

DAFTAR PUSTAKA

- [1] D. Scotece, A. Noor, L. Foschini, and A. Corradi, “5G-Kube: Complex Telco Core Infrastructure Deployment Made Low-Cost,” *IEEE Communications Magazine*, vol. 61, no. 7, pp. 26–30, Jul. 2023, doi: 10.1109/MCOM.006.2200693.
- [2] L. Bonati, M. Polese, S. D’Oro, S. Basagni, and T. Melodia, “Open, Programmable, and Virtualized 5G Networks: State-of-the-Art and the Road Ahead,” *Computer Networks*, vol. 182, p. 107516, Dec. 2020, doi: 10.1016/j.comnet.2020.107516.
- [3] T.-Y. Chou, J.-W. Hu, W.-Y. Huang, and T.-L. Liu, “ONOS-based System of TWAREN Virtual Dedicated Network Provisioning in Web UI,” in *2019 IEEE International Conference on Consumer Electronics - Taiwan (ICCE-TW)*, IEEE, May 2019, pp. 1–2. doi: 10.1109/ICCE-TW46550.2019.8991931.
- [4] O. Arouk and N. Nikaein, “Kube5G: A Cloud-Native 5G Service Platform,” in *GLOBECOM 2020 - 2020 IEEE Global Communications Conference*, IEEE, Dec. 2020, pp. 1–6. doi: 10.1109/GLOBECOM42002.2020.9348073.
- [5] K. Cengiz and M. Aydemir, “Next-Generation infrastructure and technology issues in 5G systems,” *Journal of Communications Software and Systems*, vol. 14, no. 1, pp. 33–39, 2018, doi: 10.24138/jcomss.v14i1.422.
- [6] S. Barrachina-Muñoz, M. Payaró, and J. Manges-Bafalluy, “Cloud-native 5G experimental platform with over-the-air transmissions and end-to-end monitoring,” pp. 1–6, Jul. 2022, [Online]. Available: <http://arxiv.org/abs/2207.11936>
- [7] K. Du, X. Wen, L. Wang, and T. T. Nguyen, “A Cloud-Native Based Access and Mobility Management Function Implementation in 5G Core,” *2020 IEEE 6th International Conference on Computer and Communications, ICC 2020*, pp. 1251–1256, 2020, doi: 10.1109/ICCC51575.2020.9345262.
- [8] D. Lake, N. Wang, R. Tafazolli, and L. Samuel, “Softwarization of 5G Networks- Implications to Open Platforms and Standardizations,” *IEEE Access*, vol. 9, pp. 88902–88930, 2021, doi: 10.1109/ACCESS.2021.3071649.
- [9] “OAIBOX 5G LAB Manual.” Accessed: Oct. 31, 2023. [Online]. Available: <https://oaibox.com/5g-lab-manual/>

