

Outro

Compass Security Schweiz AG
Werkstrasse 20
Postfach 2038
CH-8645 Jona

Tel +41 55 214 41 60
Fax +41 55 214 41 61
team@csnc.ch
www.csnc.ch

High level overview



CIA iOS Exploits

		Release Date(s)	Access	Kernel Info Leak	Kernel Exploit	Sandbox Escape (browser)	Code Sign Defeat	Persistence (reboot)	Persistence (update)	Kernel Exploit Framework
iOS 4 (4.0 - 4.3.3)	Remote	6/21/2010 - 3/11/2011	SafferonSkies	<NR>	<NR>	??	EarlyKatana	overrides.plist	No (OTA <NR>)	
	Local		SLIDE			<NR>				
iOS 5 (5.0 - 5.1.1)	Remote	10/12/2011 - 5/7/2012	SunsetSkies	<NR>	Corona (5.0.1)	??	EarlyKatana	overrides.plist	Yes (sys not touched)	
	Local		SLIDE		<NR>	<NR>				
iOS 6 (6.x - 6.1.2)	Remote	9/19/2012 - 2/16/2013	Wby	Rhino	Cutlass	SandShrew	Katana	overrides.plist	block	
	Local		Redux			<NR>	(libamfi)	launchd.conf		
iOS 6 (6.1.3 - 6.1.4)	Remote	3/19/2013 - 5/2/2013	Wby	Rhino	Scimitar	SandShrew	Dyonedo	dirhelper	block	
	Local		Redux			<NR>				
iOS 7 (7.0 - 7.1.2)	Remote	9/18/2013 - 6/20/2014	Eve	<NR>	Xiphos	Piggy	Dyonedo	dirhelper	block	
	Local		Redux			<NR>				
iOS 8 (8.0 & 8.0.2)	Remote	9/17/2014 - 9/25/2014	Earth	Ironic	Nandao	<NR>	Dyonedo	dirhelper	block	Early
	Local		Saline							
iOS 8 (8.1 - 8.1.2)	Remote	10/10/2014 - 12/19/2014	Earth	Ironic	Nandao	<NR>	Dyonedo	dirhelper	block	Early
	Local		Saline							

I'm a Virgin

[but this is an old t shirt]

My vision:

Detailed Basics

But also

Overview of current situation / State of the Art
Exploitation

Detailed vs. Completeness

Free Speaking vs. Slides as Documentation

Understanding of Details vs. Understanding of Concepts

Self-Thinking vs. Step-by-Step description

Hands-On practice vs. Theory

Incremental Building Steps vs. Goal-Driven Explanation

Detailed vs. **Completeness**

Free Speaking vs. **Slides as Documentation**

Understanding of Details vs. Understanding of Concepts

Self-Thinking vs. Step-by-Step description

Hands-On practice vs. **Theory**

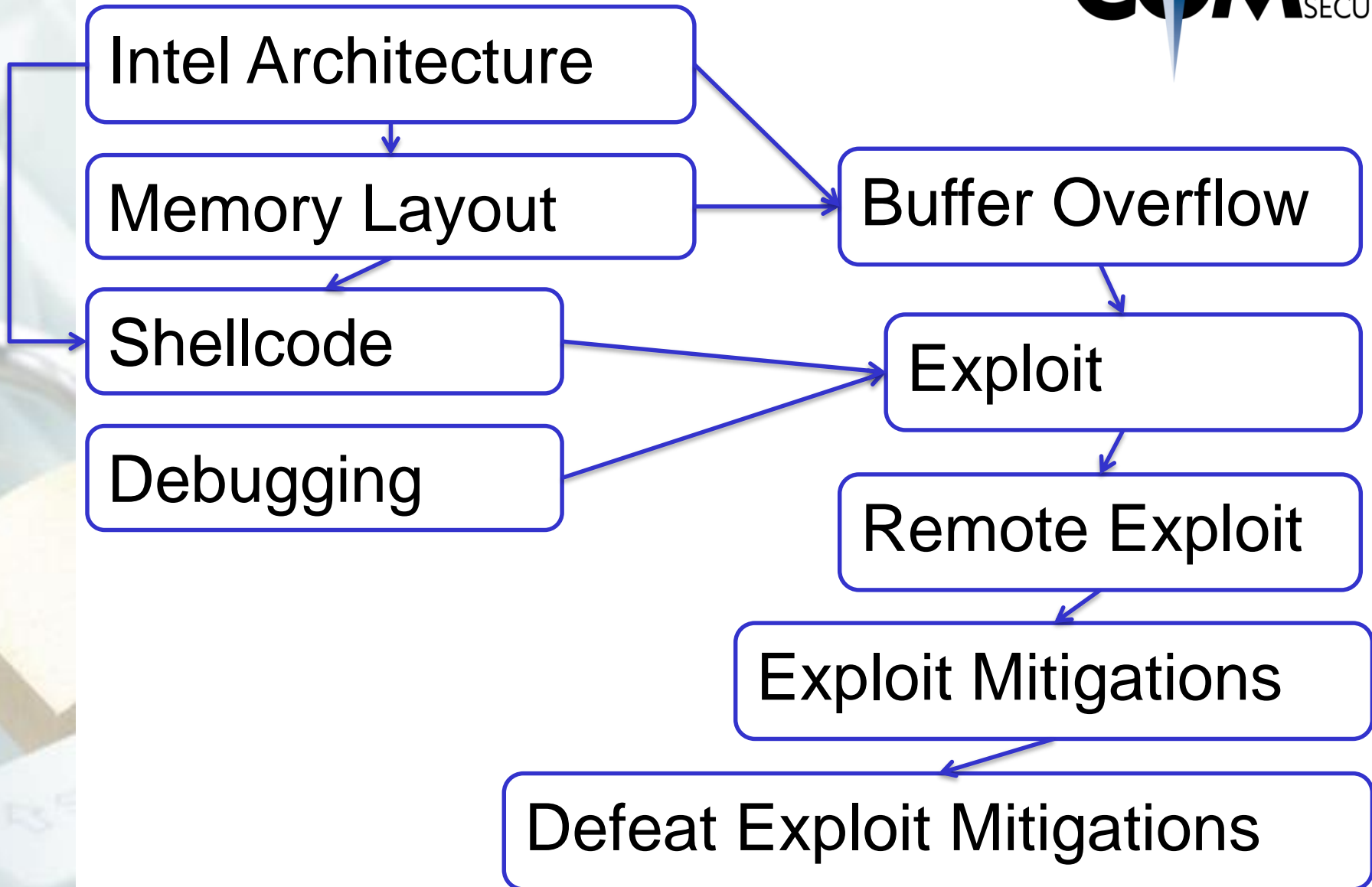
Incremental Building Steps vs. Goal-Driven Explanation

