

## DAFTAR PUSTAKA

### SUMBER BUKU

- Creswell, J. W. (2013). *Research design pendekatan kualitatif, kuantitatif, dan mixed*. Yogyakarta: Pustaka Pelajar.
- Kahan, J. H. (1975). *Security in the nuclear age: Developing U.S. strategic arms policy*. Washington, D.C.: The Brookings Institution.
- Knapp, K. J. (2009). *Cyber-security and Global Information Assurance: Threat Analysis and response solutions*. Information Science Reference.
- Lin, H. (2016). Governance of Information Technology and Cyber Weapons. In E. D. Harris (Ed.), *Governance of Dual use Technologies: Theorie and Practice*. American Academy of Arts & Sciences.
- Miles, M. B. & Huberman, M. (1992). *Analisis Data Kualitatif*. Jakarta: Penerbit Universitas Indonesia.
- None, N. (1985). *The history of nuclear energy*. U.S. Dept. of Energy. <https://www.energy.gov/ne/articles/history-nuclear-energy>

### ARTIKEL JURNAL

- Ahmad, I., Kumar, T., Liyanage, M., Okwuibe, J., Ylianttila, M., & Gurtov, A. (2017). 5G security: Analysis of threats and solutions. *2017 IEEE Conference on Standards for Communications and Networking (CSCN)*, 193–199. <https://doi.org/10.1109/CSCN.2017.8088621>
- Australian Government. (2018). *Impacts of 5G on productivity and economic growth*. (Working Paper).

- Budi, E., Wira, D., & Infantono, A. (2021). Strategi Penguatan Cyber Security Guna Mewujudkan Keamanan Nasional di Era Society 5.0. *Prosiding Seminar Nasional Sains Teknologi Dan Inovasi Indonesia (SENASTINDO)*, 3, 223–234. <https://doi.org/10.54706/senastindo.v3.2021.141>
- Cáceres-Hidalgo, J., & Avila-Pesantez, D. (2021, Oktober 12). Cybersecurity Study in 5G Network Slicing Technology: A Systematic Mapping Review. *ETCM 2021 - 5th Ecuador Technical Chapters Meeting*. <https://doi.org/10.1109/ETCM53643.2021.9590742>
- Curtis, B. (2022). 5G Innovations and Cybersecurity Risk. *ISACA*. <https://www.isaca.org/resources/isaca-journal/issues/2022/volume-5/5g-innovations-and-cybersecurity-risk>
- Degaut, M. (2015). What is Security?. *Revista Brasileira de Inteligência*, (9), 9-28.
- Douglass, J. D. (1981). Soviet disinformation. *Strategic Review*, (9), 16-25.
- Fonyi, S. (2020). Overview of 5G Security and Vulnerabilities. *THE CYBER DEFENSE REVIEW*, 117–132.
- Gani, A. (2023). Implementation of Massive MIMO in 5G Networks: Strategy and Technical Studies in Indonesia. *Indonesian Journal of Advanced Research*, 2(3), 189–200. <https://doi.org/10.55927/ijar.v2i3.3563>
- Ginanjar, Y. (2022). STRATEGI INDONESIA MEMBENTUK CYBER SECURITY DALAM MENGHADAPI ANCAMAN CYBER CRIME MELALUI BADAN SIBER DAN SANDI NEGARA. *Jurnal Dinamika Global*, 7(02), 291–312. <https://doi.org/10.36859/jdg.v7i02.1187>

- Jamil, M. A., Haetami, A. ., Mayasari, M., Aina, M. ., Sukini, S. ., & Ulimaz, A. (2024). PERAN TEKNOLOGI 5G DALAM MENDORONG INOVASI PEMBELAJARAN. *Jurnal Review Pendidikan Dan Pengajaran (JRPP)*, 7(01), 1841–1853. <https://doi.org/10.31004/jrpp.v7i1.25562>
- Lupovici, A. (2021). The dual-use security dilemma and the social construction of insecurity. *Contemporary Security Policy*, 42(3), 257–285. <https://doi.org/10.1080/13523260.2020.1866845>
- Manullang, S. O. (2022). The Legality of Devious Cyber Practices: Readiness of Indonesia’s Cyber Laws. *Society*, 10(2), 489–502. <https://doi.org/10.33019/society.v10i2.482>
- Moudoud, H., Khoukhi, L., & Cherkaoui, S. (2021). Prediction and Detection of FDIA and DDoS Attacks in 5G Enabled IoT. *IEEE Network*, 35(2), 194–201. <https://doi.org/10.1109/MNET.011.2000449>
- Mousavi, S. M. (2021). *A survey on Cybersecurity in 5G*. (tesis). Torino.
- Permana, A. (2021). *INDONESIA’S CYBER DEFENSE STRATEGY IN MITIGATING THE RISK OF CYBER WARFARE THREATS* (Vol. 3, Issue 1).
- Riebe, T., & Reuter, C. (2019). Dual-Use and Dilemmas for Cybersecurity, Peace and Technology Assessment. In *Information Technology for Peace and Security* (pp. 165–183). Springer Fachmedien Wiesbaden. [https://doi.org/10.1007/978-3-658-25652-4\\_8](https://doi.org/10.1007/978-3-658-25652-4_8)
- Schreier, F. (2015). *On Cyber Warfare*. (Working Paper No. 7).
- Seema, P.S., Nandhini, S., & Sowmiya, M. (2018). Overview of Cyber Security. *IJARCCCE*, 7(11), 125–128. <https://doi.org/10.17148/IJARCCCE.2018.71127>

