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Ref: lw|tnd|p1| 00166

Date: 2nd AUG, 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" – Smart Hadoop Cluster - SMHACL embodies the original work of **Mr. Ravin Kumar** 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 **1st June, 2016 to 1st August, 2016.**

Gist About the Project: This project is dealing with implementation of bigdata using hadoop framework. I have provided the support of data hadoop version 1.2.1 and Version 2.6.4 The project includes implementation of Docker Technology. My product provide three way to setup hadoop Cluster-

- ➢ Automatic Configuration
- ➢ Manual Configuration
- ➢ On Demand configuration

Technologies Used:

- Hadoop cluster (Version 1)
  - Distributed Storage (Name Node, Data Node)
  - Distributed Computing (Map Reduce, Job tracker, Task Tracker)
- High Availability
  - ➢ Backup Name node
  - ➢ Secondary Name node.
  - ➢ Check Pointing
- SSH, NFS, DNS and Yum Configuration
- Frameworks (PIG, HIVE, SQOOP)
- OS Used - RHEL 7.2
- Support Error & Exception Handling, Log file Generation

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- Python TUI (Textual User Interface)
- Docker, Splunk
- Backend – Python TUI
- Project Online Url - https://github.com/mr-ravin/Smart-Hadoop-Cluster-SMHACL

We wish him all the success for his future

Regards

LinuxWorld Informatics Pvt Ltd

Mr. Vimal Daga – Technical Head