
Cyber Fest 2022
Initiate your cyber security journey

Gitu Doang?


BOUNTY
LOTTERY HUNTER

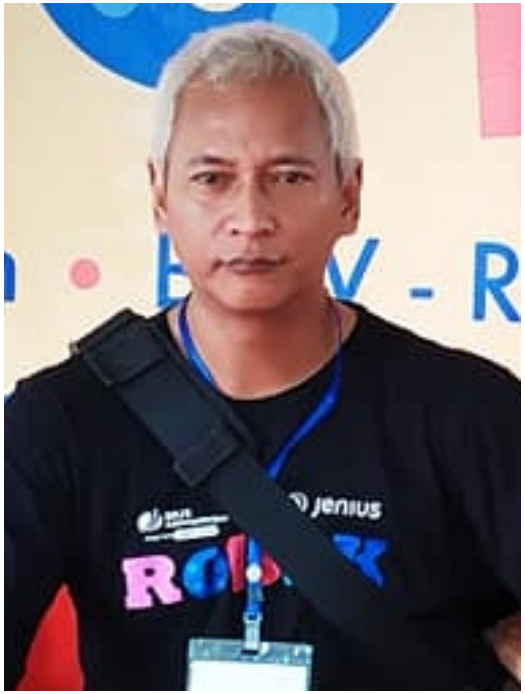
Before we Begin

This is for **Education Purpose Only**

Your Responsibility to Use any Info I give

You Believe I'm handsome

Me:~# whoami



Matias Prasodjo

Security Enthusiast Since Sometimes

OFFENSIVE security Certified Professional

KALI

Tangtungan PROJECT

GauliCdotNet Cyber Security Lab

OWASP Open Web Application Security Project

C|EH Certified Ethical Hacker

ngesec lab & ngerumpi security

DRACOS LINUX POWERFUL PENETRATION TESTING OS

Yuk Kita Mulai

Reverse Engineering Cheet Sheet

[WinDBG commands]

```
.attach PID      : Attach to a process
.detach          : End the debugging
.restart         : Restart target application
!sym             : Get state of symbol loading
.reload          : Reload symbol information
g                : Go
p                : Single step
t                : Single trace
pt               : Step to next return
tt               : Trace to next return
pc               : Step to next call
tc               : Trace to next call
pa StopAddr      : Step to address
ta StopAddr      : Trace to address
lm               : List modules
!dlls            : All loaded modules
!peb             : Display formatted view of PEB
!teb             : Display formatted view of TEB
!error 0xN       : Display error
!address         : Display information about memory
~                : List threads
bl               : List breakpoints
bc               : Cancel breakpoints
be               : Enable breakpoints
bd               : Disable breakpoints
bp [Addr]        : Set breakpoint at the address
bm SymPattern    : Set breakpoint at the symbol
ba [r|w|e] Addr  : Set breakpoint on Access
k                : Display call stack
r                : Dump all registers
u                : Disassemble
dN               : Display where N:
                   a: asci chars   | u: Unicode char
                   b: byte + ascii | w: word
                   W: word + ascii | d: dword
                   c: dword + asci | q: qword
                   b: bin + byte   | d: bin + dword
eN Addr Value    : Edit memory
.writemem f A S  : Dump memory
                   f: file name
                   A: Address
                   S: Size (Lx)
```

dec	hex	char	dec	hex	char	dec	hex	char	dec	hex	char
0	0x00	NUL	32	0x20	SPACE	64	0x40	@	96	0x60	`
1	0x01	SOH	33	0x21	!	65	0x41	A	97	0x61	a
2	0x02	STX	34	0x22	"	66	0x42	B	98	0x62	b
3	0x03	ETX	35	0x23	#	67	0x43	C	99	0x63	c
4	0x04	EOT	36	0x24	$	68	0x44	D	100	0x64	d
5	0x05	ENQ	37	0x25	%	69	0x45	E	101	0x65	e
6	0x06	ACK	38	0x26	&	70	0x46	F	102	0x66	f
7	0x07	BEL	39	0x27	'	71	0x47	G	103	0x67	g
8	0x08	BS	40	0x28	(	72	0x48	H	104	0x68	h
9	0x09	TAB	41	0x29	)	73	0x49	I	105	0x69	i
10	0x0A	LF	42	0x2A	*	74	0x4A	J	106	0x6A	j
11	0x0B	VT	43	0x2B	+	75	0x5B	K	107	0x7B	k
12	0x0C	FF	44	0x2C	,	76	0x5C	L	108	0x7C	l
13	0x0D	CR	45	0x2D	-	77	0x5D	M	109	0x7D	m
14	0x0E	SO	46	0x2E	.	78	0x5E	N	110	0x7E	n
15	0x0F	SI	47	0x2F	/	79	0x5F	O	111	0x7F	o
16	0x10	DLE	48	0x30	0	80	0x50	P	112	0x70	p
17	0x11	DC1	49	0x31	1	81	0x51	Q	113	0x71	q
18	0x12	DC2	50	0x32	2	82	0x52	R	114	0x72	r
19	0x13	DC3	51	0x33	3	83	0x53	S	115	0x73	s
20	0x14	DC4	52	0x34	4	84	0x54	T	116	0x74	t
21	0x15	NAK	53	0x35	5	85	0x55	U	117	0x75	u
22	0x16	SYN	54	0x36	6	86	0x56	V	118	0x76	v
23	0x17	ETB	55	0x37	7	87	0x57	W	119	0x77	w
24	0x18	CAN	56	0x38	8	88	0x58	X	120	0x78	x
25	0x19	EM	57	0x39	9	89	0x59	Y	121	0x79	y
26	0x1A	SUB	58	0x3A	:	90	0x5A	Z	122	0x7A	z
27	0x1B	ESC	59	0x3B	;	91	0x5B	[	123	0x7B	{
28	0x1C	FS	60	0x3C	<	92	0x5C	\	124	0x7C	|
29	0x1D	GS	61	0x3D	=	93	0x5D	]	125	0x7D	}
30	0x1E	RS	62	0x3E	>	94	0x5E	^	126	0x7E	~
31	0x1F	US	63	0x3F	?	95	0x5F	_	127	0x7F	DEL

