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# Introduction to Digital Forensics





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# Content of workshop

- Digital forensics?
- File?
- Memory forensics?
- Network analysis?
- Mindset & tricks





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# Digital forensics



Source: Rocky Mountain

Digital forensics can be summarized as the investigations to a virtual crime. In simpler words it is the art of gathering computer related evidence of a hack.



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# Digital forensics & Incident response



Source: Rocky Mountain

- Origin of the hack
- Lost/Stolen data
- Hacker identity
- Fixes



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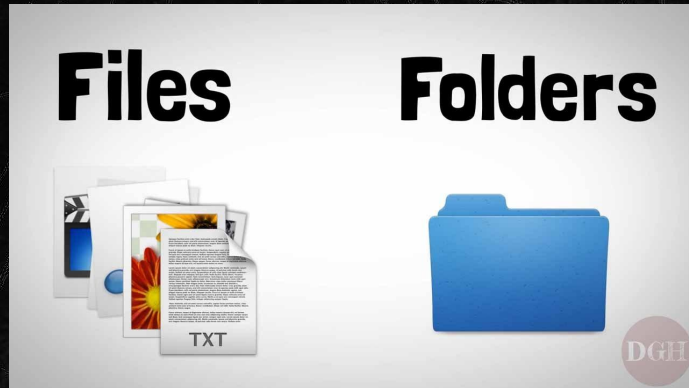


Back to basics, what is a file ?  
really ?



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# Files



Files are just a bunch of bytes!





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File	determine file type
xxd	make a hexdump or do the reverse.
hexedit / <a href="https://hexed.it">https://hexed.it</a>	view and edit files in hexadecimal or in ASCII
binwalk	searching binary images for embedded files and executable code



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# Memory forensics





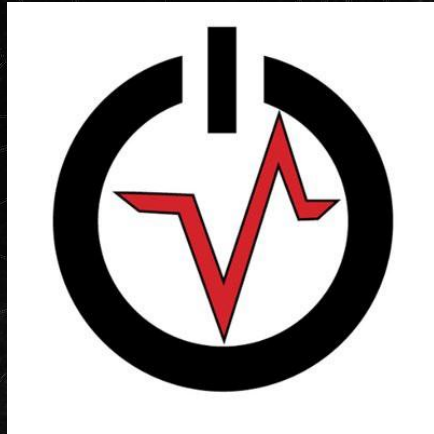
# Persistent Memory

mmls	Display the partition layout of a volume system (partition tables)
fls	fls - List file and directory names in a disk image.
icat	Output the contents of a file based on its inode number.
mount	mount a filesystem



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# Volatile Memory



## Volatility framework

[installation](#)





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# Mindset & tricks in DFIR

- Be curious
- Google around
- Don't be afraid of tools
- Don't neglect any piece of data

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**Time for questions!**