Getting lost in slides... Not enough time

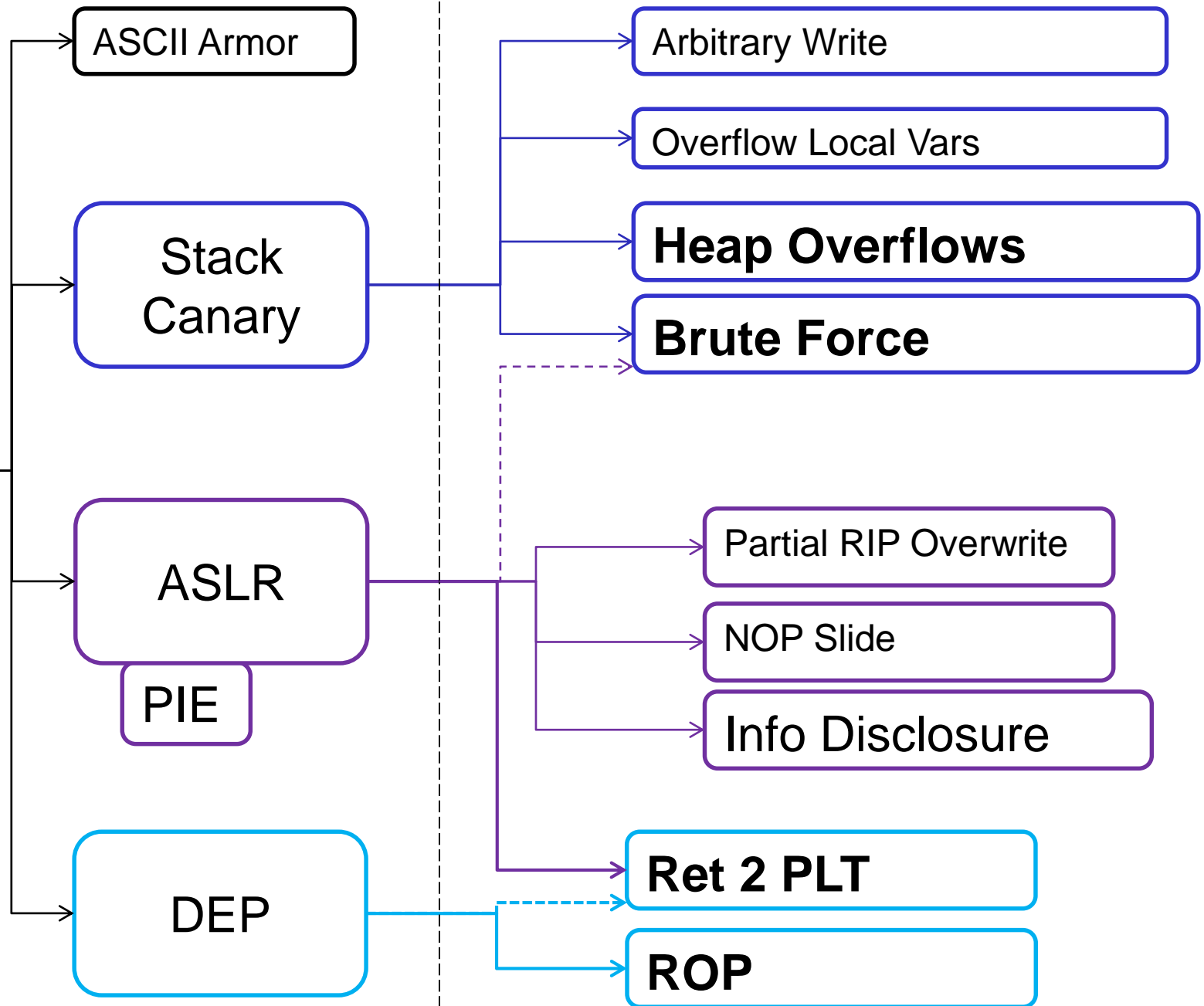
Questions

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Exploit Mitigations



Was gibt es für Anti-Exploit Mechanismen?

- ✦ DEP
- ✦ ASLR
- ✦ Stack Canary

Erzähl mir was über Anti-Exploit Mechanism [X]

- ✦ Gegen welchen Teil eines Exploits schützt es?
- ✦ Wie funktioniert er?
- ✦ Ist der Mechanismus effektiv?
 - ✦ Wann nicht?
 - ✦ Warum nicht?
- ✦ Wird der Mechanismus eingesetzt (Default, Linux, Windows)?