# SUMMARY

# Study, Analysis and Design of Adaptive Software Algorithms For Applied Automated System Development and Testing Patterns in The Area of High Performance Run Time Dynamic Storage in Network Cloud Environment

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Run Time Dynamic Adaptive Automation Testing (RTDDA) has tools those are mainly divided in two categories Free/Open Source Tools and Commercial Tools. A Practical implementation of Adaptive automation system by setting up Automated Build System (Jenkins) over cloud.

This research worked on broad area of automation, with focus of adaptive automation for High Speed Storage and that itself should be in dynamic, run time environment. This is possible with the algorithms able to work in environment in High Performance and High Speed, but enough transportation of data storage should be there.

Present era is an era of information and vast information is lying over servers worldwide. This information is accessed using various Internetworking technologies, protocols and search engines.

Here the nature is always dynamic, and processing of information is done on need basis. This all information is managed with various data centres. Hence every Big organization manages and runs Data Centres where high speed storage networking protocols are used. Then this information is travels over Internet using TCP/IP stack and application Layer protocols mainly in a secure manner. This research opens the scope of study of secure data storage, access and transfer in cloud network, i.e. the uses of https (Transport Level Security), and various cryptography and security algorithms.

Hence this research can be taken further with other areas where data is processed dynamically to conclude decision at run time. Hence this research plays a significant role in added technologies.

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