

EUNIS 2016: You are leaking metadata!

Abstract

Asbjørn Reglund Thorsen

FSAT, Fridtjof Nansens vei 17, 0369 Oslo, a.r.thorsen@fsat.no

Keywords

Hacking, metadata, automation, collection, analyzing, making, tool, harvest, google, dorking, big-data

1. Summary

A lot of people know that a document may contain information they don't want to share with the world. But did you know that metadata in your pictures might have GPS coordinates embedded? Did you know that your powerpoint presentation might contain your username, IP addresses and other stuff that you might not want to share with the world. It's smart to check what information google, bing and others have collected about you and/or your business. It's also smart to have a *remove metadata* strategy so that you have control over your data.

2. ABOUT THE EXTENDED ABSTRACT

Each time you upload a picture, office file or something else to the internet, do you know what metadata these files contain? Do you wash the files before you upload them?

Google, Bing and other search engines indexes all commonly available web site on the internet. This presentation will in detail show how a hacker can use these search engines to harvest open data files like ppt(x), doc(x), pdf, excel, odt, gif, jpg and a lot of other files. People often do not know or think about that all files contain metadata and what information the metadata contains. Metadata may contain information like names, usernames, passwords, IP addresses to the internal network, GPS data, software versions used to create the document and much more. A hacker can use e.g Google to scope searches to pin point certain files from certain companies to harvest information. It is possible to automate such searches, and in this talk the presenter will walk you through how to make your own tool to harvest data of interest. This talk includes several live demos and will be an eye opener for people and/or companies, and will hopefully raise awareness of this topic. This talk is both for technical and non technical people.

3. REFERENCES

Reglund.com. Security blog with code examples. Retrieved February 13, 2016, from: <https://www.reglund.com/youre-leaking-data-without-knowing-it/>.

Reglund.com. Security blog with code examples. Retrieved February 13, 2016, from: <https://www.reglund.com/metadata-in-pictures-embedded-in-docx-files-2/>.

4. AUTHORS BIOGRAPHY

Asbjørn Reglund Thorsen is group leader and head of development at group Delta at FSAT, responsible for maintaining and developing applications for the national admission services in Norway. He also works as a pen-tester, speaker and is a co-founder of Awareness Security AS. He is board member of Open Web Application Security Project (OWASP) in Norway and has specialized in

web application security both as a pentester and course instructor, he also likes to play with wifi pineapple and other gadgets. Linkein profile: <https://www.linkedin.com/in/reglund>