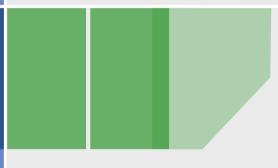


OWASP Cape Town Chapter Meeting 1



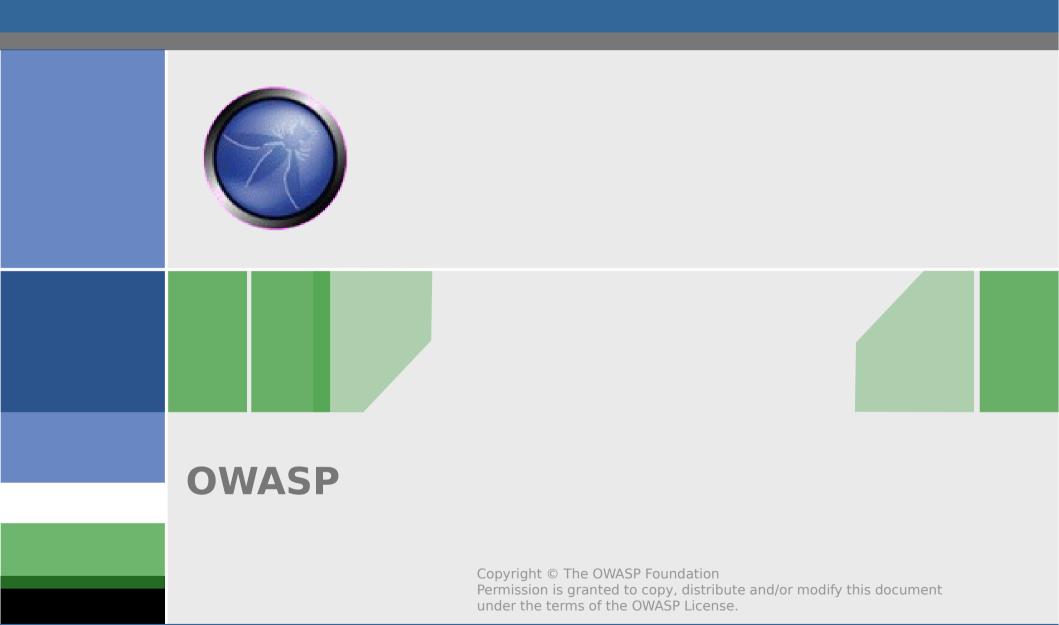
OWASP <date>2015/06/17

- <Name>Christo Goosen
- <Role>Chapter Leader
- <Organization>OWASP CPT
- <email> christo.goosen@owasp dot
- org
- <phone>

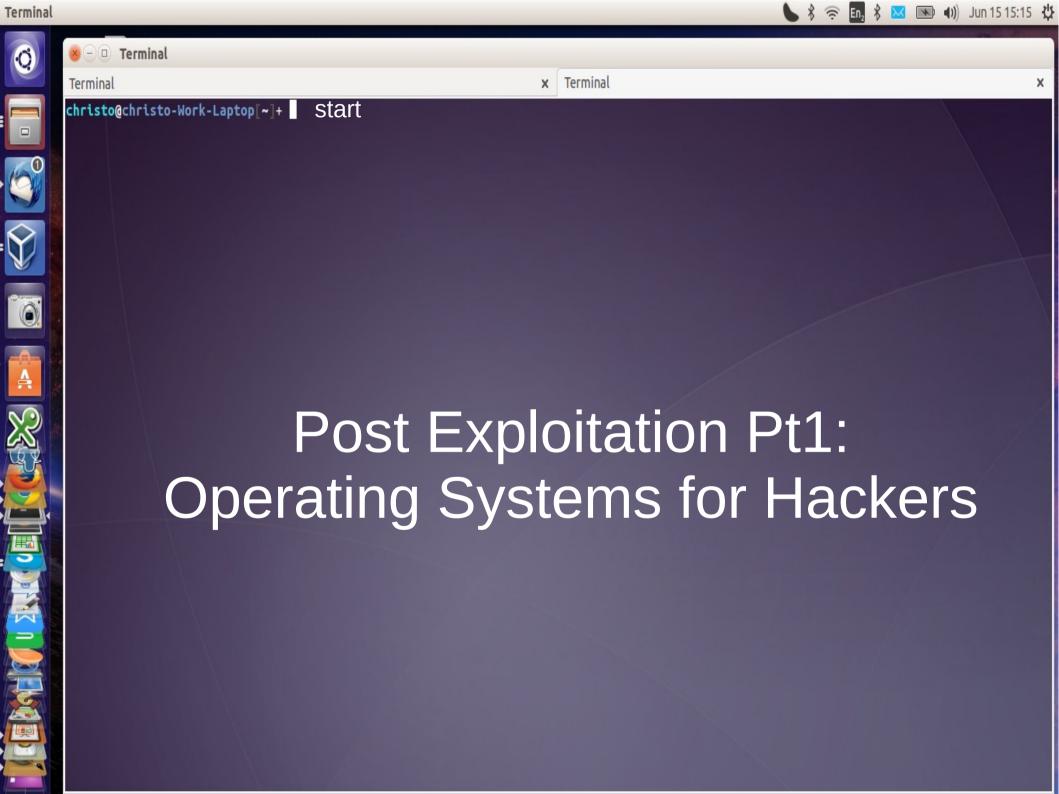
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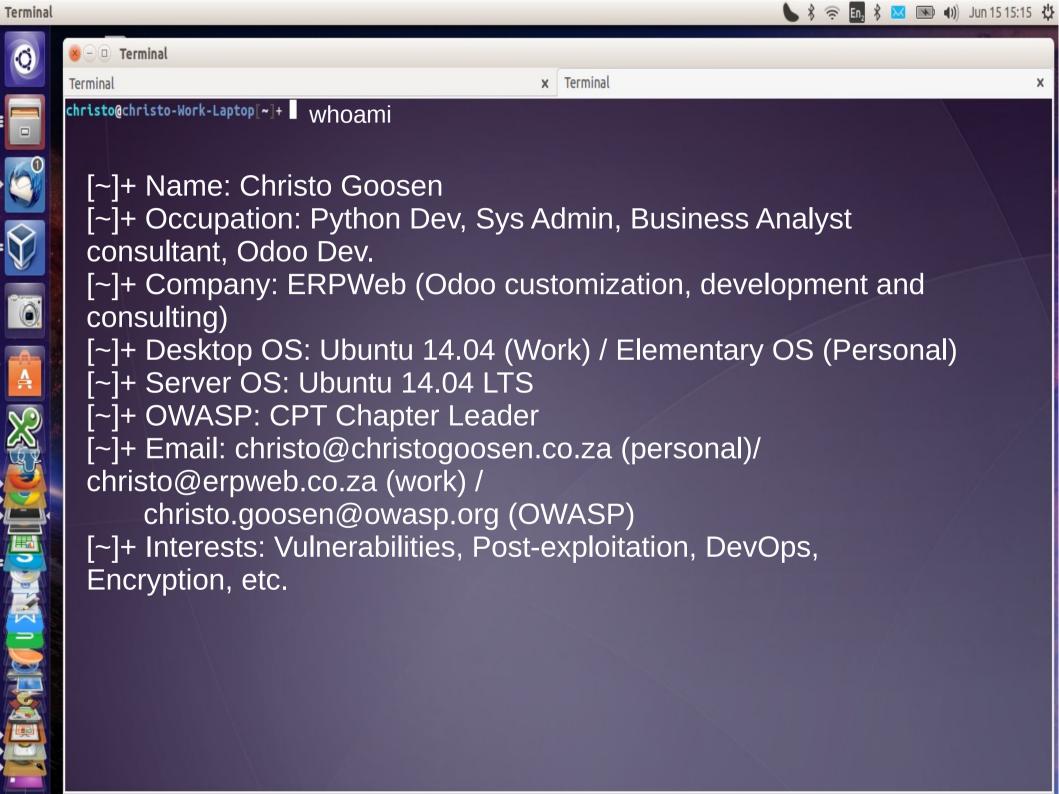
The OWASP Foundation

