UNIVERSITAS GADJAH MADA
PERANCANGAN DAN IMPLEMENTASI SISTEM PENGAMANAN KOMUNIKASI JARINGAN BERBASIS ZERO TRUST ARCHITECTURE MENGGUNAKAN JSON WEB TOKEN
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DAFTAR PUSTAKA

[1] S. Rose, O. Borchert, S. Mitchell, *and* S. Connelly, "Zero Trust Architecture," *National Institute of Standards and Technology*, Gaithersburg, MD, USA, NIST Special Publication 800-207, Aug. 2020. (Online). Available: https://doi.org/10.6028/NIST.SP.800-207

[2] F. Stodt, P. Ruf, C. Reich, and F. Theolevre, "Distributed zero trust architecture based on policy negotiation Secured by DPP in blockchain," *Ann. Telecommun.*, vol. 80, no. 1053, pp. 1053–1070, Oct. 2025, doi: 10.1007/s12243-025-01124-x.

[3] C. DeCusatis, P. Liengtiraphan, A. Sager, and M. Pinelli, "Implementing Zero Trust Cloud Networks with Transport Access Control and First Packet Authentication," in *Proceedings of the 2016 IEEE International Conference on Smart Cloud (SmartCloud)*, New York, NY, USA, 2016, pp. 5–10, doi: 10.1109/SmartCloud.2016.22.

[4] J. J. Diaz Rivera, W. Akbar, T. A. Khan, *et al.*, "Zt & t: secure service session management using blockchain-based Tokens in zero trust networks," *Ann. Telecommun.*, vol. 79, pp. 487–505, 2024, doi: 10.1007/s12243-023-01008-y.

[5] S. Ahmad, M. Arif, J. Ahmad, *et al.*, "A TOTP-based secure data storage system in the cloud environment using the JWT Token approach," *Int. J. Syst. Assur. Eng. Manag.*, vol. 16, pp. 1565–1578, 2025, doi: 10.1007/s13198-025-02775-8.

[6] M. L. Gambo and A. Almulhem, "Zero Trust Architecture: A Systematic Literature Review," *J. Netw. Syst. Manage.*, vol. 34, no. 25, 2026, doi: 10.1007/s10922-025-09998-x.

[7] A. Paya, Vicente-García, and A. Gómez, "Enhancing software-defined perimeters with integrated identity solutions and threat detection for robust zero trust firewall," *Int. J. Inf. Secur.*, vol. 24, p. 178, 2025, doi: 10.1007/s10207-025-01099-9.

[8] A. Gupta, A. Sharma, B. Raj S, and M. K. Gupta, "JWTAMH: JSON Web Tokens Based Authentication Mechanism for Hadoop," *EAI Endorsed Trans. Scal. Inf. Syst.*, vol. 12, no. 1, 2025, doi: 10.4108/eetsis.5429.

[9] M. Erel-Özcevik, "Token as a Service for Software-Defined Zero Trust Networking," *J. Netw. Syst. Manage.*, vol. 33, no. 10, 2025, doi: 10.1007/s10922-024-09894-w.

[10] M. Jones, J. Bradley, and N. Sakimura, "JSON WEB TOKEN (JWT)," Internet Engineering Task Force (IETF), RFC 7519, May 2015. [Online]. Available: https://doi.org/10.17487/RFC7519

[11] NGINX Inc., "What Is an API Gateway?," *NGINX*. [Online]. Available: https://www.nginx.com/learn/api-gateway/. [Accessed: Apr. 3, 2026].

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[12] W. Stallings, *Network Firewall Essentials: Applications and Standards*, 6th ed. Harlow, U.K.: Pearson Education Limited, 2017. [Online]. Available: https://www.pearson.com.

[13] B. Dong, R. van Rijswijk-Deij, and T. Chung, "Mutual TLS in Practice: A Deep Dive into Certificate Configurations and Privacy Issues," in *Proc. 2024 ACM Internet Measurement Conf. (IMC)*, New York, NY, USA, 2024, pp. 1–15, doi: 10.1145/3646547.3688415.

[14] F. Hoops, A. Muhle, F. Matthes, and C. Meinel, "DID Link: Authentication in TLS with Decentralized Identifiers and Verifiable Credentials," *arXiv preprint arXiv:2405.07533*, May 2024. [Online]. Available: https://arxiv.org/abs/2405.07533.

[15] B. H. Sigelman *et al.*, "Dapper, a Large-Scale Distributed Systems Tracing Infrastructure," Google, Inc., Mountain View, CA, USA, Tech. Rep. 36356, 2010. [Online]. Available: http://research.google.com/archive/papers/dapper-2010-1.pdf.

[16] J. Nielsen, *Usability Engineering*. Boston, MA, USA: Academic Press, 1993.

[17] F. F. Nah, "A study on tolerable waiting time: how long are Web users willing to wait?," *Behaviour & Information Technology*, vol. 23, no. 3, pp. 153–163, 2004, doi: 10.1080/01449290410001669914.