The American College of Greece

Password Policy

Introduction and purpose

Passwords are one of the most important aspects of computer security. A poorly chosen password may result in unauthorized access and/or exploitation of ACG's resources. All users, that have access to systems and services of ACG, are responsible for taking the appropriate steps to select and secure their passwords.

The purpose of this policy is to establish a standard for creation of strong passwords, their protection and the frequency of change. Also, additional protection methods to enhance password security are described (e.g. MFA).

The scope of this policy includes everyone who have or are responsible for an account (or any form of access that supports or requires a password) on any system that resides (physically or logically) at any ACG facility, has access to the ACG network, or stores any non-public ACG information.

Technological resources are provided by the College to support its primary role of education, research and associated functions related to this role.

The College complies with, and adheres to, all its current legal responsibilities including under Data Protection, Electronic Communication and Intellectual Property legislation.

Responsible College Office & Officer

The Office of Information Resources Management (IRM) and its InfoSec Operations Team are responsible for the maintenance of this policy, and for responding to questions regarding this policy.

Who is governed by this policy?

This policy applies to all individuals who are granted access to ACG Technological Resources. Those individuals covered include, but are not limited to, faculty, staff, students, alumni, those who are working on behalf of the College, and/or individuals authorized by affiliated institutions and organizations.

Exercising access to any ACG technological resource automatically signifies acceptance of this policy.

Definitions

Computer Network - Two or more computers that can share information, typically connected by cable, data line, or satellite link.

SNMP - Simple Network Management Protocol (SNMP) is a popular protocol for network management. It is used for collecting information from, and configuring, network devices, such as servers, printers, hubs, switches, and routers on an Internet Protocol (IP) network.

Dictionary attack - attempts to defeat an authentication mechanism by systematically entering each word in a dictionary as a password. Dictionary attacks are often successful because many users and businesses use ordinary words as passwords.

Technological Resources – Technological resources include but are not limited to: computers and terminals, software, printers, networks and equipment, telecommunication equipment and services such as telephones, facsimile machines, and voicemail; television and radio systems and equipment; computer information systems; and, data files and/or documents managed or maintained by the College which reside on disk, tape or other media. Technology resources also include multimedia equipped classrooms, computer classrooms, computer laboratories, computer offices, technologies equipped college residencies and computer furnishings operated or maintained by ACG.

Users – Faculty, staff and students as well as others who have been authorized to use The American College of Greece technological resources, i.e. contractors, interns, volunteers, etc.

MFA (Multi-Factor Authentication) - Multi-factor Authentication (MFA) is an authentication method that requires the user to provide two or more verification factors to gain access to a resource such as an application, online account, or a VPN. Rather than just asking for a username and password, MFA requires one or more additional verification factors, which decreases the likelihood of a successful cyber attack**.**

Procedures

Passwords can be changed ONLY by the respective user. Passwords CANNOT be changed over the phone or supplied through e-mail unless adequate verification is provided. If a user has lost any means of accessing his/her account, must contact the IT department in person so the password can be reset.

I.   Password Creation Policy

- All user-level and system-level passwords must conform to the Password Construction Guidelines.

- Users must not use the same password for ACG accounts as for other non-ACG access (for example, personal ISP account, banks, benefits, and so on).

- Where possible, users must not use the same password for various ACG access needs.

- User accounts that have system-level privileges granted through group memberships or programs such as sudo must have a unique password from all other accounts held by that user to access system-level privileges.

- Where Simple Network Management Protocol (SNMP) is used, the community strings must be defined as something other than the standard defaults of public, private, and system and must be different from the passwords used to log in interactively. SNMP community strings must meet password construction guidelines.

II.   Password Change

- All system-level passwords (for example, root enable, NT admin, application administration accounts, and so on) must be changed on at least a quarterly basis.

- All user-level passwords (for example, email, web, desktop computer, and so on) must be changed at least every six months. **The recommended change interval is every three months**.

- Previously used passwords must not be re-used unless a significant amount of time has passed (four months) or at least two other passwords have been used.

- Password cracking or guessing may be performed on a periodic or random basis by the IT Team or its delegates. If a password is guessed or cracked during one of these scans, the user will be required to change it to be in compliance with the Password Construction Guidelines.

- Password creation and changes in respect to this policy WILL be system observed and enforced.