http://www.owasp.org



The OWASP Foundation http://www.owasp.org

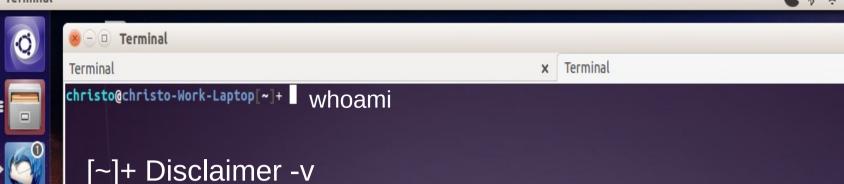












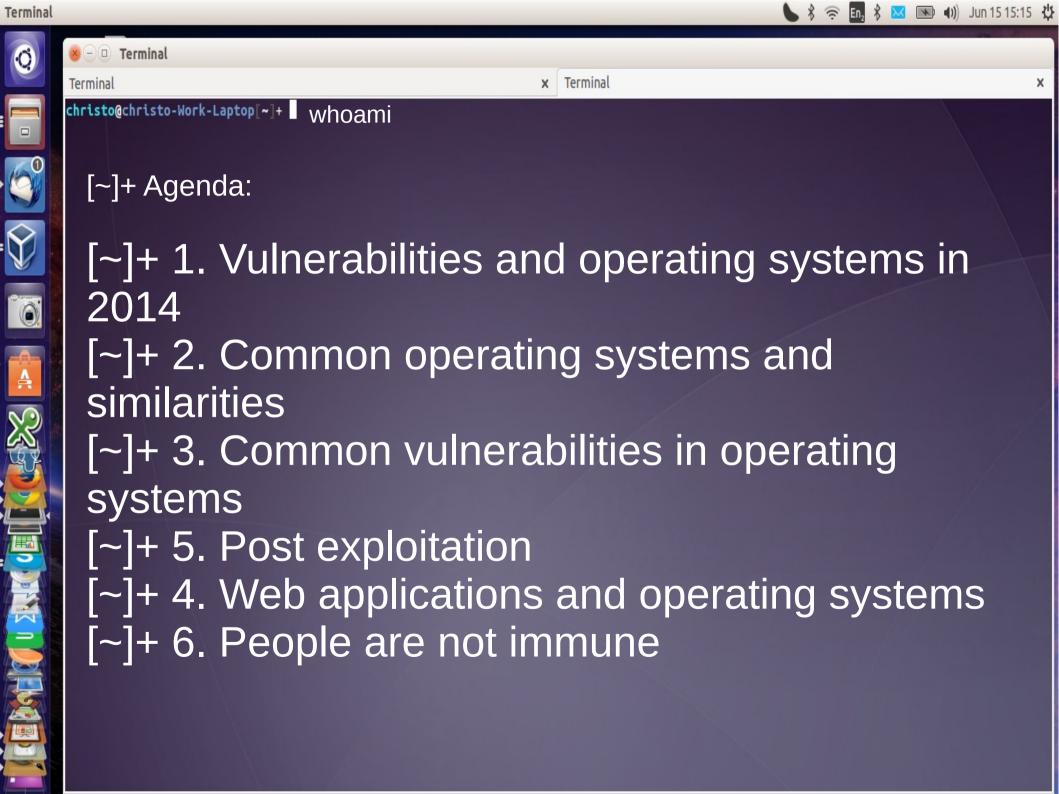
Yeah its disclaimer time

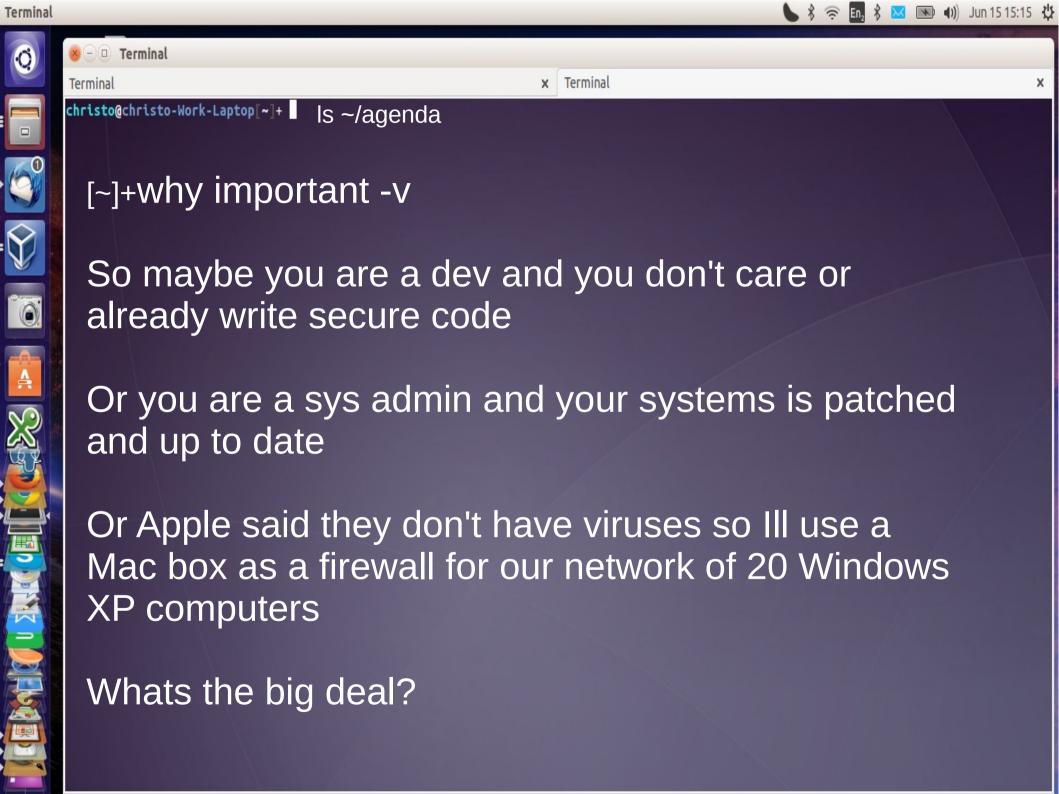
The point of this talk is not to equip a group of individuals with the necessary now how to apply malicious exploitation on a grand scale.

