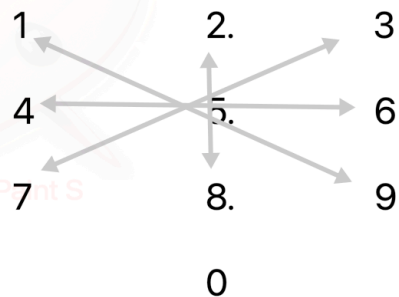3. 5 = 5 but as said in the hints it gets changed to 0. So this means 0 = 0 and changes to 5

2. Next step is to decrypt the numbers using this method so as seen in the diagram the answer from this is 6 3 1 3 4 9 5 5. Lets throw this in the flag to confirm it's correct

Decode using the telephone diagram

Telephone Diagram

4 = 6
7 = 3
9 = 1
7 = 3
6 = 4
1 = 9
0 = 5
0 = 5

Answer
63134955

1.   2.   3

4   5.   6

7   8.   9

        0

2. The following is the correct flag.

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⬇ Telephone.png   ⬇ NumbersAud...

EVILCORP_CTF{63134955}   Submit