

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311051675 A

(19) INDIA

(22) Date of filing of Application :01/08/2023

(43) Publication Date : 01/09/2023

(54) Title of the invention : SYSTEM FOR SECURING CLOUD-BASED RESOURCES AND SERVICES AND METHOD THEREOF

(51) International classification :G06F0021620000, H04L0067100000, G06F0021600000, G06F0021100000, G06F0012140000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present disclosure relates generally to cloud computing security. More specifically, the present disclosure relates to a system for securing cloud-based resources and services in a cloud computing environment. The system (100) comprises a cloud server (106) and a cloud access security broker (CASB) tool. The CASB tool comprises a policy engine (104), a data encryption decryption module (108) and a user access control module (110). The user access control module (110) is configured to control access of a user organization infrastructure to cloud-based resources based on the defined security policies and rules. Further the present invention relates to a method for securing cloud-based resources and services using a CASB tool. Advantageously the present invention relates to a Cloud Access Security Broker CASB tool that provides enhanced security and visibility for cloud-based resources and services for cloud computing environments.

No. of Pages : 22 No. of Claims : 10