


SOCKS5

Start Assignment



Due Sunday by 11:59pm **Points** 100 **Submitting** a file upload **File Types** py
Available until Apr 20 at 11:59pm

you will be implementing the SOCKS5 protocol using the serialize package that our class has chosen. the RFC for SOCKS5 is <https://tools.ietf.org/html/rfc1928>  [_\(https://tools.ietf.org/html/rfc1928\)_](https://tools.ietf.org/html/rfc1928).

specifically, you will implement a SOCKS5 server that can handle TCP connect requests. you only need to handle IPv4 addresses and hostnames. you will also need to do username/password authentication. please just hardcode the username "cs158b" and the password "Pa55word" to check for now.

this assignment is an opportunity to familiarize yourself with serializeme. you can find the documentation for serializeme at <https://github.com/jroosenschoon/serialize-me>  [_\(https://github.com/jroosenschoon/serialize-me\)_](https://github.com/jroosenschoon/serialize-me). you should not build any packets by hand. all packets must be built using the serializeme API.

Some Rubric

| Criteria | Ratings | | Pts |
|---|------------------------------|-------------------|--------|
| simple requests work curl -x "socks5h://cs158b:Pa55word@127.0.0.1:1080" " http://google.com  http://google.com ." curl -x "socks5h://cs158b:Pa55word@127.0.0.1:1080" https://www.google.com  https://www.google.com _" | 20 to >0.0 pts Full Marks | 0 pts No Marks | 20 pts |
| able to handle multiple clients with out stopping and blocking | 20 to >0.0 pts Full Marks | 0 pts No Marks | 20 pts |
| uses the serializeme API correctly all serialization/deserialization done with serializeme | 20 to >0.0 pts Full Marks | 0 pts No Marks | 20 pts |
| userid and password validated properly | 20 to >0.0 pts Full Marks | 0 pts No Marks | 20 pts |
| remote hostname resolution as well as IP addresses work properly | 10 to >0.0 pts Full Marks | 0 pts No Marks | 10 pts |
| code is clear and readable | 10 to >0.0 pts Full Marks | 0 pts No Marks | 10 pts |
| Total Points: 100 | | | |