- Shi, L. (2022). Analysis of the Security of 5G Technology from the Network Level. *SHS Web of Conferences*, 144, 02007. <https://doi.org/10.1051/shsconf/202214402007>
- Siddiqi, M. A., Yu, H., & Joung, J. (2019). 5G Ultra-Reliable Low-Latency Communication Implementation Challenges and Operational Issues with IoT Devices. *Electronics*, 8(9), 981. <https://doi.org/10.3390/electronics8090981>
- Sudarmadi, D.A. & Runturambi, A.J.S. (2019). Strategi Badan Siber dan Sandi Negara (BSSN) Dalam Menghadapi Ancaman Siber di Indonesia. *Jurnal Kajian Stratejik Ketahanan Nasional*, 2(2), 157–178.
- Trikolas, T., Sungkowo, A., al Hakim, R. R., & Jaenul, A. (2022). Kelebihan, Kekurangan, Peluang Teknologi 5G di Indonesia. *INSOLOGI: Jurnal Sains Dan Teknologi*, 1(1), 43–49. <https://doi.org/10.55123/insologi.v1i1.145>
- Wang, Z., Fok, K. W., & Thing, V. L. L. (2024). *Exploring Emerging Trends in 5G Malicious Traffic Analysis and Incremental Learning Intrusion Detection Strategies*.
- Yeoh, W., Wang, S., Popovič, A., & Chowdhury, N. H. (2022). A systematic synthesis of critical success factors for cybersecurity. *Computers & Security*, 118, 102724. <https://doi.org/10.1016/j.cose.2022.102724>

## **SUMBER INTERNET**

- 5GWorldPro. (2023, Februari 9). *How 5G can help in industry 5.0 ? - 5G Training and 5G Certification*. 5GWorldPro. <https://www.5gworldpro.com/blog/2023/01/04/how-5g-can-help-in-industry-5-0/>

- Afshar, B., & Khorasani, K. (2020, Oktober). *DUAL USE TECHNOLOGY*. <https://www.concordia.ca/content/dam/ginacody/research/spnet/Documents/BriefingNotes/EmergingTech-MilitaryApp/BN-19-Emerging-technology-and-military-application-Oct2020.pdf>
- Anggana, N. D. (2024, Februari 2). *Data Jumlah Serangan Cyber di Indonesia Tahun 2023*. Widya Security. <https://widyasecurity.com/2024/02/02/data-jumlah-serangan-cyber-di-indonesia-tahun-2023/>
- ANTARA News. (2021, September 16). *Menparekraf sebut teknologi 5G Dukung pengembangan pariwisata*. ANTARA News Bali. <https://bali.antaranews.com/rilis-pers/2397121/menparekraf-sebut-teknologi-5g-dukung-pengembangan-pariwisata>
- Aurelia, N. (2022, Februari 23). *3 Penerapan IOT Pada Sektor Publik*. PT Kota Cerdas Indonesia. <https://www.smartcityindo.com/2022/02/3-penerapan-iot-pada-sektor-publik.html>
- Bacon, M. (2019, Mei 13). *DDoS attacks among top 5G security concerns*. TechTarget Security. <https://www.techtarget.com/searchsecurity/feature/DDoS-attacks-among-top-5G-security-concerns>
- Bank Indonesia. (2022). *White Paper Central Bank Digital Currency*. Jakarta. [https://www.bi.go.id/id/rupiah/digital-rupiah/Documents/White\\_Paper\\_CBDC-2022.pdf](https://www.bi.go.id/id/rupiah/digital-rupiah/Documents/White_Paper_CBDC-2022.pdf)
- Binus. (2021, September 24). *Protocol jaringan*. BINUS Online. <https://onlinelearning.binus.ac.id/computer-science/post/protocol-jaringan>

Badan Siber dan Sandi Negara. (n.d.). *Strategi Keamanan Siber nasional*. Badan Siber dan Sandi Negara. <https://www.bssn.go.id/strategi-keamanan-siber-nasional/>

