Carving Malware From PCAPs

Mike Moss











this is hard =>

this is hard => abstract

Carving PE File Malware From PCAPs

Mike Moss



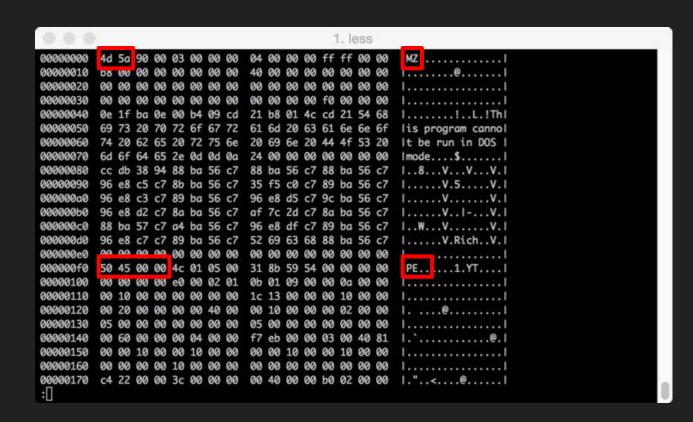
find PE files =>

find PE files => determine if malware



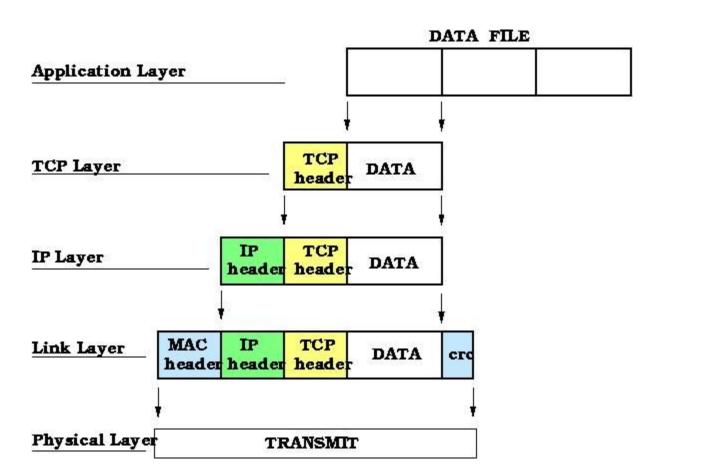
find PE files ==

find PE files == hard

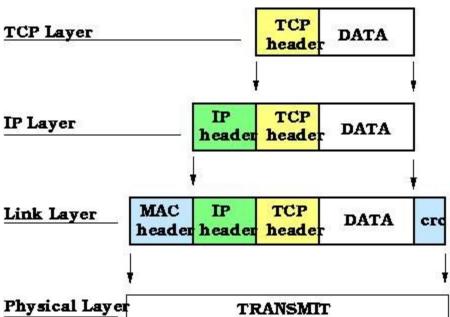


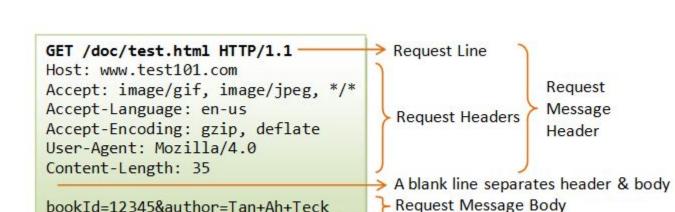
but why is this hard?

