Abstract

In this paper the usage of Semantic Web techniques to secure Internet based Mobile Ad-hoc Networks (iMANETs) has been proposed. Ontologies will be used instead of Taxonomies to depict network security issues. These ontologies can be placed in the knowledge base of an Intrusion Detection System (IDS). Using inference over the semantic relations will help Intrusion Detection Systems recognize and add future attacks to its existing knowledge base.

References

Using Ontologies to Model Attacks in an Internet based Mobile Ad-hoc Network (iMANET)

- J. Pinkston, J. Undercoffer, A. Joshi and T. Finin; A target-centric ontology for intrusion detection; University of Maryland, Baltimore County Department of Computer Science and Electrical Engineering, 2003.

Index Terms

Computer Science

Security
**Keywords**

Intrusion Detection  Semantic Web  Ontology  Ad-Hoc Networks  Security

Attacks

Web Ontology Language

Protégé

OWL.