Badan Siber dan Sandi Negara. (2020, Agustus 19). *SKSN Dan Csirt, Langkah BSSN Mewujudkan Keamanan Dan Ketahanan Siber*. Badan Siber dan Sandi Negara. <https://www.bssn.go.id/sksn-dan-csirt-langkah-bssn-mewujudkan-keamanan-dan-ketahanan-siber/>

Badan Siber dan Sandi Negara. (2021a). *Tentang BSSN*. Badan Siber dan Sandi Negara. <https://www.bssn.go.id/tentang-bssn/>

Badan Siber dan Sandi Negara. (2021b, Agustus 12). *Kepala BSSN Serukan Sertifikasi Standar Keamanan Perangkat untuk Mengurangi Risiko Keamanan Siber dalam 5G Security Workshop MASTEL*. Badan Siber dan Sandi Negara. <https://www.bssn.go.id/kepala-bssn-serukan-sertifikasi-standar-keamanan-perangkat-untuk-mengurangi-risiko-keamanan-siber-dalam-5g-security-workshop-mastel/>

Badan Siber dan Sandi Negara. (2021c, Oktober 26). *BSSN Selenggarakan Prakonvensi Rancangan Standar Kompetensi Kerja Nasional Indonesia RSKKNI-1 Bidang Audit Keamanan Informasi*. Badan Siber dan Sandi Negara. <https://www.bssn.go.id/bssn-selenggarakan-prakonvensi-rancangan-standar-kompetensi-kerja-nasional-indonesia-rskkni-1-bidang-audit-keamanan-informasi/>

Badan Siber dan Sandi Negara. (2021d, November 2). *BSSN berkolaborasi dengan Huawei Indonesia Gelar Pelatihan Standar Cybersecurity 5G Dukung Kesiapan Kebijakan Keamanan Ekosistem Digital*. Badan Siber dan Sandi Negara. <https://www.bssn.go.id/bssn-berkolaborasi-dengan-huawei-indonesia-gelar->

[pelatihan-standar-cybersecurity-5g-dukung-kesiapan-kebijakan-keamanan-ekosistem-digital/](#)

Badan Siber dan Sandi Negara. (2022, Agustus 24). *FGD BSSN Rekomendasikan Identifikasi Kepentingan Nasional, Pemetaan Peran dan Tanggung Jawab, serta Literasi Publik dalam Pemanfaatan Teknologi 5G Indonesia*. Badan Siber dan Sandi Negara. <https://www.bssn.go.id/fgd-bssn-rekomendasikan-identifikasi-kepentingan-nasional-pemetaan-peran-dan-tanggung-jawab-serta-literasi-publik-dalam-pemanfaatan-teknologi-5g-indonesia/>

Badan Siber dan Sandi Negara. (2023a, Desember 6). *Lanskap Keamanan Siber 2023*. Jakarta; BSSN - ID-SIRTII/CC.

Badan Siber dan Sandi Negara. (2023b, Agustus 29). *BSSN Mengadakan Sosialisasi Peraturan Presiden Nomor 47 Tahun 2023 Tentang Strategi Keamanan Siber nasional Dan Manajemen Krisis Siber*. Badan Siber dan Sandi Negara. <https://www.bssn.go.id/bssn-mengadakan-sosialisasi-peraturan-presiden-nomor-47-tahun-2023-tentang-strategi-keamanan-siber-nasional-dan-manajemen-krisis-siber/>

Badan Siber dan Sandi Negara. (2023c, Oktober 11). *Pembahasan rencana aksi Nasional Keamanan Siber Sebagai Turunan Perpres nomor 47 Tahun 2023*. Badan Siber dan Sandi Negara. <https://www.bssn.go.id/pembahasan-rencana-aksi-nasional-keamanan-siber-sebagai-turunan-perpres-nomor-47-tahun-2023/>

Badan Siber dan Sandi Negara. (2023d, November 1). *Satu Dekade Kemitraan Komprehensif, RI dan Belanda Tingkatkan Kerja Sama di Bidang Keamanan Siber*. Badan Siber dan Sandi Negara. <https://www.bssn.go.id/satu-dekade-kemitraan-komprehensif-ri-dan-belanda-tingkatkan-kerja-sama-di-bidang-keamanan-siber/>

Bannerman, N. (2024, Januari 31). *Malaysia reaches 80% 5G network coverage with plans for dual network model*. Capacity Media. <https://www.capacitymedia.com/article/2cpuwa7dudimst8b4x9ts/news/malaysia-reaches-80-5g-network-coverage-with-plans-for-dual-network-model>

