DAFTAR PUSTAKA

[1] M. Arif. (2022) "Asosiasi Penyelenggara Jasa Internet Indonesia," [Online]. Available: https://apjii.or.id/survei.

[2] F. Ardianto, B. Alfaresi, and A. Darmadi, "Rancang Bangun Load Balancing Dua Internet Service Provider (ISP) Berbasis Mikrotik," *J. Surya Energy*, vol. 3, no. 1, pp. 198–202, 2018.

[3] J. Budiman and D. Ang, "Analysis Of Factors Affecting Public Interest In Using Internet Service Providers In Batam City," *Comb. Manag. Business, Innov. Educ. Soc. Sci.*, vol. 2, no. 1, pp. 164–177, 2022.

[4] A. N. Fauzie, "Analisa Keandalan Sistem Dan Perancangan Jaringan Internet Berbasis Mikrotik Router OS Menggunakan Metode Load Balance Dan Failover," Universitas Jember, 2018.

[5] M. R. N. Hadi, "Ethernet Link Network Design Using Auto Failover And Load Balancing Technology In Throughput Optimization," *J. Theor. Appl. Inf. Technol.*, vol. 100, no. 15, pp. 4641–4654, 2022.

[6] F. Hariadi, P. Lede, and M. K. U, "The Effect Of Load Balancing And Failover Of Two Wide Area Networks With Per Connection Classifier Method On Qos Throughput, Packet Loss, Qos Delay, And Qos Jitter," *J. Informatics, Network, Comput. Sci.*, vol. 4, no. 2, pp. 42–48, 2021.

[7] M. Iqbal, T. A. Wibowo, and R. M. Negara, "Analisis Performansi Network Function Virtualization Virtual Firewall Pfsense, Opnsense, Dan Ipfire," Telkom University, 2019.

[8] Netgate. (2022) "Introduction | pfSense Documentation," [Online]. Available: https://docs.netgate.com/pfsense/en/latest/general/index.html.

[9] M. Stubbig. (2019) "*Practical OPNsense: Enterprise firewalls build on open source,*" [Online]. Available: https://books.google.com/books?hl=en&lr=&id=oU2eDwAAQBAJ&oi=fnd&pg=PR12&dq=practical+opnsense+enterprise+firewalls+build+on+open+source&ots=HZCMJHFOiK&sig=r2_HXeZTWbsyrvp946TGJEhCdeY.

[10] Deciso, "Introduction — OPNsense documentation," [Online]. Available: https://docs.opnsense.org/intro.html.

[11] Shenzhen. (2022) "Home | BITBOX Open Networking Appliance," [Online]. Available: https://bitbox.id/id_ID/.

[12] A. R. Hakim, "Penerapan Load Balancing Pada Router Pfsense Berbasis Free Bsd," *J. Edik Inform. Penelit. Bid. Komput. Sains dan Pendidik. Inform.*, vol. 4, no. 1, pp. 23–28, 2018.

[13] R. Ilahi, "Analisis Perbandingan Multi WAN Connection Menggunakan

Cisco, Mikrotik dan pfSense," *J. Aksara Komput. Terap.*, vol. 7, no. 2, 2018.

[14] R. Fauzi and Yuliadi, "Penerapan Load Balancing pada Router pfSense berbasis FreeBSD," *Pros. Semin. Nas. Ilmu Sos. Dan Teknol.*, vol. 2, no. 1, pp. 169–174, 2019.

[15] P. Risnaldy and I. Neforawati, "Analisa QOS (Quality of Service) Zeroshell pada Mekanisme Load Balancing dan Failover," *MULTINETICS*, vol. 6, no. 1, pp. 8–14, 2020.

[16] D. M. Tulloh, M. F. Duskarnaen, and H. Ajie, "Analisis Jaringan Akses Internet Menggunakan Mikrotik Router OS di SMK TUNAS HARAPAN Dengan Optimalisasi Load Balancing Menggunakan Parameter QoS," *J. Pendidik. Tek. Inform. dan Komput.*, vol. 4, no. 1, pp. 39–42, 2020.

[17] F. D. Anggoro, "Implementasi Load Balancing Menggunakan Raspberry Pi Dengan Router Os Openwrt," Universitas Semarang, 2021.

[18] B. Prasetyo, "Analisis Perbandingan Quality of Service Routeros Mikrotik Dengan Openwrt Menggunakan Metode Load Balancing," POLITEKNIK NEGERI JAKARTA, 2022.

[19] A. R. Hakim, "Penerapan Load Balancing pada Router pfSense berbasis FreeBSD," *Edik Inform.*, vol. 4, no. 1, pp. 23–28, 2019.

[20] K. Fahmi, D. Leith, S. Kucera, and H. Claussen, "Understanding MPTCP in Multi-WAN Routers: Measurements and System Design," pp. 132–139, 2021.

[21] A. A. Zackiansya. (2018) "*Easy and Practice PPPoE Server, VPN PPTP, Bandwidth Management, Miktotik Hostpot*. Surabaya: CV. XP Solution," [Online]. Available: https://www.google.co.id/books/edition/Easy_and_Practice_PPPoE_Server_VPN_PPTP/XP18EAAAQBAJ?hl=id&gbpv=1&dq=bandwidth&pg=PA116&printsec=frontcover.

[22] D. Zientara. (2018) "*Learn pfSense 2.4: Get up and running with Pfsense and all the core concepts*. Mumbai: Packt Publishing," [Online]. Available: https://books.google.co.id/books?hl=en&lr=&id=-AhnDwAAQBAJ&oi=fnd&pg=PP1&dq=pfsense+routing&ots=ni0M7FUyWD&sig=_CEXbkNhuMSQHmXIbiTNg_3lFoA&redir_esc=y#v=onepage&q=pfsense routing&f=false.

[23] A. E. Öztürk, "An Analysis of Load Balancing Strategies with Wireshark in Software Defined Networks," *2018 Int. Conf. Artif. Intell. Data Process.*, pp. 1–5, 2019.

[24] N. Nurmiati, L. Surimi, and S. Subardin, "Analisis Kinerja Load Balancing Terhadap Jaringan Internet Menggunakan Metode Equal Cost Multi Path (ECMP)," *Digit. Transform. Technol.*, vol. 2, no. 2, pp. 52–62, 2022.

[25] A. Mustofa, R. Ambarwati, and Mentari F, “The influence of speed user mobility in qos wireless lan 802.11 g and 802.11 n (2.4 ghz) using riverbed modeler,” *2018 Electr. Power, Electron. Commun. Control. Informatics*, pp. 239–243, 2018.

[26] Binus Higher Education. (2022) “QoS (Quality of Services) | Computer Science,” [Online]. Available: https://onlinelearning.binus.ac.id/computer-science/post/qos-quality-of-services/.

[27] T. Ernawati, “Comparative Analysis of 4G Network Internet Data Connectivity Based on Quality of Service (QoS) Method (Case Study West Bandung Regency Tourism Area),” *IOP Conference Series: Materials Science and Engineering*, vol. 879, no. 1. 2020.

[28] W. L. N. Shinta, “Analisis Perbandingan Quality Of Service (Qos) Jaringan Layanan Internet Menggunakan Metode Standar Tiphon,” Universitas Darma Persada, 2021.

[29] G. Labs. (2022) “Introduction to Grafana | Grafana documentation,” [Online]. Available: https://grafana.com/docs/grafana/latest/introduction/.