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(57) Abstract :

The anti-phishing system (100) consists of several components that collaborate to identify and prevent phishing attempts. The blacklist database (102) stores information about identified phishing URLs, including details such as the URL itself, identification timestamps, and associated metadata. It can be located at the email server (104), client device (106), or a remote server. The email server (104) manages email communications and may include filtering mechanisms to detect potential phishing emails. The client devices (106) receive and filter emails, while the network facilitates communication between the email server, client devices, and the blacklist database. The matching engine (110) is responsible for comparing the domain name of a URL with the list of known legitimate domain names database, determining potential phishing URLs. The system (100) maintains a database of known legitimate domain names (112), which serves as a reference for the matching engine to verify the legitimacy of URLs. Together, these components work in harmony to protect users from accessing malicious URLs and mitigate the risks associated with phishing attacks.

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