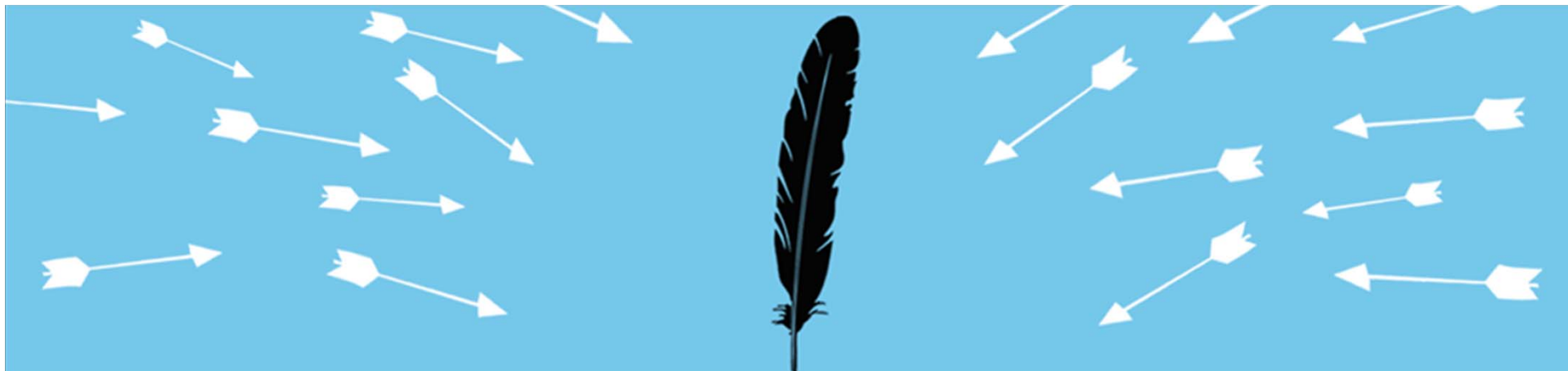




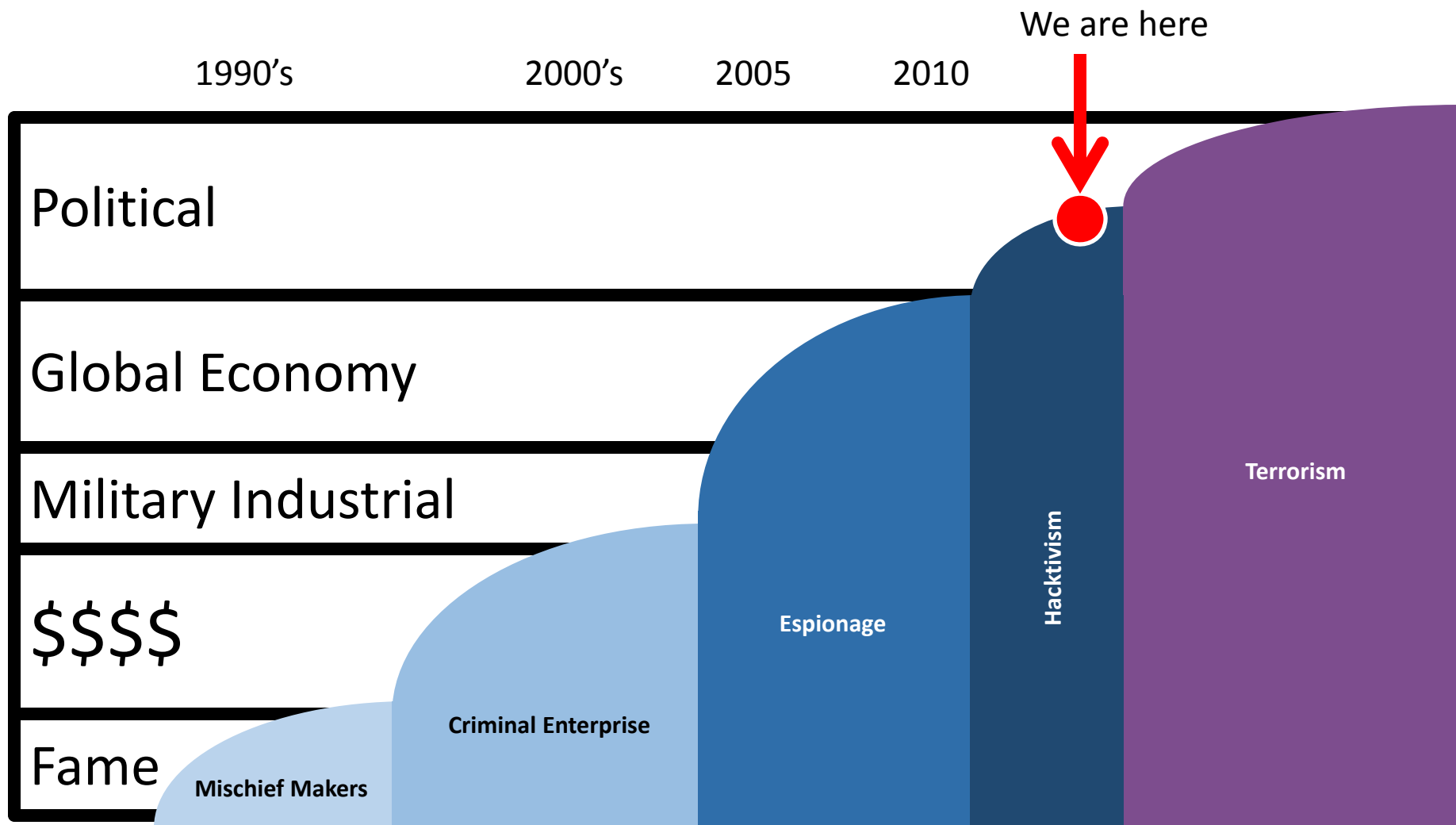
Modern Cyberthreats: The Changing Face Behind the Keyboard

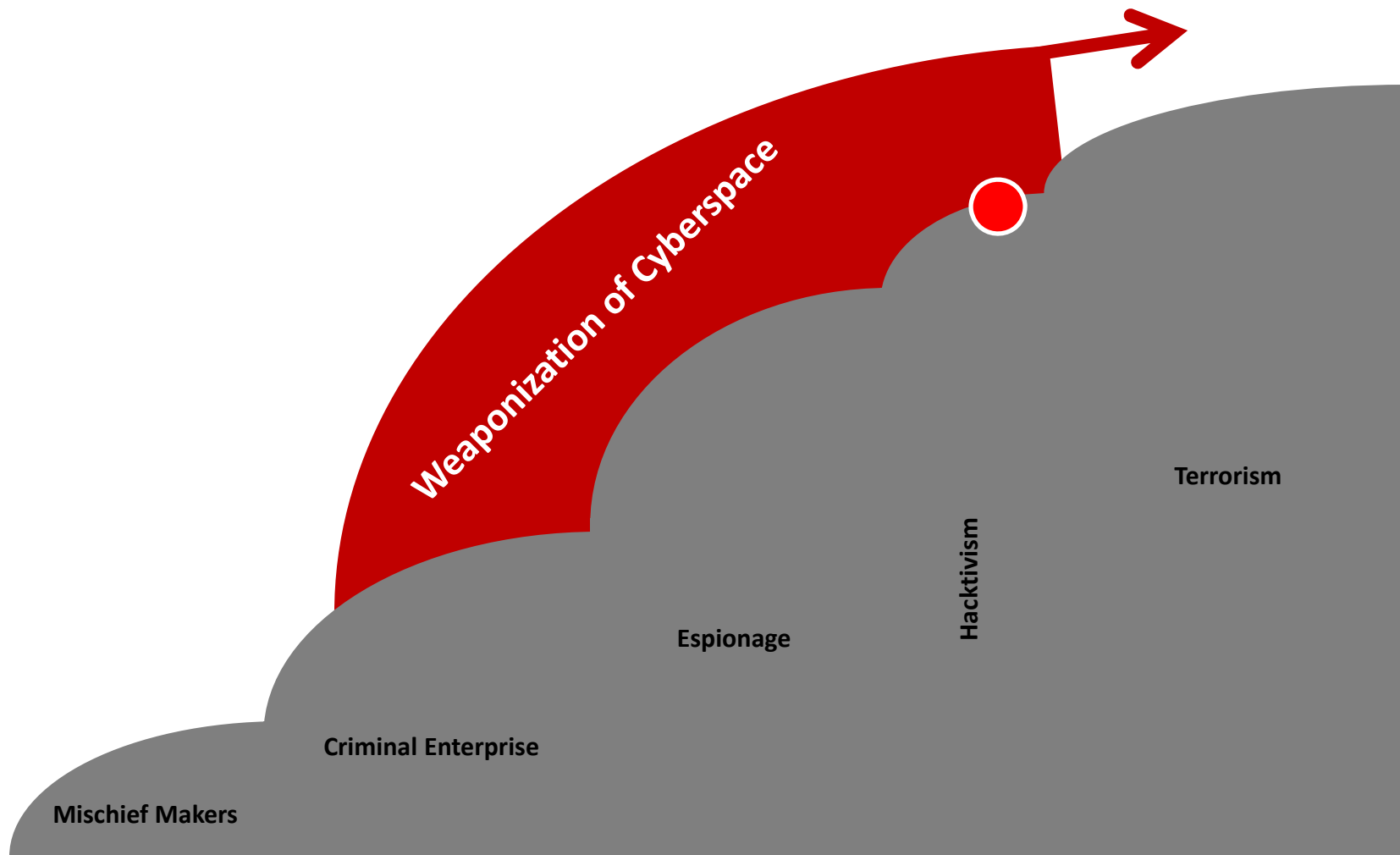
Greg Hoglund
HBGary, Inc.