[Registers]

```
x86
EAX       :    return value       |   ESP       :    top of stack
ECX       :    loopcounter, param |   EBP       :    frame pointer
EDX       :    params, data, math |   ESI       :    source
EBX       :    generic            |   EDI       :    destination
EIP       :    instruction point  |
Arguments :    stack (push)

x64
RAX       :    return value       |   RCX       :    argument 1
RDX       :    argument 2         |   R8        :    argument 3
R9        :    argument 4         |   R10:R11   :    for
syscall/sysret
R12:15    :    Must be preserved  |   RDI       :    Must be preserved
RSI       :    Must be preserved  |   RBX       :    Must be preserved
RSP       :    Stack pointer      |

0x1234567812345678
  ================ rax (64 bits)
          ======== eax (32 bits)
              ====  ax (16 bits)
              ==    ah (8 bits)
                ==  al (8 bits)
```

[IDA Pro shortcuts]

```
Navigation:
Enter     :    Jump to operand    |   ESC       :    Jump to previous position
G         :    Go to address      |   Ctrl+L    :    Jump by name
CTRL+P    :    Jump to function   |   X         :    xref
CTRL+E    :    Jump to entry point|

Search
Alt+      :    Next code          |   Ctrl+D    :    Next data
Alt+I     :    Immediate value    |   Ctrl+I    :    Next immediate value
Alt+T     :    Text               |   Ctrl+T    :    Next text
Alt+B     :    Sequence of bytes  |   Ctrl+B    :    Next sequence of bytes

Graphing
F12       :    Flow chart         |   Ctrl+F12  :    Function calls

Subviews
Shift+F4  :    Name               |   Shift+F3  :    Functions
Shift+F12 :    Strings            |   Shift+F7  :    Segments

Debugger
F9        :    Start              |   Ctrl+F2   :    Stop process
F7        :    Step into          |   F8        :    Step over
Ctrl+F7   :    Run until return   |   Ctrl+Alt+B:    List breakpoints

Other
C         :    Code               |   D         :    Data
U         :    Undefine           |   N         :    Rename
Shift+;   :    Enter comment      |   ;         :    Enter repeatable comment
P         :    Create function    |   Alt+P     :    Edit function
E         :    Set function end   |   Y         :    Declare function type
M         :    Member enumeration |   Shift+F2  :    Run script
```

[Immunity Debugger shortcuts]

```
F2        :    Set breakpoint     |   F9        :    run
F7        :    Step into          |   F8        :    Step over
Ctrl+F9   :    Execute till ret   |   F12       :    Pause
Alt+B     :    Open breakpoint wi |   Alt+C     :    Open CPU window
Alt+E     :    Open module window |   Alt+L     :    Open log window
Alt+M     :    Open memory window |   Alt+O     :    Open option window
```

