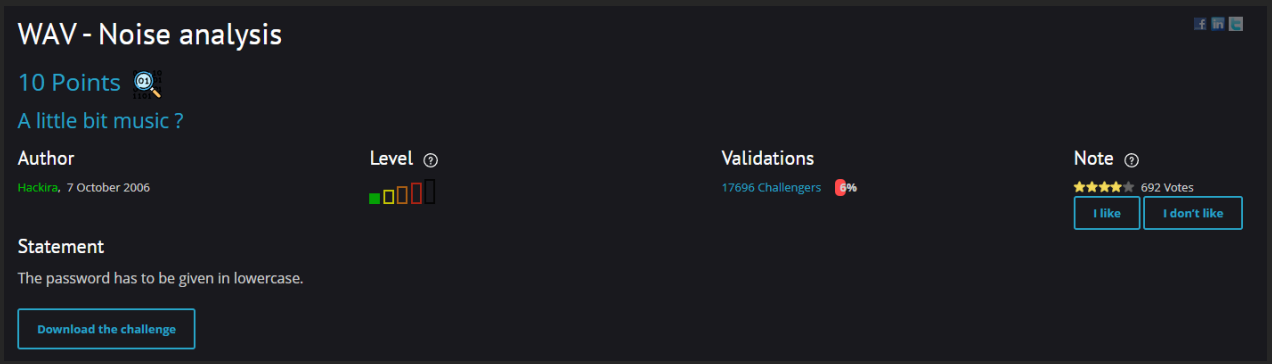
WAV - Noise Analysis CTF Writeup

This document is a walkthrough on one way to solve the **WAV - Noise Analysis CTF** on **RootMe**. The objective is to explain how I was able to solve this CTF to my future self.

General Information

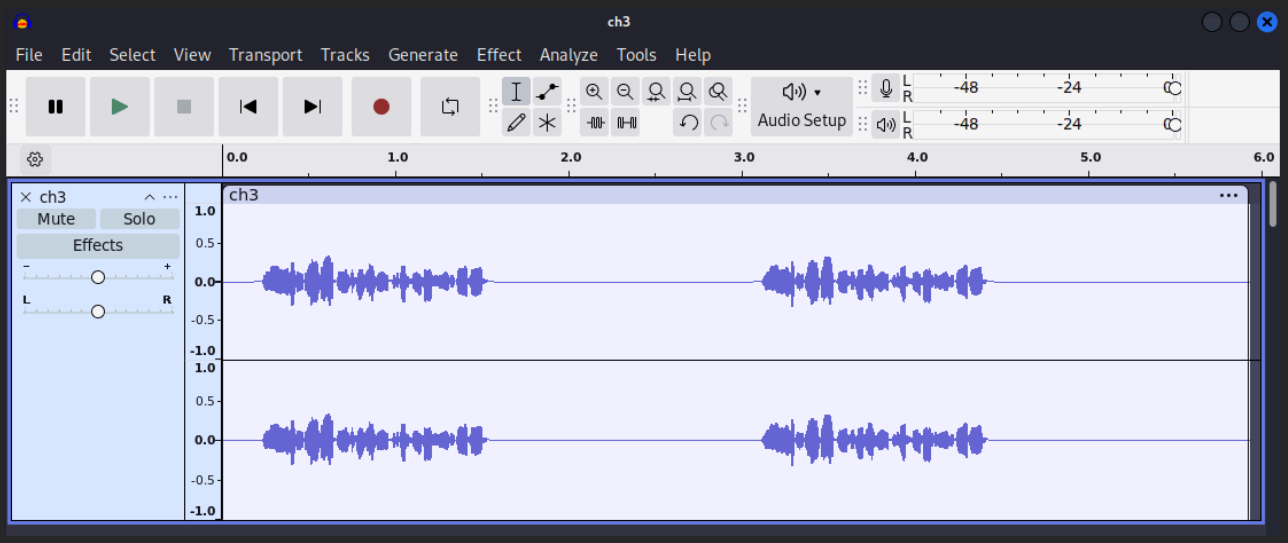
- *Difficulty:* Very Easy / Easy
- *Category:* Steganography
- *Link:* WAV - Noise Analysis - RootMe

