DAFTAR PUSTAKA

Abad, C. L dan Bonilla, R. I, 2007, An Analysis on the Schemes for Detecting and Preventing ARP Cache Poisoning Attacks. In *27th International Conference on Distributed Computing Systems Workshops (ICDCSW'07)*, pages 60–60. doi: 10.1109/ICDCSW.2007.19.

AbdelSalam, A. M, S.Elkilani, W, dan M.Amin, K, 2014, *An Automated approach for Preventing ARP Spoofing Attack using Static ARP Entries*. *International Journal of Advanced Computer Science and Applications*, 5(1). doi: 10.14569/IJACSA.2014.050114.

Abubakar, A dan Pranggono, B, 2017, Machine learning based intrusion detection system for software defined networks. In *2017 Seventh International Conference on Emerging Security Technologies (EST)*, pages 138–143. doi: 10.1109/EST.2017.8090413.

Al-Mwald, M. N, Jamil, N, Ibrahim, Z. A, Cob, Z. C, dan Abdul Rahim, F, 2022, Detection and Prevention of ARP Cache Poisoning in Advanced Persistent Threats Using Multiphase Validation and Firewall. In Wang, C.-C dan Nallanathan, A, editors, *Proceedings of the 5th International Conference on Signal Processing and Information Communications*, pages 155–170, Cham. Springer International Publishing. ISBN 978-3-031-13181-3.

Alharbi, T, Durando, D, Pakzad, F, dan Portmann, M, 2016, Securing ARP in Software Defined Networks. In *2016 IEEE 41st Conference on Local Computer Networks (LCN)*, pages 523–526. doi: 10.1109/LCN.2016.83.

Arslan, Y, 2017. *A solution for ARP spoofing: Layer-2 MAC and protocol filtering and arpserver*. URL `https://arxiv.org/abs/1708.01302`. Diakses pada 1 Maret 2023.

Barbhuiya, F. A, Biswas, S, dan Nandi, S, May 2011, *An Active Host-Based Intrusion Detection System for ARP-Related Attacks and its Verification*. *International Journal of Network Security & Its Applications*, 3(3):163–180. ISSN 0975-2307. doi: 10.5121/ijnsa.2011.3311.

Belenguer, J dan Calafate, C. T, 2007, A low-cost embedded IDS to monitor and prevent Man-in-the-Middle attacks on wired LAN environments. In *The International Conference on Emerging Security Information, Systems, and Technologies (SECUREWARE 2007)*, pages 122–127. doi: 10.1109/SECUREWARE.2007.4385321.

Bermoy, L, April 2014. *Display MAC Address using Local IP in VB.NET*. URL `https://www.sourcecodester.com/tutorials/visual-basic-net/6858/display-mac-address-using-local-ip-vbnet.html`. Diakses pada 1 Maret 2025.

Bhaiji, Y, 2009, *Security features on switches*. O'Reilly Media, Inc., California.

Bhirud, S. G dan Katkar, V, 2011, Light weight approach for IP-ARP spoofing detection and prevention. In *2011 Second Asian Himalayas International Conference on Internet (AH-ICI)*, pages 1–5. doi: 10.1109/AHICI.2011.6113951.

Biondi, P dan Scapy Community, 2022. *Welcome to Scapy's documentation! — Scapy 2.5.0 documentation*. URL `https://scapy.readthedocs.io/en/latest/index.html`. Diakses pada 1 Januari 2023.

Birkinshaw, C, Rouka, E, dan Vassilakis, V. G, 2019, *Implementing an intrusion detection and prevention system using software-defined networking: Defending against port-scanning and denial-of-service attacks*. *Journal of Network and Computer Applications*, 136:71–85. ISSN 1084-8045. doi: https://doi.org/10.1016/j.jnca.2019.03.005.

Bruschi, D, Ornaghi, A, dan Rosti, E, 2003, S-ARP: a secure address resolution protocol. In *19th Annual Computer Security Applications Conference, 2003. Proceedings.*, pages 66–74. doi: 10.1109/CSAC.2003.1254311.

Bruschi, D, Di Pasquale, A, Ghilardi, S, Lanzi, A, dan Pagani, E, 2022, *A Formal Verification of ArpON – A Tool for Avoiding Man-in-the-Middle Attacks in Ethernet Networks*. *IEEE Transactions on Dependable and Secure Computing*, 19(6):4082–4098. doi: 10.1109/TDSC.2021.3118448.