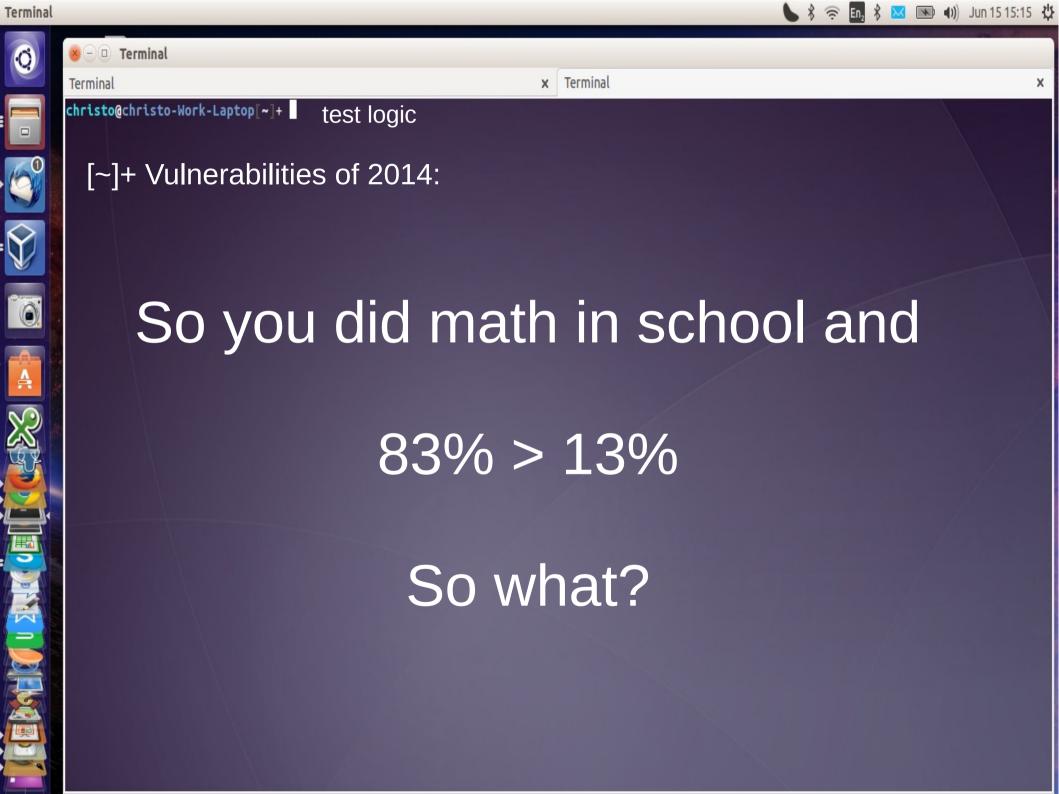
The point of this seties of post-exploitation talks is to equip people interested in security to partake in Blue Team in CTF (Capture the flag) or for sys admins to think similar to a malicious attacker, to enable the thinking necessary to remove a persistent threat. Also the point of this series of talks and of OWASP is to also alert developers of their important role in the security of customer, organization and personal data. After all developers write operating systems as well.

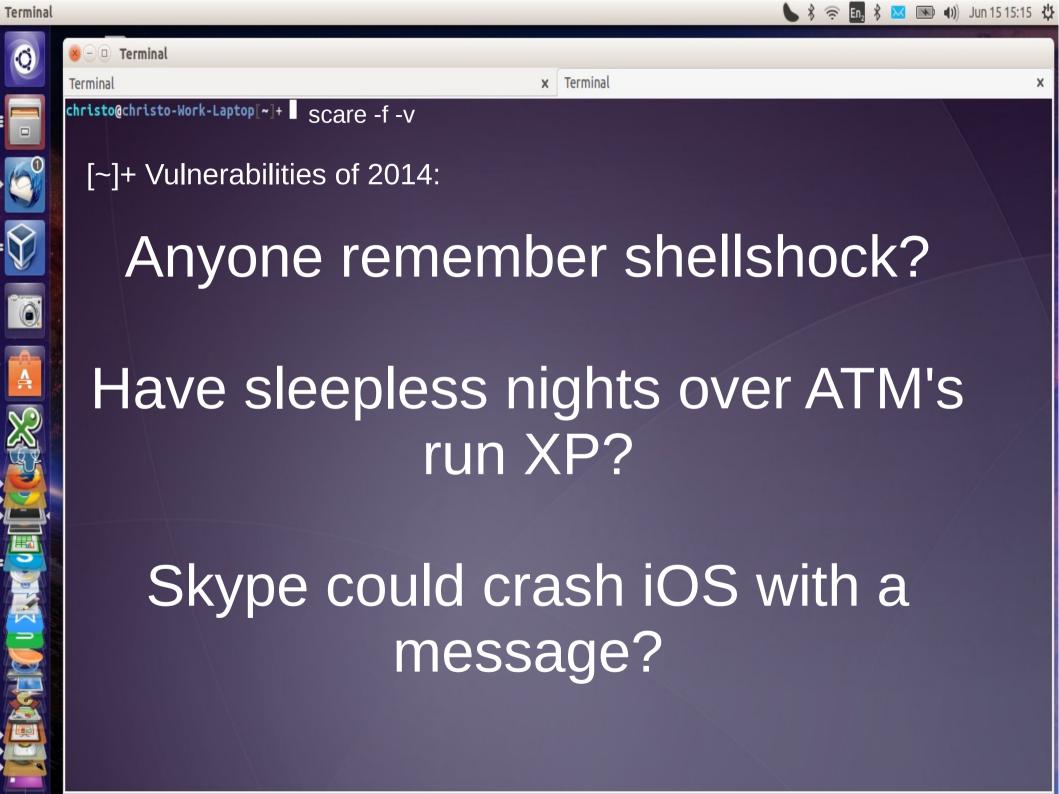
For anyone who wants to know more about CTF: https://ctftime.org/ctf-wtf/

