Publication List

Common Vulnerabilities and Exposures (CVEs)

CVE1. CVE-2018-8956 for a vulnerability disclosed by me in NTP protocol. More details at https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2018-8956

International Journals

J1. Nikhil Tripathi, "Delays have Dangerous Ends: Slow HTTP/2 DoS attacks into the Wild and their Real-Time Detection using Event Sequence Analysis", IEEE Transactions on Dependable and Secure Computing, doi: 10.1109/TDSC.2023.3276062. (Accepted)

J2. Nikhil Tripathi, Neminath Hubballi, *Application Layer Denial of Service Attacks and Defense Mechanisms: A Survey*, ACM Computing Surveys, Volume 54(4), 2021, pp: 1-33 (ACM).

J3. Nikhil Tripathi, Neminath Hubballi. *Preventing time synchronization in NTP broadcast mode.* Computers & Security, Volume 102, 2021, pp. 102-135 (Elsevier).

J4. Nikhil Tripathi, Neminath Hubballi. *Slow Rate Denial of Service Attacks against HTTP/2 and Detection*, Computers & Security, Volume 72, 2018, pp. 255-272 (Elsevier).

J5. Nikhil Tripathi, Neminath Hubballi. *Detecting Stealth DHCP Starvation Attack using Machine Learning Approach*, Journal of Computer Virology and Hacking Techniques, Volume 14, 2018, pp. 233-244 (Springer).

J6. Neminath Hubballi, Nikhil Tripathi. *An Event Based Technique for Detecting Spoofed IP Packets*, Journal of Information Security and Applications, Volume 35, 2017, pp. 32-43 (Elsevier).

J7. Neminath Hubballi, Nikhil Tripathi. *A Closer Look into DHCP Starvation Attack in Wireless Networks*, Computers & Security, Volume 65, 2017, pp. 387-404 (Elsevier).

International Conferences

C1. Matta Krishna Kumari, Nikhil Tripathi, *An Efficient Content Retrieval and Content Placement Approach for Named Data Networks*, 38th International Conference on Information Networking (ICOIN), 2024 (Accepted).

C2. Nikhil Tripathi, Abhijith Kalayil Shaji, *Defer No Time, Delays have Dangerous Ends: Slow HTTP/2 DoS Attacks into the Wild*, 14th International Conference on COMmunication Systems & NETworkS (COMSNETS), Bangalore, India, 2022, pp. 194-198, doi: 10.1109/COMSNETS53615.2022.9668408.

C3. Neminath Hubballi, Amey Kiran Patel, Amit Kumar Meena, Nikhil Tripathi, *Cloud Security Service Level Agreements: Representation and Measurement*, 38th IEEE International Conference on Computer Communications Workshops (INFOCOM WKSHPS), Paris, 2019, pp. 145-150, IEEE.

C4. Nikhil Tripathi, Neminath Hubballi, Yogendra Singh. *How Secure are Web Servers? An Empirical Study of Slow HTTP DoS Attacks and Detection.* 11th International Conference on Availability, Reliability and Security (ARES'16), Salzburg, Austria, 2016, pp. 454-463 (IEEE).

C5. Nikhil Tripathi, Mayank Swarnkar, Neminath Hubballi. *DNS Spoofing in Local Networks Made Easy.* 11th International Conference on Advanced Networks and Telecommunications Systems (ANTS'17), CVRCE Bhubaneswar, 2017, pp. 1-6 (IEEE).

C6. Anuja Tayal, Neminath Hubballi, Nikhil Tripathi. *Communication Recurrence and Similarity Detection in Network Flows.* 11th International Conference on Advanced Networks and Telecommunications Systems (ANTS'17), CVRCE Bhubaneswar, 2017, pp. 1-6 (IEEE).

C7. Mayank Swarnkar, Neminath Hubballi, Nikhil Tripathi, Mauro Conti. *AppHunter: Mobile Application Traffic Classification*, 12th International Conference on Advanced Networks and Telecommunications Systems (ANTS'18), Indore, 2018, pp. 1-6 (IEEE)

C8. Nikhil Tripathi, Neminath Hubballi. *A Probabilistic Anomaly Detection Scheme to Detect DHCP Starvation Attacks.* 10th International Conference on Advanced Networks and Telecommunications Systems (ANTS'16), IISc Bangalore, 2016, pp. 1-6 (IEEE).

C9. Nikhil Tripathi, Neminath Hubballi. *Exploiting DHCP Server-side IP Address Conflict Detection: A DHCP Starvation Attack.* 9th International Conference on Advanced Networks and Telecommunications Systems (ANTS'15), ISI Kolkata, 2015, pp. 1-3 (IEEE).

C10. Nikhil Tripathi, B M Mehtre. *Analysis of Various ARP Poisoning Mitigation Techniques: A Comparison.* 1st International Conference on Control, Instrumentation, Communication and Computational Technologies (ICCICCT'14), Kanykaumari, 2014, pp. 125-132 (IEEE).

C11. Nikhil Tripathi, B M Mehtre. *An ICMP based Secondary Cache Approach for the Detection and Prevention of ARP Poisoning.* 4th International Conference on Computational Intelligence and Computing Research (ICCIC'13), Madurai, 2013, pp. 1-6 (IEEE).

National Conference(s)

C12. Nikhil Tripathi, B M Mehtre. *DoS and DDoS Attacks: Impact, Analysis and Countermeasures.* 1st National Conference on Advances in Computing, Networking and Security (NCACNS'13), Nanded, 2013, pp. 1-6.

Book Chapter(s)

C12. Swami, R., Dave, M., Ranga, V., Tripathi, N., Shaji, A. K., & Sharma, A. (2021). Towards Utilizing Blockchain for Countering Distributed Denial-of-Service (DDoS). In Revolutionary Applications of Blockchain-Enabled Privacy and Access Control (pp. 35-58). IGI Global.