Callegati, F, Cerroni, W, dan Ramilli, M, 2009, *Man-in-the-Middle Attack to the HTTPS Protocol*. *IEEE Security & Privacy*, 7(1):78–81. doi: 10.1109/MSP.2009.12.

Cheshire, S, 2008. *RFC 5227 - IPv4 Address Conflict Detection*. URL https://datatracker.ietf.org/doc/html/rfc5227. Diakses pada 1 Oktober 2023.

Cisco, 2005. *DHCP Secured IP Address Assignment*. URL https://www.cisco.com/c/en/us/td/docs/ios/12_2sb/12_2sba/feature/guide/sbasiaa.html. Diakses pada 1 Maret 2025.

Citraweb, 2022. *[Mikrobits] PFSense Firewall dan Snort*. URL https://mikrotik.co.id/artikel/486/. Diakses pada 1 September 2023.

Cox, J. H, Clark, R. J, dan Owen, H. L, 2016, Leveraging SDN for ARP security. In *SoutheastCon 2016*, pages 1–8. doi: 10.1109/SECON.2016.7506644.

Demuth, T dan Leitner, A, Juli 2005, *ARP spoofing and poisoning: Traffic tricks*. *Linux magazine*, pages 26–31.

Dessouky, M. M, Elkilany, W, dan Alfishawy, N, 2010, A hardware approach for detecting the ARP attack. In *2010 The 7th International Conference on Informatics and Systems (INFOS)*, pages 1–8.

Dordal, P. L, 2023, *An Introduction to Computer Networks, Release 2.0.11*. Department of Computer Science, Loyola University Chicago, second edition.

Eldondev, 2011. *Snort/doc/README.arpspoof*. URL https://github.com/eldondev/Snort/blob/master/doc/README.arpspoof. Diakses pada 1 September 2023.

Frankel, S, Eydt, B, Owens, L, dan Scarfone, K. K, 2007, *Establishing Wireless Robust Security Networks: A Guide to IEEE 802.11i*. Special Publication (NIST SP), National Institute of Standards and Technology, Gaithersburg, MD.

Gigamon, 2023. *TAP vs. SPAN: Which Option is Right for You? | Gigamon*. URL https://www.gigamon.com/resources/resource-library/white-paper/to-tap-or-to-span.html. Diakses pada 1 September 2023.

Girdler, T dan Vassilakis, V. G, 2021, *Implementing an intrusion detection and prevention system using Software-Defined Networking: Defending against ARP spoofing attacks and Blacklisted MAC Addresses*. *Computers & Electrical Engineering*,

90:106990. ISSN 0045-7906. doi: https://doi.org/10.1016/j.compeleceng.2021.106990.

Goralski, W, 2017, *The Illustrated Network: How TCP/IP Works in a Modern Network*. Morgan Kaufmann, second edition. ISBN 978-0-12-811027-0.

Goyal, V dan Tripathy, R, 2005, An Efficient Solution to the ARP Cache Poisoning Problem. In Boyd, C dan González Nieto, J. M, editors, *Information Security and Privacy*, pages 40–51, Berlin, Heidelberg. Springer Berlin Heidelberg. ISBN 978-3-540-31684-8.

Gökmen, B, Maret 2024. *The arping Command*. URL `https://www.baeldung.com/linux/arping-command`. Diakses pada 1 Maret 2025.

Hijazi, S dan Obaidat, M. S, 2019a, *Address resolution protocol spoofing attacks and security approaches: A survey*. *SECURITY AND PRIVACY*, 2(1):e49. doi: https://doi.org/10.1002/spy2.49.

Hijazi, S dan Obaidat, M. S, 2019b, *A New Detection and Prevention System for ARP Attacks Using Static Entry*. *IEEE Systems Journal*, 13(3):2732–2738. doi: 10.1109/JSYST.2018.2880229.

Hou, X, Jiang, Z, dan Tian, X, 2010, The detection and prevention for ARP Spoofing based on Snort. In *2010 International Conference on Computer Application and System Modeling (ICCASM 2010)*, volume 5, pages V5–137–V5–139. doi: 10.1109/ICCASM.2010.5619113.