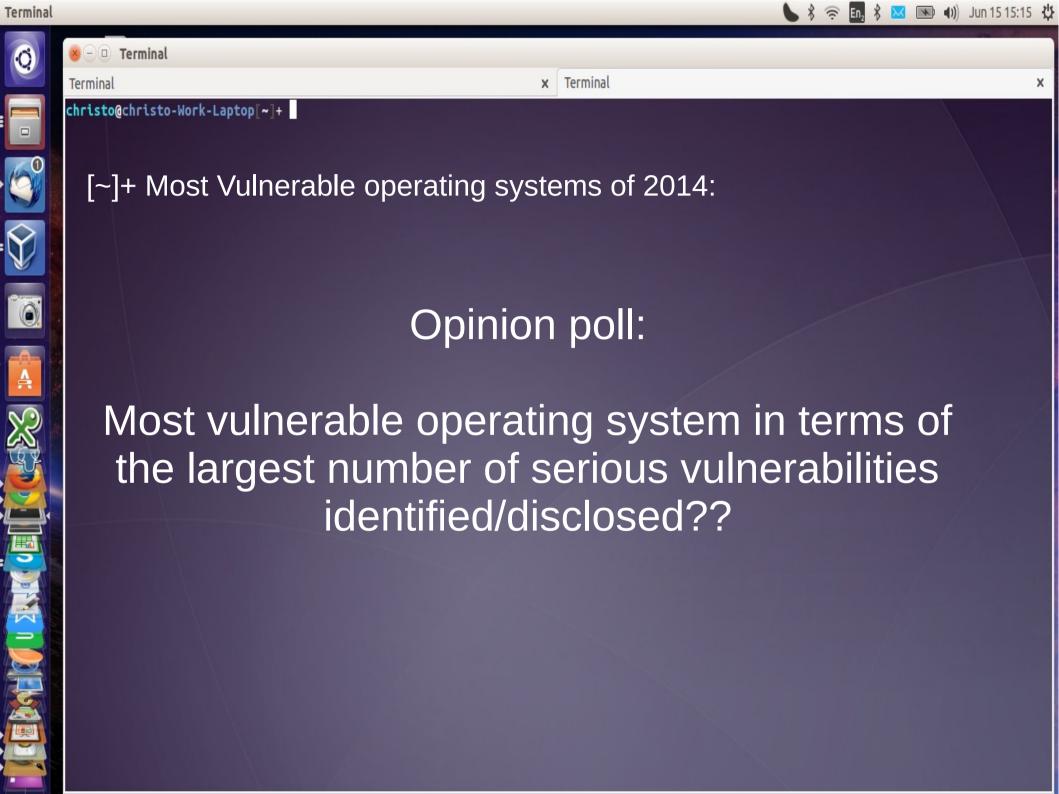
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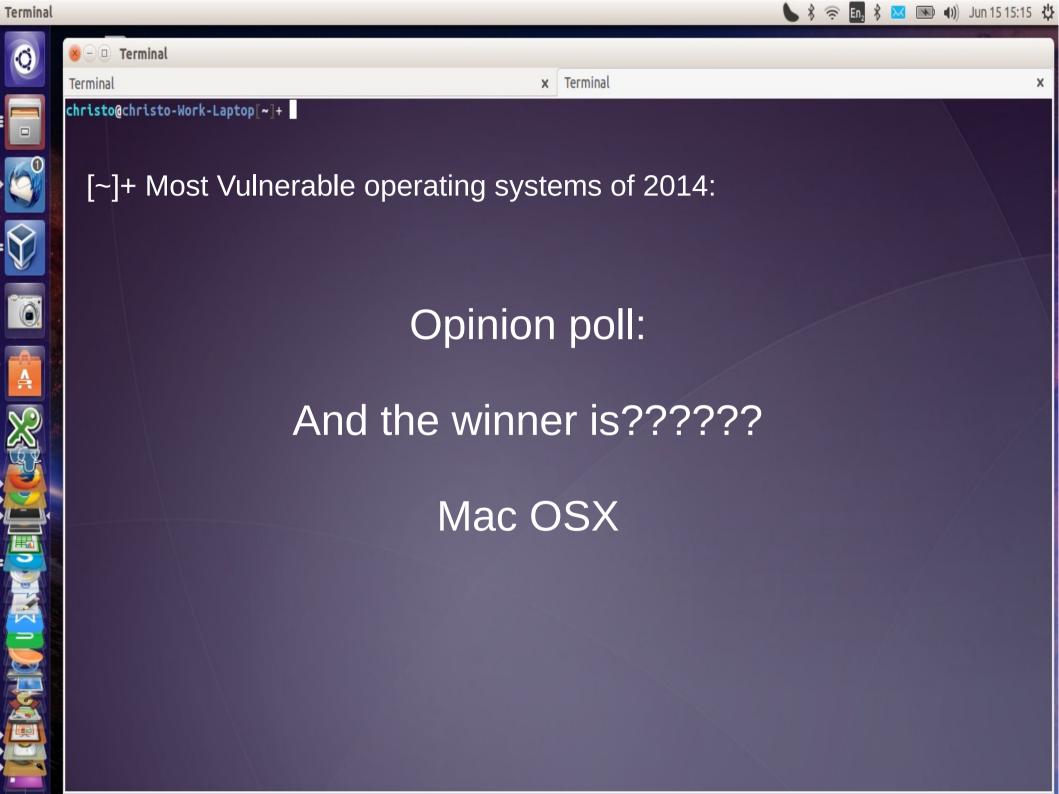










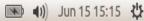














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$[\sim]$ + Most Vulnerable operating systems of 2014:

Operating system	# of vulnerabilities	# of HIGH vulnerabilities	# of MEDIUM vulnerabilities	# of LOW vulnerabilities
Apple Mac OS X	147	64	67	16
Apple iOS	127	32	72	23
Linux Kernel	119	24	74	21
Microsoft Windows Server 2008	38	26	12	0
Microsoft Windows 7	36	25	11	0
Microsoft Windows Server 2012	38	24	14	0
Microsoft Windows 8	36	24	12	0
Microsoft Windows 8.1	36	24	12	0
Microsoft Windows Vista	34	23	11	0
Microsoft Windows RT	30	22	8	0

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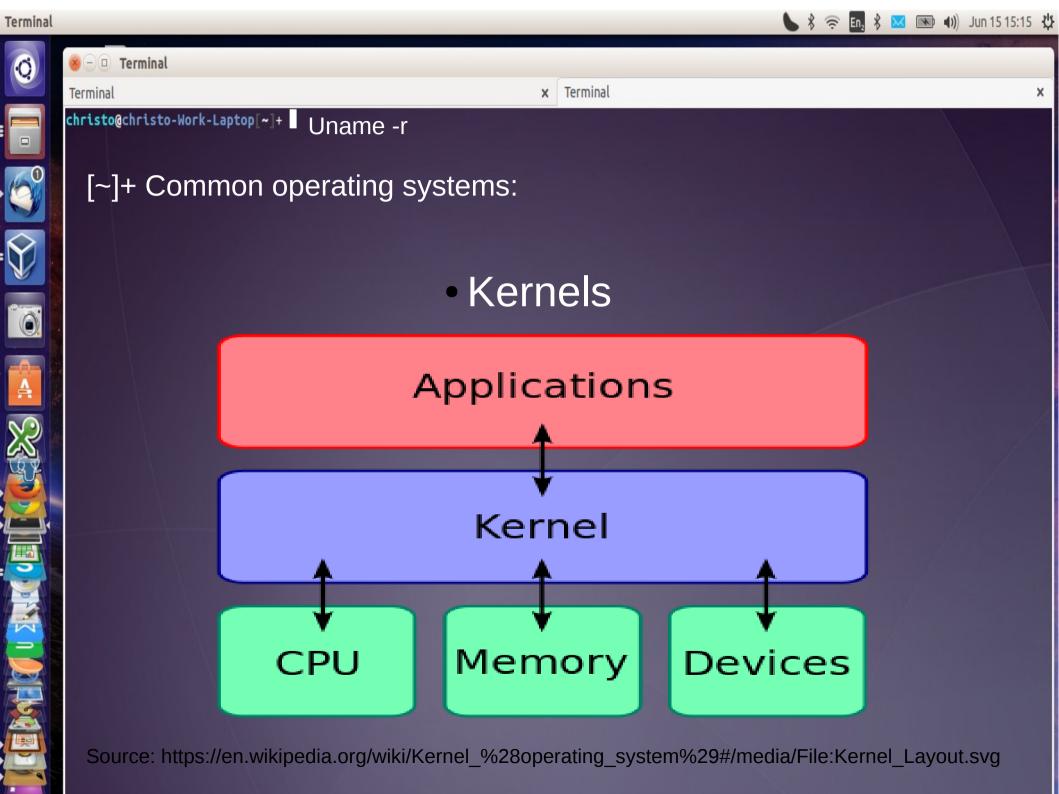


