

# Yookiterm – http://exploit.courses

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#### Yookiterm: Exploit.courses



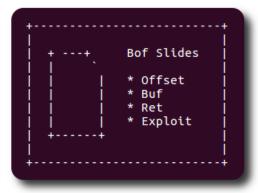
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#### exploit.courses

#### What?

This website provides an interactive exploit development learning area. Every user has access to his own, personal Linux container. The container can be x32 and x64, with and without ASLR - and even 32 bit and 64 bit ARM.

```
## Step by step
## Debugging
## Exploit
```



You don't need to have anything else then a modern browser. Login, select Challenges, and start hacking!

Just want to play around? Start your container without a challenge in the Containers tab.

#### How?

In short: KVM + LXD.

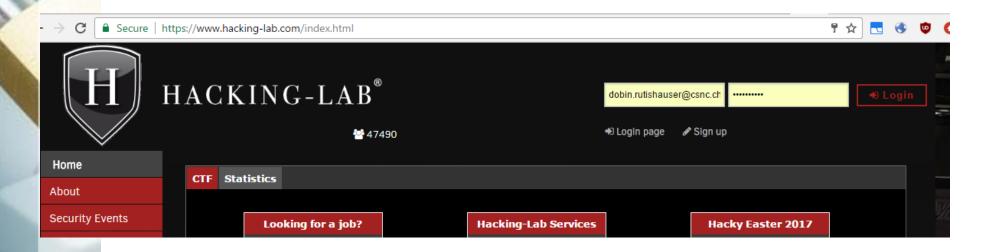
Together with websockets and xterm.js.

Glued together with AngularJS and GO.

## Yookiterm: Exploit.courses



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Login Manual						
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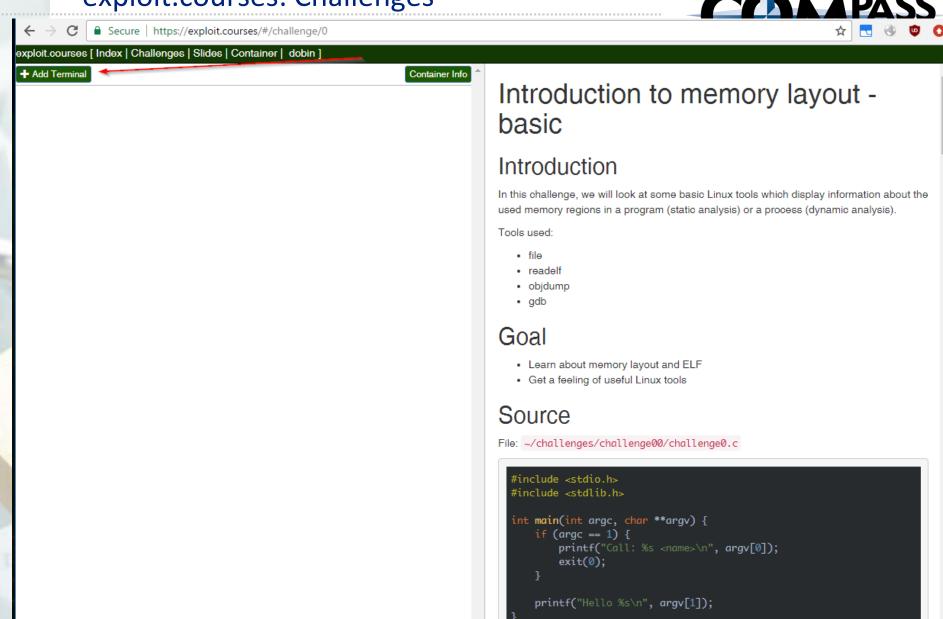
# exploit.courses: Challenges



