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(57) Abstract :

Embodiments of the present disclosure relates to a system (102) and method (300) for data security within a computer network by utilizing lattice-based security domains to achieve data confidentiality and integrity through filesystem view separation. In an aspect, the system comprises a processor (202) coupled to a memory (204). The memory (204) stores processor-executable instructions. The processor (202) is configured to establish an access control framework of lattice structures. Further, the processor (202) is configured to create isolated views of one or more files for a security domain based on the lattice structures. Thereafter, the processor (202) is configured to enforce access control policies for the one or more files based on the lattice structure. In the end, the processor (202) is configured to implement the access control policies for accessing the files.

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