

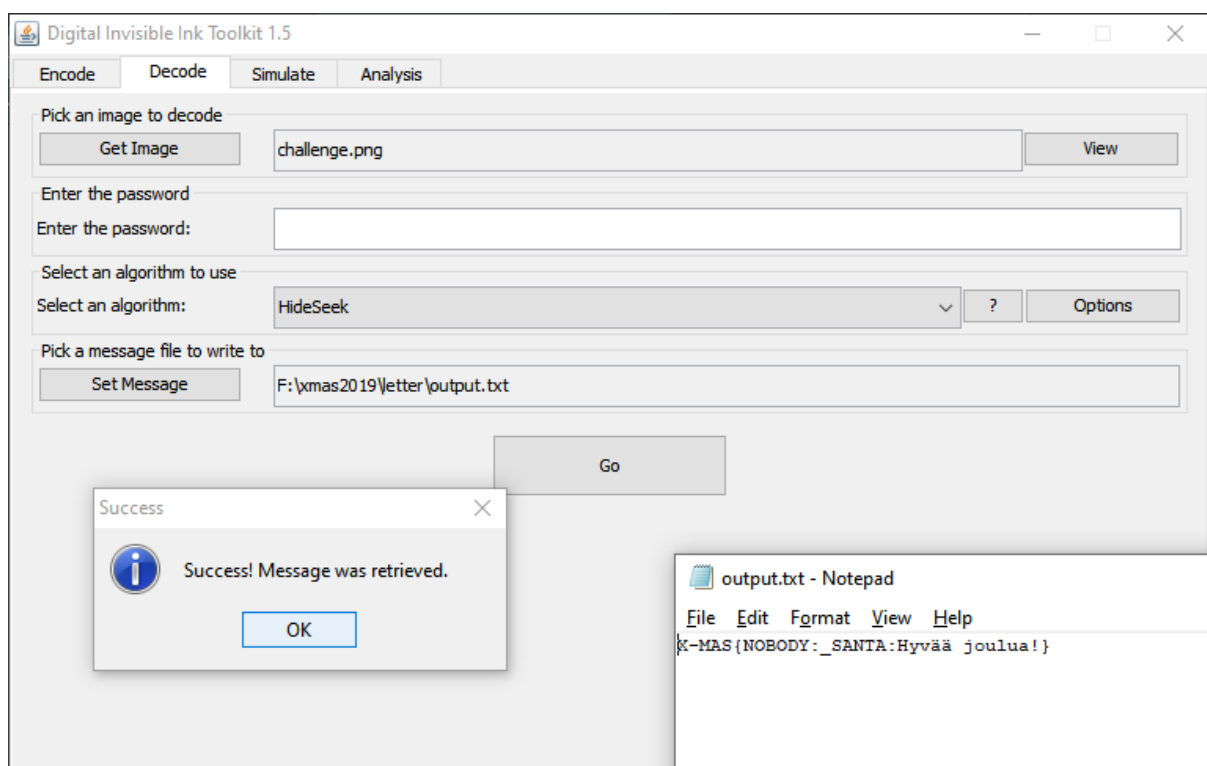
Santa's Letter (forensics)

X-MAS CTF 2019

Written by Eryk Majoch (mrmelonhokage) for ProgPilot

I downloaded the file included with the challenge (download a copy [here](#)) and tried viewing it with the [HxD Hex Editor](#), yet I couldn't find anything abnormal about it. I then reread the challenge description and realised something odd about it. Firstly, "Invisible Ink" was capitalised which stood out, and secondly "Hide&Seek" was together and not spelled out fully. I then googled: "Invisible Ink image analyser" and a .jar file called "[Digital Invisible Ink Toolkit](#)" appeared. I got it, uploaded the image from the challenge, went on decode and from a dropdown menu selected the "HideSeek" algorithm, as mentioned in the description. I then had to create a file for the decoded message, which contained the flag:

X-MAS{NOBODY:_SANTA:Hyvää joulua!}



Challenge description

Santa's letter 50 Points SOLVED ✓

It seems that Santa may have used some Invisible Ink to write this letter... he is surely playing Hide&Seek.

Files: [challenge.png](#)

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