

Host Based Intrusion Detection and Prevention Model Against DDoS Attack in Cloud Computing

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Abstract. Cloud computing has become an innovative technology. Recent advances in hardware and software have put tremendous pressure on administrators, who manage these resources to provide an uninterrupted service. System administrators should be familiar with cloud-server monitoring and network tools. The main focus of the present research is the design of a model that prevents distributed denial-of-service attacks based on host-based intrusion detection protection systems over hypervisor environments. The prevention model uses principal component analysis and linear discriminant analysis with a hybrid,

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and prevention framework for DDoS-cloud computing systems based on statistics and predicted techniques.