

Student CTF

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Raphael Ernst

Assignment Sheet 4

Information about this sheet:

- Release date: Tuesday, June 11th, 2013
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Exercise 4: Cracking

Sheets 2 and 3 introduced the concepts of binary analysis and patching. The current sheet combines both tasks. Download the binary file https://net.cs.uni-bonn.de/fileadmin/user_upload/ernst/sheet4.bin. It was compiled on our lab computer essen (Ubuntu Karmic, Kernel 2.6.31-22, i686) but should also work on most other lab computers and 32-bit Ubuntu.

The binary takes a single input parameter and prints *Access granted* if the provided *login credential* is correct. Otherwise *Access denied* will be printed to the console. Solve the following two tasks:

- a) Figure out, what the login credential checker does and provide a tool to output a random valid login credential - that's like creating a key generator for a software.
- b) Remove the credential checker from the binary, such that *Access granted* will be printed for all credentials. *The idea is to remove the check - not to change the output for invalid logins!*