

Review Form 3

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| Journal Name: | Journal of Engineering Research and Reports |
| Manuscript Number: | Ms_JERR_120693 |
| Title of the Manuscript: | Developing a Comprehensive Ransomware and Bot-Net Defense Strategy for Remote Workforces Utilizing VPN Networks |
| Type of the Article | Research Paper |

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

| Compulsory REVISION comments | Reviewer's comment | Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here) |
|---|---|---|
| Please write few sentences regarding the importance this manuscript for scientific community. Why do you like (or dislike) this manuscript? Minimum 3-4 sentences may be required for this part. | This manuscript is significant for the scientific community as it addresses the growing cybersecurity challenges faced by remote workforces, especially in the context of VPN usage. The manuscript's value lies in its comprehensive approach, integrating advanced technologies, network segmentation, and user education, which together enhance cybersecurity resilience. I appreciate the thorough methodology and practical recommendations provided, making it a significant contribution to the field. The findings offer practical recommendations for organizations to enhance their cybersecurity posture, which is crucial given the increasing prevalence of remote work and associated cyber threats. | |
| Is the title of the article suitable? (If not please suggest an alternative title) | The current title, "Developing a Comprehensive Ransomware and Bot-Net Defense Strategy for Remote Workforces Utilizing VPN Networks," is suitable as it clearly conveys the focus and scope of the research. However, optionally, a more concise title could be: "Comprehensive Ransomware and Botnet Defense Strategy for Remote VPN Workforces." | |
| Is the abstract of the article comprehensive? Do you suggest addition (or deletion) of some points in this section? Please write your suggestions here. | The abstract is comprehensive and effectively summarizes the key aspects of the research, including the methodology, findings, and practical recommendations. However, it can be improved by explicitly mentioning the specific advanced technologies incorporated in the multi-layered approach. For example, "Incorporating advanced technologies such as machine learning and behavioural analytics, the research underscores the enhanced effectiveness of traditional endpoint security solutions." | |
| Are subsections and structure of the manuscript appropriate? | The subsections and structure of the manuscript are appropriate. They logically present the introduction, literature review, methodology, results, and discussion to conclusion and recommendations, which ensures clarity and coherence. | |
| Please write few sentences regarding the scientific correctness of this manuscript. Why do think that this manuscript is scientifically robust and technically sound? Minimum 3-4 sentences may be required for this part. | The manuscript is scientifically robust and technically sound. The mixed methods approach, and detailed simulations provide strong empirical evidence supporting the proposed strategies. The use of regression analysis, ANOVA, and network simulations enhances the reliability of the findings. The manuscript's recommendations are practical and well-founded, making it a valuable resource for organizations looking to strengthen their cybersecurity measures. | |
| Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. : | The references are sufficient and recent, covering a wide range of relevant literature on endpoint security, VPNs, ransomware, botnet attacks, and cybersecurity awareness. The manuscript cites contemporary studies and incorporates the latest developments in the field, ensuring the relevance and currency of the research. | |
| Minor REVISION comments | | |
| Is language/English quality of the article suitable for scholarly communications? | The language and English quality of the article are suitable for scholarly communication, with clear and concise writing that effectively conveys the research findings and their implications. | |
| Optional/General comments | <ul style="list-style-type: none"> The research paper is excellent, but it would benefit from including specific reference links for the data collected mentioned. Providing these links would allow for cross-verification and ensure the data is comprehensive enough to derive the conclusions. Adding this information would also enhance the paper's credibility and completeness. | |

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PART 2:

| | Reviewer's comment | Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i> |
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| Are there ethical issues in this manuscript? | <i>(If yes, Kindly please write down the ethical issues here in details)</i> | |

Reviewer Details:

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| Department, University & Country | KiiT Deemed-to-be-University, India |