

DAFTAR PUSTAKA

- [1] M. Mangayarkarasi, S. Tamil Selvan, R. Kuppuchamy, S. Shanthi, and S. R. Prem, "Highly Scalable and Load Balanced Web Server on AWS cloud," *IOP Conf. Ser. Mater. Sci. Eng.*, vol. 1055, no. 1, p. 012113, 2021, doi: 10.1088/1757-899x/1055/1/012113.
- [2] P. Sanjay Zingade, A. Shet, P. Biswagar, and Sharvani, "Review on Designing and Implementation of Application Load Balancing using AWS," *Int. Res. J. Eng. Technol.*, no. June, 2020, [Online]. Available: www.irjet.net
- [3] K. Prasanna Kumar, "Survey on Load Balancing and Auto Scaling Techniques for Cloud Environment," *Int. J. Eng. Adv. Technol.*, vol. 8958, no. 5, pp. 2249–8958, 2017, [Online]. Available: www.ijeat.org
- [4] H. Le and H. Cong, "Enhancing Load Balancing in Cloud Computing Through Deadlock Prediction," in *Journal of Emerging Technologies and Innovative Research*, 2023, pp. e791–e796. doi: 10.1007/978-3-031-47359-3_19.
- [5] M. Gunawan Manurung, A. Lubis, and Hafni, "Implementasi High-Availability WordPress Deployment Berbasis Teknologi AWS," *Bull. Comput. Sci. Res.*, vol. 4, no. 2, pp. 162–169, 2024, doi: 10.47065/bulletincsr.v4i2.333.
- [6] A. Febrian Kasmar, W. Wahyuna, F. Sukma, and S. Amalia, "Implementasi Sistem Keamanan Dan High Availability Pada Cloud Server Menggunakan Amazon Web Services (AWS)," *J. Teknoif Tek. Inform. Inst. Teknol. Padang*, vol. 13, no. 1, pp. 40–47, 2025, doi: 10.21063/jtif.2025.v13.1.40-47.
- [7] M. A. A. Putra, I. Fitri, and A. Iskandar, "Implementasi High Availability Cluster Web Server Menggunakan Virtualisasi Container Docker," *J. Media Inform. Budidarma*, vol. 4, no. 1, p. 9, 2020, doi: 10.30865/mib.v4i1.1729.
- [8] I. Ramadhan and L. Wulandari, "Infrastruktur High-Available Learning Management System Universitas Menggunakan Least-Connected Load Balancer," *J. Masy. Inform.*, vol. 13, no. 2, pp. 99–100, 2022, doi: 10.14710/jmasif.13.2.49176.
- [9] A. B. M. Moniruzzaman, M. Waliullah, and M. S. Rahman, "A high availability clusters model combined with load balancing and shared storage technologies for web servers," *Int. J. Grid Distrib. Comput.*, vol. 8, no. 1, pp. 109–120, 2015, doi: 10.14257/ijgdc.2015.8.1.11.
- [10] H. C. Marwi, "Peranan Cloud Computing Dalam Bisnis Perusahaan," *Temat. J. Penelit. Tek. Inform. dan Sist. Inf.*, pp. 27–34, 2021, doi: 10.56963/tematika.v9i1.118.

- [11] C. Fisher, "Cloud versus On-Premise Computing," *Am. J. Ind. Bus. Manag.*, vol. 08, no. 09, pp. 1991–2006, 2018, doi: 10.4236/ajibm.2018.89133.
- [12] F. H. Subechi, "Manfaat dan Tantangan Adopsi Cloud Computing : Systematic Literatur Review," *J. Ilm. Multidisplin*, vol. 2, no. 3, pp. 14–27, 2025, [Online]. Available: <https://jurnalistiqomah.org/index.php/merdeka/article/view/3694>
- [13] R. P. Sudirdja, "Pemanfaatan Teknologi Cloud Computing dalam Reformasi Birokrasi Guna Mewujudkan Kejaksaaan yang Profesional, Komunikatif dan Akuntabel," *J. Huk. Pembang.*, vol. 50, no. 4, pp. 828–840, 2020, doi: <https://doi.org/10.21143/jhp.vol50.no4.2854>.
- [14] P. Borra, "Comprehensive Survey of Amazon Web Services (AWS): Techniques, Tools, and Best Practices for Cloud Solutions," *Int. Res. J. Adv. Eng. Sci.*, vol. 9, no. 3, pp. 24–29, 2024, [Online]. Available: <https://www.researchgate.net/publication/381956331>
- [15] S. J. Park, Y. J. Lee, and W. H. Park, "Configuration Method of AWS Security Architecture That Is Applicable to the Cloud Lifecycle for Sustainable Social Network," *Secur. Commun. Networks*, vol. 2022, 2022, doi: 10.1155/2022/3686423.
- [16] P. Borra, "Comparison and Analysis of Leading Cloud Service Providers (AWS, Azure and GCP)," *SSRN Electron. J.*, no. June, 2024, doi: 10.2139/ssrn.4914145.
- [17] M. F. Darmawan and S. Risnanto, "Implementasi Failover Gateway Recursive Dan Load Balancing Menggunakan Metode Per Connection Classifier," *Infotronik J. Teknol. Inf. dan Elektron.*, vol. 8, no. 2, p. 56, 2023, doi: 10.32897/infotronik.2023.8.2.1887.
- [18] M. Narsipuram, A. Rai, and A. Tiwari, "A Comprehensive Study of Load Balancing Architectures in Cloud Computing Citation," *Smart. Internet. Things*, vol. 1, no. 2, pp. 115–127, 2024.
- [19] M. O. Ahmad and R. Z. Khan, "A Survey on Load Balancing Algorithms in Cloud Computing," *Int. J. Auton. Comput.*, vol. 2, no. 4, p. 366, 2017, doi: 10.1504/ijac.2017.10010817.
- [20] V. K. Reddy, K. Deva Surya, M. Sai Praveen, B. Lokesh, A. Vishal, and K. Akhil, "Performance Analysis of Load Balancing Algorithms in Cloud Computing Environment," *Indian J. Sci. Technol.*, vol. 9, no. 18, 2016, doi: 10.17485/ijst/2016/v9i18/90697.
- [21] D. Ariestiandy, L. Suhery, Jusmawati, and Yanuardi, "Evaluasi Load Balancing: Studi Komparatif Least-Connection dan Round-Robin dalam Konteks Cloud Computing," *J. Fasilkom*, vol. 13, no. 3, pp. 424–430, 2023, doi: 10.37859/jf.v13i3.6236.