Session ID: EXP-202

Session Classification: Intermediate

RSACONFERENCE2012





Eleonore Exp

Sql Poizon v1.1 - Sqli Exploit Scanner Tool (By: p0!z0nEr)

Search Hunter Sqli Crawler Injection Builder Browser About Credi

برنامج الجهاد الإلكتروني ٢

الهدف: يتم تحديث الهدف تلقائيًا

موفر الخدمة:

نجاح: 0
فشل: 0

سرعة الهجوم: ضعيفة / متوسطة / قوية

www.Al-jinan.net

ملاحظات هامة:
١- كل ما عليك فعله هو اختيار السرعة وضغط زر هجوم ، سيتم تسجيل نقطة لكل ساعة تشارك فيها بالهجوم.
٢- استخدم موفر الخدمة إذا كان الموقع محظور من خدمة الانترنت لديك.
أي نجاح فهذا يعني أن الموقع عدد الهجمات التي لم يستجب

عدد نقاطك

GeckoCode

Software you need, and operate at (yes we are black hat friendly!)

Our Price:

UK, CH	\$175
DE, AT, ES	\$160
DK, NO, SE	\$155
BE, FR, IT	\$150
CA, USA	\$130
BR, AR	\$60
Mix w/o asia	\$30
Mix	\$20
Asia	\$10
Euromix	\$130



Installs Dealer.com

Support #1: ICQ 556752679 Support #2: ICQ 590674786 Support #3:

Poison Ivy Polymorphic Online Builder



FRAGUS

Status	Exploit	Exploited	Last
on	NDAC (RDS)	0 (0%)	
on	WSF SetSlice	0 (0%)	
on	Opera 9-9.20	0 (0%)	
on	XML Core Services	0 (0%)	
off	empty	0 (0%)	
off	empty	0 (0%)	
on	Java bytecode(*)	0 (0%)	
on	.NET(*)	0 (0%)	
Total:		0 active exploits	0 exploited systems

Exploits options

NDAC (RDS) WSP SetSlice XML Core Services HSC-044 WSP Firefox WSP Opera 7

TriAD HTTP Control System

[Set Command] [Statistics Table] [Help]

[Set Command for Machines:]

Bot IP ("all" - to all bots)

all



EARNING 4 U

ENTER STATS

BETTER RATED! NO HOLD ONLY REAL ONLINE STATISTICS!

REGISTER TODAY

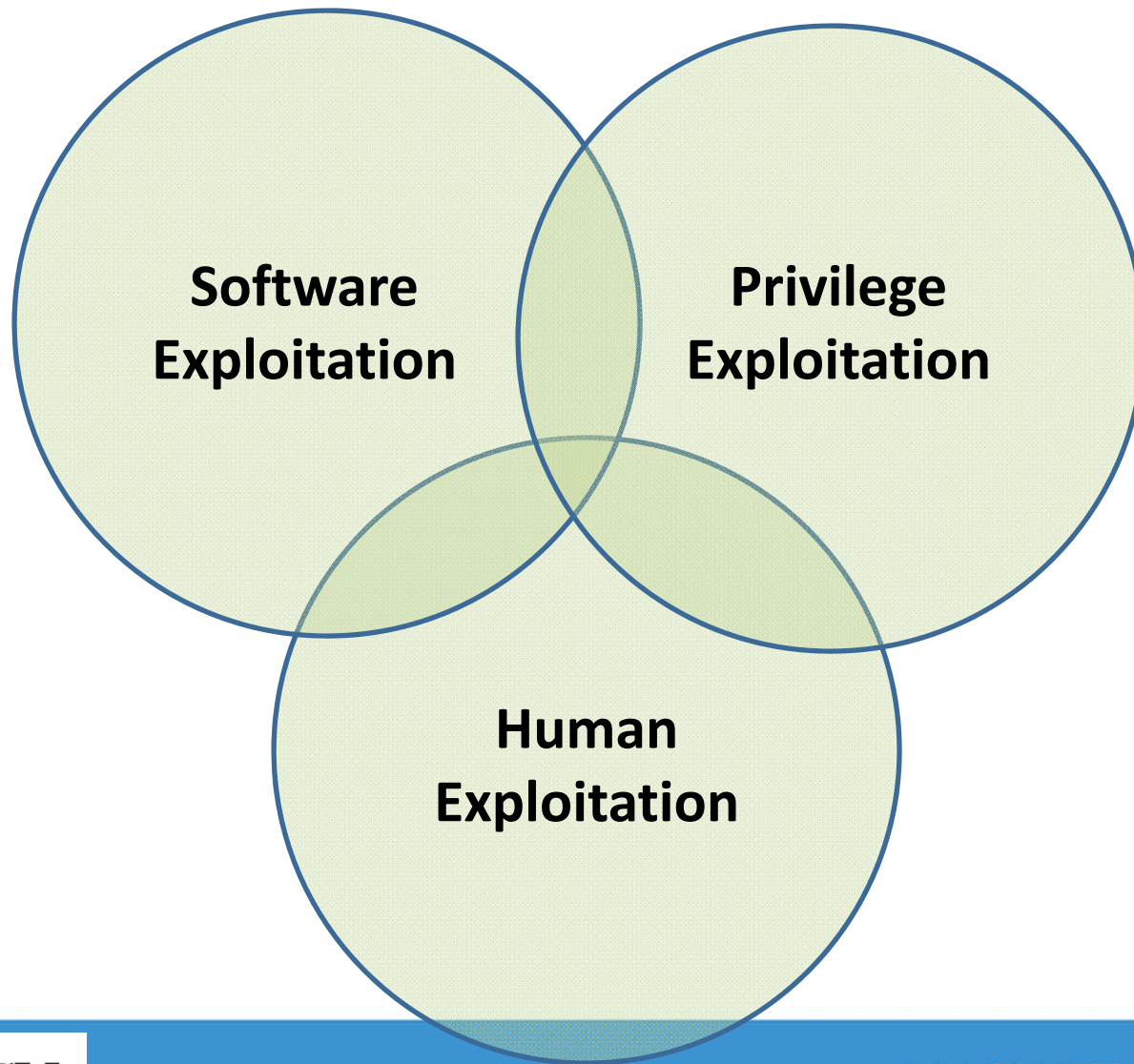
YA!BUCKS

Poison Ivy Remote Administration Tool



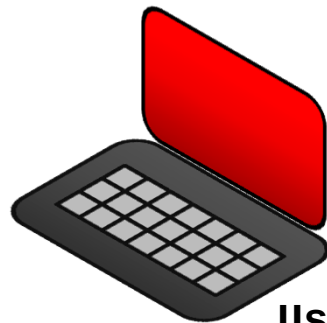
LIKE MONEY? WORK WITH US!

How do they get in?



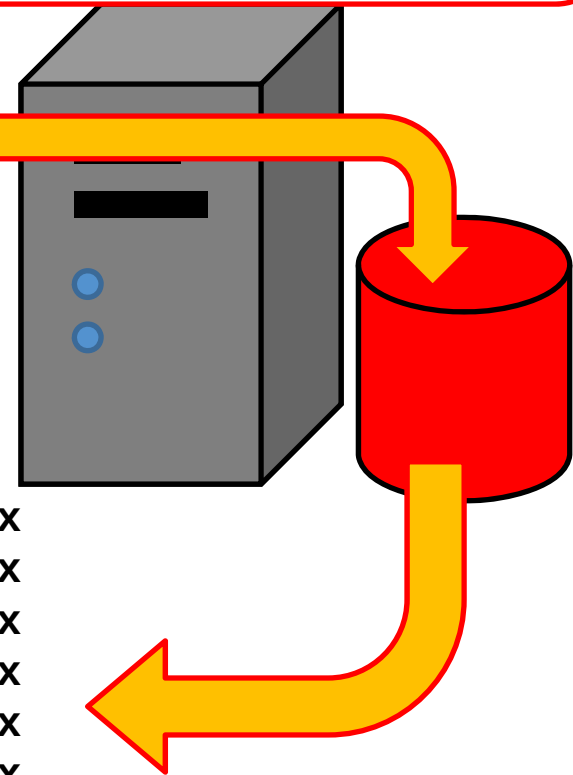
SQL Injection

www.somesite.com/somepage.php?id=1 UNION SELECT 1,2,3...

