PROBLEMS

Extraordinary amount of information on the Internet

2^{32} : 4,294,967,296 IPv4 addresses

2^{128} : 340,282,366,920,938,463,463,374,607,431,768,211,456 IPv6 addresses

Companies and researchers have problems getting and using Internet-wide data

Finding useful and right data on the Internet from this huge information is a hard process

Checking vulnerabilities of all assets that belong to a company is a big problem

Confirming and trusting an outsource request is a real challenge

ODTÜ METU

ARTIFICIAL INTELLIGENCE ENCHANCED INTERNET SEARCH ENGINE

Search in all internet connected devices

Make requests to watch for changes

List all the vulnerabilities

Classify the data based on content

Domain and hostname of the websites
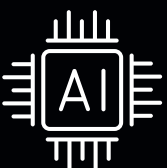
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geolocation

service & port

vulnerability

category

whois

threat data

dns

SOLUTION

Pre-process all IP addresses

Port, service, vulnerability, threat, geolocation, whois, category, dns data for each IP address

Gathering and serving data with website and API

Add sector-based IP address classification, which is not used in this type of application before

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Ulaş Şahin

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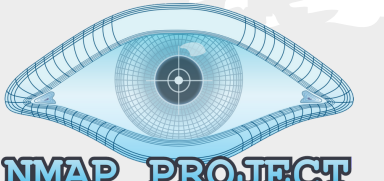
Harun Poyraz

beats   elasticsearch   logstash   django   APACHE kafka   MASS SCAN   NMAP PROJECT