III.   Password Protection

- Passwords must not be shared with anyone. All passwords are to be treated as sensitive, Confidential ACG information.

- Passwords must not be inserted into email messages, documents or other forms of electronic communication.

- Passwords must not be revealed over the phone to anyone.

- Passwords must not be revealed on questionnaires or security forms.

- Do not hint at the format of a password (for example, "my family name").

- Do not share ACG passwords with anyone, including administrative assistants, secretaries, managers, co-workers while on vacation, and family members.

- Do not write passwords down and store them anywhere in your office. Do not store passwords in a file on a computer system or mobile devices (phone, tablet) without encryption.

- Do not use the "Remember Password" feature of applications (for example, web browsers).

- Any user suspecting that his/her password may have been compromised must report the incident and change all passwords.

Users will be held accountable for all actions performed with their passwords, including those performed by other individuals as a result of user negligence in protecting passwords. IT administrators, college officials and other computer support staff will never ask you for your password.

ACG Users are strongly advised to use MFA for email and network logins. MFA is a requirement for all faculty and staff email accounts. It is also a requirement for network and VPN accounts for staff members with decision authority. The IT department will notify accordingly and provide guidance to all faculty and staff that need to comply with MFA procedures.

IV. Application Development Activities

For applications developed to be used within The American College of Greece, developers must ensure that their programs contain the following security precautions:

- Applications must support authentication of individual users, not groups.

- Applications must support authentication through ACG's domain to universally enforce complexity rules.

- Applications must not store passwords in clear text or in any easily reversible form.

- Applications must not transmit passwords in clear text over the network.

- Applications must provide for some sort of role management, such that one user can take over the functions of another without having to know the other's password.

The above rules must be also taken into consideration when purchasing or licensing third party software for ACG use.

V. Password Construction Guidelines

All passwords should meet or exceed the following guidelines

Strong passwords have the following characteristics:

- Contain at least 8 alphanumeric characters (Required).

- Contain both upper and lower case letters (Required).

- Contain at least one number (for example, 0-9) (Required).

- Contain at least one special characters (for example, !$%^&*()_+|~-=\ `{}[]:";'<>?,/). '<>?,/).

Poor, or weak passwords have the following characteristics:

- Contain less than eight characters.

- Can be found in a dictionary, including foreign language, or exist in a language slang, dialect, or jargon.

- Contain personal information such as birthdates, addresses, phone numbers, or names of family members, pets, friends, and fantasy characters.

- Contain work-related information such as building names, system commands, sites, companies, hardware, or software.

- Contain number patterns such as aaabbb, qwerty, zyxwvuts, or 123321.

- Contain common words spelled backward, or preceded or followed by a number (for example, terces, secret1 or 1secret).

- Are some version of "Welcome123" "Password123" "Changeme123"

You should never write down a password. Instead, try to create passwords that you can remember easily but are difficult to guess. One way to do this is create a password based on a song title, affirmation, or other phrase that has a special meaning to the user. For example, the phrase, "This May Be One Way To Remember" could become the password TmB1w2R! or another variation.

(NOTE: Do not use either of these examples as passwords!)

VI. Use of Passwords and Passphrases

Passphrases are generally used for public/private key authentication. A public/private key system defines a mathematical relationship between the public key that is known by all, and the private key, that is known only to the user. Without the passphrase to "unlock" the private key, the user cannot gain access.

Passphrases are not the same as passwords. A passphrase is a longer version of a password and is, therefore, more secure. A passphrase is typically composed of multiple words. Because of this, a passphrase is more secure against "dictionary attacks."

A good passphrase is relatively long and contains a combination of upper and lower case letters and numeric and punctuation characters. An example of a good passphrase:

"The*?#>*@TrafficOnThe101Was*&#!#ThisMorning"

All of the rules above that apply to passwords apply to passphrases.

VII. Password Expiration

Passwords will expire automatically after a period of 180 days. All users will receive appropriate email notification as the password expiration day approaches.

VIII. System Requirements

All ACG IT systems must be password protected and enforce defined password complexity rules (where applicable). Blank passwords are not allowed to be used for system access.

Contact

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Policy Changes

The InfoSec Operations Team is charged with the responsibility to periodically review the policy and propose changes as needed.

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