

## CONDITIONAL NAIVE-BAYES TO DETECT MASQUERADES

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### ABSTRACT

An intruder masquerades as the legitimate user to obtain authorization on legitimate users account. These Masquerades has to be detected as early as possible, efficiently to reduce the malicious work done on that account. This paper proposes a novel approach for detecting the masquerades, which is not only efficient and also accurate than the earlier methods. Here we concentrate on the deviations of user profile with the trained profile, which are different base on duration of deviation for legitimate user and masquerades. Using this concept we extended the work done by Roy A Maxion [1] to device a Conditional Naïve Bayes method. Experiments on a standard datasets demonstrate that this Conditional Naïve Bayes classifier beats the previous best performing detector and reduces the missing-alarm rate and increases the hit rate.

**KEYWORDS:** Masquerades, Conditional Naïve Bayes Method, SEA Configuration and 1v49 Configuration