

AFFECT OF DEVOPS BASED PRODUCT DEVELOPMENT ON SOFTWARE RELEASE PERFORMANCE IN PAKISTAN SOFTWARE INDUSTRY

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I hereby certify that the above candidate's thesis has been completed to my satisfaction and, to my belief, its standard is appropriate for submission for examination. I have also conducted plagiarism test of this thesis using HEC prescribed software and found similarity index at 14% that is within the permissible limit set by the HEC for the MBA thesis. I have also found the thesis in a format recognized by the Department of Management Sciences.

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Abstract

Purpose:

The aim of the research is to determine the Affect of DevOps based product development & delivery process on Software Release Performance in Pakistan's software industry. Research define the correlation of Software Release Performance with the level of DevOps techniques utilized by the companies to develop new products as well as extensions of existing products.

Also, research focus on how DevOps as an operational excellence practice is a strategic edge for software companies.

Methodology/sample:

The research being explanatory in nature as several researches done in this topic. It involved qualitative & quantitative data, and sample size is 367. In this study, primary data is used and the questionnaire instrument was adopted. Regression and correlation test were performed to identify the Affect of DevOps adoption on Software Release Performance.

Findings:

The results supported the empirical evidence of positive and direct Affect on Software Release Performance. Our study highlighted how DevOps as Service Infrastructure act as multiplier for Software Release Performance. The results of the study showed that DevOps adoption suited with Service Infrastructure tools help organizations to timely & effectively to deliver the software with least amount of overhead induction.

Our study results are aligning with other international researches conducted in developing countries. (Nikola Vlahovic, 2016; Theresa Yang, 2007 ;). These studies also concluded that DevOps practices helps rapid production of software & meet the ever changing customer requirements and Agile practices results in greater learning & greater teamwork.

Practical Implications:

The findings/results of this research will help management to transform to agility & implement the DevOps infrastructure on top of organizational agility. Study also helps management to know the extent of individual DevOps sub-system on overall Software

Release Performance & how DevOps as a Service infrastructure can boost the customer value delivery process.

Keywords: DevOps, Software Release, Agile, Continuous Delivery, Cloud, IAAS.