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Security and smart contracts

26 July 2017 by Jules Dourlens

As you may know, the Ethereum and more widely blockchain community suffered from a lot of hacks. These major hacks involved million of dollars stolen by exploiting security vulnerability in smart contracts developed by companies. Even the most talented programmers can easily make a mistake with code and when something involves money: a lot of people are here to exploit any vulnerabilities.

Here are two smart contract hacking that happened:

- [Analysis of the DAO exploit](#)
- [The Parity hack explained](#)

Always remember that it happens and you should always think about security when writing smart contracts or any code that involves manipulating money, or sensitive data.

Here are few advices:

- Always check the input data.
- Keep your contracts as simple and small as possible.
- Keep control and always have a simple and secure way to stop your contract and recover it's holdings.
- Use as much as possible modules to keep codebase tiny and [built around simple modules as we covered with our inheritance tutorial](#).
- Be extremely careful about external contract calls, which may execute malicious code and change control flow.

- Understand that your public functions are public, and may be called maliciously. Your private data is also viewable by anyone.

They are many possible flows in a smart contract [such as integers overflow and underflow](#). Always keep up to date and learn about how your code could be exploited.

Please go and [read the smart contracts best practices guide on Github](#). Also, always stay updated by reading news and following suggested peoples on Twitter.

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