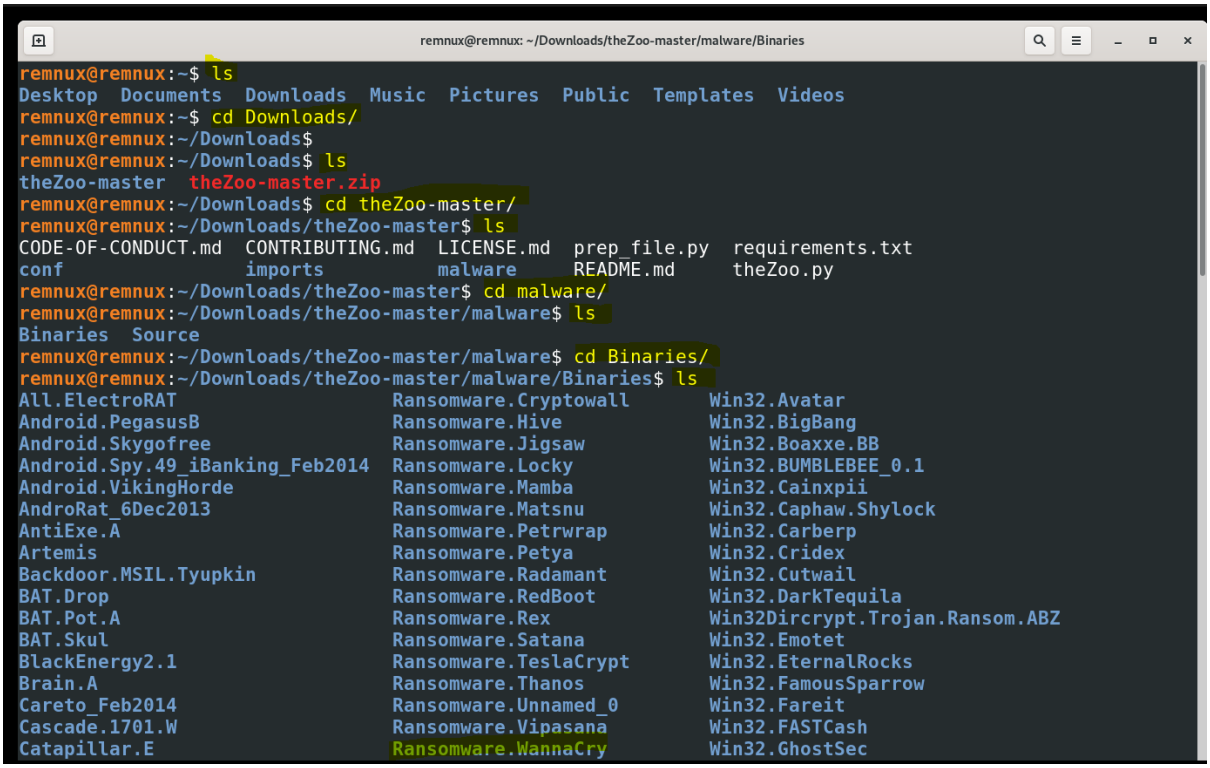
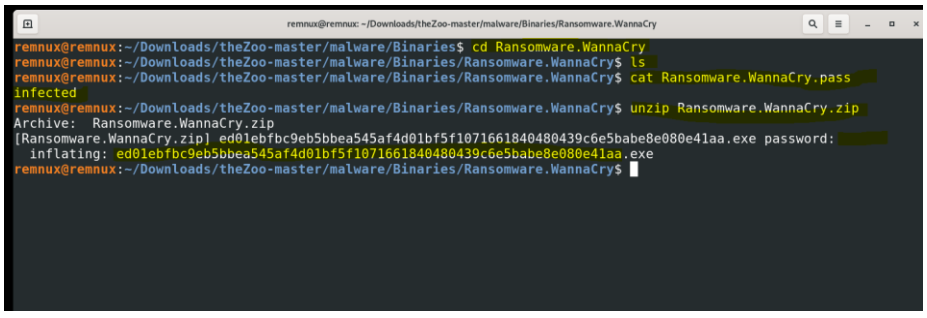
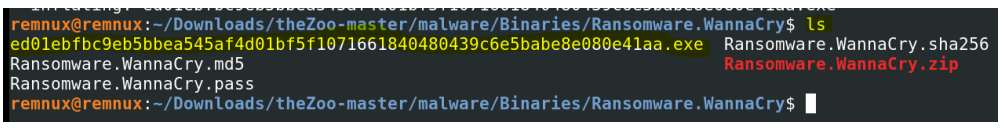
Static analysis using REMnux

- **Machine**: Launch the REMnux machine
- **Tools**: file and strings
- **Ransomware** – WannaCry
    - WannaCry is a ransomware worm that spread rapidly through across a number of computer networks in May of 2017. After infecting a Windows computer, it encrypts files on the PC's hard drive, making them impossible for users to access, then demands a ransom payment in bitcoin in order to decrypt them.
- Open the terminal and move to the location of the sample malware