Blackman, J. (2023, Juni 7). *DDoS attacks using IOT bots have jumped five-fold in 12 months, says report*. RCR Wireless News. <https://www.rcrwireless.com/20230607/internet-of-things-4/ddos-attacks-using-iot-bots-have-jumped-five-fold-in-12-months-says-report>

Bloom, D. (2022, Desember 5). *The top 4 ddos attack vectors threatening 5G networks*. Allot. <https://www.allot.com/blog/top-ddos-attack-vectors-threatening-5g/>

Carlini, S. (2018, September 20). *Worlds Collide! 5G NR Deployment Requires IT and Telco to Converge into a Distributed Cloud Data Center Architecture*. Schneider Electric. <https://blog.se.com/datacenter/2018/09/20/5g-nr-deployment-requires-it-and-telco-to-converge/>

CISA. (n.d.). *5G security and resilience*. Cybersecurity and Infrastructure Security Agency CISA. <https://www.cisa.gov/topics/risk-management/5g-security-and-resilience#:~:text=Critical%20infrastructure%20systems%20across%20all,a%20priority%20for%20the%20Agency>.

CNN Indonesia. (2023, Juli 27). *Riset Ungkap 10 Negara dengan Jaringan 5G Paling Ngebut, Ada RI?*. <https://www.cnnindonesia.com/teknologi/20230727043821-213-978328/riset-ungkap-10-negara-dengan-jaringan-5g-paling-ngebut-ada-ri>

CNN Indonesia. (2022, November 6). *Viral TV analog Dimatikan Demi 5G, Kominfo Beri Penjelasan*. CNN Indonesia.



<https://www.cnnindonesia.com/teknologi/20221106043115-213-870039/viral-tv-analog-dimatikan-demi-5g-kominfo-beri-penjelasan>

CompTIA. (n.d.). *What is cybersecurity: Types and threats defined: Cybersecurity*. CompTIA. <https://www.comptia.org/content/articles/what-is-cybersecurity>

Cybersecurity and Infrastructure Security Agency. (2023). *5G security and resilience*. Cybersecurity and Infrastructure Security Agency CISA. <https://www.cisa.gov/topics/risk-management/5g-security-and-resilience#:~:text=5G%20hardware%2C%20software%2C%20and%20services,confidentiality%2C%20integrity%2C%20and%20availability>

Darisman, M. (2024, Juni 28). *Anggaran RP 700 m Dinilai Cukup Untuk Pemeliharaan PDN KOMINFO*. Kumparan. <https://kumparan.com/kumparanbisnis/anggaran-rp-700-m-dinilai-cukup-untuk-pemeliharaan-pdn-kominfo-231fDzZBnwf/full>

Davies, V. (2021, Oktober 4). *The history of Cybersecurity*. Cyber Magazine. <https://cybermagazine.com/cyber-security/history-cybersecurity>

Sopto. (2019, Maret 15). *Difference between 4G and 5G network*. Sopto. [https://www.sopto.com.cn/sp\\_news/show-382.html](https://www.sopto.com.cn/sp_news/show-382.html)

Dihni, V. A. (2022, Juni 8). *Indonesia Alami Kasus Serangan ransomware terbanyak di asia tenggara: Databoks*. Pusat Data Ekonomi dan Bisnis Indonesia. <https://databoks.katadata.co.id/datapublish/2022/06/08/indonesia-alami-kasus-serangan-ransomware-terbanyak-di-asia-tenggara>

Dirgasatya. (2024, Januari 11). *Maksimalkan petualangan anda: Bagaimana Teknologi 5G Dan Industri pariwisata Meningkatkan Pengalaman Wisata*

*Dengan koneksi Cepat.* Dirga Satya. <https://www.dirgasatya.com/maksimalkan-petualangan-anda-bagaimana-teknologi-5g-dan-industri-pariwisata-meningkatkan-pengalaman-wisata-dengan-koneksi-cepat/>

DPR RI. (2016). *J.D.I.H. - Undang Undang Dasar 1945*. Dewan Perwakilan Rakyat. <https://www.dpr.go.id/jdih/uu1945>

Frank. (2023, Mei 10). *Edge computing security: Risks, Considerations, and best practices*. Stream. <https://getstream.io/blog/edge-computing-security/>

Gillis, A. S., Brush, K., & Teravainen, T. (2021, Juli 13). *What is spyware?*. TechTarget Security. <https://www.techtarget.com/searchsecurity/definition/spyware>

Greig, J. (2024, Maret 25). *US sanctions alleged Chinese state hackers for attacks on Critical Infrastructure*. Cyber Security News. <https://therecord.media/us-sanctions-chinese-hackers-infrastructure-attacks>