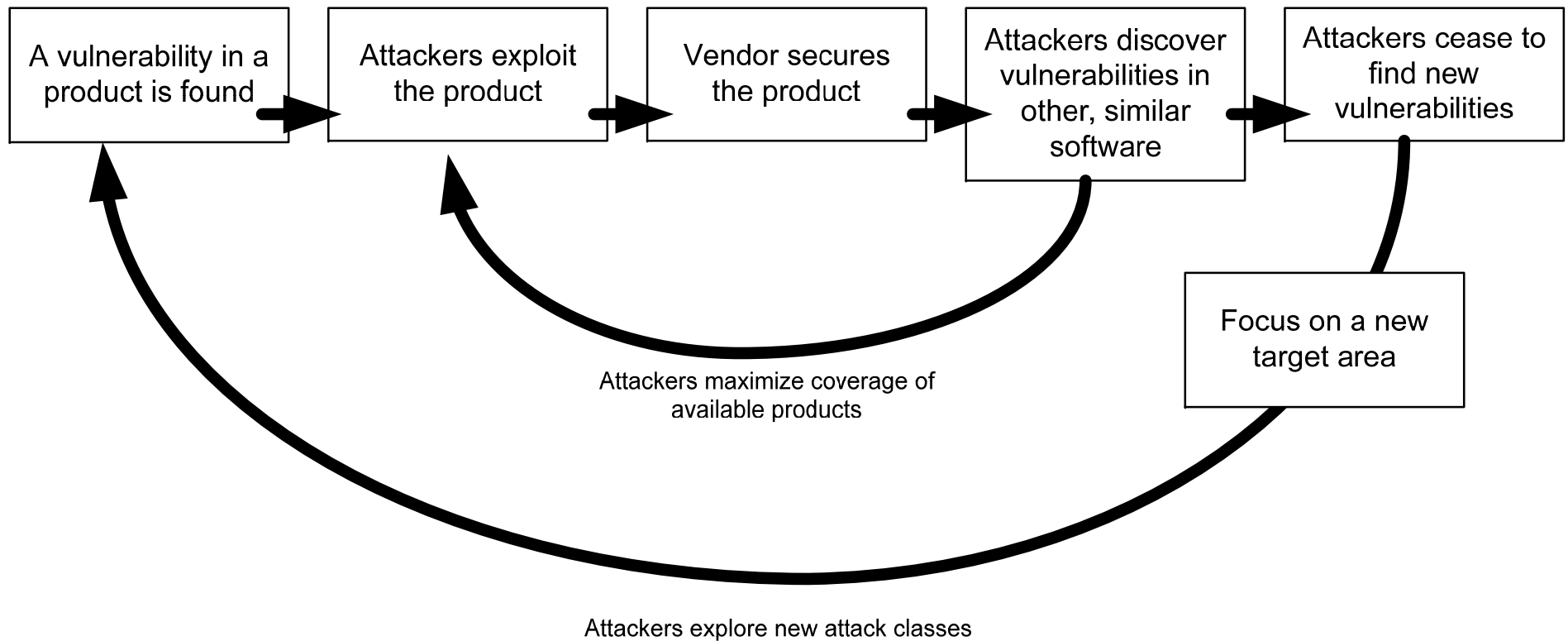


SQL injection

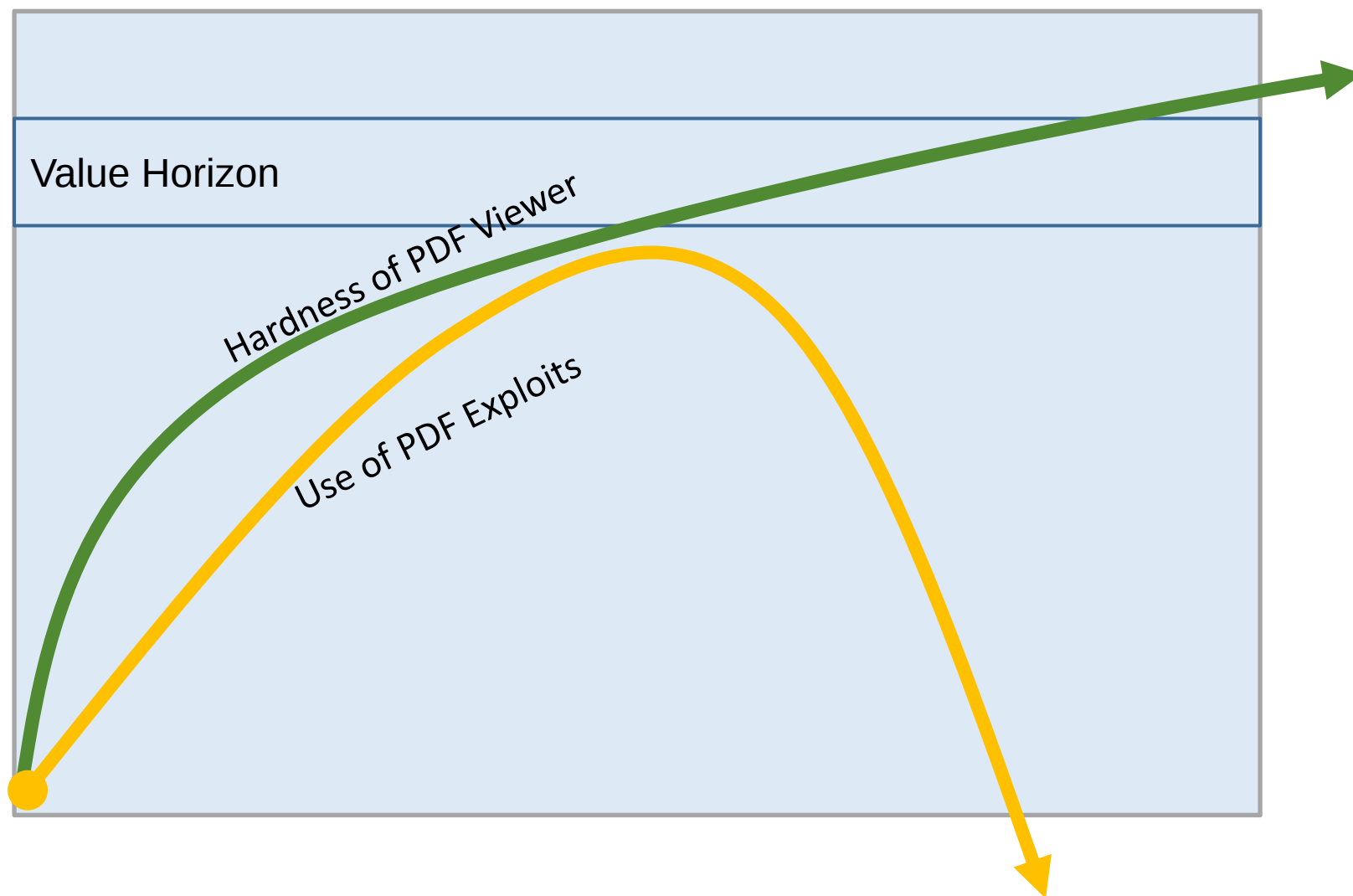
User:password:last_ip:email:xxxx
User:password:last_ip:email:xxxx
User:password:last_ip:email:xxxx
User:password:last_ip:email:xxxx
User:password:last_ip:email:xxxx
User:password:last_ip:email:xxxx