application layer



Application Layer TCP Layer DATA FILE - With extra crap TCP Layer DATA DATA





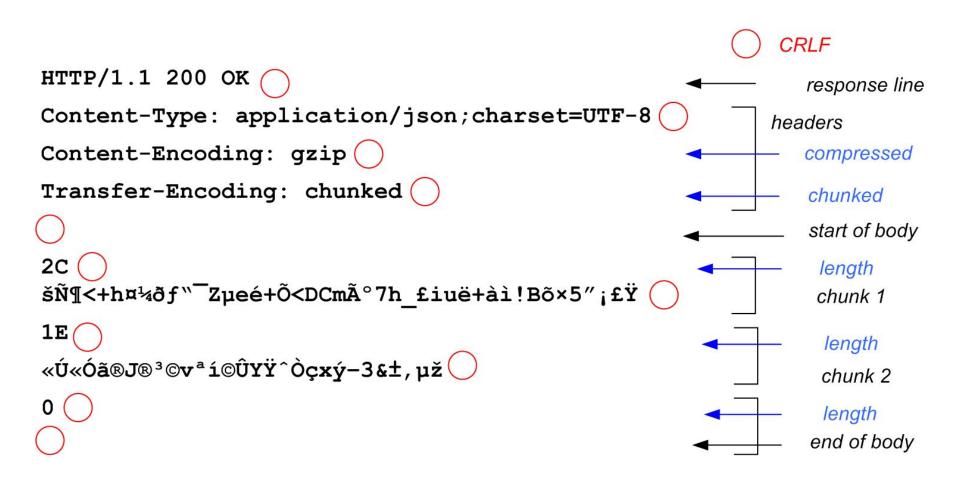


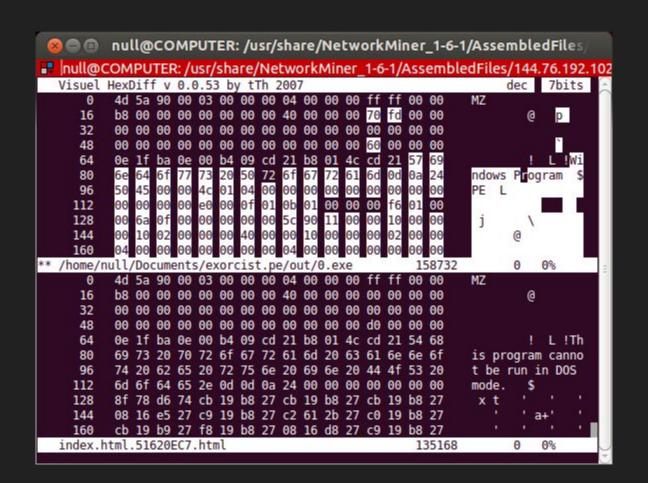
A blank line separates header & body

Response Message Body

Content-Type: text/html