- [10] J. Brassil, “Investigating Integrated Access and Backhaul on the Aether 5G Testbed,” in 2021 IEEE 4th 5G World Forum (5GWF), IEEE, Oct. 2021, pp. 281–286. doi: 10.1109/5GWF52925.2021.00056.
- [11] “Runtime Operational Control (ROC).” Accessed: Oct. 31, 2023. [Online]. Available: <https://docs.aetherproject.org/aether-1.5/amp/roc.html>
- [12] O. Arouk and N. Nikaiein, “5G Cloud-Native: Network Management & Automation,” in NOMS 2020 - 2020 IEEE/IFIP Network Operations and Management Symposium, IEEE, Apr. 2020, pp. 1–2. doi: 10.1109/NOMS47738.2020.9110392.
- [13] Telecomm Infra Project, “OpenRAN ROMA CD/CT OpenRAN Automation White-Paper,” 2023. Accessed: Dec. 09, 2023. [Online]. Available: <https://telecominfraproject.com/openran/>
- [14] J. , Rabcan and Vakhitova A, “MODERN FRAMEWORKS FOR WEB-APPLICATION DEVELOPMENT,” Ğylym žáne bilim, vol. 3, no. 3(72), pp. 33–40, Sep. 2023, doi: 10.52578/2305-9397-2023-3-2-33-40.
- [15] O-RAN ALLIANCE, “O-RAN Working Group 6 Cloudification and Orchestration Use Cases and Requirements for O-RAN Virtualized RAN.” Accessed: Dec. 09, 2023. [Online]. Available: <https://orandownloadsweb.azurewebsites.net/specifications>
- [16] “5G-EPICENTRE : Cloud-Native NetApps for Public Protection and Disaster Relief,” 2023. Accessed: Dec. 07, 2023. [Online]. Available: https://www.5gepicentre.eu/wp-content/uploads/2023/04/5G-EPICENTRE_D2.2_Cloud-Native-Infrastructure-v2.0-compressed.pdf
- [17] D. T. Nguyen and H. T. Nguyen, “Enhancing CNF performance for 5G core network using SR-IOV in Kubernetes,” in 2022 24th International Conference on Advanced Communication Technology (ICACT), IEEE, Feb. 2022, pp. 501–506. doi: 10.23919/ICACT53585.2022.9728817.
- [18] B. Yi, X. Wang, K. Li, S. k. Das, and M. Huang, “A comprehensive survey of Network Function Virtualization,” Mar. 14, 2018, Elsevier B.V. doi: 10.1016/j.comnet.2018.01.021.
- [19] A. Leivadreas, G. Kesidis, M. Ibnkahla, and I. Lambadaris, “VNF Placement Optimization at the Edge and Cloud †,” Future Internet, vol. 11, no. 3, p. 69, Mar. 2019, doi: 10.3390/fi11030069.

- [20] W. Attaoui, E. Sabir, H. Elbiaze, and M. Guizani, "VNF and CNF Placement in 5G: Recent Advances and Future Trends," *IEEE Transactions on Network and Service Management*, 2023, doi: 10.1109/TNSM.2023.3264005.
- [21] J. Shen and J. Brower, "Access and Edge Network Architecture and Management," in *Future Networks, Services and Management*, Cham: Springer International Publishing, 2021, pp. 157–183. doi: 10.1007/978-3-030-81961-3_5.
- [22] W. Attaoui, E. Sabir, H. Elbiaze, and M. Guizani, "VNF and CNF Placement in 5G: Recent Advances and Future Trends," *IEEE Transactions on Network and Service Management*, vol. 20, no. 4, pp. 4698–4733, Dec. 2023, doi: 10.1109/TNSM.2023.3264005.
- [23] S. Troia, M. Savi, and G. Maier, "Performance characterization and profiling of chained CPU-bound Virtual Network Functions," *Computer Networks*, vol. 231, p. 109815, Jul. 2023, doi: 10.1016/j.comnet.2023.109815.
- [24] P. Mandal, "Comparison of Placement Variants of Virtual Network Functions From Availability and Reliability Perspective," *IEEE Transactions on Network and Service Management*, vol. 19, no. 2, pp. 860–874, Jun. 2022, doi: 10.1109/TNSM.2022.3148006.
- [25] A. De Domenico, Y.-F. Liu, and W. Yu, "Optimal Virtual Network Function Deployment for 5G Network Slicing in a Hybrid Cloud Infrastructure," *IEEE Trans Wirel Commun*, vol. 19, no. 12, pp. 7942–7956, Dec. 2020, doi: 10.1109/TWC.2020.3017628.
- [26] Q. Zhang, F. Liu, and C. Zeng, "Online Adaptive Interference-Aware VNF Deployment and Migration for 5G Network Slice," *IEEE/ACM Transactions on Networking*, vol. 29, no. 5, pp. 2115–2128, Oct. 2021, doi: 10.1109/TNET.2021.3080197.
- [27] H. Taherdoost and M. Madanchian, "Multi-Criteria Decision Making (MCDM) Methods and Concepts," *Encyclopedia*, vol. 3, no. 1, pp. 77–87, Jan. 2023, doi: 10.3390/encyclopedia3010006.
- [28] M. Gramaglia, P. Serrano, A. Banchs, G. Garcia-Aviles, A. Garcia-Saavedra, and R. Perez, "The case for serverless mobile networking," in *2020 IFIP Networking Conference (Networking)*, 2020, pp. 779–784.