Habib, M. F. S. (2023, November 25). *Peran 5g Dalam Mendorong Pertumbuhan Ekonomi Dan Inovasi di Berbagai Sektor*. KOMPASIANA. <https://www.kompasiana.com/muh77809/65619de3de948f278e011b62/peran-5g-dalam-mendorong-pertumbuhan-ekonomi-dan-inovasi-di-berbagai-sektor>

Hardiansyah, Z. (2024, Juli 10). *Kronologi Serangan ransomware Ke Pdn Dan Penanganannya Yang Tak Kunjung Usai*. KOMPAS.com. [https://tekno.kompas.com/read/2024/07/10/12350077/kronologi-serangan-ransomware-ke-pdn-dan-penanganannya-yang-tak-kunjung-usai#google\\_vignette](https://tekno.kompas.com/read/2024/07/10/12350077/kronologi-serangan-ransomware-ke-pdn-dan-penanganannya-yang-tak-kunjung-usai#google_vignette)

- IBM. (2022, April 14). *What is malware?*. IBM. <https://www.ibm.com/topics/malware#:~:text=Increasingly%2C%20malware%20attacks%20target%20businesses,sums%20of%20money%20from%20them.>
- IME FTUI. (2023, September 11). *Perkembangan 5g Saat Ini di Indonesia*. Ikatan Mahasiswa Elektro UI. <https://ime.eng.ui.ac.id/perkembangan-5g-saat-ini-di-indonesia/>
- Indeks Literasi Digital Indonesia. (2022). *Indeks Literasi Digital Indonesia*. Kominfo. <https://survei.literasidigital.id/>
- Indeks Masyarakat Digital Indonesia. (2022). *Indeks Masyarakat Digital Indonesia*. IMDI. <https://imdi.sdmdigital.id/nasional>
- International Telecommunication Union. (n.d.). *Cybersecurity*. ITU. <https://www.itu.int/en/ITU-T/studygroups/com17/Pages/cybersecurity.aspx#:~:text=Cybersecurity%20is%20the%20collection%20of,and%20organization%20and%20user's%20assets>
- Iradat, D. (2023, November 9). *Menkominfo Tegaskan Jaringan internet di IKN harus 5G*. CNN Indonesia. <https://www.cnnindonesia.com/teknologi/20231109192412-213-1022207/menkominfo-tegaskan-jaringan-internet-di-ikn-harus-5g>
- Jemadu, L. (2022, Mei 19). *Menkominfo: Teknologi 5G akan buka 4,6 Juta Lapangan Kerja*. suara.com. <https://www.suara.com/tekno/2022/05/19/155135/menkominfo-teknologi-5g-akan-buka-46-juta-lapangan-kerja>
- Jones, C. (2022, Oktober 10). *What exactly does “Edge security” mean in cybersecurity?* Red River. <https://redriver.com/security/edge-security>

Kavanagh, S. (2022, November 17). *What is Enhanced Mobile Broadband (embb)*. The 5G Comparison Site. <https://5g.co.uk/guides/what-is-enhanced-mobile-broadband-embb/>

Khan Academy. (2018, Agustus 30). *The Atomic Bomb & The Manhattan Project (article)*. Khan Academy. <https://www.khanacademy.org/humanities/us-history/rise-to-world-power/us-wwii/a/the-manhattan-project-and-the-atomic-bomb#:~:text=Overview,in%20the%20Second%20World%20War.>

Khandelwal, S. (2018, Maret 5). *New 4G LTE network attacks let hackers spy, track, spoof and Spam*. The Hacker News. <https://thehackernews.com/2018/03/4g-lte-network-hacking.html>

Kementerian Pertahanan. (2015, November 20). *BUKU PUTIH PERTAHANAN INDONESIA 2015*. Jakarta; Kementerian Pertahanan Republik Indonesia.

Kementerian Pertahanan. (2014, Oktober 17). *PEDOMAN PERTAHANAN SIBER*. Jakarta; Kementerian Pertahanan Republik Indonesia.

Kenyon, T. (2022, Maret 25). *How are ddos attacks impacting businesses and services?*. Cyber Magazine. <https://cybermagazine.com/cyber-security/how-are-ddos-attacks-impacting-businesses-and-services>

Kominfo. (2017, Juni 5). *BSSN Jadi Lembaga Utama Keamanan Siber*. Kementerian Komunikasi dan Informatika. [https://www.kominfo.go.id/content/detail/9800/bssn-jadi-lembaga-utama-keamanan-siber/0/sorotan\\_media](https://www.kominfo.go.id/content/detail/9800/bssn-jadi-lembaga-utama-keamanan-siber/0/sorotan_media)

Kominfo. (2021a). *Rencana Strategis 2020-2024*. Kementerian Komunikasi dan Informatika.

