



## COMBINED PRINCIPAL TESTING MODEL BASED SCAN ATTACK DETECTION USING MATRIX STRUCTURAL EVALUATION

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### ABSTRACT

*The network scan attacks are getting more common to monitor the hosts to trace their activities. Any types of networks may go victims for these types of attacks. Here we have implemented a technique which analyses the traffic for its anomalous action in order to detect its attack activity. We have considered this traffic flow recording in the form of temporal activity in which the traffic will be noted with refer to the time of occurrence. We also note this traffic flow in a multi dimensional matrix which considers only limited number of attributes for detection so that the detection will be more accurate. We considered a model called Combined Principle Testing which utilizes a probability based approach which considers a reference flow of traffic to narrow down the attacker's traffic.*

**Keywords:** XMAS Scan, RST, SDN, CPT.