DAFTAR PUSTAKA

[1] G. Schmid, "Thirty Years of DNS Insecurity: Current Issues and Perspectives," *IEEE Communications Surveys & Tutorials*, vol. 23, no. 4, pp. 2429–2459, 2021, accessed: 2024-07-18.

[2] EfficientIP, "Cyber Threat Intelligence: DNS Threat Report | EfficientIP," Aug. 2023, accessed: 2024-09-08. [Online]. Available: https://efficientip.com/resources/cyber-threat-intelligence-idc-2023-global-dns-threat-report/

[3] T. H. Kim and D. Reeves, "A survey of domain name system vulnerabilities and attacks," in *Journal of Surveillance, Security and Safety*, 2020.

[4] M. Belotti, N. Božić, G. Pujolle, and S. Secci, "A Vademecum on Blockchain Technologies: When, Which, and How," *IEEE Communications Surveys & Tutorials*, vol. 21, no. 4, pp. 3796–3838, 2019, accessed: 2024-09-09.

[5] W. Zhang and T. Anand, "Ethereum Architecture and Overview," in *Blockchain and Ethereum Smart Contract Solution Development: Dapp Programming with Solidity*, W. Zhang and T. Anand, Eds. Berkeley, CA: Apress, 2022, pp. 209–244.

[6] A. M. HU Wei-hong, "Review of blockchain-based DNS alternatives," *Chinese Journal of Network and Information Security*, vol. 3, no. 3, pp. 71–77, Mar. 2017, accessed: 2024-09-03.

[7] F. Casino, N. Lykousas, V. Katos, and C. Patsakis, "Unearthing malicious campaigns and actors from the blockchain DNS ecosystem," *Computer Communications*, vol. 179, pp. 217–230, Nov. 2021, accessed: 2024-01-18.

[8] Z. Li, S. Gao, Z. Peng, S. Guo, Y. Yang, and B. Xiao, "B-DNS: A Secure and Efficient DNS Based on the Blockchain Technology," *IEEE Transactions on Network Science and Engineering*, vol. 8, no. 2, pp. 1674–1686, Apr. 2021, accessed: 2024-01-09.

[9] T. Gao and Q. Dong, "DNS-BC: Fast, Reliable and Secure Domain Name System Caching System Based on a Consortium Blockchain," *Sensors*, vol. 23, no. 14, p. 6366, Jan. 2023.

[10] Z. Yu, D. Xue, J. Fan, and C. Guo, "DNSTSM: DNS Cache Resources Trusted Sharing Model Based on Consortium Blockchain," *IEEE Access*, vol. 8, pp. 13 640–13 650, 2020, accessed: 2024-01-18.

[11] L. Jin, S. Hao, Y. Huang, H. Wang, and C. Cotton, "DNSonChain: Delegating Privacy-Preserved DNS Resolution to Blockchain," in *2021 IEEE 29th International Conference on Network Protocols (ICNP)*, Nov. 2021, pp. 1–11.

[12] G. He, W. Su, S. Gao, and J. Yue, "TD-Root: A trustworthy decentralized DNS root management architecture based on permissioned blockchain," *Future Generation Computer Systems*, vol. 102, pp. 912–924, Jan. 2020, accessed: 2024-01-18.

[13] J. Choncholas, K. Bhardwaj, and A. Gavrilovska, "The Performance Argument for Blockchain-based Edge DNS Caching," in *2021 IEEE/ACM Symposium on Edge Computing (SEC)*, Dec. 2021, pp. 312–318.

[14] J. Alsayed Kassem, S. Sayeed, H. Marco-Gisbert, Z. Pervez, and K. Dahal, "DNS-IdM: A Blockchain Identity Management System to Secure Personal Data Sharing in a Network," *Applied Sciences*, vol. 9, no. 15, p. 2953, Jan. 2019.

[15] IBM, "What Is DNS (Domain Name System)? | IBM," Apr. 2024, accessed: 2024-09-04. [Online]. Available: https://www.ibm.com/topics/dns

[16] G. Gürsoy, A. Varol, and A. Nasab, "DNS Tunnel Problem In Cybersecurity," in *2024 12th International Symposium on Digital Forensics and Security (ISDFS)*, Apr. 2024, pp. 1–6.

