

Survey on Techniques to Effectively Test in DEVOPS with Latest Tooling

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Abstract: *The purpose of this paper is to explore testing in DevOps. Now a days, many of the projects are using DevOps for development, testing, monitoring, production as well as automation. The main goal of DevOps is to establish a culture of collaboration and communication between development and operation teams, allowing for more efficient and effective development, testing, deployment and operation of software applications. Basically, DevOps is the union of people, process and products to enable continuous delivery of value to our end users. There are set of DevOps test practices as DevOps test culture, Continuous test strategy, end-to-end test infrastructures, DevOps test infrastructures, DevOps test frameworks, test creation, test acceleration, DevOps ready test tools, test analytics, micro services and containers. Database DevOps testing, DevOps security testing, continuous testing antipatterns, continuous test management, advanced continuous test topics.*

Keywords: DevOps, Testing, Bugs, Product, Software, Quality, Automation, Test

BIBLIOGRAPHY/REFERENCES

- [1] A Review Paper on DevOps Methodology - Ijcrct.org
- [2] <https://www.researchgate.net/publication>
- [3] Selenium Simplified (Alan Richardson)
- [4] <https://intellipaat.com/blog/devops-testing-tutorial/#no1>
- [5] <https://www.guru99.com/devops-testing-tools.html>
- [6] Stephen Roddewigh <https://blog.hubspot.com/website/devops-testing-tools>
- [7] Jayasri Angara^{1*}, Srinivas Prasad² and Gutta Sridevi¹ 1 K. L. University, Vijayawada - 522502, Andhra Pradesh, India; angara.jayasri@gmjail.com, sridevi.gutta2012@gmail.com 2 GMR Institution of Technology (A), Rajam - 532127, Andhra Pradesh, India. "The Factors Driving Testing in DevOps Setting- A Systematic Literature Survey" Indian Journal of Science and Technology, Vol9(48), DOI:10.17485/ijst/2016/v9i48/103784, December 2016.
- [8] Saima Rafi, Muhammad Azeem Akbar, Sajjad Mahmood, Ahmed Alsanad, Abdulrahman Alothaim Deanship of Scientific Research, King Saud University "Selection of DevOps best test practices: A hybrid approach using ISM and fuzzy TOPSIS analysis" Journal of Software: Evolution and Process Volume 34 Issue 501 May 2022 <https://doi.org/10.1002/smr.2448>
- [9] Frank Faber "Testing in DevOps" https://www.researchgate.net/publication/337400749_Testing_in_DevOps.