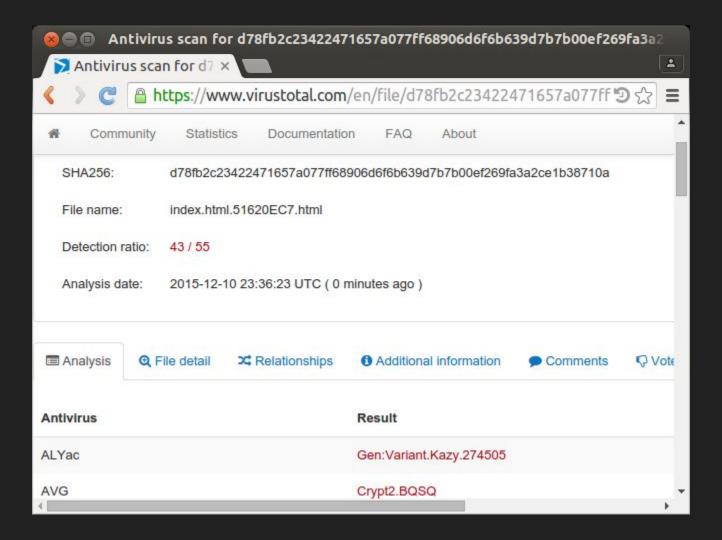
<h1>My Home page</h1>

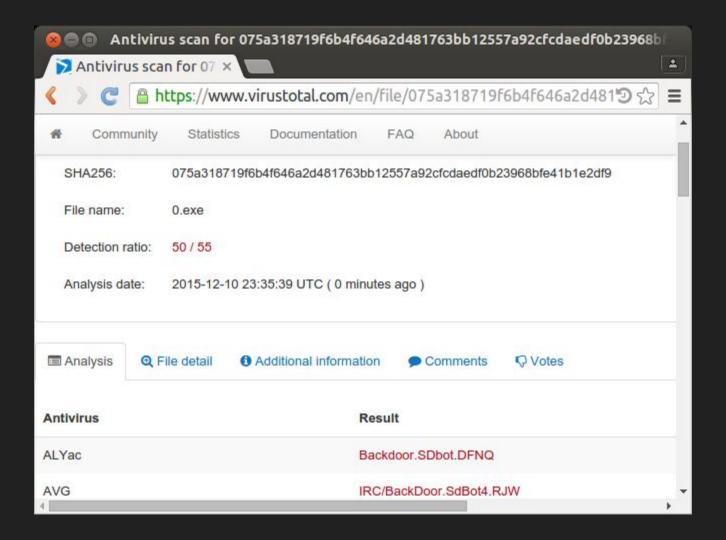




how much does this affect malware

detection?





Making Malware Look More Like Malware

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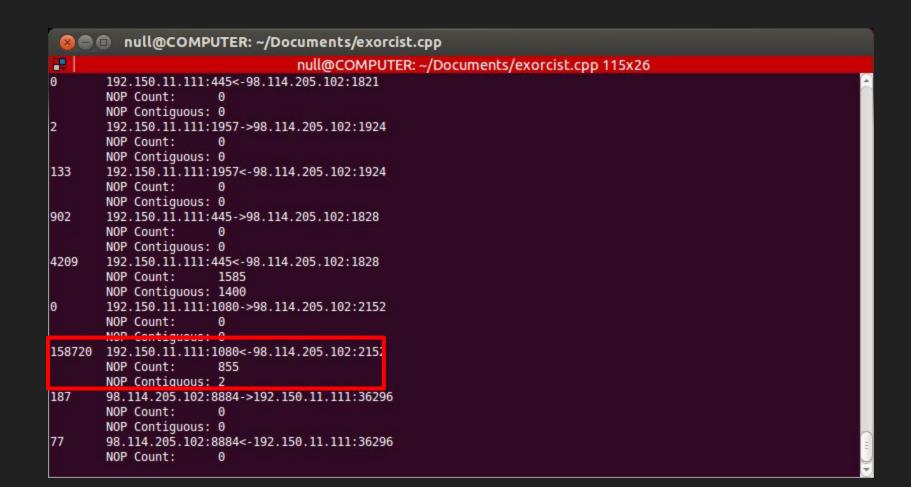
MMLMLM

