

Abstract

3-Way Scripts as a Practical Platform for Secure Distributed Code in Clouds

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3-Way Scripts are simple code units which can automatically respond to (1) class instantiation and function calls, (2) calls on command line, (3) web API calls. The key merit is that all the three methods are handled by the same code without any additional overhead. This paper adds a security feature for the web API function in form of automatic token generation and sharing across multiple locations. The main objective is the same as for the rest of the proposed design — to minimize the coding overhead from the added security. The upgraded platform is showcased in a cloud environment with a large number of independently running instances of the test code.

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