Attack Evolution Cycle

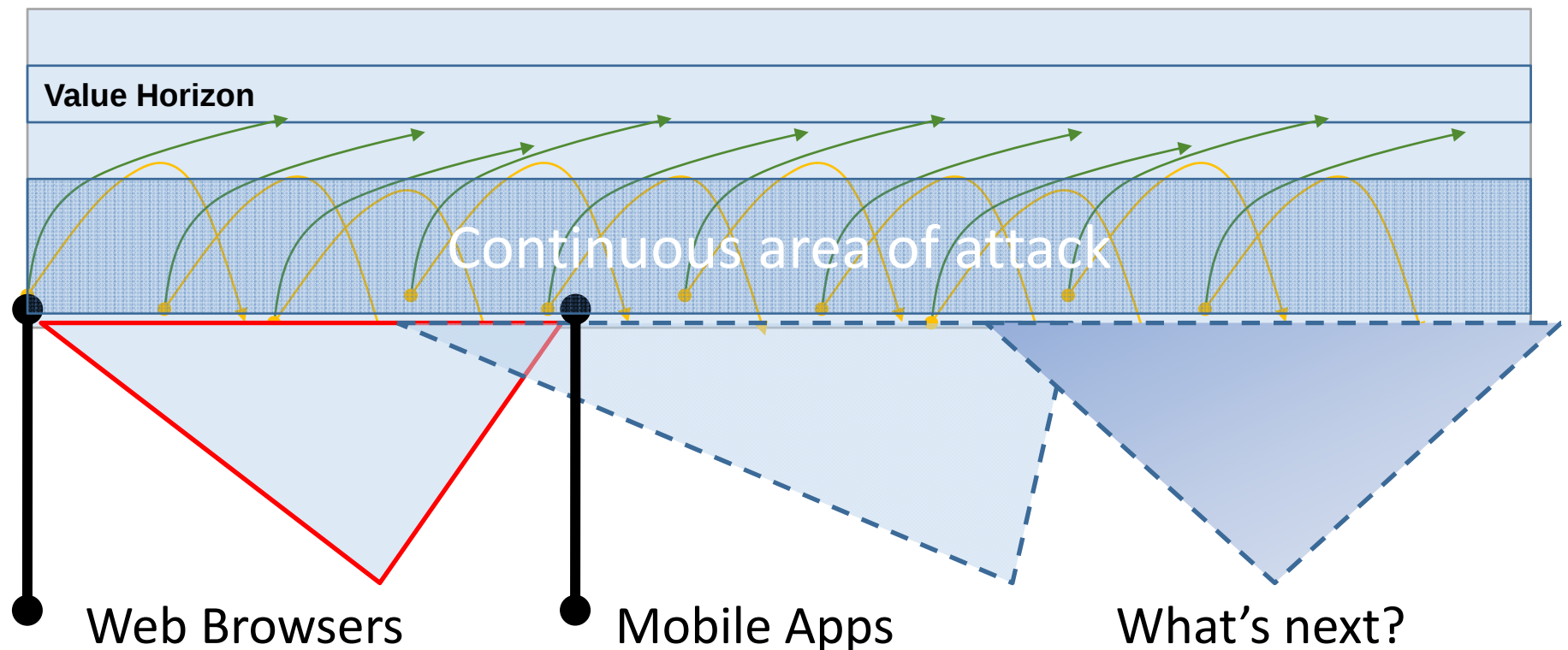


Value Horizon



Continuous Area of Attack

By the time all the surfaces in a given technology are hardened, the technology is obsolete



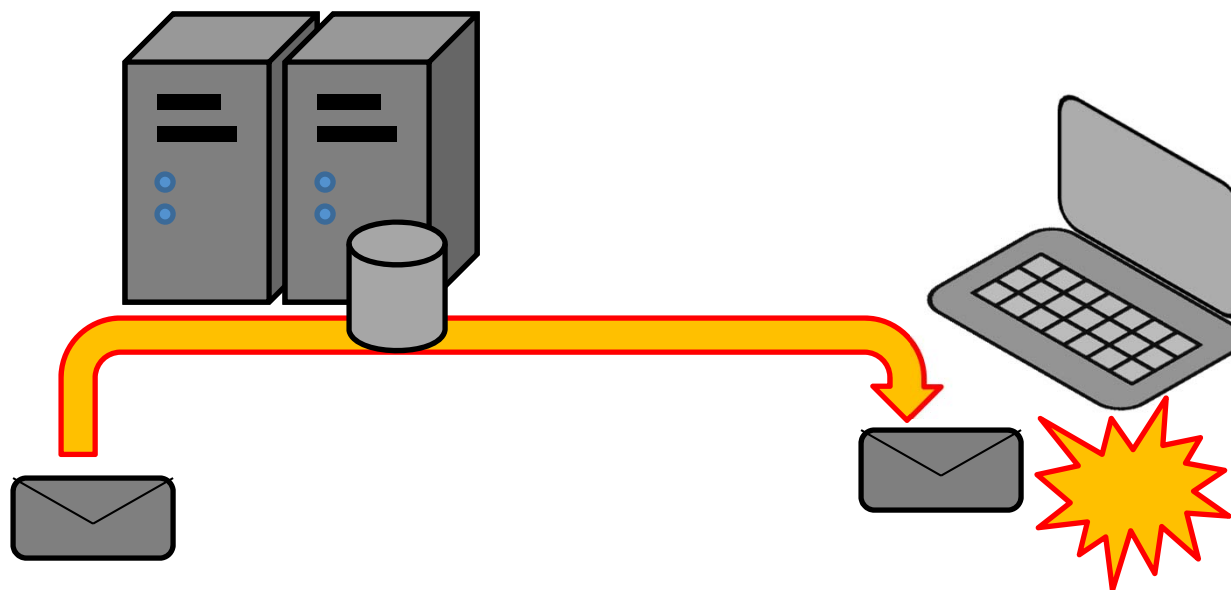
Security is a human problem



bit.ly ? You can't even tell what you are clicking on...