[ASM]

```
MOV  : Move (copy)
XCHG : Exchange
PUSH : Push onto stack
POP  : Pop from stack
ADD  : Add
SUB  : Subtract
DIV  : Divide
IDIV : Signed integer divide
MUL  : Multiply
IMUL : Signed integer multiply
INC  : Increment
DEC  : Decrement
SAL  : Shift left
SAR  : Shift right
ROL  : Rotate left
ROR  : Rotate right
NOT  : Invert each bit
AND  : Logical and
OR   : Logical or
XOR  : Logical exclusive or
SHL  : Shift logical left
SHR  : Shift logical right
NOP  : No operation (0x90)
INT  : Interrupt
CALL : Call subroutine
JMP  : Jump
JE   : Jump if equal
JZ   : Jump if zero
JCXZ : Jump if CX zero
JNE  : Jump if not equal
JNZ  : Jump if not zero
JEC%: Jump if ECX zero
RET  : Return from subroutine
JA   : Jump if above
JAE  : Jump if above or equal
JB   : Jump if below
JBE  : Jump if below or equal
JNA  : Jump if not above
JNAE : Jump if not above or equal
JNB  : Jump if not below
JNBE : Jump if not below or equal
JC   : Jump if carry
JNC  : Jump if not carry
JG   : Jump if greater
JGE  : Jump if greater or equal
JL   : Jump if less
JLE  : Jump if less or equal
JNG  : Jump if not greater
JNGE : Jump if not greater or equal
JNL  : Jump if not less
JNLE : Jump if not less or equal
JO   : Jump if overflow
JNO  : Jump if no overflow
JS   : Jump if sign (= negative)
JNS  : Jump if no sign (= positive)
```

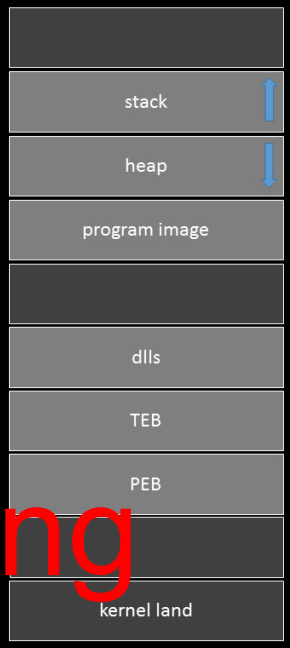
[IDA Pro plugins]

```
IDA Scope
Diaphora
IDA Tool Bag
IDA Signsrch
```

[WinDBG plugin]

```
pykd
```

[Win32 memory map]



[Python]

```
>>> a="A"
>>> print ord(a)
65
>>> print hex(ord(a))
0x41

>>> b=0x42
>>> print str(b)
66
>>> print chr(b)
B

>>> c="\x41"
>>> print c
A
>>> print ord(c)
65

>>> c="\x90"
>>> print c
▒
>>> import sys
>>> sys.stdout.write(c)
▒

>>> int("0x100", 16)
256
```

```
#XOR
>>> d="\xBE"
>>> x="\xFF"
>>> print hex(ord(d)^ord(x))
0x41
>>> print chr(ord(d)^ord(x))
A

def rol32(num, count):
  num1 = (num << count) & 0xFFFFFFFF
  num2 = (num >> (0x20-count)) &0xFFFFFFFF
  return num1 | num2

def ror32(num, count):
   num1 = (num >> count) & 0xFFFFFFFF
   num2 = (num << (0x20-count)) &0xFFFFFFFF
   return num1 | num2

def ror8(num, count):
   num1 = (num >> count) & 0xFF
   num2 = (num << (0x08 - count)) & 0xFF
   return num1 | num2

def rol8(num, count):
   num1 = (num << count) & 0xFF
   num2 = (num >> (0x08 - count)) & 0xFF
   return num1 | num2

def shl(dest, count):
   return hex(dest << count)

def shr(dest, count):
   return hex(dest >> count)
```

Reverse engineering for malware analysis cheat sheet

by @r00tbsd

Apa Tahap Pertama Dalam Pentest ???

Introduction

Introduction
Part1
Part 2
Part3
Conclusion

Security itu bukan tentang tools tapi tentang PROSES

Tools akan membantu tapi cara terbaik dan efektif untuk melakukan pentest adalah memahami dan mengikuti prosesnya

PPT

Introduction
Part1
Part 2
Part3
Conclusion

People
Process
Technology

People

Introduction
Part1
Part2
Part3
Conclusion

- Haratis itu indah
- Hi Tech
- Dunia Digital == Kehidupan Nyata
- Selalu mencari yang mudah
- Pelupa