Hunleth, F, 2001. *Secure link layer*. URL `http://www.hunleth.com/fhunleth/projects/sll/sll_report.pdf`. Diakses pada 1 Maret 2023.

ISL Internet Sicherheitslösungen GmbH, 2023. *ARP-GUARD as a ZTNA solution | Network Access Control NAC*. URL `https://www.arp-guard.com/en/arp-guard`. Diakses pada 1 September 2023.

Issac, B, 2014, *Secure ARP and Secure DHCP Protocols to Mitigate Security Attacks*. *CoRR*, abs/1410.4398. URL `http://arxiv.org/abs/1410.4398`.

Jeong, Y, Kim, H, dan Jo, H. J, 2022, *ASD: ARP Spoofing Detector Using OpenWrt*. *Security and Communication Networks*, 2022(1):2196998. doi: https://doi.org/10.1155/2022/2196998.

Jerschow, Y. I, Lochert, C, Scheuermann, B, dan Mauve, M, 2008, CLL: A Cryptographic Link Layer for Local Area Networks. In Ostrovsky, R, De Prisco, R, dan Visconti, I, editors, *Security and Cryptography for Networks*, pages 21–38, Berlin, Heidelberg. Springer Berlin Heidelberg. ISBN 978-3-540-85855-3.

Jinhua, G dan Kejian, X, 2013, ARP spoofing detection algorithm using ICMP protocol. In *2013 International Conference on Computer Communication and Informatics*, pages 1–6. doi: 10.1109/ICCCI.2013.6466290.

Juniper Networks, 2021. *[MX] How to match ARP traffic on a firewall filter*. URL `https://supportportal.juniper.net/s/article/MX-How-to-match-ARP-traffic-on-a-firewall-filter?language=en_US`. Diakses pada 1 November 2023.

Kali Linux, November 2024. *Arpwatch*. URL `https://www.kali.org/tools/arpwatch/`. Diakses pada 1 Maret 2025.

Kaur, R, Singh, G, dan Khurana, S, 2015, *A Security Approach to Prevent ARP Poisoning and Defensive tools*. *International Journal of Computer and Communication System Engineering (IJCCSE)*, 2(3):431–437. ISSN 2312-7694.

Khalid, H. Y. I, Ismael, P. M, dan Al-khalil, A. B, Nov. 2019, *Efficient Mechanism for Securing Software Defined Network against ARP Spoofing Attack*. *Journal of Duhok University*, 22(1):124–131. doi: 10.26682/sjuod.2019.22.1.14.

Koo, J, Ahn, S, Lim, Y, dan Mun, Y, 2005, Evaluation of Network Blocking Algorithm Based on ARP Spoofing and Its Application. In Gervasi, O, Gavrilova, M. L, Kumar, V, Laganà, A, Lee, H. P, Mun, Y, Taniar, D, dan Tan, C. J. K, editors, *Computational Science and Its Applications – ICCSA 2005*, pages 848–855, Berlin, Heidelberg. Springer Berlin Heidelberg. ISBN 978-3-540-32044-9.

Kumar, S dan Tapaswi, S, 2012, A centralized detection and prevention technique against ARP poisoning. In *Proceedings Title: 2012 International Conference on Cyber Security, Cyber Warfare and Digital Forensic (CyberSec)*, pages 259–264. doi: 10.1109/CyberSec.2012.6246087.

LBNL's Network Research Group, Juli 2019. *Arpwatch, the ethernet monitor program; for keeping track of Ethernet/IP address pairings*.

Leal, A, Botero, J. F, dan Jacob, E, 2018, Improving Early Attack Detection in Networks with sFlow and SDN. In Figueroa-García, J. C, Villegas, J. G, Orozco-Arroyave, J. R, dan Maya Duque, P. A, editors, *Applied Computer Sciences in Engineering*, pages 323–335, Cham. Springer International Publishing. ISBN 978-3-030-00353-1.

Liang, B, Gregory, M. A, dan Li, S, 2022, *Multi-access Edge Computing fundamentals, services, enablers and challenges: A complete survey*. *Journal of Network and Computer Applications*, 199:103308. ISSN 1084-8045. doi: https://doi.org/10.1016/j.jnca.2021.103308.

Linux Foundation Collaborative Project, 2023. *Open vSwitch Features*. URL `http://www.openvswitch.org/features/`. Diakses pada 1 April 2025.