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exploit.courses [ Index   Challenges   Slides   Container   dobin ]						
ID	Title	Description	Arch	Bite	ASLR	
0	Introduction to memory layout - basic	Static and dynamic analysis of an ELF binary with Linux command line tools	intel	32	•	
1	Introduction to memory layout - advanced	Research on where the different types of variables are stored in an ELF file	intel	32	✓	
3	Introduction to shellcode development	Create a basic running shellcode (print to console)	intel	32	×	
7	Function Call Convention in x86 (32bit)	Analysis of function calling (gdb static and dynamic analysis)	intel	32	×	
8	C buffer analysis	Analysis of out-of-bound read with gdb	intel	32	×	
10	Simple Buffer overflow	Overwrite local variables on the stack to bypass authentication	intel	32	×	
11	Development of a buffer overflow exploit - 32 bit	How to create a simple buffer overflow exploit	intel	32	×	
12	Development of a buffer overflow exploit - 64 bit	How to create a simple buffer overflow exploit	intel	64	×	
13	Development of a remote buffer overflow exploit - 64 bit	How to create a buffer overflow exploit for a networked server	intel	64	×	
14	Stack canary brute force	How to brute force the stack canary in a remote server	intel	64	×	
15	Development of a remote buffer overflow exploit - 64 bit with ASLR	How to create a contemporary remote buffer overflow exploit	intel	64	✓	
20	Introduction to ARM	Basics of the ARM architecture	arm	32	•	
21	Introduction to develop an ARM buffer overflow	Create a simple buffer overflow on ARM	arm	32	•	
31	Heap use-after-free analysis	Analyse a simple use-after-free bug in noteheap	intel	64	<b>✓</b>	
50	Introduction to GDB	A reference and playground for GDB	intel	32	×	

# exploit.courses: Challenges

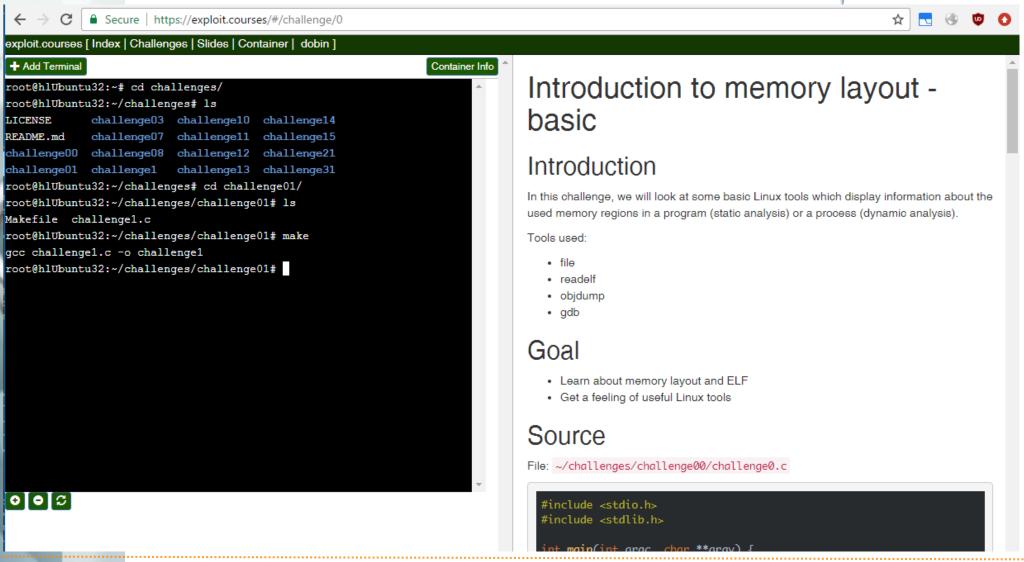




You can compile it by calling make in the folder ~/challenges/challenge00

#### exploit.courses: Challenges





### exploit.courses: Container



There are three different container you can access:

- + ASLR (32, 64 bit)
- → NO ASLR (32, 64 bit)
- + ARM (32, 64 bit)

32 and 64 bit hosts are usually shared, including data

# exploit.courses: Container



Container lifetime: 6 days

Container max lifetime: 12 days

Copy your files with SCP

### exploit.courses: Container



#### The challenge files (vulnerable programs, exploits):

https://github.com/dobin/yookiterm-challenges-files

#### The challenge writeups:

https://github.com/dobin/yookiterm-challenges