Introduction

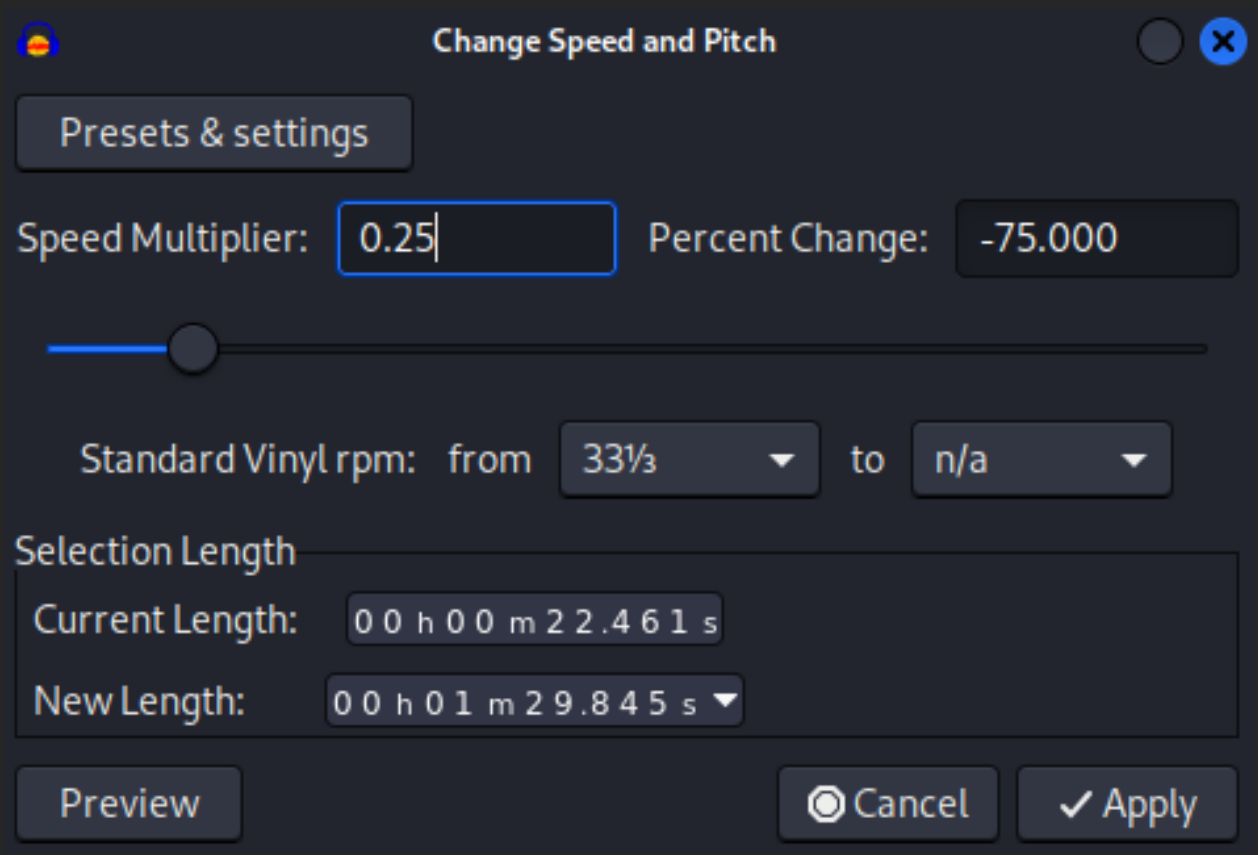


We're given an **MPGA** file, an audio file, and we're prompted to do a ***"noise analysis"*** on it, and the description of the challenge, ***"A little bit of music ?",*** hints that we'll probably have to listen to the audio, and that the flag isn't hidden in the data of the file, which could be the case for other CTFs

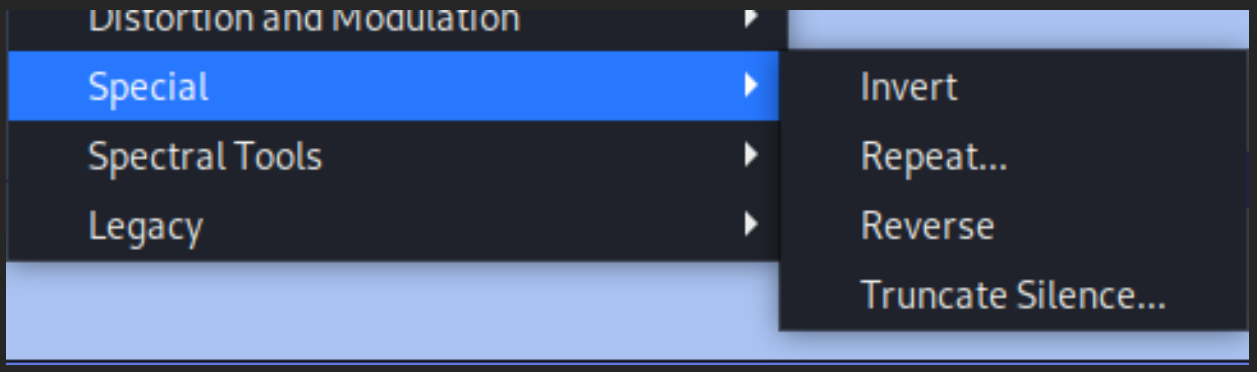
Opening up the file in **Audacity**, an audio-editing software, we get some jumbled audio that sounds sped up and distorted.



First, we'll slow its speed down by approximately 20% - 35%
(Effect > Pitch and Tempo > Change Speed And Pitch)



Then, we'll notice that it sounds human-like, but still incomprehensible. Next, we'll reverse the audio
(Effect > Special > Reverse)



And the audio will spell out the following password letter-by-letter:
3b27641fc5h0