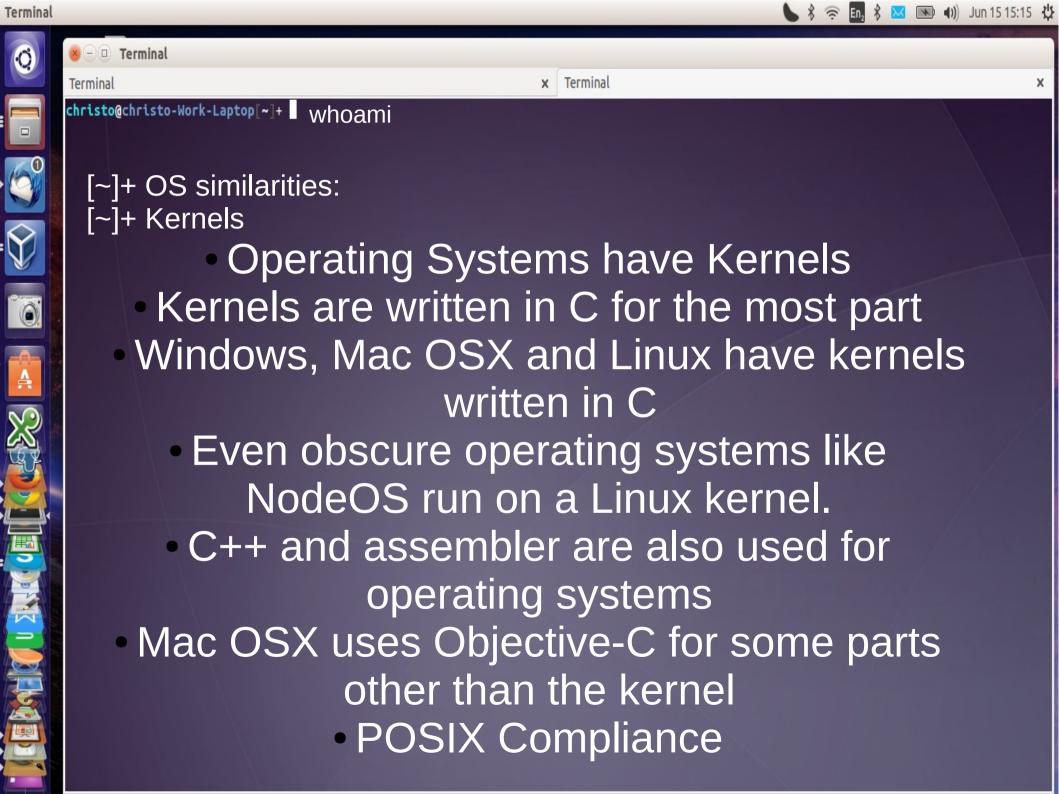


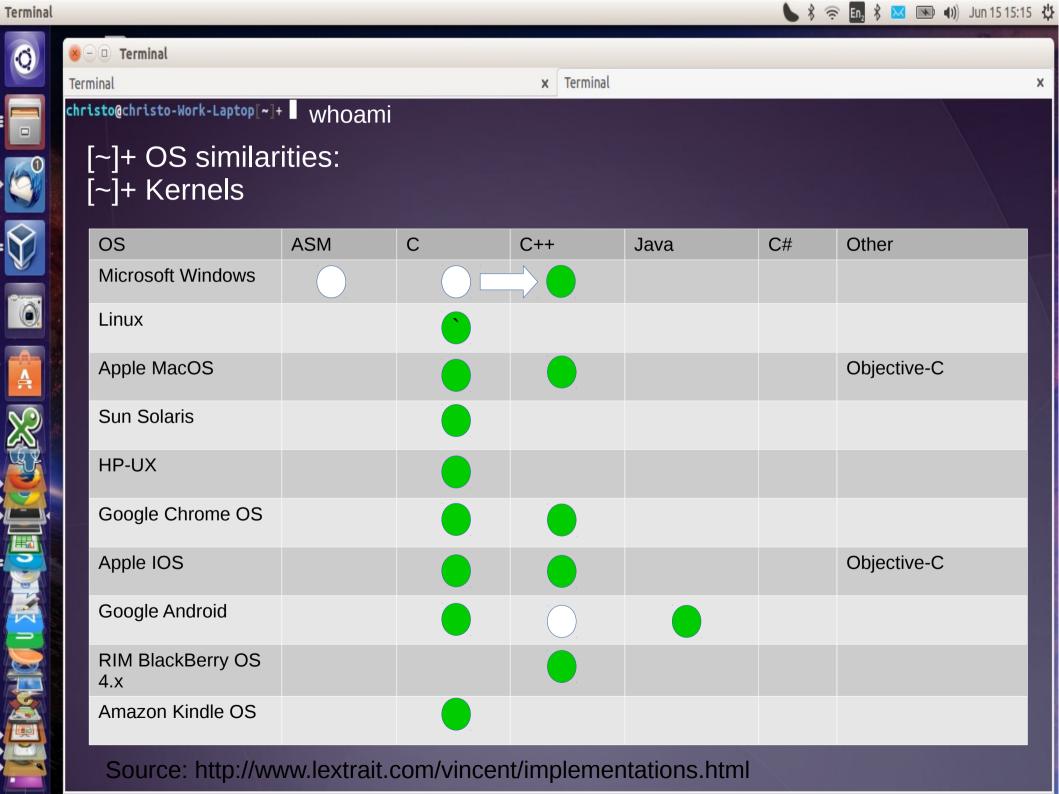


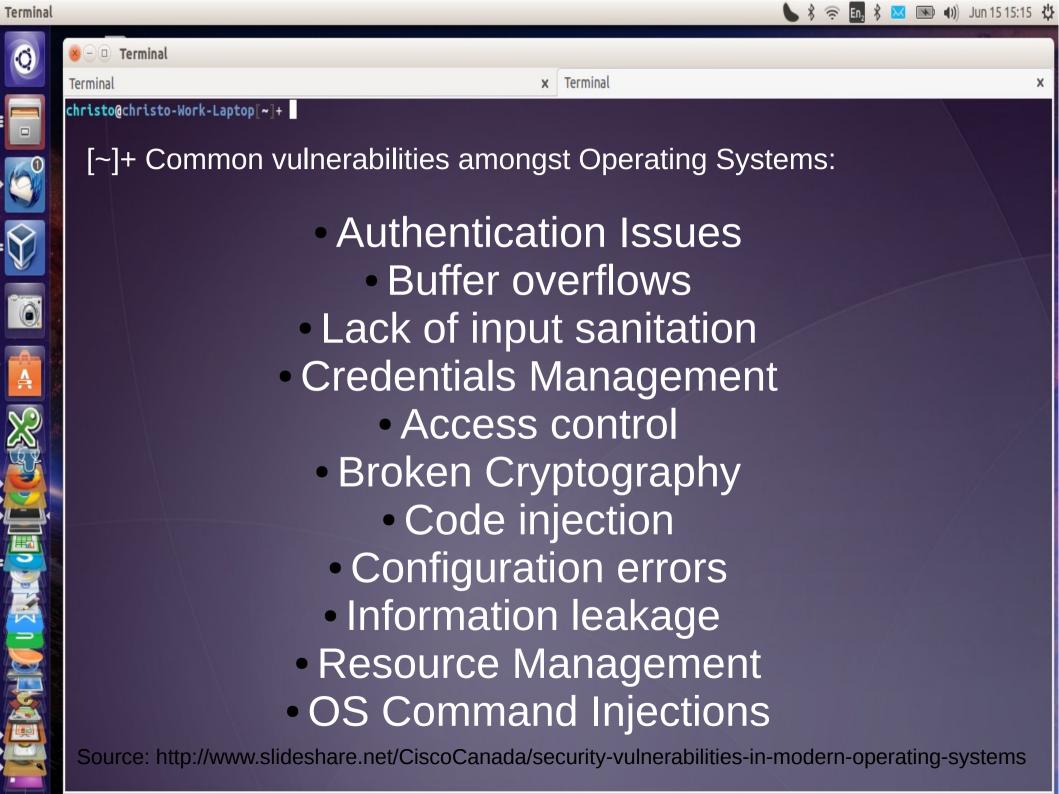












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