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(54) **SYSTEM AND METHOD FOR ASSESSING A CYBER-RISK AND LOSS IN A CLOUD INFRASTRUCTURE**

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(57)

ABSTRACT

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The embodiment herein provides a system and a method for assessing a cyber-risk and loss in a cloud infrastructure includes (a) deriving at least one of asset, topology, network or authentication vulnerabilities of a cloud infrastructure, (b) generating a technology risk machine learning model and a technology risk index, (c) generating a compliance risk machine learning model and a compliance risk, (d) generating a ransomware machine learning model and a business risk by processing (i) the compliance risk machine learning model and the compliance risk, (ii) a business input comprising asset information, cash flow, a value of the asset, (e) determining an asset's ransomware risk and loss based on the business risk and (f) automatically enabling one or more actions to mitigate the asset's ransomware risk and loss by fix misconfigurations or upgrading software using an API of cloud infrastructure.

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