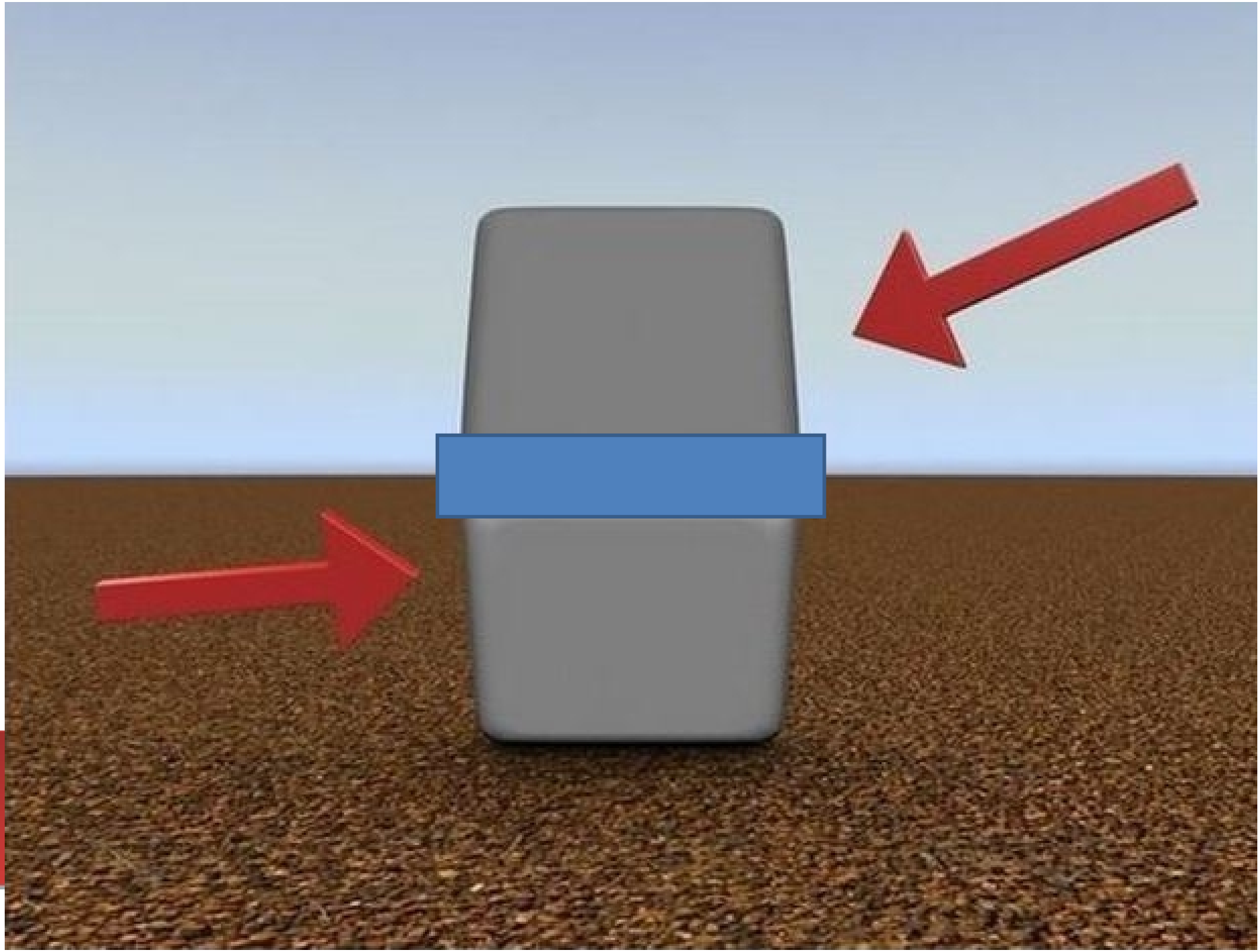
Pay Attention!!!

