

## Attack Countermeasure Tree (ACT) meets with the Split-protocol

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### ABSTRACT

*In this paper, we present a novel attack tree paradigm called attack countermeasure tree (ACT) comprising an additional attack resistant element known as the Split-protocol. ACT which circumvents the fabrication and way out of a state-space representation and takes keen an account attack, as well as countermeasures (in the form of detection and mitigation events). Split-protocol as an attack resistant element enhances the availability of the system during or after a security attack on the system. We compare ACT with or without Split-protocol implementation. The split-protocol concept stemmed from splitting the HTTP/TCP protocol in webserver application. An HTTP/TCP protocol as standard on a webserver can be split into two segments, and each part can be separately run on a different Web server, thus constituting dual servers. These servers communicate across a network by using inter-server messages or delegate messages. In ACT, recognition and alleviation are allowed not just at the leaf node but also at the intermediate nodes, and simultaneously the state-space explosion problem is avoided in its analysis. We study the consequences of incorporating countermeasures in the ACT and Split-protocol using various case studies.*

### KEYWORDS

attack trees, non-state-space model, minimax, split-protocol, and reliability.

### 1. INTRODUCTION

The concept of attack trees is introduced from fault trees in software safety. Fault trees are used to describe how errors disseminate in software systems, and analysis of this could be used to examine software [10] and [11]. Although fault trees are most commonly used to model how problems occur in critical systems, given the built in focus on error propagation, attack trees have a slightly dissimilar perspective. The starter of an attacker, or group of attackers, makes it believable to model extortion to an institute as well as the aspect of targeted attacks. Deliberations of likelihoods based on existing money, tools or incentive for the attacker provides a more carefully grounded duplicate of the risk level. Bruce Schneier offered the concept of attack trees as a way to model threats against computer systems[12]. The basic tree model describes the Attack Tree with two different types of nodes, AND-nodes, and OR-nodes. At OR-nodes, a smallest of one sub-goal should be fulfilled to achieve the goal of the node. At AND-nodes, every sub-goal should be achieved to realize the objective of the node. The Boolean calculation could be done on the values of sub goal nodes based on a Boolean expression (AND/OR) in the node, giving the following account in the node [9].

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