

 View PDFAccess through **your institution**[Purchase PDF](#)

Microprocessors and Microsystems

Available online 18 November 2020, 103502

[In Press, Corrected Proof](#) 

Detection of DOS and probe attacks based on snort with density clustering

M. Deepa ^{a, c}  , P. Sumitra ^{b, c} [Show more](#)  Outline |  Share  Cite<https://doi.org/10.1016/j.micpro.2020.103502>[Get rights and content](#)

Abstract

Computer networks are broadening day by day and the percentage of an internet user is increasing as well. The technological improvement leads to the security of network is a complex and systematic one. Intrusion detection system represents a substantial layer of protection for networked computers. Methods of data mining have currently received much interest in tackling problems of information security, including intrusion detection. There have been several security frameworks to address this challenge, and there is a scope besides addressing new challenges. To detect intrusion in the network, we suggest a security framework on this. This framework uses Snort for detecting signature based attacks and density based clustering algorithm DBSCAN for detecting anomalies in the network. On this platform, we conduct various experiments in real time and offline simulation for cost-effective analyzes and practical analysis.

Keywords

FEEDBACK 

Intrusion Detection System; SNORT; SNORT Rules; DBSCAN

[Recommended articles](#)[Citing articles \(1\)](#)

M. Deepa completed M.Phil and currently pursuing Ph.D in computer science at Vivekanandha College of Arts and Sciences for Women under the guidance of Dr. P. Sumitra, Assistant Professor in PG and Research Department of Computer Science and Applications, Vivekanandha College of Arts and Sciences for Women, Elayampalayam, Tiruchengode (TK). Four papers published in International Journal. Area of Research is Data Mining and Network security.



Sumitra. P received her Ph.D Degree in Computer Science from Mother Teresa Women's University, Kodaikannal, Tamil Nadu in the year 2013. She is presently working as an Assistant Professor in PG and Research Department of Computer Science and Applications, Vivekanandha College of Arts and Sciences for Women, Elayampalayam, Tiruchengode (TK), Namakkal (DT), Tamil Nadu, India. She is a life time member of The Indian Science Congress Association. She is currently guiding 7 Ph.D Research Scholar. Her research interests are in Image Processing, Soft Computing and Data Mining.

[View full text](#)

© 2020 Elsevier B.V. All rights reserved.



Copyright © 2021 Elsevier B.V. or its licensors or contributors.
ScienceDirect® is a registered trademark of Elsevier B.V.

 RELX™

FEEDBACK 