Menu

- Introduction
- Part1
- Part2
- Part3
- Conclusion

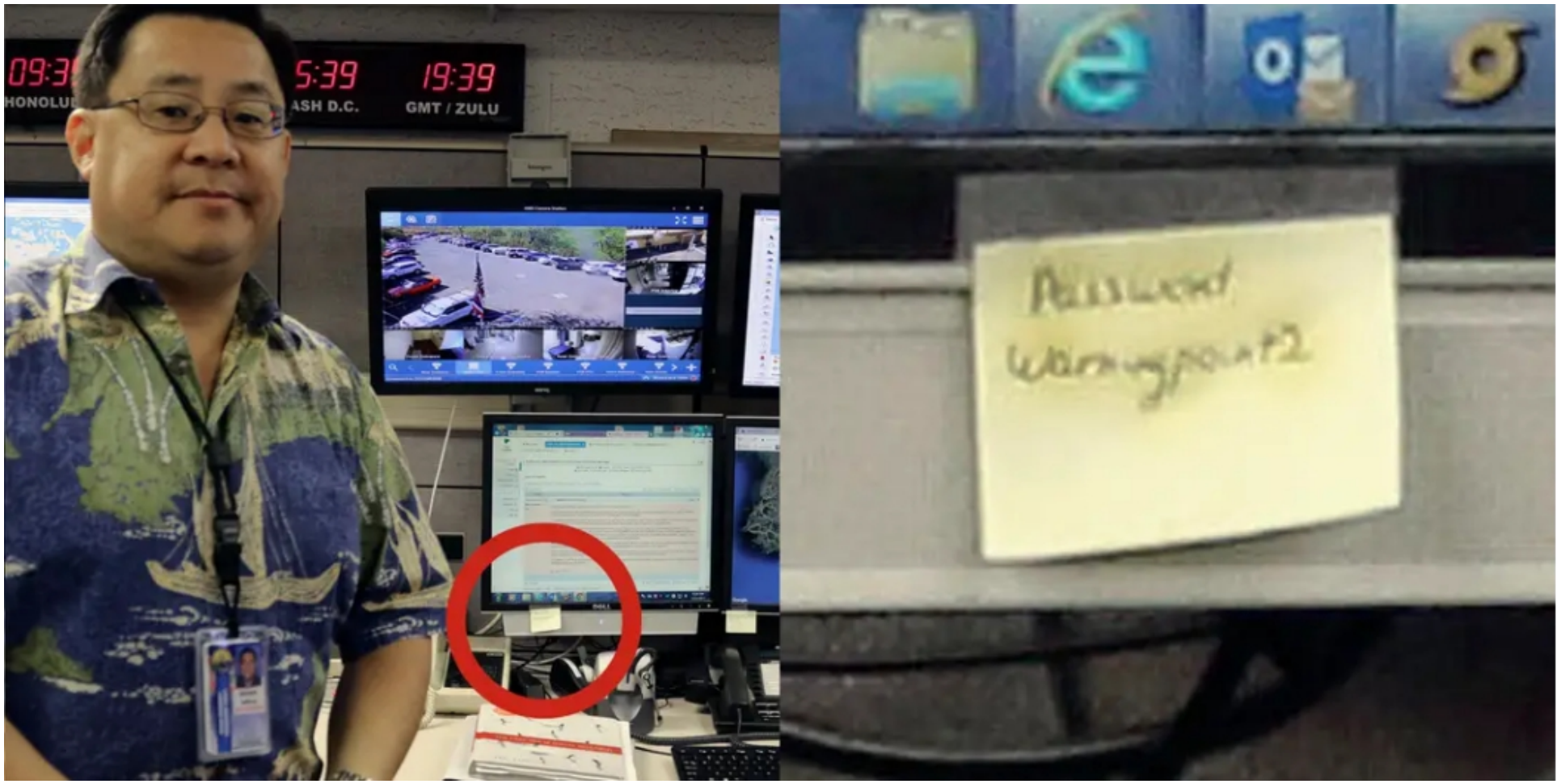
Apa yang kamu lihat?

Dirty Mind or Dirty Imagination?

