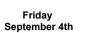


D2 Thursday September 3rd



D3



Friday



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When (GMT+2)	r2wars + talks + workshop	Description	0~2	O <u>~2</u>	! →•0
16:30-17:00	Okay, so you don't like shellcode too? Adrian Hendrick https://en.wiki/bedia.org/wiki/MalwareMustDie Working helping cyber attack victims at LAC Cyber Emergency Center https://www.lac.co.jp/english/service/incident/cyber119.html	can trigger the injection or fu In this presentation I will descri in multiple operating systems & Beforehand I will present sever The talk can help other analysis	xecute a malformed code in a way that ther exploitation process, or other opera- be how I used radare2 handling maliciou- architectures. ral basics & category of shellcode in sim is to rr2 RE beginners recognizing types ase(s) in dissection of a complex obfusc	s shellcode cases I dealt ple and practical ways. of shellcode & handling them in their v	work on their blue-team 's fi
	r2wars	in the one of procentation the c	ass(s) iii alooosaan or a complex oblace	valou chonocuo viii so presentes.	
17:00-18:00	Skuater	Join the tournament here htt	os://t.me/joinchat/AnoeOVDr7s_89_DF	<u>hyrw</u>	
			emory dumps contain cryptographic materia lated commands in radare2 and how they		cal uses cases.
18:00-18:30	In radare2, /c means cryptography Sylvain Pelissier Security expert, researching Cryptography & embedded devices.	The talk will cover: - Yara integration into radare - recent rules added - commands to search AES k	2 eys, public key or certificates in memory	dumps or during debugging sessions	3 .
		The features presented will be	compared with existing solutions.		
18:30-19:00	30' BREAK	, , , , , , , , , , , , , , , , , , , ,	g		
19:00-21:00	[2 hour workshop] Semi-automatic Code Deobfuscation	In general, it impedes analysis	fuscation has become a vital tool to protect by making the to-be-protected program mo a small set of common code obfuscation xed Boolean-Arithmetic).	re complex.	st competitors.
	Tim Blazytko Reverse engineer & former security researcher at the Ruhr-Universität Bochum. Senior Security Engineer at emproof GmbH.	In the second part, we use syn The workshop is suitable for	e concepts, we analyze them on the binar abolic execution & SMT solvers to break everyone who has experience in reverse of	these techniques in an automated man	nner.
			ige in advanced program analysis or co		
21:00-21:30	Sylvain Pelissier Security expert, researching Cryptography & embedded devices. Nicolas Oberti Security researcher for Kudelski Security in Switzerland. Research focus on embedded devices and communication protocols. Developer of Hydrabus hardware hacking tool & part of BlackAips sec conf committee. Karim Sudki	There are ways to evaluate the eff but this heavily depends on the re	d devices is sometimes hard to pull off, even w ectiveness of such attacks by RE the running s verser's knowledge of the underlying CPU archi w we instrumented r2's ESIL to simulate the	oftware, itecture.	nwarne
		The firmware is instrumented us	ing r2pipe and thus the fault models & the so e firmware level, there is no need of the source	cope of the attack are completely scriptable	
		We'll present various fault mode allowing to recover an encryption	Is used and their effect on an example firmw n key using differential fault analysis.	are,	Chano.
24,20,22,00	A security review of 1,300 AppStore applications Jan Seredynski Mobile security engineer with iOS development background. Specialised in RASP solutions, automation and low-level mobile internals.	Banking apps, crypto wallets, 2FA	n gains momentum as we store more and more ors and more are vulnerable to malware origina re, websites or even messages on popular com	ating	
21:30-22:00		I will show that it doesn't take to	ppStore crawling & queued apps for static & be an expert to use Radare2 & Frida to easily the current usage of RASP techniques in the	detect app hardenings.	otections.

D4	Saturday September 5th	AZZZW/
When (GMT+2)	r2wars + talks +closing + post-r2CON live chiptune party!	Description $0 - 2 - 0 - 2 \rightarrow 0$
17:00-18:00	r2wars	Join the tournament here https://t.me/joinchat/AnoeOVDr7s 89_DFhyrw
	Pancake + Skuater	
18:00-18:45	From hardware to zero-day Pietro Oliva	IoT devices are changing the world in both good and bad ways. It is exciting and fascinating to see how technology keeps improving our lives, but it is also worth considering the security impact and the vulnerabilities being introduced in our lives by such connected devices.
	Security researcher with a degree in IT security from Università di Milano. Experience in pentesting, red tearning & security/vulnerability research.	This talk will explore the risks associated with them by sharing a personal research performed on a c loud security camera . This talk will errace all the steps that have been performed to go from hardware analysis & flash dumping, to zero-day discovery & exploitation.
19:00-19:30	Symbolic Execution in radare2 Chase Kanipe	This talk is on using using the new "Modality" radare2 plugin to perform symbolic execution. The tool is built on top of angr, and provides a faster alternative to using angr than writing scripts. This integration has numerous advantages, including easy switching between concrete & symbolic execution, useful visualizations of the angr backend, as well as a suite of features for vulnerability detection & exploit generation.
	Keys to Homebrew	
19:30-20:00	Anonymous An american who has been living in r2land since 2014.	Relatively quick walkthrough to exploiting and running custom code on a smart key, starting with zero knowledge about the system, ending of course with playing DOOM on the embedded device, Showing hardware hacking, and r2 for reversing.
	Where is my Ransom? Hunting for Ransomware Gangs using r2 and Yara Kevin Gomez	My goal is to collect the newest samples of specific ransomware gangs and understand the different actors. At the beginning of this project, I started to analyse samples from different reports by hand. This task was very time consuming. I was not able to gain new insights after analysing a few samples for a specific group. The collected IOCs and TTPs were already know. So I was not able to generate benefit for anyone.
20:00-20:45	I'm an incident responder with a strong focus on malware analysis.	How am I able to collect new samples for specific groups? I decided to hunt using Yara and I used VirusTotal and Hybrid Analysis to perform my hunts.
	PhD student. My interests are forensics, malware analysis and reverse engineering.	In my talk, I will explain: - the goal of Yara and its capabilities the syntax & best practices how I created Yara rules using Cutter I will illustrate this for two rules: The maze & clop ransomware In addition, I will explain what I tearned during the journey.
21:00-21:45	Codename: flip.re	We will present an ioldebug plugin to turn 12 into a hypervisor-level debugger, to analyze malware on Windows. The plugin is conceptually similar to the zdbg plugin (unreleased) presented at 12con 2017 by the same author, but is written from scratch in Rust. The project aims to form one of the basic building blocks on which we will build a new commercial malware analysis product.
	Lars Haukli At the age of 12, I was falsely accused of infecting my neighbor's PC with a virus. I had no idea how a virus worked, and I had nothing to do with it! All I wanted was to play a video game.	We also want to discuss how the r2 community can get involved as we work towards an early alpha version of our malware analysis product. This will be a follow-up talk to my 2017 talk on zdbg, which I was unfortunately not able to release.
		The flip project builds on my previous experience, but is a brand new project started from scratch, undertaken by an early stage cybersecurity startup that I recently founded.
21:45-22:00	Closing Pancake Live Chiptune	Live chiptune music generated with Game Boys and Amiga.
22:00-23:00	4Dboy & Neuroflip	with love from the artists that made possible the r2CON 2019 chiptune live party in Barcelona!