

Keynote (D-1): An Academic Speculates on the Future of Intrusion Detection

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Academics are supposed to have a crystal ball which they have used to shape their research, in order to help solve tomorrow's problems today. As a researcher involved in developing intrusion detection systems, I believe the future is in system defense. This talk will begin with some speculation about attackers, what they have been leveraging, and what they will continue to leverage. The argument will be made that most sophisticated attackers, by hijacking user credentials and establishing network footholds, should effectively be considered insider threats and the problem will only get worse. The talk will finish with speculations for the future of intrusion detection, including fine-grained control and IDS in the LAN, parallel intrusion detection, improved authentication, and system recovery strategies.