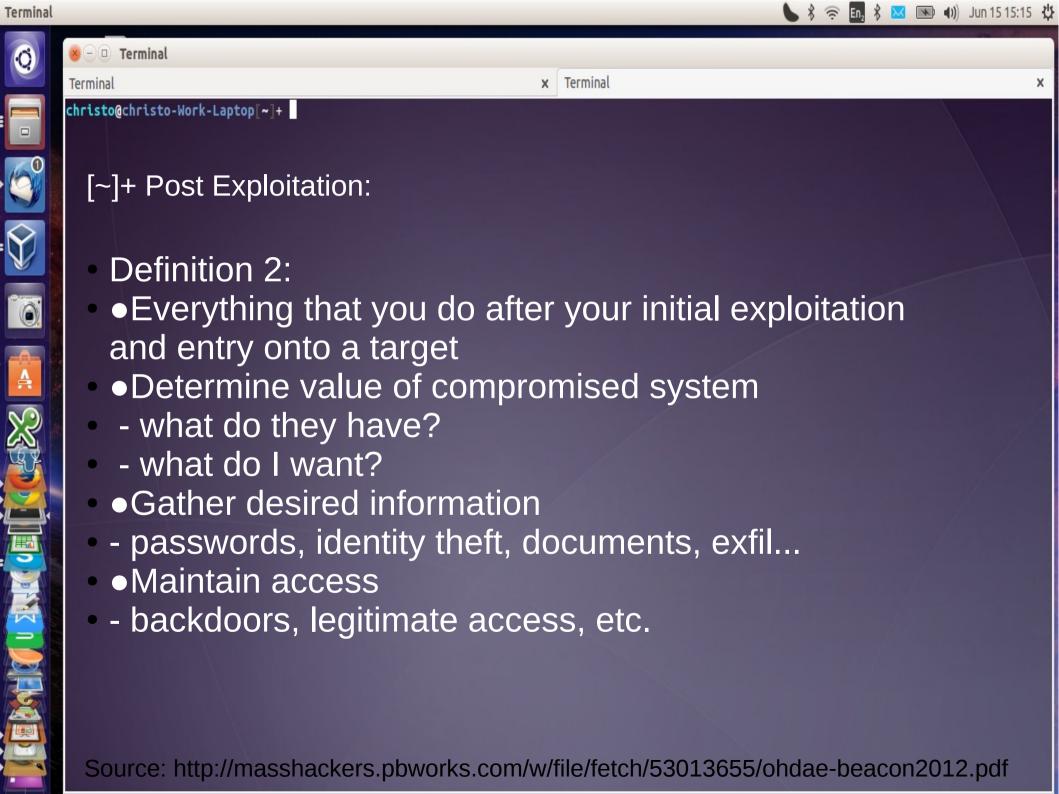
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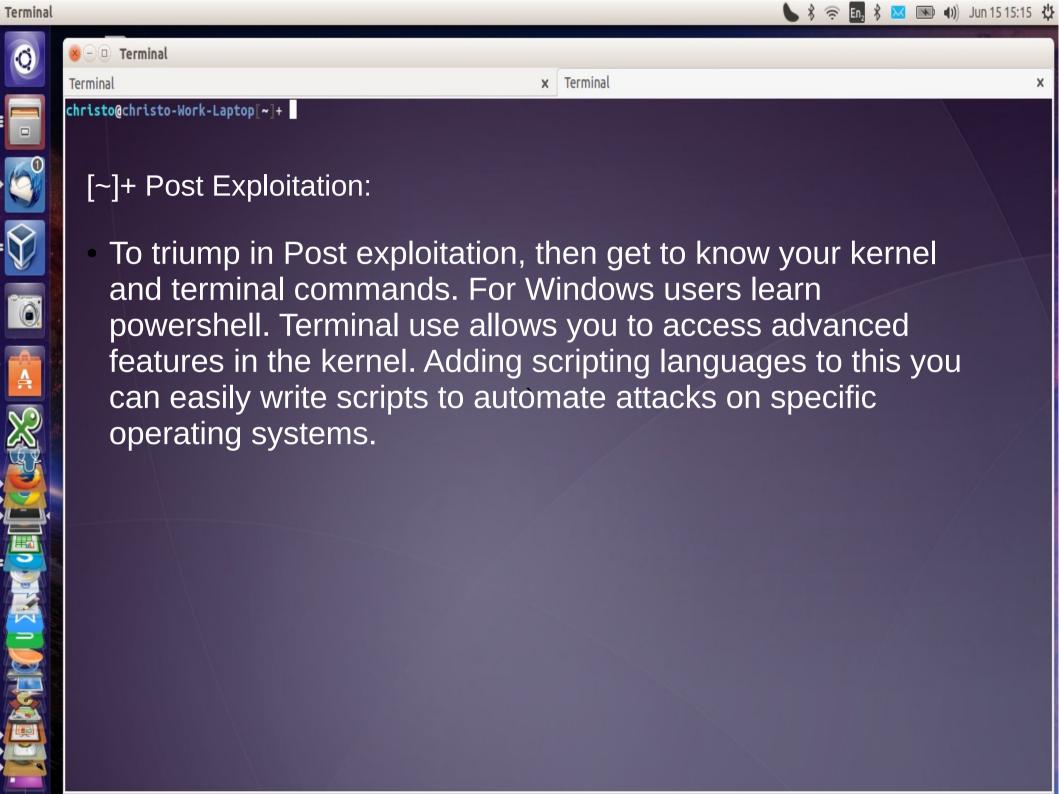
[~]+ Post Exploitation:

