DAFTAR PUSTAKA

[1] J.F. Kurose and K. W. Ross, *Computer Networking*: *A Top-Down Approach*, 8th ed. 2022.

[2] Muhammad Syahrul Anwar, "Analisis QoS (Quality of Service) Manajemen Bandwidth menggunakan Metode Kombinasi Simple Queue dan PCQ (Per Connection Queue) pada Fakultas Teknik Universitas Islam Sumatera Utara," *sudo Jurnal Teknik Informatika*, vol. 1, no. 2, pp. 82-97, Jun. 2022.

[3] Eka Khairani, Budi Siregar, and M. I. Padli, "Peran Internet dalam Pendidikan di Era Digital," *Jurnal Media Akademik (JMA),* vol. 3, no. 1, 2025.

[4] Devi Savira Sanurya and A. Agussalim, "Literature Review: Networks, Collaborative Technology and the Internet of Things Impact on Bussiness," *Neptunus: Jurnal Ilmu Komputer dan Teknologi Informasi,* vol. 2, no. 4, pp. 153-167, Oct. 2024.

[5] Muhammad Nursalman *et al.,* "Perancangan Infrastruktur Jaringan Komputer dalan Mendukung Pembelajaran dan Standar Prasarana Fasilitas Internet di SDN 138 Geger Kalong Girang," *Journal on Education,* vol. 5, no. 4, 2023.

[6] V. A. Assyahdani, Sigit Prasetyo Ismoyo, and Mahmudin, "Pemanfaatan Jaringan Komputer LAN, MAN, dan WAN di Era Digital," *JRIIN: Jurnal Riset Informatika dan Inovasi,* vol. 3, no. 7, 2025.

[7] Behrouz A. Forouzan, *Data Communications and Networking,* 5th ed. New York: McGraw-Hill, 2022.

[8] Andrew S. Tanenbaum, N. Feamster, and D. J. Wetherall, *Computer Networks,* 6th ed. Pearson.

[9] R. Fatehi *et al.,* "Investigation of the Role of Learning Management Systems in Education Based on the Internet of Things," *Journal of Adolescent and Youth Psychological Studies,* vol. 5, no. 5, pp. 136-145, 2024.

[10] M. Riyan, A. J. Lubis, and T. M. Diansyah, "Sistem Monitoring Jaringan dan Optimalisasi Manajemen Bandwidth dengan Algoritma HTB (Hierarchical Token Bucket)," *Jurnal Ilmu Komputer dan Teknologi,* vol. 1, 2025

[11] A. Gani, "Application of Fibonacci Pattern for Network QoS (Quality of Service) Management," *Telematika,* vol. 22, no. 2, Nov. 2025.

[12] K. Nzobokela and S. Tembo, "Enhancing Network Performance and Quality of Service (QoS) in a Wired Local Area Network (LAN)," *International Journal of Networks and Communications,* vol. 14, no. 1, pp. 1-14, 2024.

[13] T. Mazhar *et al.,* "Quality of Service (QoS) Performance Analysis in a Traffic Engineering Model for Next-Generation Wireless Sensor Networks," *Symmetry,* vol. 15, no. 2, Feb. 2023.

[14] Andi Lutfhi Ramadian and L. Indriyani, "Analisis Quality of Service (QoS) Jaringan Internet Berbasis Wireless Local Area Network (WLAN) pada PT. Samma Jaya Perkasa."

[15] Agus Nur Rahmawan and S. Andryana, “Manajemen Bandwidth Menggunakan Router Mikrotik dengan Metode Simple Queue pada Jaringan RT/RW Net.”

[16] Onno W. Purbo, *Internet – TCP/IP: Konsep dan Implementasi,* 1st ed. Yogyakarta: Andi Offset.

[17] Fauzan Prasetyo Eka Putra *et al.,* “Pemanfaatan Mikrotik dalam Manajemen Bandwidth pada Jaringan Sekolah,” *Jurnal Informatika dan Teknologi Komputer (JITEK),* vol. 5, no. 1, pp. 93-101, Mar. 2025.

[18] A. Samad, Hermanto, and M. F. Adiman, “Konfigurasi Mikrotik RouterOS untuk Manajemen Jaringan pada Infrastruktur Jaringan RT/RW Net,” *JUSTINDO,* vol. 10, no. 2, pp. 118-125, Aug. 2025.

[19] Izzan Zaafarani Anugrah Yunanda, “Strategi Optimalisasi Infrastruktur Jaringan melalui Subnetting,” *DiJITAC,* vol. 4.

[20] Wei Wu *et al.,* “A Survey on Ambient Backscatter Communcations: Principles, Systems, Applications, and Challenges,” *Computer Network,* vol. 216, 2022.

[21] Michael B. Pope *et al.,* “The Domain Name System – Past, Present, and Future,” *Communications of the Association for Information Systems,* vol. 30.

[22] Jayaprakash Narayanan, D. Balaji *et al.,* “A DHCP Based Approach to IP Address Management and Allocation in a Network Using VLSM,” in *Proc. 9th Int. Conf. Advanced Computing and Communication Systems (ICACCS),* IEEE, 2023, pp. 882-887.

