(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/09/2023

(21) Application No.202311062249 A

(43) Publication Date : 13/10/2023

(54) Title of the invention : A SYSTEM AND A METHOD FOR VULNERABILITY ASSESSMENT IN A NETWORK ENVIRONMENT

(51) International classification	:G06F0021570000, G06Q0030060000, H04L0001000000, G06N0020000000, G06F0021550000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)Name of Applicant :
  1)Chitkara University
    Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala ----------- -----------
  2)Bluest Mettle Solutions Private Limited
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
  1)MISHRA, Rahul
Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune ----------- -----------
  2)SINGH, Dhiraj
Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune ----------- -----------
  3)MANTRI, Archana
Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala ----------- -----------

(57) Abstract :
A system (100) and a method (200) for vulnerability assessment in a network environment is provided. The system (100) includes a plurality of scanning engines (102) each employing distinct methodologies and algorithms for vulnerability assessment, a coordination component (104) ensures synchronized scanning activities, while a deployment component (106) enables simultaneous deployment of the scanning engines. Results obtained from the plurality of scanning engines (102) are collected and correlated by a correlation component (110), which eliminates duplicates and provides a consolidated view. The system (100) also includes an analysis component (112) which prioritizes identified vulnerabilities based on severity and potential impact, and a recommendation component (114) for generating detailed mitigation recommendations. The system (100) offers advantages such as comprehensive assessment, accurate results, consolidated view, enhanced efficiency, prioritized mitigation, and detailed recommendations. The invention provides an automated and efficient solution for network vulnerability assessment, facilitating improved network security.

No. of Pages : 23 No. of Claims : 10