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(57) Abstract :

A system (102) for detecting malicious beaconing communities within a network using lockstep analysis and co-occurrence graph techniques is disclosed. The system (102) receives data from network nodes, identify entities engaged in beaconing activities through analysis of temporal behaviors and communication patterns, and implements a lockstep analysis module for detecting synchronized activities. Utilizing a co-occurrence graph technique, the system (102) constructs a graphical representation of relationships and identifies communities among network nodes with similar communication patterns. Further, the system (102) identifies communities exhibiting malicious beaconing activities, assesses their severity, and generates an alert that is transmitted to a computing device.

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