Lootah, W, Enck, W, dan McDaniel, P, 2007, *TARP: Ticket-based address resolution protocol*. *Computer Networks*, 51(15):4322–4337. ISSN 1389-1286. doi: https://doi.org/10.1016/j.comnet.2007.05.007.

Majumdar, A, Raj, S, dan Subbulakshmi, T, Mei 2021, *ARP Poisoning Detection and Prevention using Scapy*. *Journal of Physics: Conference Series*, 1911(1):012022. doi: 10.1088/1742-6596/1911/1/012022.

Mandal, S, Khan, D. A, dan Jain, S, 2021, *Cloud-Based Zero Trust Access Control Policy: An Approach to Support Work-From-Home Driven by COVID-19 Pandemic*. *New Generation Computing*, 39:599–622. ISSN 1882-7055. doi: 10.1007/S00354-021-00130-6.

Masoud, M. Z, Jaradat, Y, dan Jannoud, I, 2015, On preventing ARP poisoning attack utilizing Software Defined Network (SDN) paradigm. In *2015 IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT)*, pages 1–5. doi: 10.1109/AEECT.2015.7360549.

McCauley, 2015. *Installing POX — POX Manual Current documentation*. URL `https://noxrepo.github.io/pox-doc/html/`. Diakses pada 1 September 2023.

Meghana, J. S, Subashri, T, dan Vimal, K, 2017, A survey on ARP cache poisoning and techniques for detection and mitigation. In *2017 Fourth International Conference on Signal Processing, Communication and Networking (ICSCN)*, pages 1–6. doi: 10.1109/ICSCN.2017.8085417.

Micali, S, 2002, NOVOMODO: Scalable Certificate Validation and Simplified PKI Management. In *1st Annual PKI Research Workshop Proceedings*, pages 15–25. URL `https://nvlpubs.nist.gov/nistpubs/Legacy/IR/nistir7059.pdf`.

Microsoft, Oktober 2021. *SendARP function (iphlpapi.h)*. URL `https://learn.microsoft.com/en-us/windows/win32/api/iphlpapi/nf-iphlpapi-sendarp`. Diakses pada 1 Maret 2025.

MikroTik, Agustus 2023. *MikroTik Bandwidth Test*. URL `https://download.mikrotik.com/routeros/7.11.2/btest.exe`. Diakses pada 1 Maret 2025.

Mirzoev, D. T dan White, S, 2014. *The Role of Client Isolation in Protecting Wi-Fi Users from ARP Spoofing Attacks*. URL `https://arxiv.org/abs/1404.2172`.

Morsy, S. M dan Nashat, D, 2022, *D-ARP: An Efficient Scheme to Detect and Prevent ARP Spoofing*. *IEEE Access*, 10:49142–49153. doi: 10.1109/ACCESS.2022.3172329.

Nam, S. Y, Djuraev, S, dan Park, M, 2013, *Collaborative approach to mitigating ARP poisoning-based Man-in-the-Middle attacks*. *Computer Networks*, 57(18):3866–3884. ISSN 1389-1286. doi: https://doi.org/10.1016/j.comnet.2013.09.011.

Nam, S. Y, Kim, D, dan Kim, J, 2010, *Enhanced ARP: preventing ARP poisoning-based man-in-the-middle attacks*. *IEEE Communications Letters*, 14(2):187–189. doi: 10.1109/LCOMM.2010.02.092108.

Nasser, H dan Hussain, M, 2022, *Provably curb man-in-the-middle attack-based ARP spoofing in a local network*. *Bulletin of Electrical Engineering and Informatics*, 11 (4):2280–2291. ISSN 2302-9285. doi: 10.11591/eei.v11i4.3810.

Nexus01, Mei 2018. *ARPDefender, a small program to scan and defend the ARP poisoning*. URL https://github.com/Nexus01/ARPDefender. Diakses pada 1 Maret 2025.

NordVPN, 2024. *Credentials definition*. URL https://nordvpn.com/cybersecurity/glossary/credentials/. Diakses pada 1 Oktober 2024.

