CptS 427 – Homework 4 Answers

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1. What salt is used in the password file?

The salt used for all cracked passwords is: regard.

2. Which user has the most failed logins?

The user with the most failed logins is: jamesh with 16 failed login attempts.

3. Which user has not logged in for the longest time?

The user who has not logged in for the longest time is: wooda (last login on 2023-01-07T18:31:18Z).

4. How did you determine the salt and cracked the hashes?

I wrote a Python script that brute-forced all combinations of password and salt from the provided wordList.txt, generating hashes using MD5. For each user's stored hash, I computed:

MD5(password + salt)

and compared the result. If a match was found, the corresponding password and salt were recorded. All successful matches revealed **regard** as the common salt.