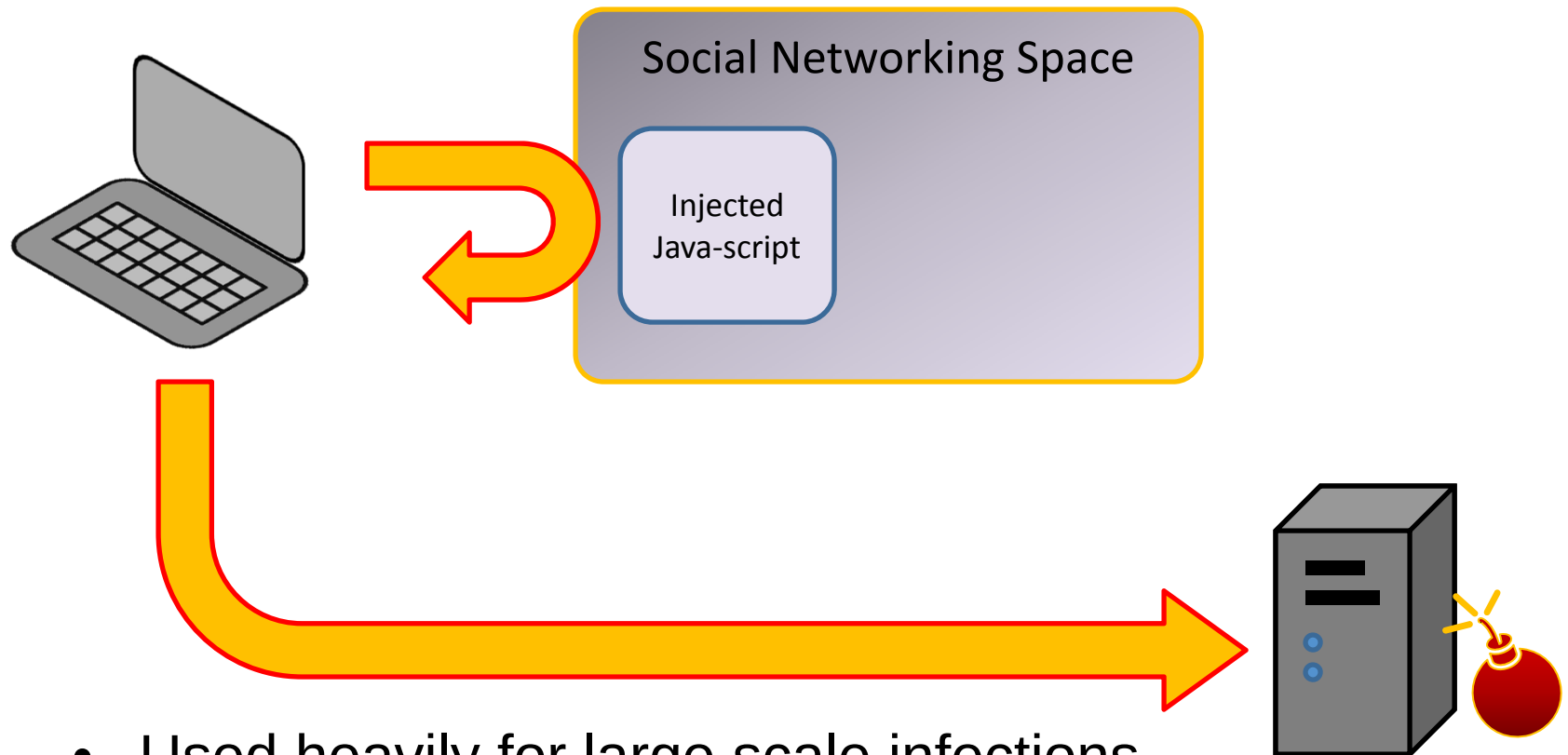
Boobytrapped Documents



- Single most effective *focused* attack today
- Human crafts text



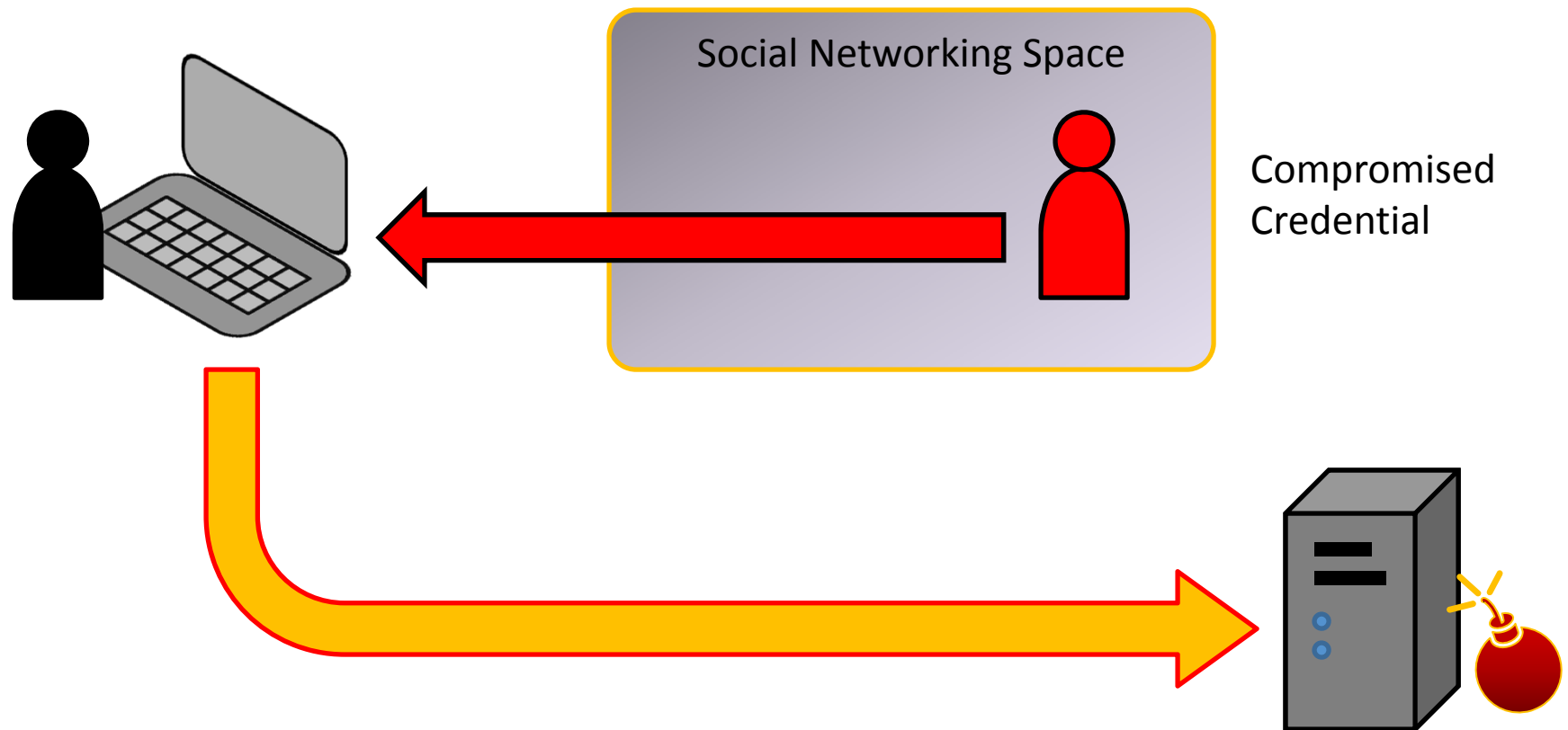
Social Networking Attack (I)



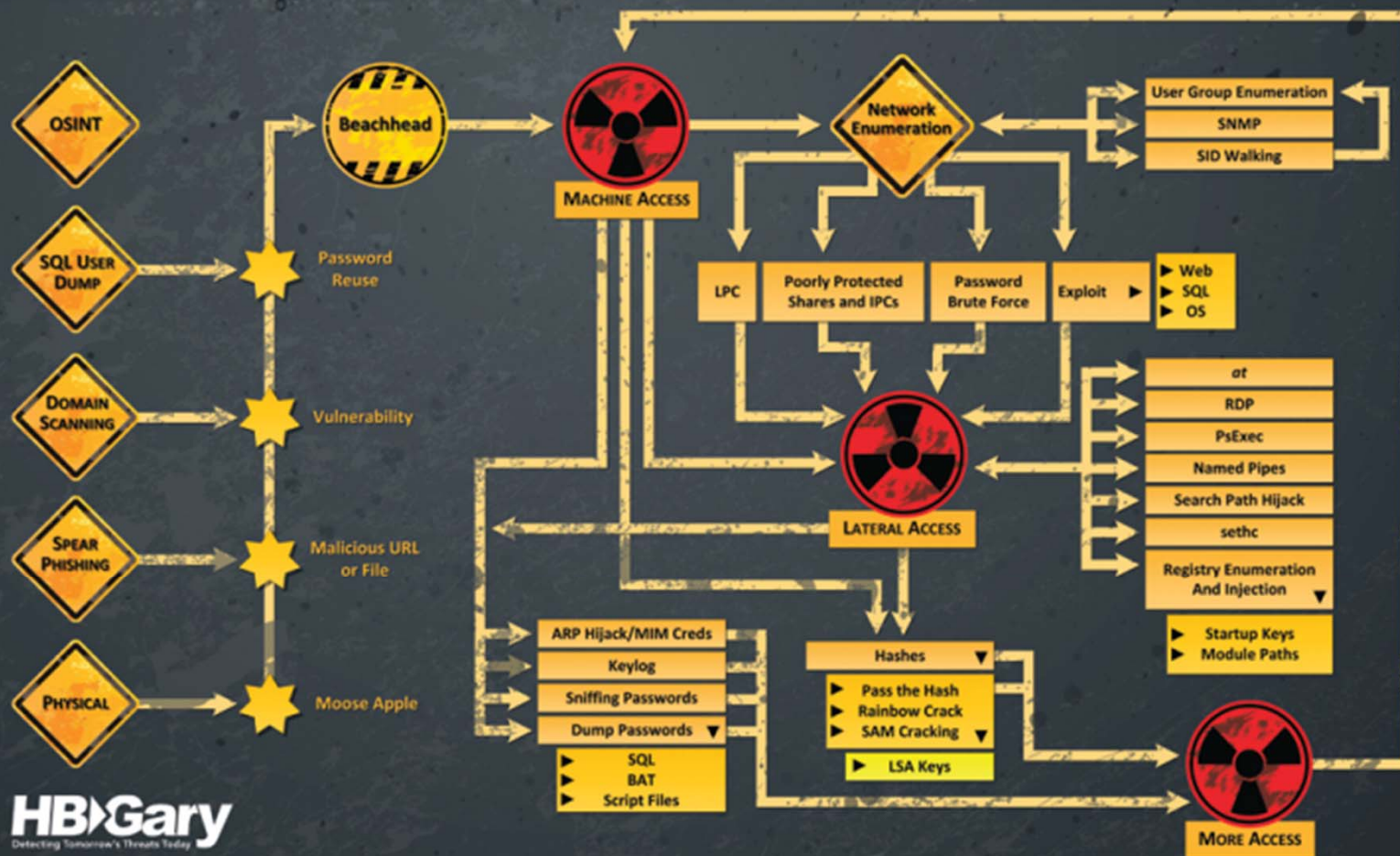
- Used heavily for large scale infections
- Social network targeting is possible



Social Network Attack (II)

