

Leveraging Cloud Services for Large Scale Fuzzy Hashing

DS7330

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[ssDeep Term Project Repo](#)

Introduction

What is fuzzy hashing?

A type of compression function for calculating the similarity between digital files

Use cases

IoC's and malware analysis

How it works

Gather hashes and compare them to database(s) to see if the hash matches a known-bad sample

About ssDeep

It works by computing a fuzzy hash of each piece of data supplied to it and compares the hashes generating a similarity score ranging from 0 to 100

Process

- 1) Create hashes that correspond to files
- 2) Optimize chunks
- 3) Create a programmatic database on local machine (or using on-premise server) and schema
- 4) Query utilizing a matching mode technique
- 5) Spin up cloud resources (Azure Database MySQL) and replicate technique

As-a-Service