Open Networking Foundation, 2015. *OpenFlow Switch Specification Version 1.5.1*. URL https://opennetworking.org/wp-content/uploads/2014/10/openflow-switch-v1.5.1.pdf. Diakses pada 1 September 2023.

pfSense, 2023. *pfSense® - World's Most Trusted Open Source Firewall*. URL https://www.pfsense.org/. Diakses pada 1 September 2023.

R., V. K dan Rahman, T. R. M, May 2014, *ARP Spoof Detection System using ICMP Protocol: An Active Approach*. *International Journal of Engineering Research & Technology (IJERT)*, 3(5). ISSN 2278-0181. doi: 10.17577/IJERTV3IS051581.

Ramachandran, V dan Nandi, S, 2005, Detecting ARP Spoofing: An Active Technique. In Jajodia, S dan Mazumdar, C, editors, *Information Systems Security*, pages 239–250, Berlin, Heidelberg. Springer Berlin Heidelberg. ISBN 978-3-540-32422-5. doi: 10.1007/11593980_18.

SADMIN, Mei 2019. *How to Create Packets from Scratch with Scapy for Scanning & DoSing*. URL https://null-byte.wonderhowto.com/how-to/create-packets-from-scratch-with-scapy-for-scanning-dosing-0159231/. Diakses pada 1 Januari 2023.

Salim, H dan Li, Z, 2021, *A Precise Model to Secure Systems on Ethernet Against Man-In-The-Middle Attack*. *IT Professional*, 23(1):72–85. doi: 10.1109/MITP.2019.2956131.

Shah, Z dan Cosgrove, S, 2019, *Mitigating ARP Cache Poisoning Attack in Software-Defined Networking (SDN): A Survey*. *Electronics*, 8(10). ISSN 2079-9292. doi: 10.3390/electronics8101095.

Silberschatz, A, Galvin, P. B, dan Gagne, G, 2018, *Operating System Concepts*. Wiley, tenth edition. ISBN 978-1-119-32091-3.

Snort, 2022. *Snort - Network Intrusion Detection & Prevention System*. URL `https://www.snort.org/`. Diakses pada 1 Januari 2023.

Snort, 2023. *SNORT Users Manual 2.9.16*. URL `http://manual-snort-org.s3-website-us-east-1.amazonaws.com/`. Diakses pada 1 September 2023.

Srinath, D, Panimalar, S, Simla, A. J, dan Deepa, J, March 2015, *Detection and Prevention of ARP spoofing using Centralized Server*. *International Journal of Computer Applications*, 113(19):26–30. ISSN 0975-8887. doi: 10.5120/19935-1931.

Stallings, W, 2014, *Data and Computer Communications*. Prentice Hall, tenth edition. ISBN 978-0-13-350648-8.

Stallings, W, 2017, *Cryptography and Network Security: Principles and Practice*. Pearson Education, seventh edition. ISBN 978-1-292-15858-7.

Tanenbaum, A. S dan Wetherall, D. J, 2011, *Computer Networks*. Prentice Hall, fifth edition. ISBN 978-0-13-212695-3.

Tian, D. J, Butler, K. R. B, Choi, J. I, McDaniel, P, dan Krishnaswamy, P, 2017, *Securing ARP/NDP From the Ground Up*. *IEEE Transactions on Information Forensics and Security*, 12(9):2131–2143. doi: 10.1109/TIFS.2017.2695983.

Tiwari, M dan Kumar, S, 2014, Vulnerability of MR-ARP in Prevention of ARP Poisoning and Solution. In Mauri, J. L, Thampi, S. M, Rawat, D. B, dan Jin, D, editors, *Security in Computing and Communications*, pages 363–369, Berlin, Heidelberg. Springer Berlin Heidelberg. ISBN 978-3-662-44966-0. doi: 10.1007/978-3-662-44966-0_35.

Trabelsi, Z dan Shuaib, K, 2008, Spoofed ARP Packets Detection in Switched LAN Networks. In Filipe, J dan Obaidat, M. S, editors, *E-Business and Telecommunication Networks*, pages 81–91, Berlin, Heidelberg. Springer Berlin Heidelberg. ISBN 978-3-540-70760-8.

Tripunitara, M dan Dutta, P, 1999, A middleware approach to asynchronous and backward compatible detection and prevention of ARP cache poisoning. In *Proceedings 15th Annual Computer Security Applications Conference (ACSAC'99)*, pages 303–309. doi: 10.1109/CSAC.1999.816040.