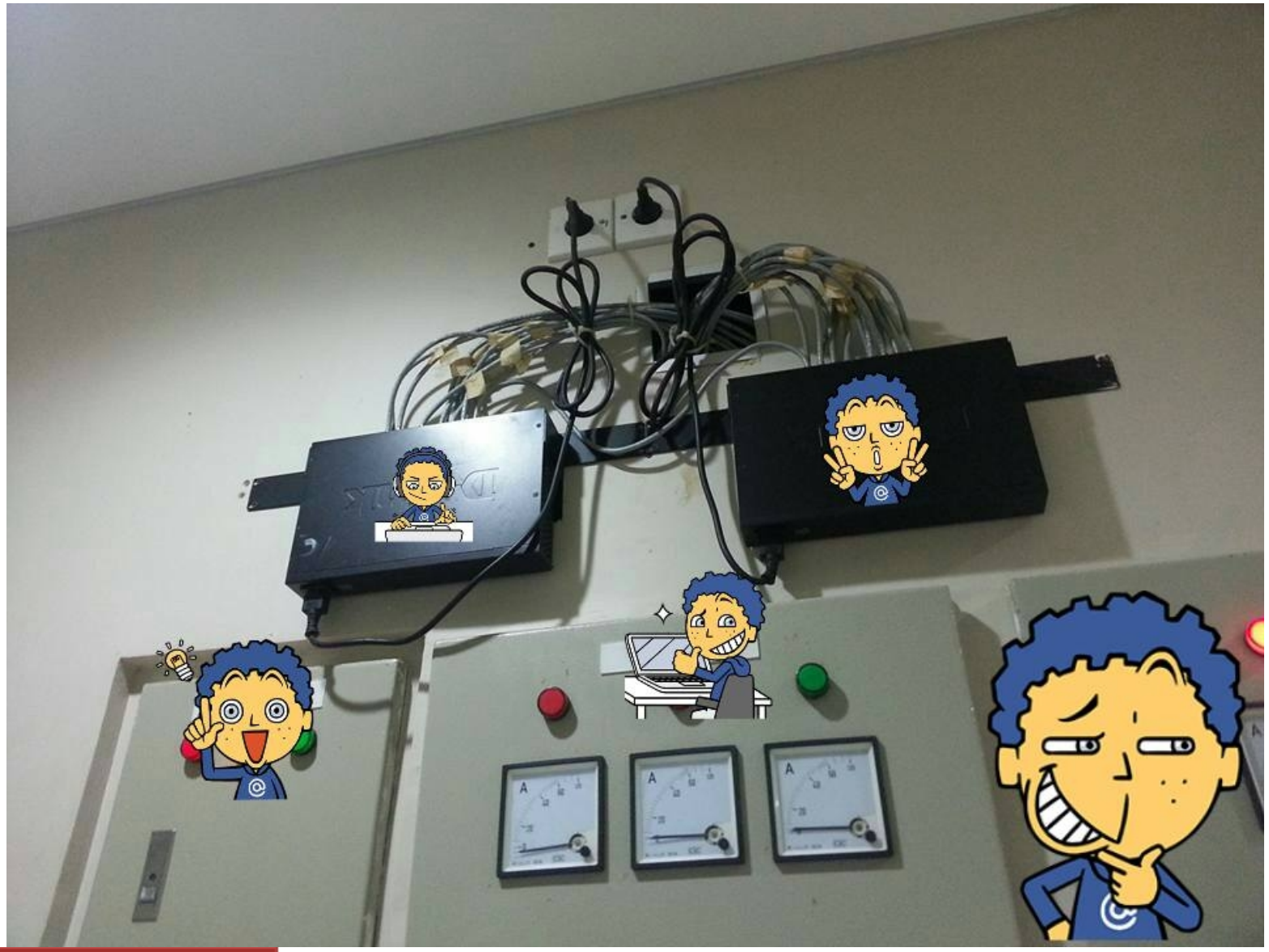



These are the same sized cars.
Can't you trust me? Rotate your phone. This is called as a ponzo illusion.

Cari Apa Yang Menarik



Cari Apa Yang Menarik



Cari Apa Yang Menarik

Guest Profile

Arrival	**16-Mar-20**	C/I Time	14:00	Room Type	**DLX**	MICE Folio#	
Room Night	**1**	C/I Limit Time	18:00	Upgrade to	**DLX**	Folio	[redacted]
Departure	**17-Mar-20**	C/O Time	12:00	Block		History	
Status	**I**	Actual C/I	22:46	Feature		Total Stays	**11**
Member		Actual C/O	00:00	Room	**1215**	Total Nights	**19**
Guest Profile							
Name	[redacted]						
Company	[redacted]						
Pax	**2**	Date of Birth	[redacted]	Payment	**CASH**	Currency	**IDR**
Address	[redacted]			Credit Limit	**0**		
				Card No			
Phone				Valid Date	**30-Dec-99**	Voucher	
Contact				Segment	**COR**	Nationality	**INA**
Email	.			Source	[redacted]		
ID	[redacted] **1**			Origin		Destination	[redacted]
Rate Code	[redacted]	Room Rate	**810,000**	Arrive By			
Extra Bed	**0**	Discount	-	Depart By			
Check In Remark				**Cashier Remark**			
ETA 11 PM				PA RBF RATE 810000			
Created By	[redacted]	Last edited by	[redacted]	C/I by	[redacted]	C/O by	
Complains							

Berburu Data

Berburu Data Dimana?

Shodan
Censys
ZoomEye
Dll

Search Engine

Power Searcher

PlayGround

SSL

SSL Certificate

Certificate

Serial Number 1782

Subject Information:

Common Name (CN) .spotify.net
Country Code (CC) SE
Organization (O) Spotify
Organizational Unit (OU) Spotify Operations

Issuer Information:

Common Name (CN) Spotify LOM CA
Country Code (CC) SE
Organization (O) Spotify
Organizational Unit (OU) Spotify Operations

Valid From Mar 18 20:20:15 2013 GMT
Valid To Feb 20 20:20:15 2018 GMT

Option

- (•) Generate Certificate Signing Request (CSR)
- ( ) Upload Server Certificate
- ( ) Download SSL Certificate