- [29] P. D. Dutonde, "Website Development Technologies: A Review," *Int J Res Appl Sci Eng Technol*, vol. 10, no. 1, pp. 359–366, Jan. 2022, doi: 10.22214/ijraset.2022.39839.
- [30] V. Thoutam, "A Study On Python Web Application Framework," *Journal of Electronics, Computer Networking and Applied Mathematics*, no. 11, pp. 48–55, Sep. 2021, doi: 10.55529/jecnam.11.48.55.
- [31] B. Coll-Perales, M. C. Lucas-Estañ, and M. Sepulcre, "End-to-End V2X Latency Modeling and Analysis in 5G Networks," *IEEE Trans Veh Technol*, vol. 72, no. 4, pp. 5094–5109, Apr. 2023, doi: 10.1109/TVT.2022.3224614.
- [32] Y. Hu, W. Yang, and Y. Wang, "Fuzzing Method Based on Selection Mutation of Partition Weight Table for 5G Core Network NGAP Protocol," 2022, pp. 144–155. doi: 10.1007/978-3-030-79728-7_15.
- [33] C.-A. Shen, K.-C. Lu, and S.-Y. Tan, "A Programmable and FPGA-accelerated GTP Offloading Engine for Mobile Edge Computing in 5G Networks," in *IEEE INFOCOM 2019 - IEEE Conference on Computer Communications Workshops (INFOCOM WKSHPS)*, IEEE, Apr. 2019, pp. 1021–1022. doi: 10.1109/INFOCOMW.2019.8845143.
- [34] E. Sarikaya and E. Onur, "Placement of 5G RAN Slices in Multi-tier O-RAN 5G Networks with Flexible Functional Splits," in *2021 17th International Conference on Network and Service Management (CNSM)*, IEEE, Oct. 2021, pp. 274–282. doi: 10.23919/CNSM52442.2021.9615541.
- [35] L. A. Vayghan, M. A. Saied, M. Toeroe, and F. Khendek, "Kubernetes as an Availability Manager for Microservice Applications."
- [36] N. Singh, A. Singh, and V. Rawat, "Deploying Jenkins, Ansible and Kubernetes to Automate Continuous Integration and Continuous Deployment Pipeline," in *2022 IEEE International Conference on Service Operations and Logistics, and Informatics (SOLI)*, IEEE, Dec. 2022, pp. 1–5. doi: 10.1109/SOLI57430.2022.10294378.
- [37] K. Gallaba, "Improving the Robustness and Efficiency of Continuous Integration and Deployment," in *2019 IEEE International Conference on Software Maintenance and Evolution (ICSME)*, IEEE, Sep. 2019, pp. 619–623. doi: 10.1109/ICSME.2019.00099.
- [38] A. E. Nocentino and B. Weissman, "Kubernetes Architecture," in *SQL Server on Kubernetes*, Berkeley, CA: Apress, 2021, pp. 53–70. doi: 10.1007/978-1-4842-7192-6_3.

- [39] V. Sharma, “Managing Multi-Cloud Deployments on Kubernetes with Istio, Prometheus and Grafana,” in 2022 8th International Conference on Advanced Computing and Communication Systems (ICACCS), IEEE, Mar. 2022, pp. 525–529. doi: 10.1109/ICACCS54159.2022.9785124.
- [40] 3GPP 29.510, “5G System; Network function repository services; Stage 3,” 2017.
- [41] Rumah Coding, “Lingkungan Pengembangan Virtual (Virtual Environment) .” Accessed: May 05, 2024. [Online]. Available: <https://rumahcoding.id/belajar/python-fundamental/membuat-dan-mengelola-proyek-python/lingkungan-pengembangan-virtual/>
- [42] “Develop with PatternFly.” Accessed: May 05, 2024. [Online]. Available: <https://www.patternfly.org/get-started/develop/>