Kominfo. (2021b, September 15). *Maksimalkan Manfaat 5G, Menkominfo: Pemerintah Galang Sinergitas 3 Bidang*. Kementerian Komunikasi dan Informatika. [https://www.kominfo.go.id/content/detail/36980/siaran-pers-no-332hmkominfo092021-tentang-maksimalkan-manfaat-5g-menkominfo-pemerintah-galang-sinergitas-3-bidang/0/siaran\\_pers](https://www.kominfo.go.id/content/detail/36980/siaran-pers-no-332hmkominfo092021-tentang-maksimalkan-manfaat-5g-menkominfo-pemerintah-galang-sinergitas-3-bidang/0/siaran_pers)

Kominfo. (2021c, Mei 31). *Jaringan 5G Resmi Beroperasi, Transformasi Digital Melesat*. Kementerian Komunikasi dan Informatika. <https://www.kominfo.go.id/content/detail/34812/jaringan-5g-resmi-beroperasi-transformasi-digital-melesat/0/artikel>

Kominfo. (2021d, Mei 24). *Pemerintah Dorong pemanfaatan 5G untuk industri dalam negeri*. Kementerian Komunikasi dan Informatika. <https://www.kominfo.go.id/content/detail/35312/pemerintah-dorong-pemanfaatan-5g-untuk-industri-dalam-negeri/0/berita>

Kominfo. (2021e, Mei 24). *Terbitkan ULO, Menkominfo: Indonesia Segera Masuki Era 5G*. Kementerian Komunikasi dan Informatika. [https://www.kominfo.go.id/content/detail/34677/siaran-pers-no-183hmkominfo052021-tentang-terbitkan-ulo-menkominfo-indonesia-segera-masuki-era-5g/0/siaran\\_pers](https://www.kominfo.go.id/content/detail/34677/siaran-pers-no-183hmkominfo052021-tentang-terbitkan-ulo-menkominfo-indonesia-segera-masuki-era-5g/0/siaran_pers)

Kominfo. (2021f, April 7). *Dukungan Tata Kelola 5G yang Komprehensif, Menteri Johnny Paparkan 5 Aspek Kebijakan*. Kementerian Komunikasi dan Informatika. [https://www.kominfo.go.id/content/detail/33740/siaran-pers-no114hmkominfo042021-tentang-dukungan-tata-kelola-5g-yang-komprehensif-menteri-johnny-paparkan-5-aspek-kebijakan/0/siaran\\_pers](https://www.kominfo.go.id/content/detail/33740/siaran-pers-no114hmkominfo042021-tentang-dukungan-tata-kelola-5g-yang-komprehensif-menteri-johnny-paparkan-5-aspek-kebijakan/0/siaran_pers)

Kominfo. (2023, September 21). *ASO Tuntas, Pemerintah Dorong Pemanfaatan Teknologi 5G*. Kementerian Komunikasi dan Informatika.

[https://www.kominfo.go.id/content/detail/51744/siaran-pers-no-320hmkominfo092023-tentang-aso-tuntas-pemerintah-dorong-pemanfaatan-teknologi-5g/0/siaran\\_pers](https://www.kominfo.go.id/content/detail/51744/siaran-pers-no-320hmkominfo092023-tentang-aso-tuntas-pemerintah-dorong-pemanfaatan-teknologi-5g/0/siaran_pers)

Kominfo. (2024a). *Tugas dan Fungsi*. Kementerian Komunikasi dan Informatika. <https://www.kominfo.go.id/tugas-dan-fungsi>

Kominfo. (2024b). *Struktur Organisasi*. Kementerian Komunikasi dan Informatika. <https://www.kominfo.go.id/struktur-organisasi>

Law, M. (2023, September 27). *Global events driving rise in ddos attacks, says netscout*. Cyber Magazine. <https://cybermagazine.com/articles/global-events-driving-increase-in-ddos-attacks>

Link Net. (2023, Juni 5). *Apa Itu Ransomware? Pengertian, Cara Kerja, Dan Contoh Kasusnya*. Link Net. <https://www.linknet.id/article/ransomware>

Meilinaeka. (2023, April 14). *Perbedaan 4G dan 5g Dari performansi Dan Komponen Arsitektur*. Direktorat Pusat Teknologi Informasi. <https://it.telkomuniversity.ac.id/perbedaan-4g-dan-5g/>

Meodia, A. (2018, Maret 19). *Awas, Kamera CCTV Bisa Jadi “Mata” hacker*. Antara News. <https://www.antaranews.com/berita/694133/awas-kamera-cctv-bisa-jadi-mata-hacker>