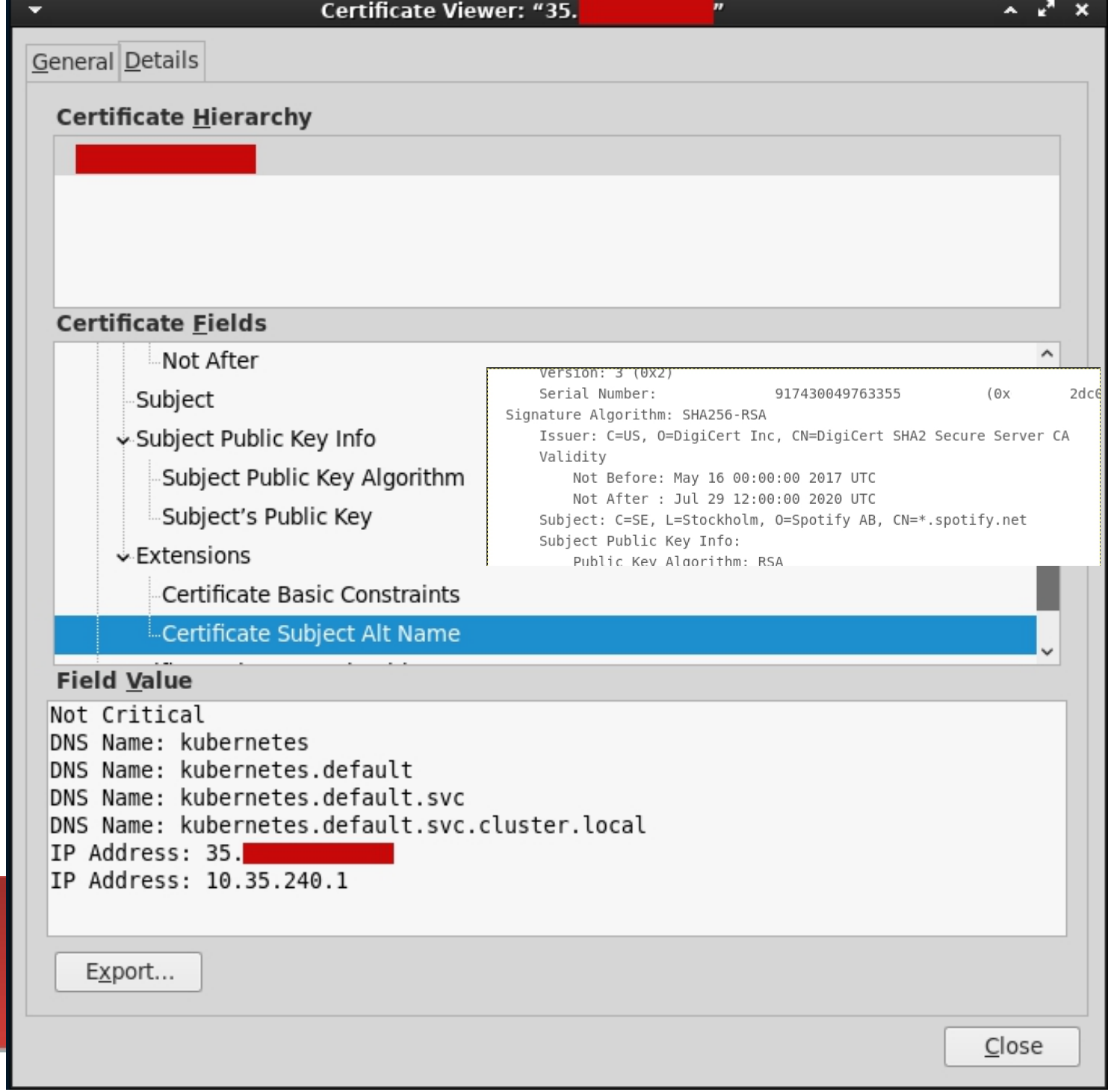
Next

Custom SSL Certificate Signing Certificate

Option

- (•) Upload Custom SSL Certificate Signing Certificate
- ( ) Download Custom SSL Certificate Signing Certificate
- ( ) Delete Custom SSL Certificate Signing Certificate

Next


Certificate Viewer: "35. [redacted]"
General
Details
Certificate Hierarchy
[redacted]
Certificate Fields
Not After
Subject
Subject Public Key Info
Subject Public Key Algorithm
Subject's Public Key
Extensions
Certificate Basic Constraints
Certificate Subject Alt Name
Version: 3 (0x2)
Serial Number: 917430049763355 (0x 2dc6
Signature Algorithm: SHA256-RSA
Issuer: C=US, O=DigiCert Inc, CN=DigiCert SHA2 Secure Server CA
Validity
Not Before: May 16 00:00:00 2017 UTC
Not After : Jul 29 12:00:00 2020 UTC
Subject: C=SE, L=Stockholm, O=Spotify AB, CN=*.spotify.net
Subject Public Key Info:
Public Key Algorithm: RSA
Field Value
Not Critical
DNS Name: kubernetes
DNS Name: kubernetes.default
DNS Name: kubernetes.default.svc
DNS Name: kubernetes.default.svc.cluster.local
IP Address: 35.[redacted]
IP Address: 10.35.240.1
Export...
Close

| 0 | "guc3-accesspoint-a-pj3x.ap.spotify.com"
| 1 | "guc3-accesspoint-a-kjpx.ap.spotify.com"
| 2 | "guc3-accesspoint-a-7tjc.ap.spotify.com"
| 3 | "guc3-accesspoint-a-09gf.ap.spotify.com"
| 4 | "guc3-accesspoint-a-n6sz.ap.spotify.com"
| 5 | "guc3-accesspoint-a-9v2n.ap.spotify.com"
| 6 | "gew1-accesspoint-a-3t7r.ap.spotify.com"
| 7 | "gew1-accesspoint-a-s425.ap.spotify.com"
| 8 | "gew1-accesspoint-a-cjsm.ap.spotify.com"