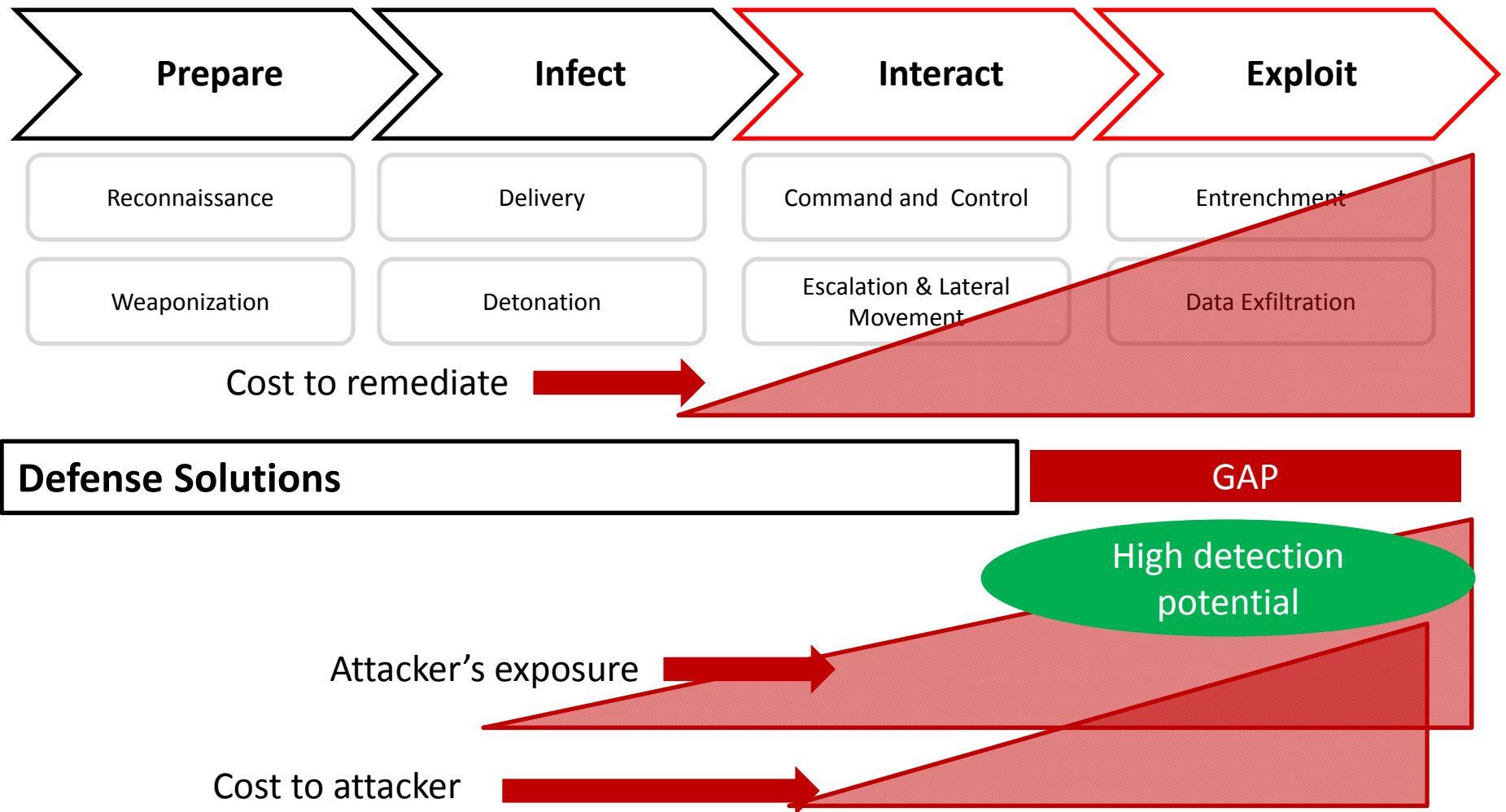


APT LATERAL MOVEMENT

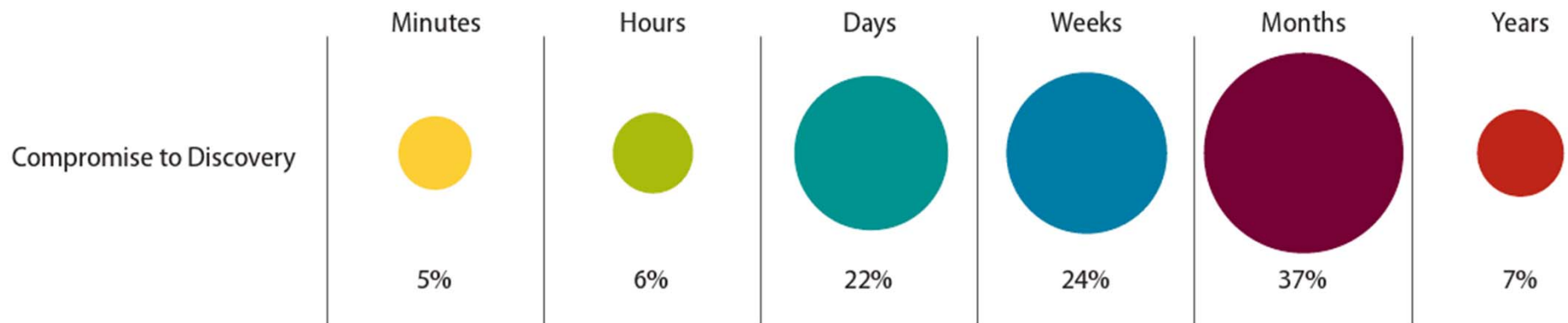


Resiliency post intrusion

APT Attack Progression



Internal Network Exploitation



Length of time from “Compromise to Discovery” in 2010*

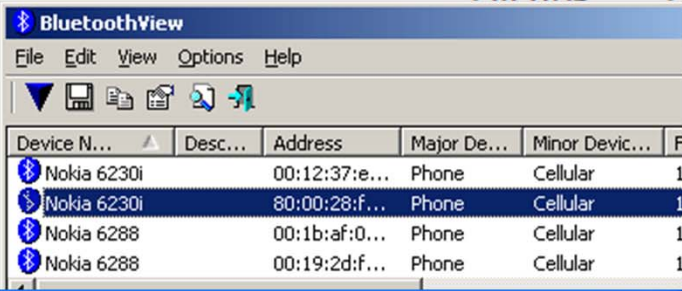
Also..

Average length of time before Shady RAT was discovered: 8 ½ months

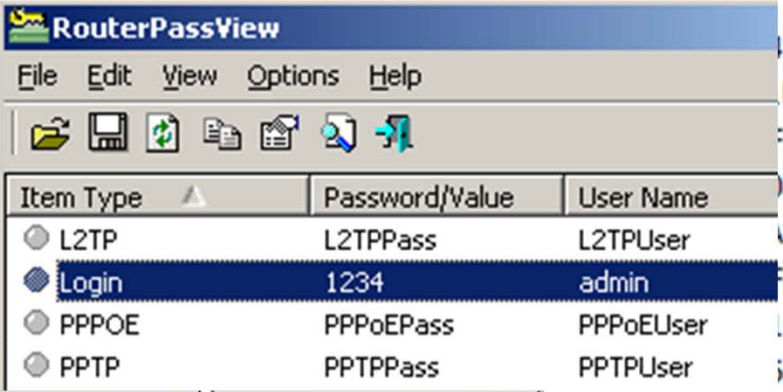
*Source for graph: Verizon Data Breach Report 2010



- ☐ cain4.exe
- ☐ calcs.exe
- ☐ Client1.exe
- ☐ Client2.exe
- ☐ cmd.exe
- ☐ cmd1.exe
- ☐ dialupass.exe
- ☐ dnsserver.exe
- ☐ dw.exe
- ☐ fgdump.exe
- ☐ find.exe
- ☐ firefoxs.exe
- ☐ firewalk.exe
- ☐ foot2.exe
- ☐ Fscan.exe
- ☐ FtpServer.exe
- ☐ get.exe
- ☐ gethashes.exe
- ☐ gsecdump.exe
- ☐ htran.exe



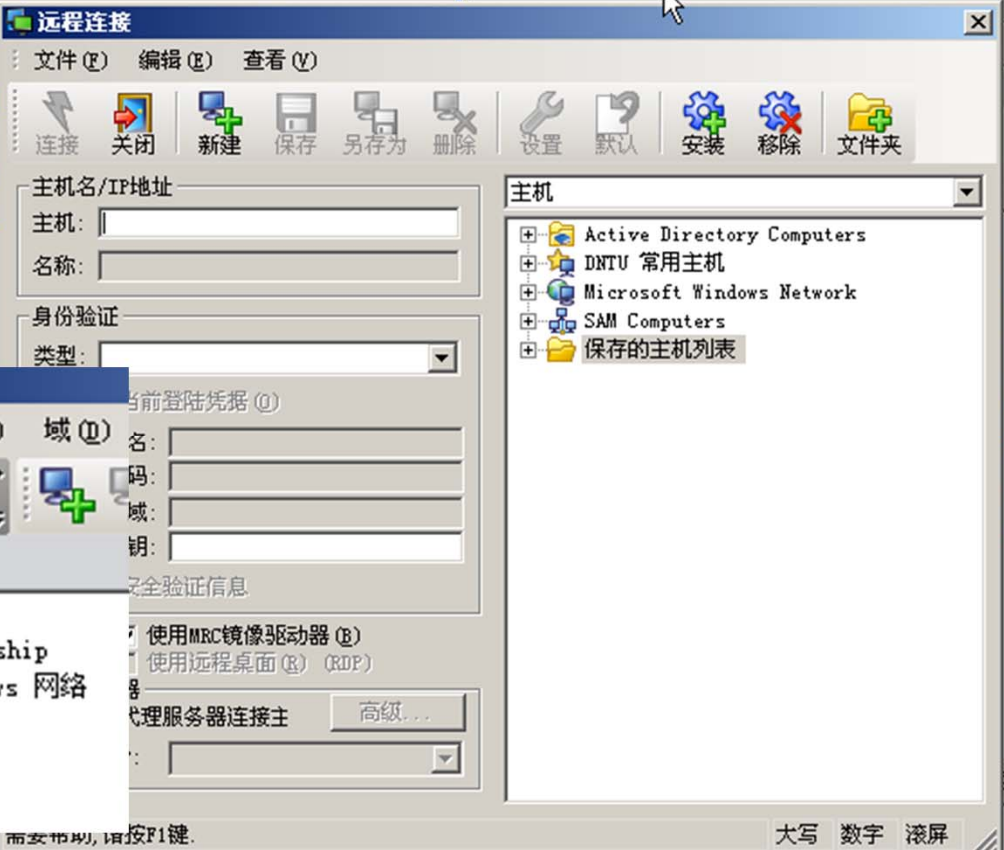
Device N...	Desc...	Address	Major De...	Minor Devic...	F
Nokia 6230i		00:12:37:e...	Phone	Cellular	1
Nokia 6230i		80:00:28:f...	Phone	Cellular	1
Nokia 6288		00:1b:af:0...	Phone	Cellular	1
Nokia 6288		00:19:2d:f...	Phone	Cellular	1



Item Type	Password/Value	User Name
L2TP	L2TPPass	L2TPUser
Login	1234	admin
PPPOE	PPPoEPass	PPPoEUser
PPTP	PPTPPass	PPTPUser



Entry...	Phone / Host	User N...
Internet01	10.10.20.20	Hello01
NirSoft	10.10.0.1	nsft8
NirSoft	192.168.22.11	nirs02



主机名/IP地址

主机:

名称:

身份验证

类型:

当前登陆凭据 (C)

名:

码:

域:

钥:

安全验证信息

使用MRC镜像驱动器 (E)

使用远程桌面 (R) (RDP)

代理服务器连接主

高级...



