

ångstromCTF 2020

Misc : PSK

Description : My friend sent my yet another mysterious recording...

He told me he was inspired by PicoCTF 2019 and made his own transmissions. I've looked at it, and it seems to be really compact and efficient.

Only 31 bps!!

See if you can decode what he sent to me. It's in actf{} format.

Attachment : transmission.wav

Solution :

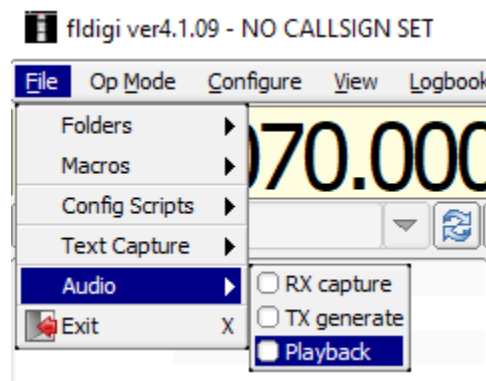
Downloading the attachment file and listening it, we can only hear garbage. So I looked to the description and the challenge name.

For this challenge, I used fldigi to decode it, because of the name of the challenge “**PSK**” the “**own transmissions**” and the “**31bps**” after some google research I find few video using this tool so I was thinking to decode the flag from the “**psk 31**” audio file with it.

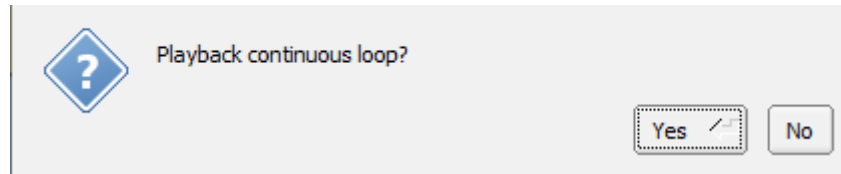
Download and install it on a windows system.

Source : http://www.w1hkj.com/files/fldigi/fldigi-4.1.09_setup.exe

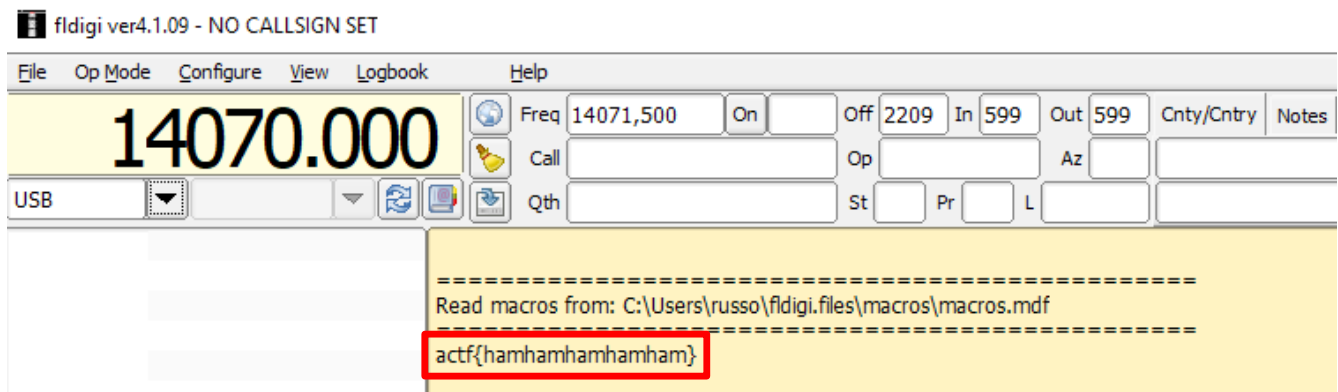
Run the tool and import the “**wav**” file on it by going into “**File > Audio > Playback**”.



Once it ask for “**Playback continuous loop?**” said “**No**”.



Then the tool will run and retrieve the flag from the “**wav**” file.



Flag : actf{hamhamhamhamham}