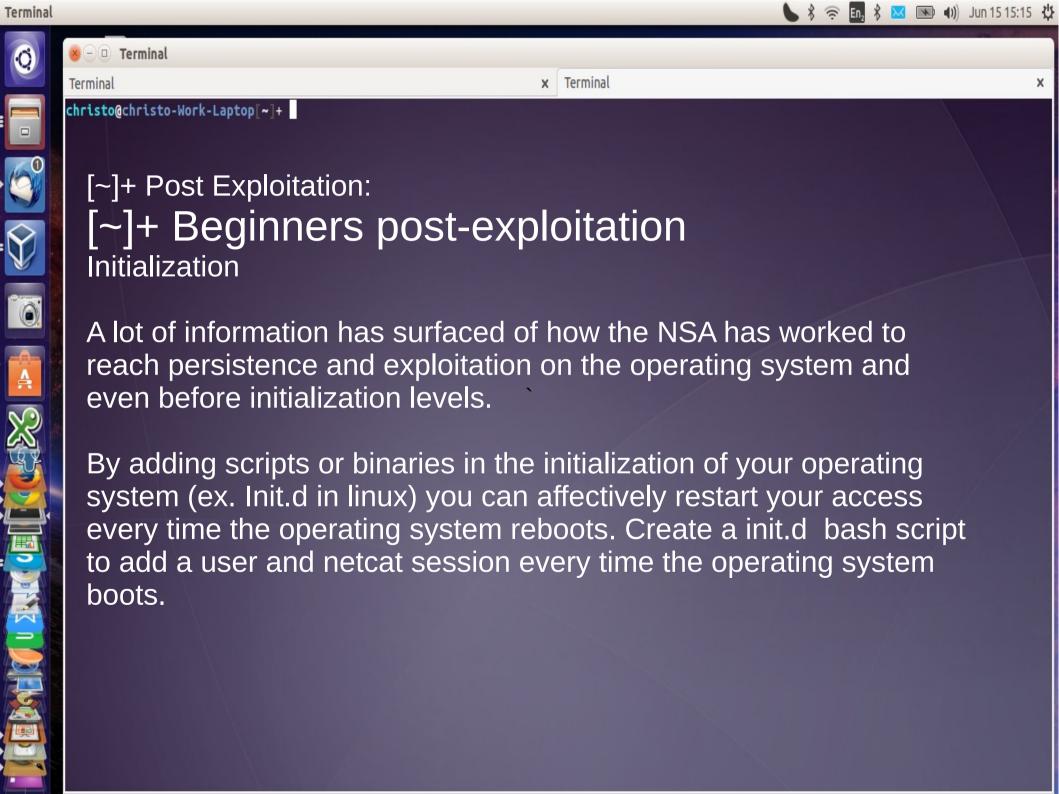
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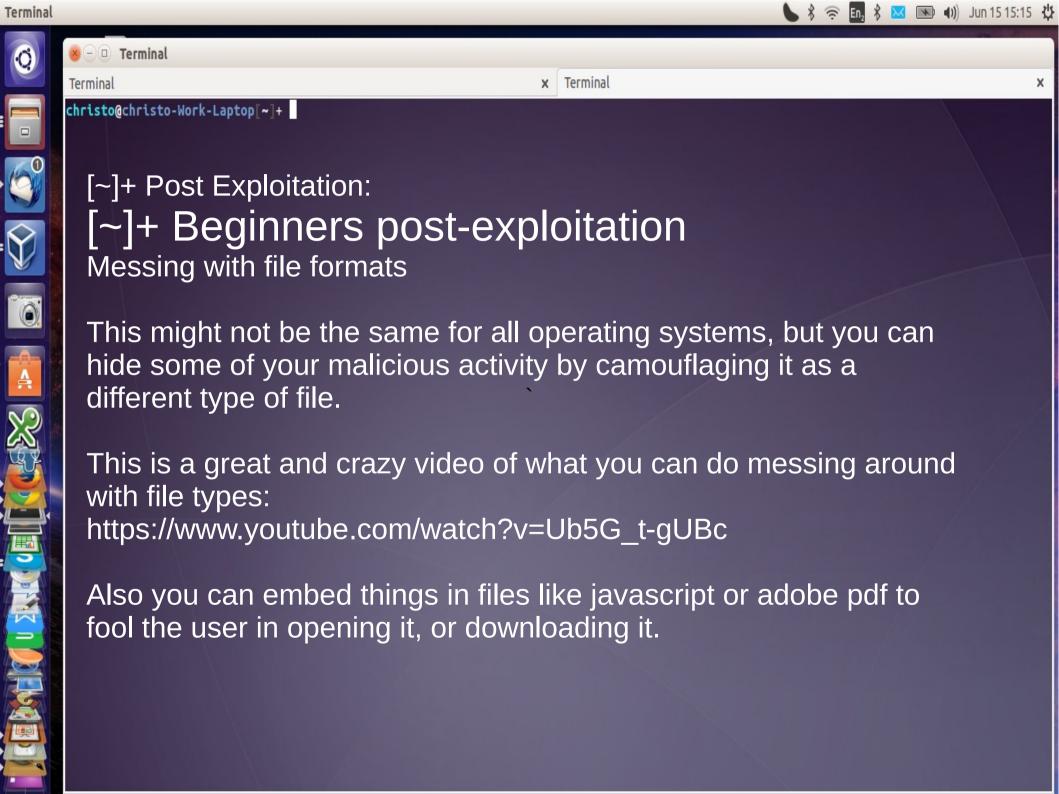
Definition 1: The purpose of the Post-Exploitation phase is to determine the value of the machine compromised and to maintain control of the machine for later use. The value of the machine is determined by the sensitivity of the data stored on it and the machines usefulness in further compromising the network. The methods described in this phase are meant to help the tester identify and document sensitive data, identify configuration settings, communication channels, and relationships with other network devices that can be used to gain further access to the network, and setup one or more methods of accessing the machine at a later time. In cases where these methods differ from the agreed upon Rules of Engagement, the Rules of Engagement must be followed.

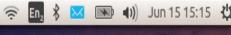
Source: http://www.pentest-standard.org/index.php/Post Exploitation























[~]+ Web Applications and Post-exploitation:

- Most Web applications are written in popular languages like Python, Ruby, PHP, etc. That allow OS command execution.
 - Compromising the web application can lead to exploiting and taking over the operating system without even logging in via ssh.
 - Modern ERPs are complex systems built on web. frameworks and vulnerable to Web vulnerabilities.
- Vulnerable web app can allow a reverse-shell and open the OS to further exploitation
 - Increasingly web application frameworks are used for RESTFULL APIs and micro-services, which can lead to compromising services to mobile devices.