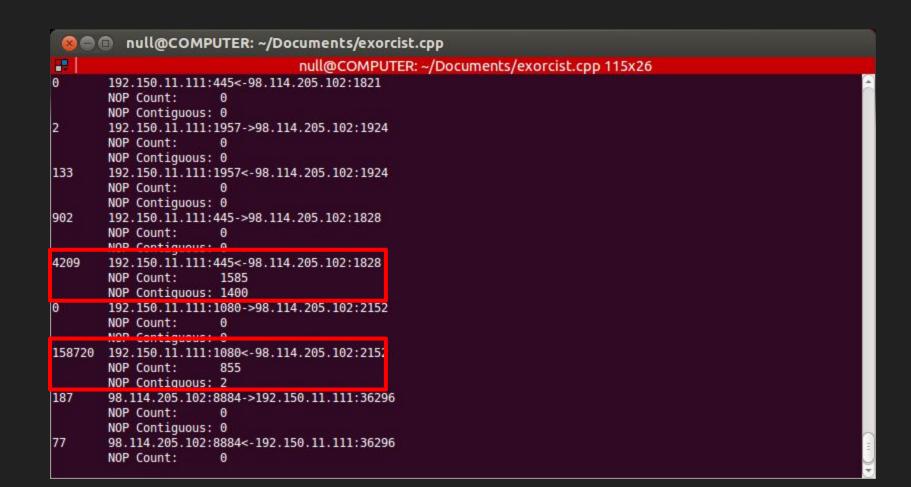
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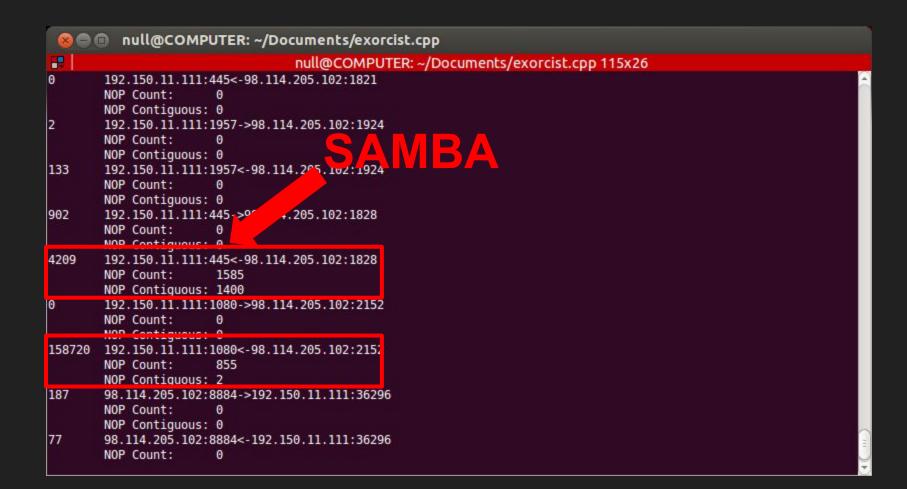
determine if malware

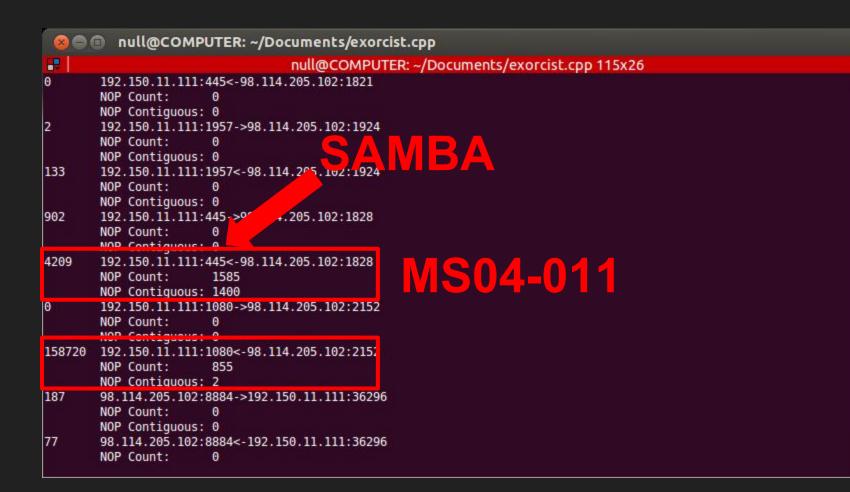
determine if malware == hard

count contiguous NOPs (look for NOP sleds)