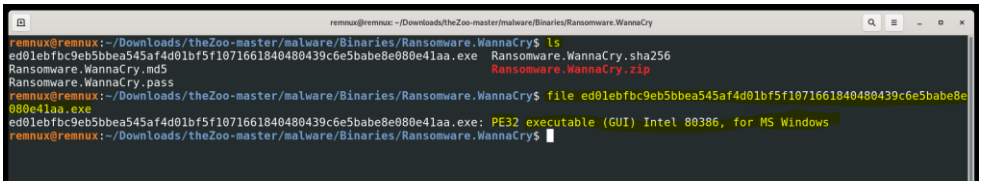


- For this activity we shall use Ransomware.WannaCry malware
- We need to unzip the password protected file Ransomware.WannCry.zip. Obtain the password and then use the password to unzip





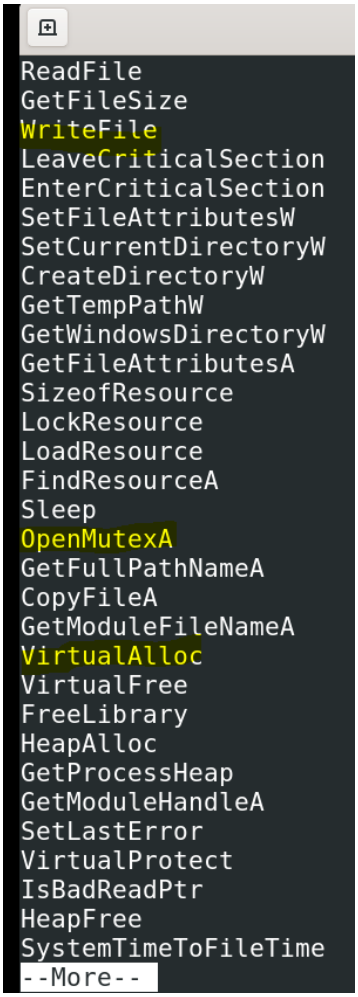
- Use the tool - file to find the file type



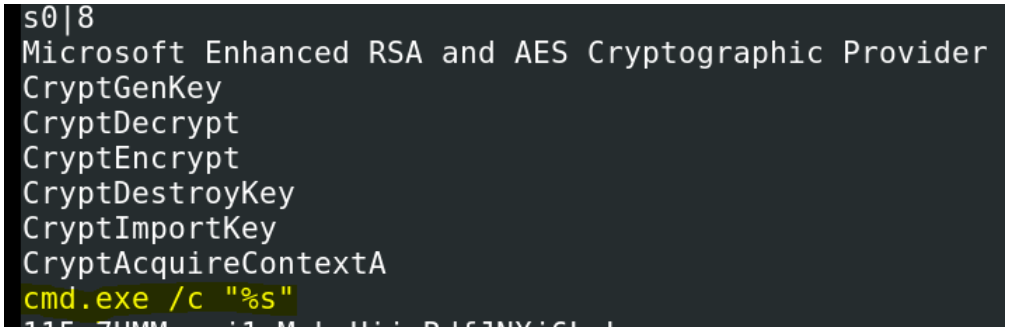
- **Observation**: it is a PE file written for 32 bit MS Windows machine

- Use the tool – strings to get further information about the malware

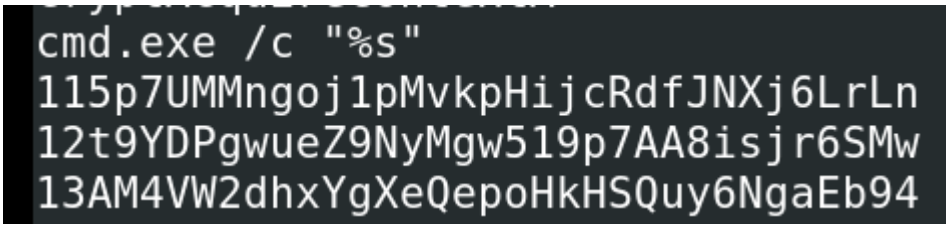
- Let us analyse the output and look for IOC (of course a guess)
- It uses many functions, may be some of them are suspicious – WriteFile, OpenMutexA, VirtualAlloc



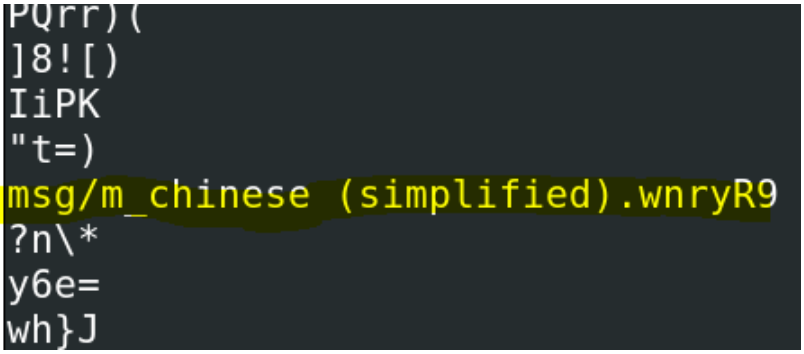
- Look if the malware is trying to open the command line



- Look for Random strings – used to confuse malware analysts



- To display messages about the ransomware attack



- Trying to get privileges as Invoker