活动目录

No AD Membership

Microsoft Windows 网络

无NB入口

常用域

常用主机



主机

- Active Directory Computers
- DNTU 常用主机
- Microsoft Windows Network
- SAM Computers
- 保存的主机列表

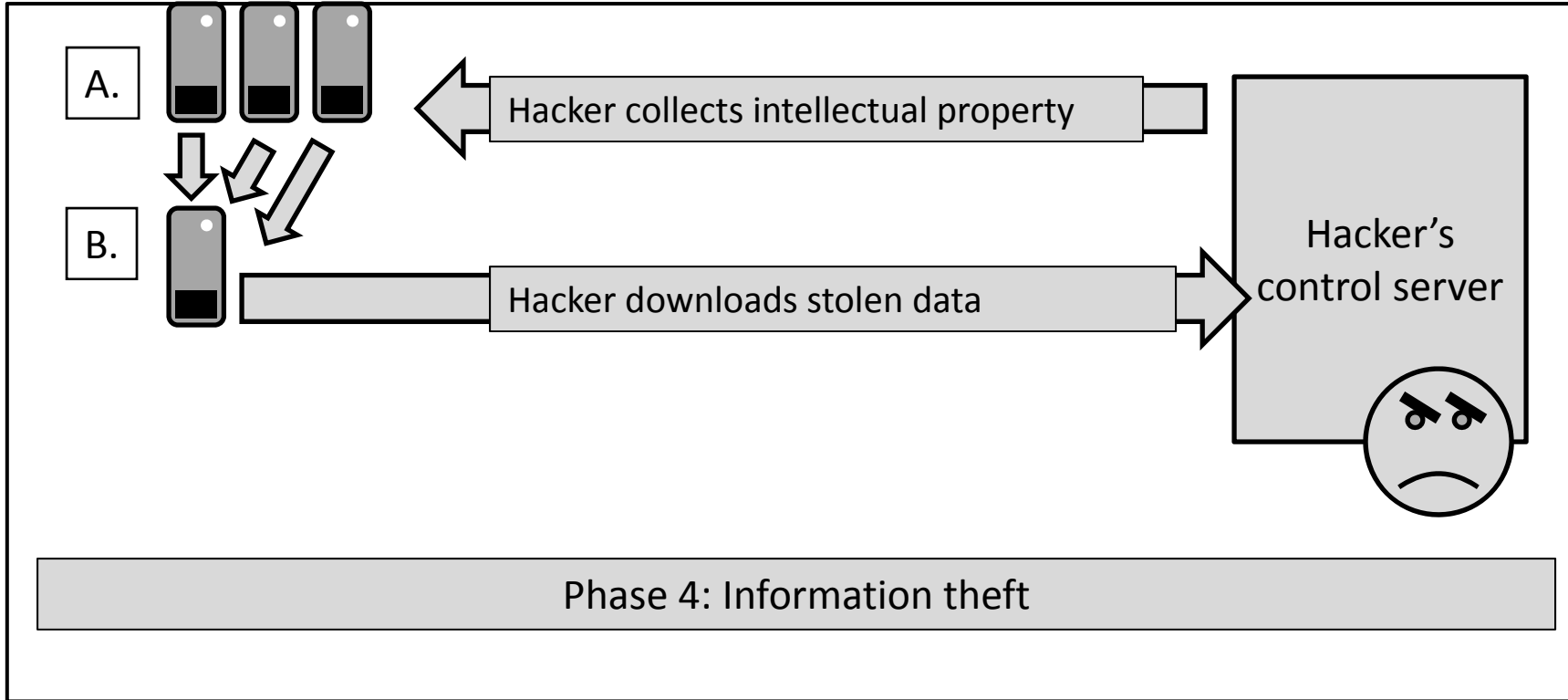
12:4...	C18F743D
0:48 ...	93EFF6DF
0:48 ...	68D5F729
0:48 ...	0D858657
:18 ...	D0ECA926
10:2...	8CA11C91
0:48 ...	FB486529



Attack vectors and strategies (TTP's)

- Extensive use of hash cracking, rainbow tables
 - PTH toolkit and friends
- Entrenchment strategy
 - Multiple backup plans, backup CNC protocol & servers both
- Avoidance of packing, rootkits, etc.
- Staging data for exfil
 - Watch out for 3-day weekends





Files.part1.rar
Files.part2.rar
Files.part3.rar
Files.part4.rar
Files.part5.rar
Etc...

Offset	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
000000000	52	61	72	21	1A	07	00	19	7A	73	11	00	0D	00	00	00	Rar! zs
000000016	00	00	00	00	84	D4	74	C3	90	30	00	A8	77	FC	05	00	!ÔtÃ 0 ``wü
000000032	00	00	20	02	88	22	79	94	C0	63	A7	3C	14	30	0B	00	!"y Àc\$< 0
000000048	20	00	00	00	6D	65	6D	64	75	6D	70	2E	62	69	6E	00	memdump.bin
000000064	B0	E0	85	30	89	99	0B	00	00	8D	64	24	FC	89	0C	24	*à!0 d\$ü \$
000000080	8B	4C	24	04	C2	04	00	E4	74	50	50	8D	05	D8	79	49	!L\$ Å ätPP ØyI
000000096	00	8D	80	11	0A	00	00	89	44	24	04	8D	05	74	DC	50	! D\$ tÜP
000000112	00	8D	80	99	0F	00	00	8D	64	24	FC	89	04	24	8B	44	!! d\$ü \$!D
000000128	24	04	C2	04	00	4A	CE	8D	64	24	FC	89	3C	24	57	8D	\$ Å JÎ d\$ü <\$W
000000144	3D	B0	7D	49	00	8D	BF	6D	06	00	00	89	7C	24	04	8D	=*}I ðm \$