[17] Cloudflare, "DNS server types," accessed: 2024-09-05. [Online]. Available: https://www.cloudflare.com/learning/dns/dns-server-types/

[18] IANA, "Root Servers," accessed: 2024-09-08. [Online]. Available: https://www.iana.org/domains/root/servers

[19] ——, "Root Zone Database," accessed: 2024-09-08. [Online]. Available: https://www.iana.org/domains/root/db

[20] P. Foremski, O. Gasser, and G. C. M. Moura, "DNS Observatory: The Big Picture of the DNS," in *Proceedings of the Internet Measurement Conference*, ser. IMC '19. New York, NY, USA: Association for Computing Machinery, Oct. 2019, pp. 87–100.

[21] Cloudflare, "What are DNS records?" accessed: 2024-09-08. [Online]. Available: https://www.cloudflare.com/learning/dns/dns-records/

[22] P. Mockapetris, "RFC 1035: Domain names - implementation and specification," accessed: 2024-09-08. [Online]. Available: https://datatracker.ietf.org/doc/html/rfc1035

[23] P. A. Networks, "What Are DNS Attacks?" accessed: 2024-09-05. [Online]. Available: https://www.paloaltonetworks.com/cyberpedia/what-is-a-dns-attack

[24] A. W. S. (AWS), "What is SDLC? - Software Development Lifecycle Explained - AWS," accessed: 2024-09-09. [Online]. Available: https://aws.amazon.com/what-is/sdlc/

[25] Atlassian, "What is Agile?" accessed: 2024-09-09. [Online]. Available: https://www.atlassian.com/agile

[26] M. Goint, C. Bertelle, and C. Duvallet, "Secure Access Control to Data in Off-Chain Storage in Blockchain-Based Consent Systems," *Mathematics*, vol. 11, no. 7, p. 1592, Jan. 2023.

[27] B. Lashkari and P. Musilek, "A Comprehensive Review of Blockchain Consensus Mechanisms," *IEEE Access*, vol. 9, pp. 43 620–43 652, 2021, accessed: 2024-09-09.

[28] Y. Wang, M. Singgih, J. Wang, and M. Rit, "Making sense of blockchain technology: How will it transform supply chains?" *International Journal of Production Economics*, vol. 211, pp. 221–236, May 2019, accessed: 2024-09-09.

[29] F. Casino, T. K. Dasaklis, and C. Patsakis, "A systematic literature review of blockchain-based applications: Current status, classification and open issues," *Telematics and Informatics*, vol. 36, pp. 55–81, Mar. 2019, accessed: 2024-09-09.

[30] IBM, "What Are Smart Contracts on Blockchain? | IBM," Jul. 2021, accessed: 2024-09-18. [Online]. Available: https://www.ibm.com/topics/smart-contracts

[31] S. K. Panda and S. C. Satapathy, "An Investigation into Smart Contract Deployment on Ethereum Platform Using Web3.js and Solidity Using Blockchain," in *Data Engineering and Intelligent Computing*, V. Bhateja, S. C. Satapathy, C. M. Travieso-González, and V. N. M. Aradhya, Eds. Singapore: Springer, 2021, pp. 549–561.

[32] Z. Zheng, S. Xie, H.-N. Dai, W. Chen, X. Chen, J. Weng, and M. Imran, "An overview on smart contracts: Challenges, advances and platforms," *Future Generation Computer Systems*, vol. 105, pp. 475–491, Apr. 2020, accessed: 2024-09-18.

[33] C. Antal, T. Cioara, I. Anghel, M. Antal, and I. Salomie, "Distributed Ledger Technology Review and Decentralized Applications Development Guidelines," *Future Internet*, vol. 13, no. 3, p. 62, Mar. 2021.

[34] G. Kaur, "What are decentralized applications (DApps)?" accessed: 2024-09-22. [Online]. Available: https://cointelegraph.com/learn/what-are-dapps-everything-there-is-to-know-about-decentralized-applications

[35] T. Stackpole, "What Is Web3?" *Harvard Business Review*, May 2022, accessed: 2024-09-19.

[36] P. P. Ray, "Web3: A comprehensive review on background, technologies, applications, zero-trust architectures, challenges and future directions," *Internet of Things and Cyber-Physical Systems*, vol. 3, pp. 213–248, Jan. 2023, accessed: 2024-09-19.

[37] Ethereum, "What is Ethereum?" accessed: 2024-09-18. [Online]. Available: https://ethereum.org/en/what-is-ethereum/

[38] S. S. Kushwaha, S. Joshi, D. Singh, M. Kaur, and H.-N. Lee, "Ethereum Smart Contract Analysis Tools: A Systematic Review," *IEEE Access*, vol. 10, pp. 57 037–57 062, 2022, accessed: 2024-09-09.