Microsoft Indonesia. (2020, Juni 26). *Tingkat Kasus Malware di Indonesia Tertinggi di Asia Pasifik: Laporan Microsoft Security Endpoint Threat 2019*. Indonesia News Center. <https://news.microsoft.com/id-id/2020/06/26/tingkat-kasus-malware-di-indonesia-tertinggi-di-asia-pasifik-laporan-microsoft-security-endpoint-threat-2019/>

- Murphy, M. (2022, Maret 10). *5G vs. 4G: Key similarities and differences*. Hologram. <https://www.hologram.io/blog/5g-vs-4g/>
- Naim, Y. J. (2019, November 29). *Teknologi 5G dorong Indonesia jadi kekuatan ekonomi terbesar 2030*. Antara News. <https://www.antaraneews.com/berita/1185887/teknologi-5g-dorong-indonesia-jadi-kekuatan-ekonomi-terbesar-2030>
- Nistanto, R. K. (2021, Mei 29). *Perjalanan 5g di Indonesia, Dari Uji Coba, Lelang Frekuensi, Hingga Komersil Halaman all*. KOMPAS.com. <https://tekno.kompas.com/read/2021/05/29/19210047/perjalanan-5g-di-indonesia-dari-uji-coba-lelang-frekuensi-hingga-komersil?page=all>
- NordVPN. (n.d.). *Edge network: Definition and advantages*. NordVPN. <https://nordvpn.com/cybersecurity/glossary/edge-network/>
- O’Flaherty, K. (2019, Februari 26). *Huawei Security scandal: Everything you need to know*. Forbes. <https://www.forbes.com/sites/kateoflahertyuk/2019/02/26/huawei-security-scandal-everything-you-need-to-know/?sh=2f764c9573a5>
- O’Sullivan, M. (2022, Februari 23). *Potential threat vectors to 5G infrastructure (9 examples)*. Enea. <https://www.enea.com/insights/sms-attacks-and-misuse-in-5g-lessons-learned-to-protect-the-future/>
- Olsson, J., Shorov, A., Abdelrazek, L., & Whitefield, J. (2021, Mei 12). *5G ZERO TRUST*. ERICSSON.
- Pa, W. (n.d.). *Robotics: A Brief History*. Stanford. <https://cs.stanford.edu/people/eroberts/courses/soco/projects/1998-99/robotics/history.html>

Pahlevi, R. (2023, Desember 22). *CEK data: Gibran Singgung Pencurian Data, Indonesia Negara KE-13 dengan kebocoran tertinggi*. Pusat Data Ekonomi dan Bisnis Indonesia. <https://databoks.katadata.co.id/datapublish/2023/12/22/cek-data-gibran-singgung-pencurian-data-indonesia-negara-ke-13-dengan-kebocoran-tertinggi#:~:text=Mengutip%20data%20Surfshark%2C%20Indonesia%20adalah,7%20juta%20akun%20di%20Indonesia>.

Peraturan Presiden Republik Indonesia Nomor 47 Tahun 2023 tentang Strategi Keamanan Siber Nasional dan Manajemen Krisis Siber.

Telkomsel. (2021, Mei 25). *Perjalanan Telkomsel Mempersiapkan Kehadiran 5G di Indonesia*. Telkomsel. <https://www.telkomsel.com/about-us/blogs/perjalanan-telkomsel-mempersiapkan-kehadiran-5g-di-indonesia>

Preimesberger, C. J. (2023, Agustus 5). *Network slicing maximizes 5G technology, but are security concerns slowing adoption?*. SDxCentral. <https://www.sdxcentral.com/articles/news/network-slicing-maximizes-5g-technology-but-are-security-concerns-slowing-adoption/2023/08/>

Raj, A. (2023, September 14). *Cybersecurity in Malaysia sees significant improvements in 2023*. Tech Wire Asia. <https://techwireasia.com/09/2023/businesses-in-malaysia-increase-cybersecurity-budget-allocation-in-2023/>

Saunders, S. M. (2023, Februari 21). *Op-ed: US policy toward Huawei is spectacularly ill-advised*. Fierce Network. <https://www.fierce-network.com/apps-services/us-policy-towards-huawei-spectacularly-ill-advised>

Savitri, D. (2024, Juli 3). *PPI Dunia usulkan 6 solusi Konkret Soal ransomware Pusat Data nasional*. detikedu. <https://www.detik.com/edu/edutainment/d->



[7420462/ppi-dunia-usulkan-6-solusi-konkret-soal-ransomware-pusat-data-nasional](#)

Savitri, P. I. (2021, Agustus 12). *Akademisi: Jaringan 5G merupakan Tantangan Bagi keamanan nasional*. Antara News. <https://www.antarane.ws.com/berita/2323094/akademisi-jaringan-5g-merupakan-tantangan-bagi-keamanan-nasional>

