SIGPwny @ UIUC
Intro to CTF

Spring 2017

Announcements

- Interest in SIGPwny "office hours"?
- UIUCTF Planning underway
- Manticore focus group
- Thotcon
  - May 4 & 5
- Ciphercon Group Buy

News of the week

- [D-link Routers Patched and Still Vulnerable](#)
- [Windows SMB Protocol Vulnerability](#)
- [Pentest an Aircraft Carrier?](#)
- [Ransomware hits Texas PD](#)
- [Infosec Executive Order expected soon™](#)
- [Old CDProjektRed Database Dumped](#)

It is our understanding that the obsolete forum database contained usernames, email addresses and salted MD5 passwords

(MD5 is an encryption algorithm we used to encrypt your data).

This means your old passwords were secured and not directly accessible by anyone.

flag{no_news_is_good_news}

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Our Goals

- Generate interest and raise awareness in cyber security
- Develop hands-on skills
- SORF a pony
- Win CTFs and other cyber security events
- Get you a job!

Capture the Flag (CTF)

- "Capture the Flag"

- Security competition
  - Jeopardy Style
  - Attack and Defend
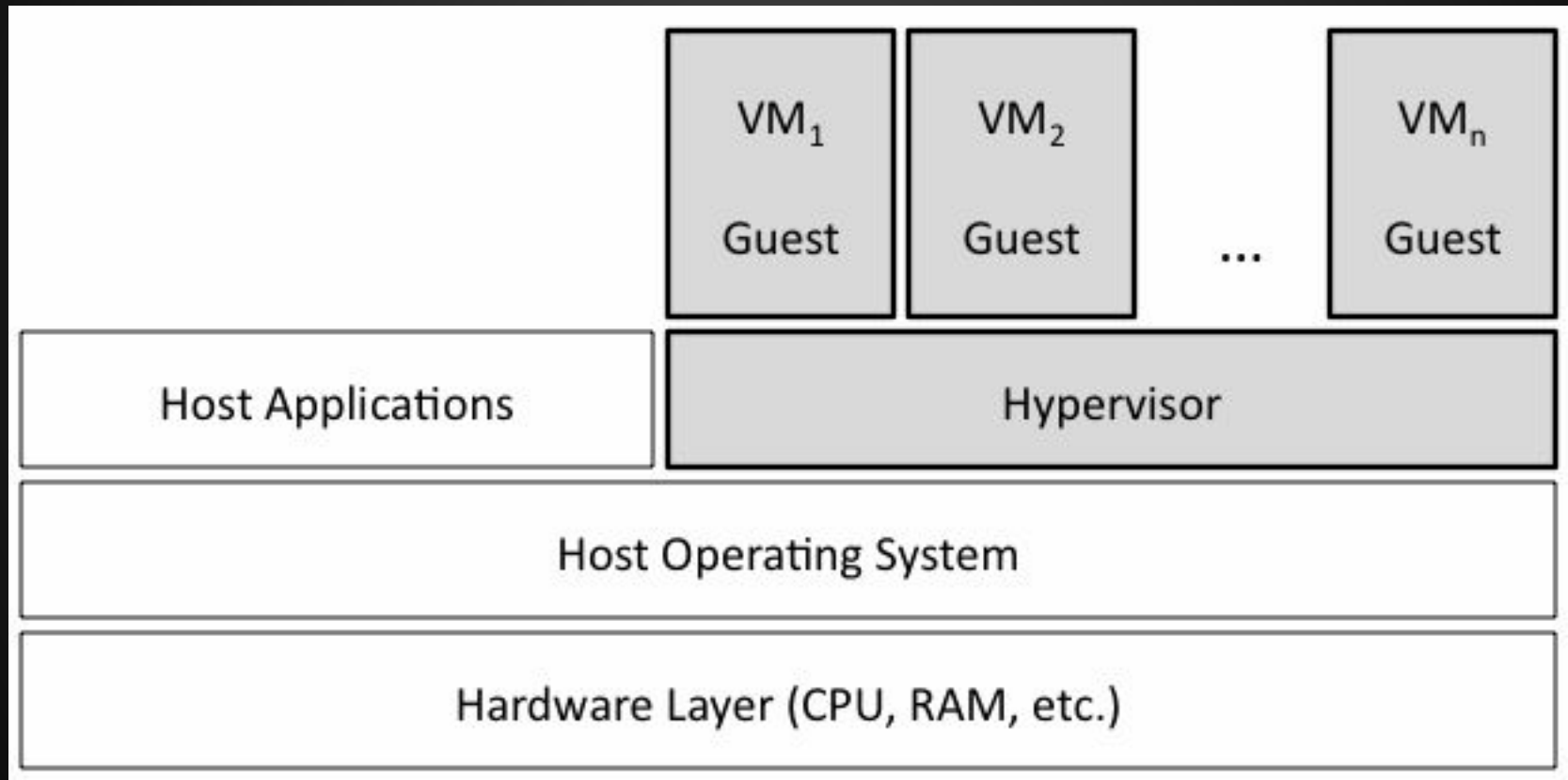
- Use a VM!

Capture the Flag (CTF)

ctf.writes.co.de

Setting up a Virtual Machine

- Isolate guest OS from host OS
- Can use different OS's
- Snapshot and restore virtual machine state

Setting up a Virtual Machine

| VM$_1$ Guest | VM$_2$ Guest | ... | VM$_n$ Guest |

| Host Applications | Hypervisor |

Host Operating System

Hardware Layer (CPU, RAM, etc.)

Setting up a Virtual Machine

- Windows, Linux, OS X
  - VirtualBox
  - VMWare
- OS X
  - Parallels
  - BootCamp
- Masochists
  - QEMU