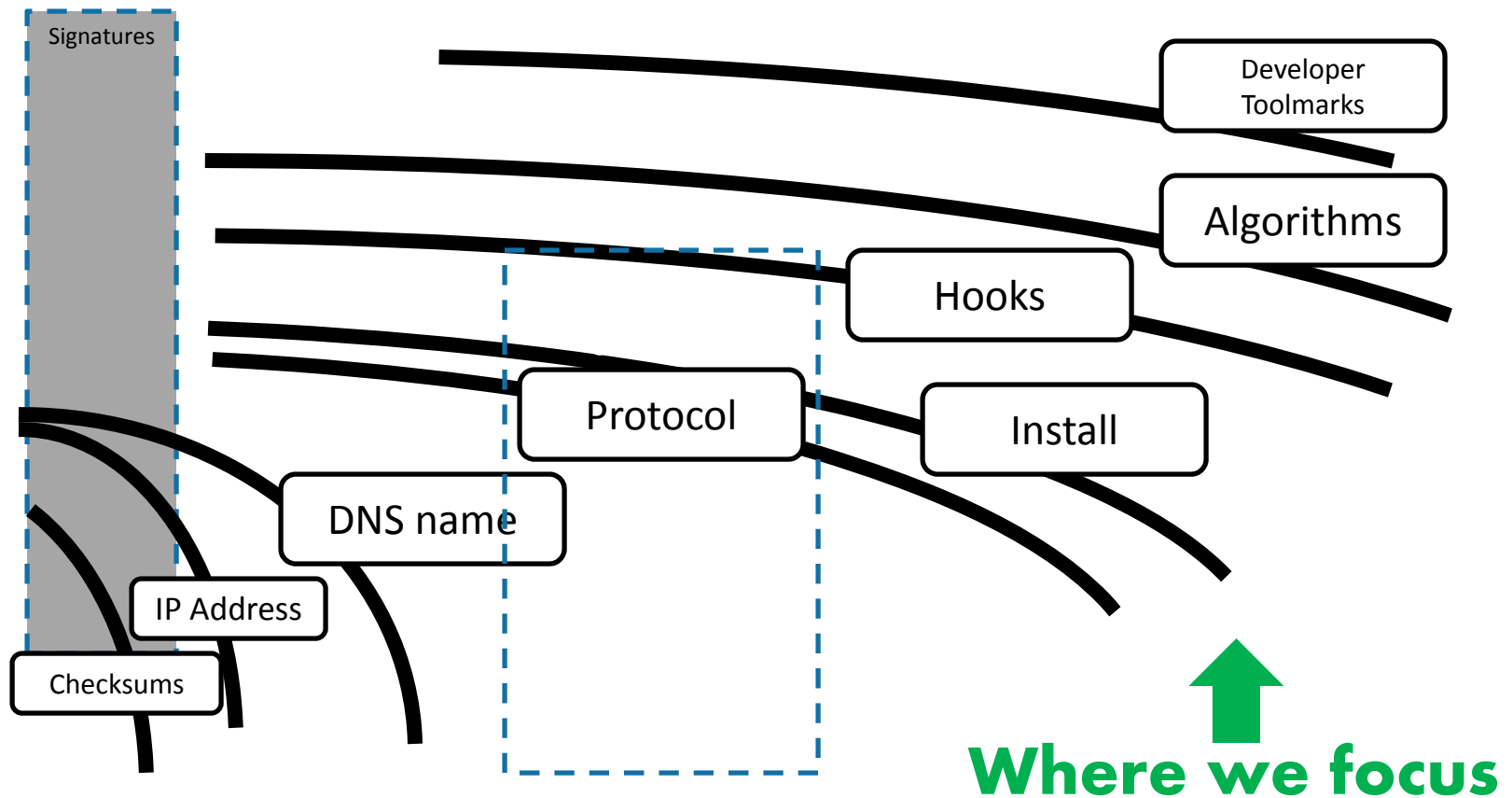

```
[ListenMode]
0
[MServer]
192.168.1.100:443
[BServer]
192.168.1.100
[Day]
1,2,3,4,5,6,7
[Start Time]
00:00:00
[End Time]
23:59:00
[Interval]
3600
[MWeb]
http://192.168.1.100:443/
[BWeb]
http://192.168.1.100:443/
[MWebTrans]
0
[BWebTrans]
1
[FakeDomain]
www.192.168.1.100
[Proxy]
1
[Connect]
1
[Update]
0
[UpdateWeb]
http://192.168.1.100:443/.bmp
```



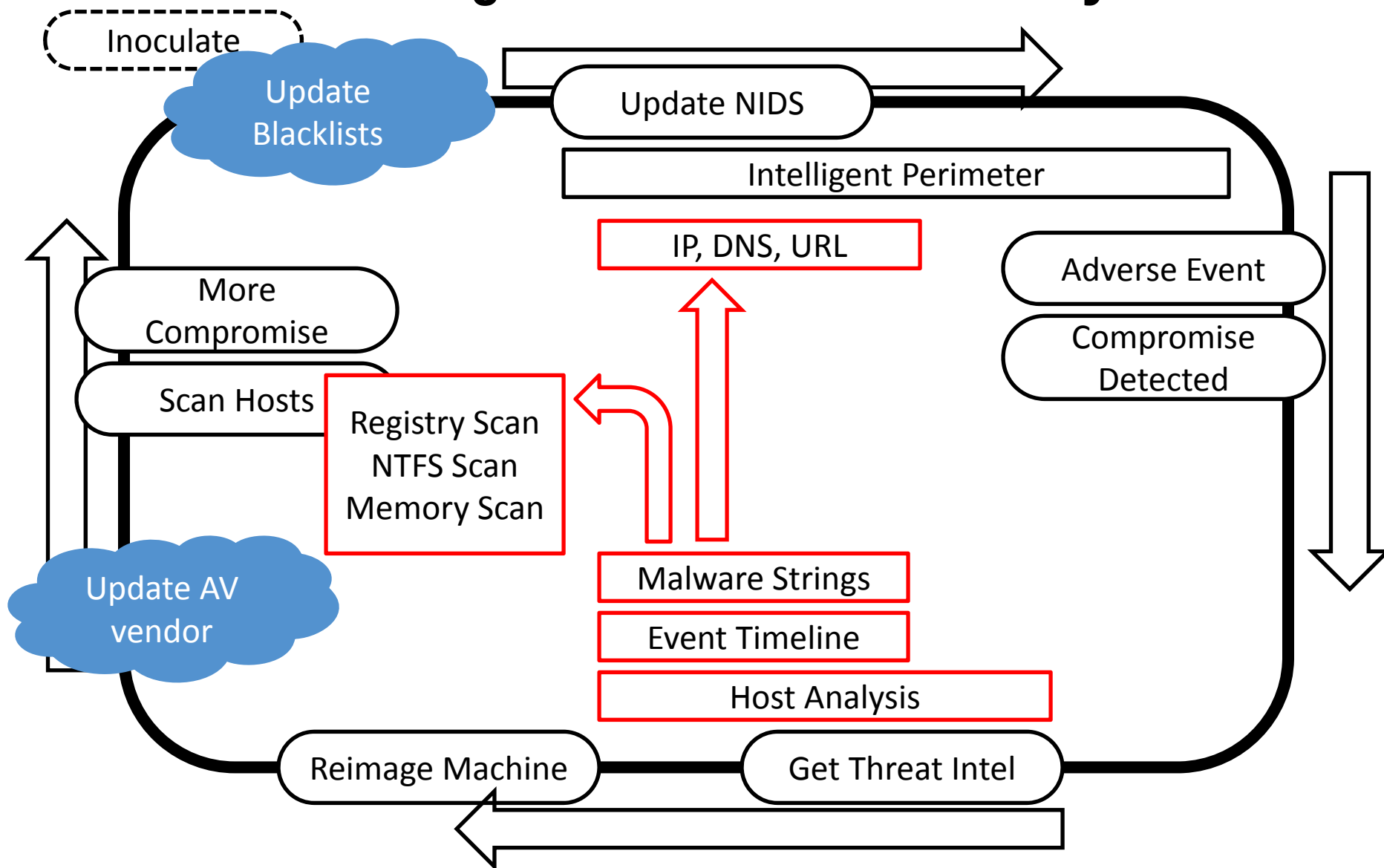
Intelligence Value Window

Lifetime →

Minutes Hours Days Weeks Months Years



Intelligence-driven security



Searching for Indicators

Files.part1.rar
Files.part2.rar
Files.part3.rar
Files.part4.rar
Files.part5.rar
Etc...

Offset	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
000000000	52	61	72	21	1A	07	00	19	7A	73	11	00	0D	00	00	00	Rar! zs
000000016	00	00	00	00	84	D4	74	C3	90	30	00	A8	77	FC	05	00	!ÔtÃ 0 "wü
000000032	00	00	20	02	88	22	79	94	C0	63	A7	3C	14	30	0B	00	!"y ÀcS< 0
000000048	20	00	00	00	6D	65	6D	64	75	6D	70	2E	62	69	6E	00	memdump.bin
000000064	B0	E0	85	30	89	99	0B	00	00	8D	64	24	FC	89	0C	24	*à 0 d\$ü \$
000000080	8B	4C	24	04	C2	04	00	E4	74	50	50	8D	05	D8	79	49	!L\$ Å ätPP ØyI
000000096	00	8D	80	11	0A	00	00	89	44	24	04	8D	05	74	DC	50	D\$ tÜP
000000112	00	8D	80	99	0F	00	00	8D	64	24	FC	89	04	24	8B	44	d\$ü \$ D
000000128	24	04	C2	04	00	4A	CE	8D	64	24	FC	89	3C	24	57	8D	\$ Å JÎ d\$ü <\$W
000000144	3D	B0	7D	49	00	8D	BF	6D	06	00	00	89	7C	24	04	8D	=*}I ïm \$

Query Name: Look for:

contains substring

offset <

capture start

capture length

[Add Another Field](#)



Searching for Indicators

BinaryData	contains substring	infosupports.com
	no offset	
	capture start	
	capture length	

[Add Another Field](#)

Query Name: RAT backdoor	Look for: RawVolume.File
--------------------------	--------------------------

BinaryData	contains substring	[-] TransmitPort invalid.
	no offset	
	capture start	
	capture length	

[Add Another Field](#)



Searching for Indicators

Query Name: Look for:

[Add Another Field](#)

limit recursion

[Add Another Field](#)

Query Name: Look for:

limit recursion

[Add Another Field](#)



Apply

- Use your threat intelligence
- You need endpoint visibility
- The perimeter is vanishing
- Security is a counter intelligence problem, not a technology
 - Security will not be provided solely by blinking appliances in the rack



HBGary Active Defense dramatically reduced the time between network intrusion and discovery.

- U.S. Government Contractor

We can't live without it. Active Defense is saving us major money.

- Top 10 Financial Institution

Digital DNA is a game changer.

- Big Consulting Company

Responder with Digital DNA is definitely a need-to-have item in our toolbox.

- VP eCrime Unit, Fortune 50 Bank

