



Ref: LW|tnd|PL|00177

Date: 15th August, 2016

TO WHOMSOEVER IT MAY CONCERN

This is to certify that the project work and report entitled “High Performance Distributed Computing for Big Data Using Hadoop Framework & running applications on large clusters Containerized Docker Engine using Python TUI - Super Computing with Operational Intelligence Tool- Splunk- HMAT” embodies the original work of Mr. Ranjeet Kumar Singh from Meerut Institute of Engineering and Technology, Meerut (B.Tech – Computer Science and Engineering) at LinuxWorld Informatics Pvt Ltd, Jaipur – An ISO 9001:2008 Certified Organization (RedHat's & Cisco's Premium Partner in Rajasthan).

The duration of the project undergone as mentioned above, under the mentorship of Mr. Vimal Daga, Technical Head was from 15th June, 2016 to 15th August, 2016.

Gist About the Project: - HAMP is a tool for haddop cluster automation and management over Hadoop version 1 and 2 both. This uses Dockers for providing On-demand service of mode management. The Cluster can be setup in two ways:

- Automatic Configuration
- Manual Configuration
- On Demand configuration

Highlights of the Projects:

- HAMT includes **Splunk** which provides ease to the user in gathering or processing information by using its Operational Intelligence.
- **HIVE** is another part of HAMT allowing users to perform complex and data intensive task over the data stored on the hadoop cluster without forcing users to do any MapReduce programming.
- **PIG** framework is also included in it, It allows to perform various database operation and maintain the job history using History Server of Hadoop.
- The Wonder Technology “**DOCKER**” is beautiful integrated into this project for making On-Demand ability to the project.

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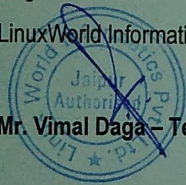
- Happ is an interface provided to the user to perform tasks on hadoop cluster without using commands
- High availability is another feature of this tool which is implemented using NFS and secondary Namenode.
- **Python TUI** is used for interactive and colourful interface for the user to launch the different nodes in hadoop cluster.
- **OS Used** - RHEL 7.2.

We wish him all the success for his future

Regards

LinuxWorld Informatics Pvt Ltd

Mr. Vimal Daga - Technical Head



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