- [22] M. A. Waluyo, F. Antony, and C. Setiawan, "Implementasi Load Balancing Web Server Dengan Haproxy Menggunakan Algoritma Round Robin," *J. Intell. Networks IoT Glob.*, vol. 1, no. 1, pp. 46–52, 2023, doi: 10.36982/jinig.v1i1.3074.
- [23] Prinafsika, A. Junaidi, and M. Muharrom Al Haromainy, "Cloud-Based High Availability Architecture Using Least Connection Load Balancer and Integrated Alert System," *bit-Tech*, vol. 8, no. 1, pp. 263–274, 2025, doi: 10.32877/bt.v8i1.2520.
- [24] A. R. Rahmika, Z. Tahir, A. W. Paundu, and Z. Zainuddin, "Web Server Load Balancing Mechanism with Least Connection Algorithm and Multi-Agent System," *CommIT J.*, vol. 17, no. 2, pp. 245–258, 2023, doi: 10.21512/commit.v17i2.8872.
- [25] H. Fauzi, "Load Balancing: Pengertian, Cara Kerja, Jenis dan Kelebihannya," *Nevacloud*. 2024.
- [26] M. Kaushik and R. Nath, "A Comparative Study of Load Balancing Algorithms in Cloud Computing Environment," *Int. J. Comput. Appl.*, vol. 187, no. 11, pp. 347–351, 2025, doi: 10.63169/gcared2025.p50.
- [27] V. Nagpure, "Designing High Availability Networks: Challenges and Solutions for Modern Enterprises," *J. Artif. Intell. Mach. Learn. Data Sci.*, vol. 1, no. 3, pp. 1–5, 2023.
- [28] Sumarna, H. Nurdin, and F. Wuryo Handono, "Perancangan N-Clustering High Availability Web Server," *J. Ilmu Pengetah. dan Teknol. Komput.*, vol. 4, no. 2, pp. 149–154, 2019, doi: <https://doi.org/10.33480/jitk.v4i2.287>.
- [29] F. K. Ramadhan, Garno, and A. Solehudin, "Comparative Study of Web Server Performance Testing with and without Docker Based on Virtual Machines," *J. Appl. Informatics Comput. JAIC*, vol. 8, no. 1, pp. 155–166, 2024, doi: <https://doi.org/10.30871/jaic.v8i1.3884>.
- [30] R. Buyya, C. S. Yeo, and S. Venugopal, "Market-Oriented Cloud Computing: Vision, Hype, and Reality for Delivering IT Services as Computing Utilities," *Proc. - 10th IEEE Int. Conf. High Perform. Comput. Commun. HPCC 2008*, Sep. 2008, doi: 10.1109/HPCC.2008.172.
- [31] M. Harchol-Balter, *Performance Modeling and Design of Computer Systems: Queueing Theory in Action*. 2013. doi: 10.1017/CBO9781139226424.
- [32] B. P. Mramba and S. F. Kaijage, "Design of an Interactive Mobile Application for Maternal, Neonatal and Infant Care Support for Tanzania," *J. Softw. Eng. Appl.*, pp. 569–584, 2018, doi: 10.4236/jsea.2018.1112034.
- [33] A. Tanenbaum and M. van Steen, *Distributed systems - principles and paradigms (2. ed.)*. 2007.