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(57) Abstract :

Embodiments of the present disclosure relates to a system (102) and method (200) for mitigating cybersecurity attacks by applying a dynamic network address migration approach. The system (102) comprises a processor (104) coupled to a memory (106). The memory (106) stores processor-executable instructions. The processor (104) is configured to monitor network traffic. Next, the processor (104) is configured to analyse the network traffic to initiate network address migrations. Thereafter, the processor (104) is configured to dynamically reassign network addresses to devices that are vulnerable to specific attacks based on the analysis. In the end, the processor (104) is configured to implement a secure address migration protocol to ensure confidentiality of the migrated network addresses.

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