[39] Ethereum, "Intro to ether," accessed: 2024-09-18. [Online]. Available: https://ethereum.org/en/developers/docs/intro-to-ether/

[40] D. P. Bauer, "Solidity," in *Getting Started with Ethereum : A Step-by-Step Guide to Becoming a Blockchain Developer*, D. P. Bauer, Ed. Berkeley, CA: Apress, 2022, pp. 13–16.

[41] Solidity, "Solidity 0.8.27 documentation," accessed: 2024-09-22. [Online]. Available: https://docs.soliditylang.org/en/v0.8.27/

[42] MetaMask, "Getting started with MetaMask | MetaMask Help Center," Sep. 2024, accessed: 2024-09-22. [Online]. Available: https://support.metamask.io/getting-started/getting-started-with-metamask/

[43] W.-M. Lee, "Using the MetaMask Chrome Extension," in *Beginning Ethereum Smart Contracts Programming: With Examples in Python, Solidity, and JavaScript*, W.-M. Lee, Ed. Berkeley, CA: Apress, 2019, pp. 93–126.

[44] Hardhat, "Documentation | Ethereum development environment for professionals by Nomic Foundation," accessed: 2024-09-22. [Online]. Available: https://hardhat.org

[45] Infura, "Infura API documentation | INFURA," Sep. 2024, accessed: 2024-09-22. [Online]. Available: https://docs.infura.io/api

[46] Etherscan, "Introduction | Etherscan," Aug. 2024, accessed: 2024-09-22. [Online]. Available: https://docs.etherscan.io

[47] A. Aborujilah, J. Adamu, S. M. Shariff, and Z. Awang Long, "Descriptive Analysis of Built-in Security Features in Web Development Frameworks," in *2022 16th International Conference on Ubiquitous Information Management and Communication (IMCOM)*, Jan. 2022, pp. 1–8.

[48] Node.js, "Node.js — Introduction to Node.js," accessed: 2024-09-23. [Online]. Available: https://nodejs.org/en/learn/getting-started/introduction-to-nodejs

[49] Next.js, "Docs | Next.js," accessed: 2024-09-23. [Online]. Available: https://nextjs.org/docs

[50] R. A. Muzaki, O. C. Briliyant, M. A. Hasditama, and H. Ritchi, "Improving Security of Web-Based Application Using ModSecurity and Reverse Proxy in Web Application Firewall," in *2020 International Workshop on Big Data and Information Security (IWBIS)*, Oct. 2020, pp. 85–90.

[51] O. E. Olorunshola and F. N. Ogwueleka, "Review of System Development Life Cycle (SDLC) Models for Effective Application Delivery," in *Information and Communication Technology for Competitive Strategies (ICTCS 2020)*, A. Joshi, M. Mahmud, R. G. Ragel, and N. V. Thakur, Eds. Singapore: Springer, 2022, pp. 281–289.

[52] Y. Ucbas, A. Eleyan, M. Hammoudeh, and M. Alohaly, "Performance and Scalability Analysis of Ethereum and Hyperledger Fabric," *IEEE Access*, vol. 11, pp. 67 156–67 167, 2023, accessed: 2024-09-24.

[53] A. Nabiil, B. H. Makmur, R. W. Wijaya, A. A. Santoso Gunawan, and I. S. Edbert, "Performance Analysis on Web Development Programming Language (Javascript, Golang, PHP)," in *2023 International Conference on Information Technology and Computing (ICITCOM)*, Dec. 2023, pp. 6–11.

[54] Ethereum, "Ethereum for JavaScript developers," accessed: 2024-09-25. [Online]. Available: https://ethereum.org/en/developers/docs/programming-languages/javascript/

[55] M. Edgar, "DNS Lookup Time," in *Speed Metrics Guide: Choosing the Right Metrics to Use When Evaluating Websites*, M. Edgar, Ed. Berkeley, CA: Apress, 2024, pp. 3–18.

[56] Ethers.js, "Documentation," accessed: 2024-09-28. [Online]. Available: https://docs.ethers.org/v5/

[57] Remix, "Welcome to Remix's documentation!" accessed: 2024-10-10. [Online]. Available: https://remix-ide.readthedocs.io/en/latest/

[58] Alchemy, "What is the Sepolia testnet?" accessed: 2024-09-28. [Online]. Available: https://www.alchemy.com/overviews/sepolia-testnet

[59] Vercel, "Get started with Vercel," accessed: 2024-09-28. [Online]. Available: https://vercel.com/docs/getting-started-with-vercel

[60] C. Cohen, "What is Port 53?" accessed: 2024-09-29. [Online]. Available: https://www.cbtnuggets.com/common-ports/what-is-port-53