[23] Dan Wing, “Network Address Translation: Extending the Internet Address Space,” *IEEE Internet Computing,* vol. 14, no. 4, pp. 66-70

[24] Dzikrilloh Anwar Iqbal and Y. Akbar, “Manajemen Bandwidth Jaringan dengan Metode Per Connection Queue (PCQ) pada Mikrotik di Masterpiece Family Karaoke Tebet,” *JIMIK,* vol. 5, 2024.

[25] G. Chapanduka, B. Nleya, and R. Chidzonga, “Towards Fair and QoS-Aware Bandwidth Allocation in Next-Generation Multi-Gigabit WANs,” *Electronics,* vol. 14, no. 23, 2025.

[26] Muhammad Ibrahim Nasution *et al.,* “Analysis and Implementation of Simple Queue and Queue Tree Methods for Optimizing Bandwidth Management,” *Journal of Applied Engineering and Technological Science,* vol. 4.

[27] A. Alzi and H. Haeruddin, “Pengaruh Manajemen Bandwidth terhadap QoS dengan Standar TIPHON pada Alur Monitoring SNMP,” *Jurnal Ilmiah Teknologi Informasi Asia,* vol. 17, no. 1, pp. 9-20, Oct. 2022.

[28] Vinangu Ratri A. *et al.,* “Optimasi Management Bandwidth Menggunakan Teknik Traffic Shaping,” *Jurnal Ilmu Komputer dan Informatika,* vol. 6, 2025.

[29] A. Firmansyah *et al.,* “Analisis Kinerja Metode Simple Queue untuk Meningkatkan Kualitas Jaringan,” *Digital Transformation Technology,* vol. 4, no. 1, pp. 244-251, Jun. 2024.

[30] Zuli F., “ Manajemen Bandwidth dengan Metode Simple Queue,” *Jurnal Satya Informatika,* vol. 2, no. 2, pp. 22-32, Aug. 2023.

[31] Muhammad Arif Darmawan, I. Fitri, and A. Iskandar, "Manajemen Bandwidth pada Mikrotik dengan Limitasi Bertingkat," *INTECOMS,* vol. 3, no. 2, pp. 270-280.

[32] Budi Kurniawan Simpony, A. Gunawan, and D. S. Purnia, "Optimalisasi Manajemen Bandwidth dan Hotspot Berbasis Cookie," *Jurnal Khatulistiwa Informatika,* vol. 13, no. 1, pp. 9-16, Oct. 2025.

[33] Yohana Elisama, T. T. Warisaji, and T. A. Cahyanto, "Analisis Kinerja QoS Menggunakan Metode Queue Tree dan Simple Queue," *JUSTINDO,* vol. 10, no. 2, pp. 108-117, Aug. 2025.

[34] Dwi Andi Ma'ruf *et al.,* "Management Bandwidth Menggunakan Metode Simple Queue," *Intechno Journal,* vol. 3, no. 2, pp. 38-43, Dec. 2021.

[35] Budi Kurniawan Simpony, "Simple Queue untuk Manajemen User dan Bandwidth," *Jurnal Informatika,* vol. 8, no. 1, 2021.

[36] Rizki Novrianda Dasmen *et al.,* "Comparative Simulation of Bandwidth Management Using Queue Tree and PCQ Techniques," vol. 9, no. 1, 2025.

[37] Iwan Giri Waluyo and D. Kurniawan, "Mikrotik Login Security with Port-Knocking and Brute Force Firewall," *International Journal of Integrative Sciences,* vol. 2, no. 7, pp. 971-978, Jul. 2023.

DAFTAR SUMBER GAMBAR

[1] Qtera Solution, “Pengertian LAN (Local Area Network),” [Online]. Available: https://www.qtera.co.id/pengertian-lan-local-area-network/. [Accessed: Jan. 14, 2026].

[2] ID-Networkers, “Apa Itu Jaringan PAN, LAN, MAN dan WAN,” [Online]. Available: https://www.idn.id/apa-itu-jaringan-pan-lan-man-dan-wan/. [Accessed: Jan. 14, 2026].

[3] TKJPedia, “Teknologi Perangkat WAN,” [Online]. Available: https://tkjpedia.com/teknologi-perangkat-wan/. [Accessed: Jan. 14, 2026].

[4] Kost-Net, “Download Winbox,” [Online]. Available: https://kost-net.com/download-winbox/. [Accessed: Jan. 14, 2026].

[5] Zona Pintar, “Topologi Bintang,” [Online]. Available: https://www.zonapintar.id/topologi-bintang/. [Accessed: Jan. 14, 2026].

[6] NDS Indonesia, “Memilih Kabel UTP,” [Online]. Available: https://nds.id/memilih-kabel-utp/. [Accessed: Jan. 14, 2026].

[7] Hostwinds, “Ipv4 Classes: What Are They and How Are They Used,” [Online]. Available: https://www.hostwinds.com/blog/ipv4-classes-what-are-they-and-how-are-they-used. [Accessed: Jan. 14, 2026].

[8] ELS Computer, “Wireless Router TP-Link TL-WR840N,” [Online]. Available: https://els.id/product/wireless-router-tp-link-tl-wr-840n/. [Accessed: Jan. 14, 2026].