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RESEARCH ARTICLE

Graphical Secure Password Method against Online Password Hackers (Guessing Attacks)

G. Sudheer Reddy[1], G. Venkata Prasad[2], V. Hari Prasad[3]

[1]M.Tech (CSE), Sphoorthy Engineering College, Hyderabad, India

[2]Associate Professor, Sphoorthy Engineering College, Hyderabad, India

[3]Head of the Department (CSE & IT), Sphoorthy Engineering College, Hyderabad, India

[1] SudheerReddy1313@gmail.com, [2] Prasad.venkata8@gmail.com, [3] hariprasadvemulapati@gmail.com

Abstract— Passwords are a common form of authentication and are often the only barrier between a user and your personal information. There are several programs attackers can use to help guess or "crack" passwords, but by choosing good passwords and keeping them confidential, you can make it more difficult for an unauthorized person to access your information. We propose a new Password Guessing Resistant Protocol (PGRP), derived upon revisiting prior proposals designed to restrict such attacks. While PGRP limits the total number of login attempts from unknown remote hosts to as low as a single attempt per username, legitimate users in most cases (e.g., when attempts are made from known, frequently-used machines) can make several failed login attempts before being challenged with an ATT. We analyze the performance of PGRP with two real-world data sets and find it more promising than existing proposals.

Full Text: http://www.ijcsmc.com/docs/papers/August2013/V2I8201340.pdf