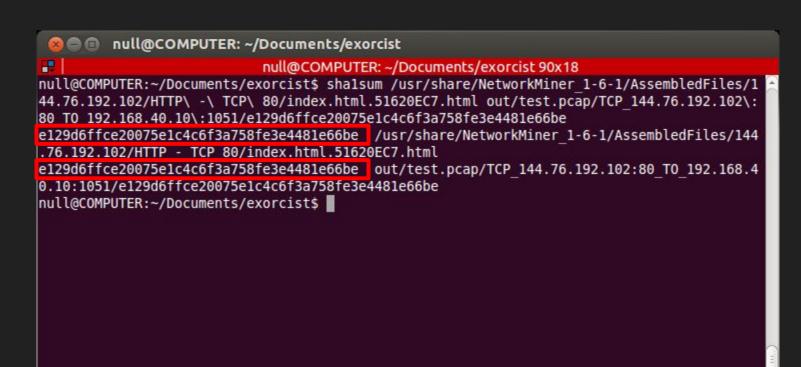






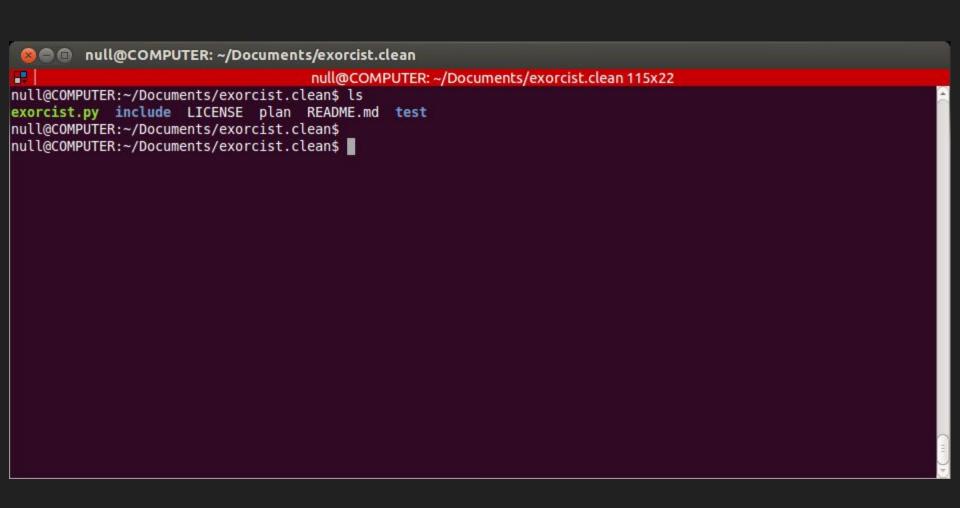
Carving HTTP Files From PCAPs

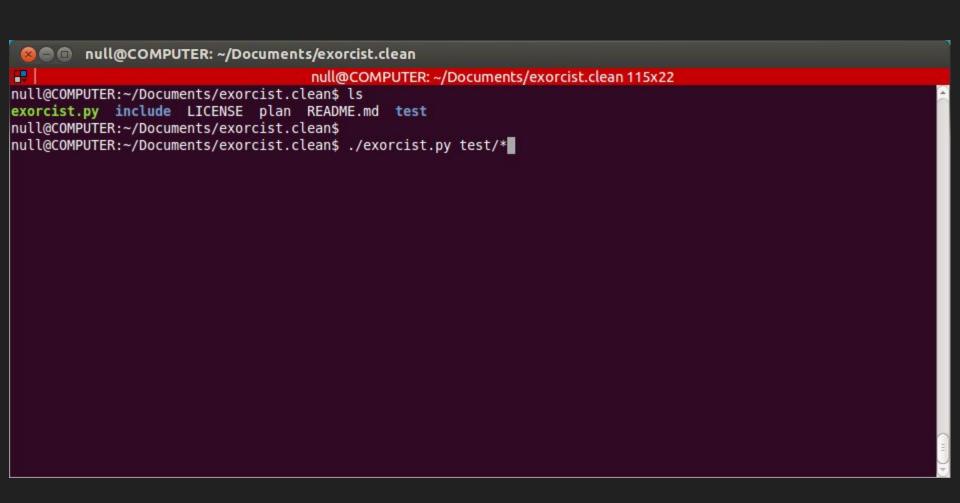
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https://github.com/mrmoss/exorcist.git ./exorcist.py pcaps...

exorcist





send files through virustotal?

add more application layer protocols?

future development:

questions?