

राक्षसCTF

CHALLENGE NAME : [AREA 96]

DEV : [PRANIT GOVANDE]

CATEGORY : [STEGANOGRAPHY]

LEVEL : [MEDIUM]



2024

Challenge Description :

A confirmed UFO sighting has unveiled the presence of extraterrestrial beings who have transmitted an audio file (AlienMessage.wav) that has stumped government analysts. According to intelligence

reports, these aliens are avid music enthusiasts and witty pranksters. Your mission is to decipher the encrypted hidden message they have conveyed to Earth.

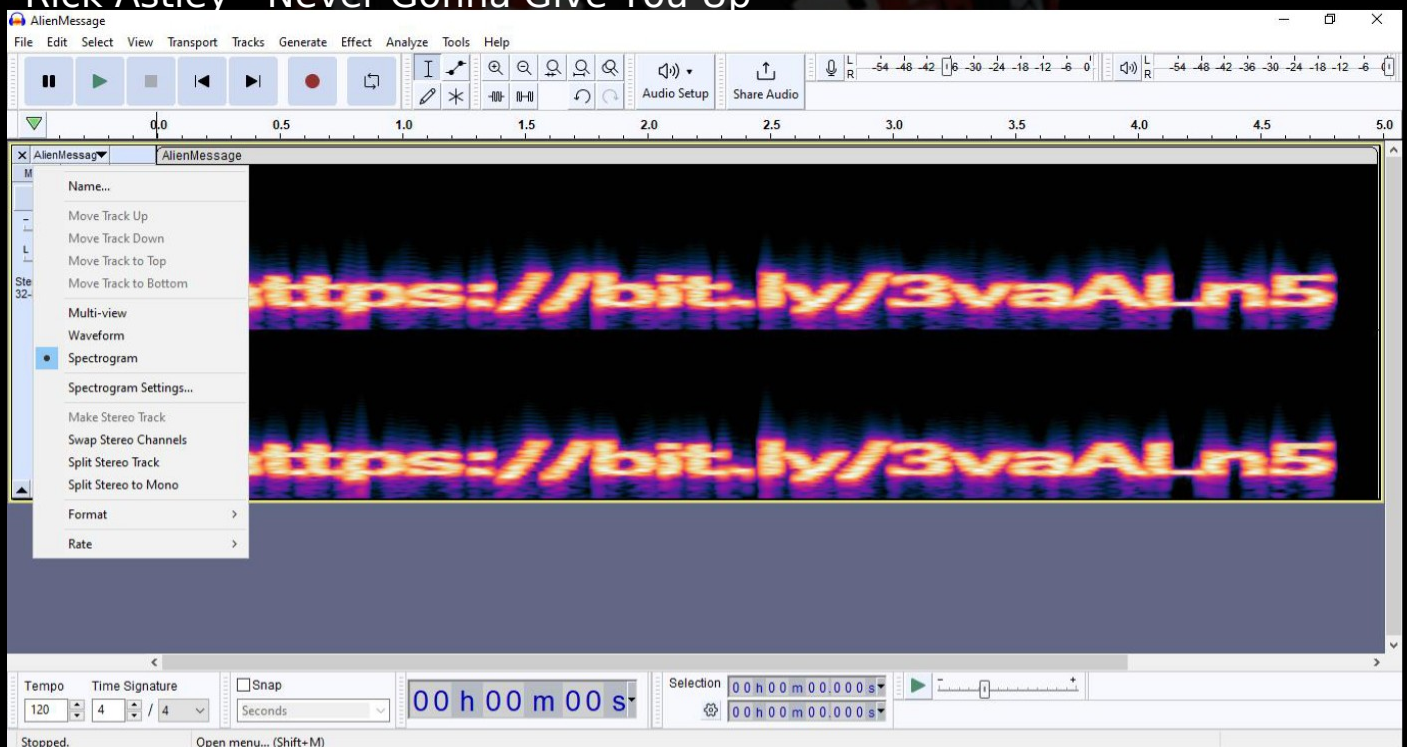
NOTE: The passwords are written in ALL CAPS without any spacing

Solution :

1) Decrypt *AlienMessage.wav* by viewing its Spectrogram.

Tool Used: Audacity

2) A link will be visible "<https://bit.ly/3vaALn5>" leading to YouTube video "Rick Astley - Never Gonna Give You Up"



3) Leading to Password for *Video.rar* i.e. PW = **RICKASTLEY**

4) *Video.rar* contains a *parkour.mp4*

5) Hidden Password is encrypted in *parkour.mp4*. To extract hidden text ; Tool used: DeEgger Embedder



- 6)Text in *parkour.mp4* = " **PW : VIITPUNE** " which is the Password for *Audio.rar*
- 7)*Audio.rar* contains *audiopw.wav*
- 8)Which contains a reversed song, on reversing back to original song ; Song Name: Praise
- 9)Song can be deduced by Tools: Shazam/Google
- 10>Password for final flag.jpg is "**PRAISE**"
- 11)Thus using any Steganographic Decoder, we get the Flag
- 12)Flag : **VishwaCTF{BeepBoop_Jaadu}**

References:

- 1)<https://youtu.be/-Llrvv-lfe4?si=LIPR6cacZqmrw-7h>
- 2) <https://youtu.be/VzAoH99ZMRc?si=BcV5p2q3D-ONys2x>

