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A Temporal Logic Based Framework for Intrusion Detection

Zanolin Lorenzo¹

¹DMIF University of Udine

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Table of Contents



References I



- [1] Howard Barringer et al. "EAGLE can do Efficient LTL Monitoring". In: Fossacs Ortacas. 2003.
- [2] Howard Barringer et al. "Program monitoring with LTL in EAGLE". In: 18th International Parallel and Distributed Processing Symposium, 2004. Proceedings. IEEE. 2004, p. 264.
- [3] Howard Barringer et al. "Rule-based runtime verification". In: Verification, Model Checking, and Abstract Interpretation: 5th International Conference, VMCAI 2004 Venice, Italy, January 11-13, 2004 Proceedings 5. Springer. 2004, pp. 44–57.
- [4] Wei Gao and Thomas H Morris. "On cyber attacks and signature based intrusion detection for modbus based industrial control systems". In: *Journal of Digital Forensics, Security and Law* 9.1 (2014), p. 3.

References II



- [5] Akash Garg and Prachi Maheshwari. "A hybrid intrusion detection system: A review". In: 2016 10th International Conference on Intelligent Systems and Control (ISCO). IEEE. 2016, pp. 1–5.
- [6] VVRPV Jyothsna, Rama Prasad, and K Munivara Prasad. "A review of anomaly based intrusion detection systems". In: *International Journal of Computer Applications* 28.7 (2011), pp. 26–35.
- [7] Urupoj Kanlayasiri, Surasak Sanguanpong, and Wipa Jaratmanachot. "A rule-based approach for port scanning detection". In: *Proceedings of the 23rd electrical engineering conference, Chiang Mai Thailand*. Citeseer. 2000, pp. 485–488.

References III



- [8] John McHugh. "Testing intrusion detection systems: a critique of the 1998 and 1999 darpa intrusion detection system evaluations as performed by lincoln laboratory". In: ACM Transactions on Information and System Security (TISSEC) 3.4 (2000), pp. 262–294.
- [9] Prasad Naldurg, Koushik Sen, and Prasanna Thati. "A temporal logic based framework for intrusion detection". In: Formal Techniques for Networked and Distributed Systems—FORTE 2004: 24th IFIP WG 6.1 International Conference, Madrid Spain, September 27-30, 2004. Proceedings 24. Springer. 2004, pp. 359–376.
- [10] Krerk Piromsopa and Richard J Enbody. "Buffer-overflow protection: the theory". In: 2006 IEEE International Conference on Electro/Information Technology. IEEE. 2006, pp. 454–458.

References IV



[11] Gholam Reza Zargar and Peyman Kabiri. "Identification of effective network features to detect Smurf attacks". In: 2009 IEEE Student Conference on Research and Development (SCOReD). IEEE. 2009, pp. 49–52.

Thanks for the attention