## Linux Forensics

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Certifications:

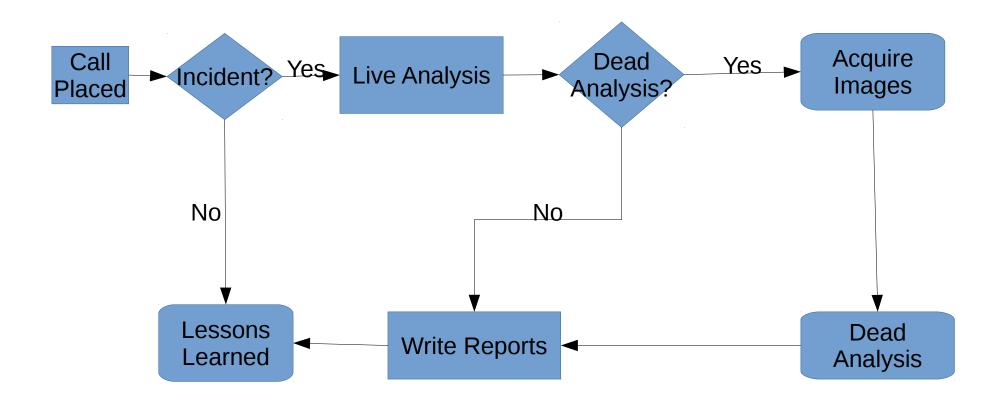
http://www.securitytube-training.com

Pentester Academy: <a href="http://www.PentesterAcademy.com">http://www.PentesterAcademy.com</a>

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### Mounting Images: Extended Partitions

# High Level Process



## **Extended Partitions**

- Used with MBR-based drives with more than 4 partitions
- A primary extended partition stores logical partitions inside of itself
- Each logical partition is proceeded by an "MBR sector"
  - Offsets are relative to extended partition
  - Interpreted as a linked list
  - Normally only first two entries are used

## Extended Partition MBR Format

Offset	Length	Item
0 (0x00)	446 (0x1BE)	Boot code (unused)
446 (0x1BE)	16 (0x10)	First partition
462 (0x1CE)	16 (0x10) Second partition (if	
478 (0x1DE)	16 (0x10)	Third partition (unused)
494 (0x1EE)	16 (0x10)	Fourth partition (unused)
510 (0x1FE)	2 (0x2)	Signature 0x55 0xAA

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# Partition Record Format

Offset	Length	Item
0 (0x00	1 (0x01)	Active flag $(0x80 = bootable)$
1 (0x01)	1 (0x01)	Start head
2 (0x02)	1 (0x01)	Start sector (bits 0-5); upper bits of cylinder (6-7)
3 (0x03)	1 (0x01)	Start cylinder lowest 8 bits
4 (0x04)	1 (0x01)	Partition type code (0x83 = Linux)
5 (0x05)	1 (0x01)	End head
6 (0x06)	1 (0x01)	End sector (bits 0-5); upper bits of cylinder (6-7)
7 (0x07)	1 (0x01)	End cylinder lowest 8 bits
8 (0x08)	4 (0x04)	Sectors preceding partition (little endian)
12 (0x0C)	4 (0x04)	Sectors in partition

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# Mounting extended partitions