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(57) Abstract :

[025] The present invention discloses a machine learning based system for cyberattack detection and prevention in cloud-based, wireless virtual environments. In the present invention, one or more man-in-the-middle (MITM) detection tests initiated by a first node of a networked computing environment to determine whether communications between two other nodes of the same network have been intercepted or attempted to be intercepted by a third node; and it is determined by the first node that at least one of the tests indicates that the communications are likely to have been intercepted. Further, the first node is supplied with data defining the determinations; wherein at least one of the multiple types of MITM detection tests utilises at least one machine learning model trained by training data consisting of multiple samples that individually characterise network data traffic interception to a computer system received. Accompanied Drawing [FIGS. 1-2]

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