Cari Apa Yang Menarik

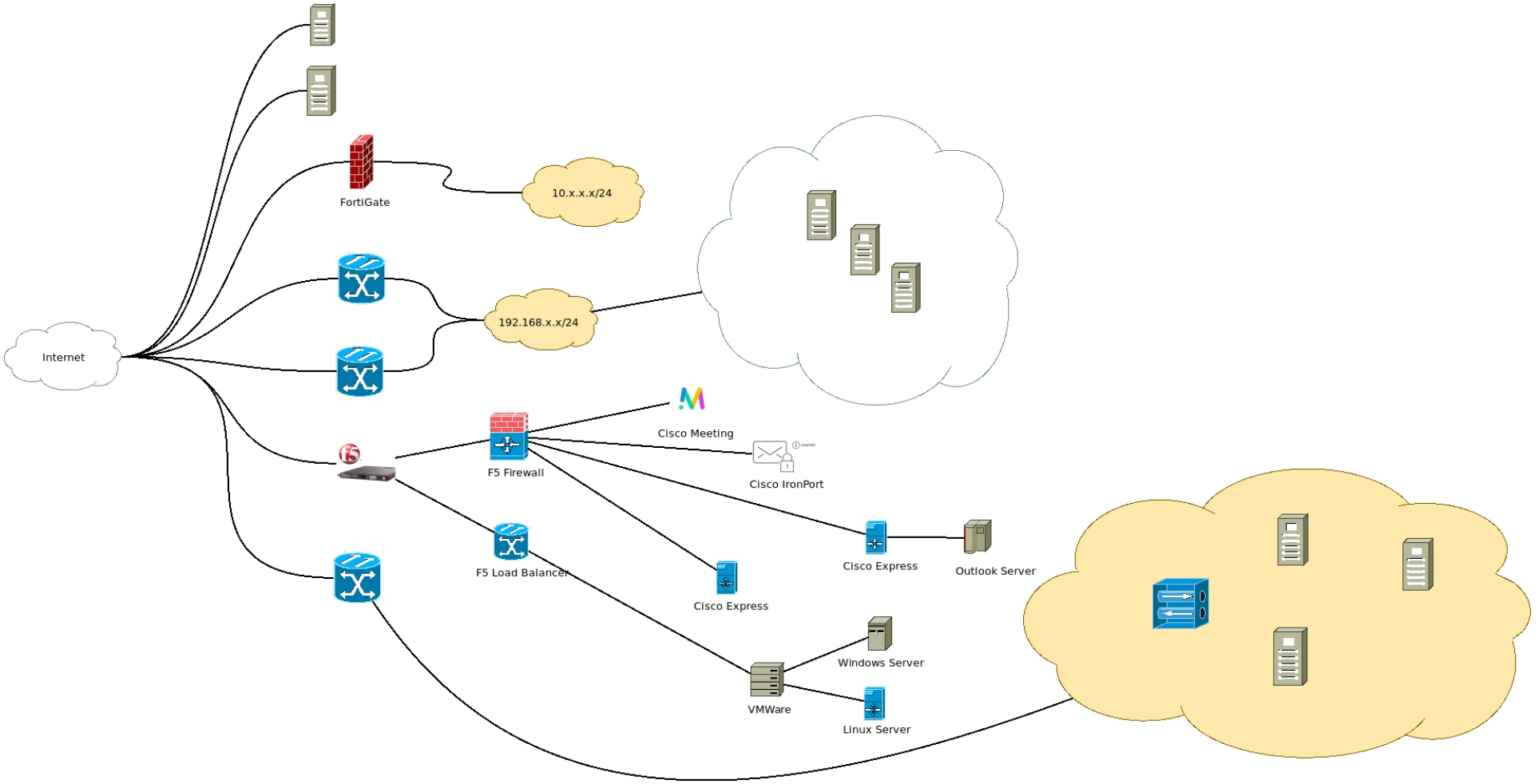
https://www.zoomeye.org/doc?Thechannel=user
https://support.censys.io/hc/en-us/articles/4402277585300-Search-2-0-Quick-Start-Guide

Hacker Search Engine

Cari Dimana

```
"_id" : ObjectId("                                    "),
"_cls" : "User.User",
"username" : "                cloudappsecurity.com",
"email" : "                cloudappsecurity.com",
"password" : "pbkdf2_
"is_active" : true,


"permissions" : {},
"is_staff" : true,
"observer" : false,
"staff_roles" : {
    "internal" : true
```

Tebak Topologi

KISS

Keep It Simple Stupid

Thank You!