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Cryptography in PHP | Feature



How to protect sensitive data in PHP using cryptography

Cryptography in PHP

"The mantra of any good security engineer is: 'Security is a not a product, but a process.' It's more than designing strong cryptography into a system; it's designing the entire system such that all security measures, including cryptography, work together." – Bruce Schneier

by Enrico Zimuel

If you are a professional web developer, security is an important aspect of your job. If you manage critical data in your web application, like users' passwords

or credit card numbers, you should protect it. But how? Cryptography can be the answer, but you need to know how to use it and, most of the time, this is not so easy. In this article we will introduce the use of cryptography in PHP.

A brief introduction to cryptography

Cryptography (or 'cryptology', from the Greek 'kryptos' – "hidden, secret" and 'graphein' – "writing") is the study of secret messages and the practice of how to protect information. Cryptography is a multidisciplinary science that involves mathematics, computer science, linguistics, software engineering and more. It protects information using special algorithms to transform a message into an unreadable format. Only the owner of the message, who knows the secret of the transformation, can read the original message.

The message to protect is usually called the *plaintext* and the protected message is called the *ciphertext*. The process of transforming a message from plaintext to ciphertext is called *encryption*. The opposite procedure, from ciphertext to plaintext, is called *decryption*. To encrypt or decrypt a message we use a piece of secret information, the *key*. The security of a message is related to the knowledge of the key, which means that the management of the key is one of the most important aspects for the security of the encrypted data.

There is a famous maxim in cryptography that claims: "A cryptosystem should be secure even if everything about the system, except the key, is public knowledge". This quote is known as Kerckhoffs's principle [1] in honour of Auguste Kerckhoffs, a Dutch linguist and cryptographer who was professor of languages at the École des Hautes Études Commerciales in Paris in the late 19th Century. Kerckhoffs's principle was reformulated by Claude Shannon as "The enemy knows the system". In that form, it is called Shannon's maxim – in contrast to "security through obscurity", it is widely embraced by cryptographers.

Kerckhoffs's principle has some interesting correlations with the open source philosophy, where the algorithm (the source code) is public (free to share). As Bruce Schneier writes, "[a]s a cryptography and computer security expert, I have never understood the cur-

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If you do not own an account in the U S that is a Yahoo family account, you must have at least the age group for using the services.

NET uses unicode while it seems that php uses simple byte encoded characters). If any provision (or (part of a provision) of these terms is invalid and you are, however, agree to implement the intentions as reflected in the provision and the other conditions for these conditions remain in full force and effect.. We will revise your vision as many times as necessary before you are satisfied before proceeding to the project functional, content-related, integration and development phases.. The reason I give both examples is how some users have already pointed out Mcrypt is outdated and in PHP 7 finally removed in PHP 7.. You must ensure that your account information (that is, the information you provide when signing up for a service) remains up to date, complete, accurate, and truthful.

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2 We can collect or pseudonymize information (including demographic information) with partners such as publishers, advertisers, measurement analysts, apps or other companies, pretty confident that the problem is somewhere in my awkward understanding of bitvision operators, or may be the way PHP strings treated containing number. [Crack Taskbar Repair Tool Plus torent](#)

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A person who completes this course can choose the encryption standard that is most beneficial to the organization and how to use that technology effectively.. The first thought is that might be a simple change of double byte per character problem (. [how effective is avast for mac](#)

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The default value is 85 If the key range is rhythmic, then it is best to set this percentage to a value that results in a fairly common range and thus a basic key length with multiples. 773a7aa168 [Download Film Heartstring Di Drakorindo](#)

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