SDPPI Kominfo. (2023a, Juli 28). *Implementasi 5g Beri Layanan Berkualitas di Masa Depan: Seputar SDPPI*. Direktorat Jenderal Sumber Daya dan Perangkat Pos dan Informatika. <https://www.postel.go.id/berita-implementasi-5g-berilayanan-berkualitas-di-masa-depan-27-6003>

SDPPI Kominfo. (2023b, Maret 1). *Perkuat Inovasi Ekosistem 5G, Kominfo dan Pelaku Usaha Luncurkan Portal 5Gnow.id*. Direktorat Jenderal Sumber Daya dan Perangkat Pos dan Informatika. <https://sdppi.kominfo.go.id/berita-perkuat-inovasi-ekosistem-5g-kominfo-dan-pelaku-usaha-luncurkan-portal-5gno-26-5853>

SDxCentral Studios. (n.d.). *What is 5G network slicing? A definition*. SDxCentral Studios. <https://www.sdxcentral.com/5g/definitions/key-elements-5g-network/5g-network-slicing/>

Seddon, S. (2024, Maret 30). *AT&T Data Breach: Millions of customers caught up in major dark web leak*. BBC News. <https://www.bbc.com/news/world-us-canada-68701958>

Shepherd, P. (2018, Oktober 9). *Discover 5G core network functions compared to 4G LTE* by Paul Shepherd. Award Solutions. <https://www.awardsolutions.com/portal/shareables/what-is-5G/5G-Training-Online/discover-5g-core-network-functions-compared-4g-lte>

- Singh, M. (2022, Desember 23). *5G could pose a huge cybersecurity risk: Ruchir Shukla, MD, Safehouse Tech*. The Times of India. <https://timesofindia.indiatimes.com/gadgets-news/5g-could-pose-a-huge-cybersecurity-risk-ruchir-shukla-md-safehouse-tech/articleshow/96435263.cms>
- Sullivan, P. (2024, Januari 5). *What is a CERT (Computer Emergency Response Team)?*. TechTarget. <https://www.techtarget.com/whatis/definition/CERT-Computer-Emergency-Readiness-Team>
- Sutrisna, T., & Prabowo, D. (2024, Juni 26). *Pemerintah Akui Tak Bisa Pulihkan data Kementerian/lembaga Terdampak Peretasan PDN*. Kompas. <https://nasional.kompas.com/read/2024/06/26/18375561/pemerintah-akui-tak-bisa-pulihkan-data-kementerian-lembaga-terdampak>
- Telenor IoT. (2023, November 8). *What is 5G technology and what does 5G mean for IOT?*. Telenor IoT. <https://iot.telenor.com/technologies/connectivity/5g/#:~:text=5G%20is%20well%2Dpositioned%20to,needs%20of%20the%20use%20case.>
- Telkomsel. (2022, November 29). *Telkomsel Bersama Ericsson Dan Qualcomm Bekerjasama Dalam Pemanfaatan potensi extended-range 5G millimeter-wave (mmwave)*. Telkomsel. <https://www.telkomsel.com/about-us/news/telkomsel-bersama-ericsson-dan-qualcomm-bekerjasama-dalam-pemanfaatan-potensi>
- Telkomsel. (2023a, Februari 28). *Telkomsel Dan Huawei Berkolaborasi, Hadirkan Pengalaman Digital Terdepan Bagi Pelanggan Dengan mengeksplorasi Teknologi Bersama Melalui ADOPSI “guide to future telco.”* Telkomsel. <https://www.telkomsel.com/about-us/news/telkomsel-dan-huawei-berkolaborasi-hadirkan-pengalaman-digital-terdepan-bagi>

Telkomsel. (2023b, Maret 2). *Telkomsel, Ericsson, dan Qualcomm Perkuat Kolaborasi dalam Pengembangan Peta Jalan Teknologi Fixed Wireless Access Berbasis 5G*. Telkomsel. <https://www.telkomsel.com/about-us/news/telkomsel-ericsson-dan-qualcomm-perkuat-kolaborasi-dalam-pengembangan-peta-jalan>

Undang-Undang Republik Indonesia Nomor 3 Tahun 2002 Tentang Pertahanan Negara.

United Nations. (2020). *The impact of Digital Technologies*. United Nations. <https://www.un.org/en/un75/impact-digital-technologies>

Wade, M. R. & Pfäffli, M. P., (2023, Agustus 8). *What is a smart city anyways?*. IMD Business School for Management and Leadership Courses. <https://www.imd.org/research-knowledge/technology-management/articles/what-is-a-smart-city-anyways/>

Waqas. (2018, Maret 7). *Hackers can send fake emergency alerts by exploiting 4G LTE protocol flaws*. Hackread. <https://www.hackread.com/hackers-can-send-fake-emergency-alerts-with-4g-lte-flaw/>