Source: https://pentesterlab.com/exercises/php include and post exploitation/course



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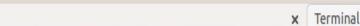












[~]+ Post Exploitation:

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- Why is this important?
- 1. In a pentest: Getting past the Web Application or firewalls isn't always mission accomplished



Source: http://masshackers.pbworks.com/w/file/fetch/53013655/ohdae-beacon2012.pdf



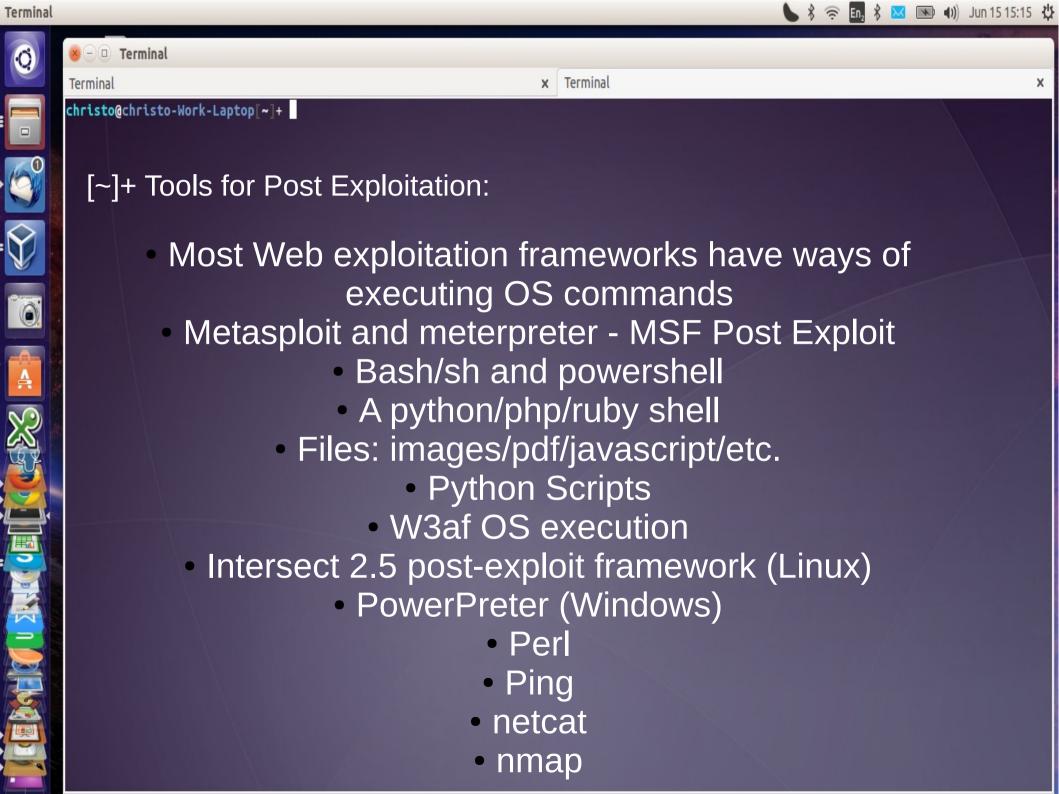


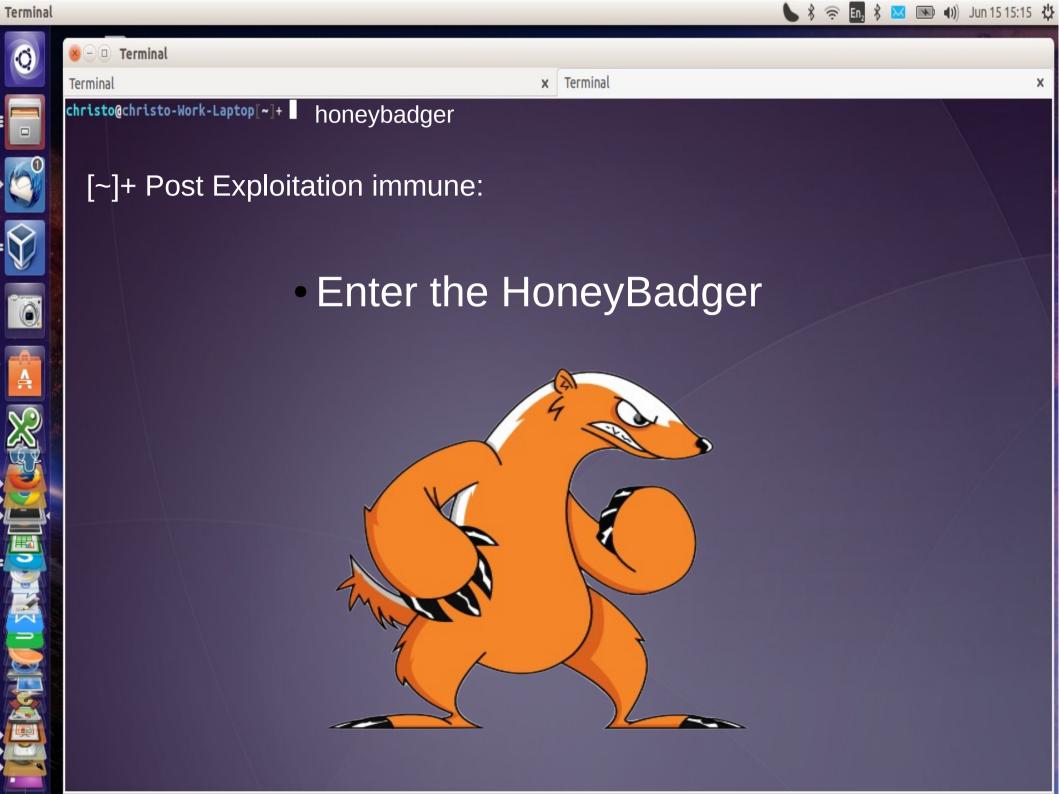


- [~]+ Post Exploitation:
- Why is this important?
- 2. For a Sys Admin: You need to fix whats been done. Think like a hacker to stop one



Source: http://masshackers.pbworks.com/w/file/fetch/53013655/ohdae-beacon2012.pdf

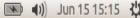














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[~]+ what is honeybadger?:



- Imagine you have to find and track someone such as a internet/smartphone active indiviual (terrorist).
- Identify target web patterns or lure target to compromised/your own server

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- Exploit target/someone through Javascript/PDF/Java etc. This is used for further post-exploitation
- Post exploitation through metasploit and other tools
- Once badger has foothold on target, look for system info and geolocation data
- Use geolocation data with Google Geolocation API
- Match geolocation data with social media or access point info.
- Track or apprehend target.
- They have only covered identifying, could expand much further...

Source: https://www.youtube.com/watch?v=Ys86goB5MQw

Source: http://www.lextrait.com/vincent/implementations.html