**Muralikrishna Tanneru**

**816-944-0195**

**[tmurali2418@gmail.com](mailto:tmurali2418@gmail.com)**

**PROFESSIONAL SUMMARY**

Over **7**years of IT experience in Administering, Installing, Configuring and Maintaining Linux and Hadoop clusters and over **3**years of experience working on **Hadoop eco-system.**

* Experience in configuring, installing and managing **MapR**, **Hortonworks** & **Cloudera** Distributions.
* Experience in troubleshooting, finding root causes, Debugging and automating solutions for operational issues in the production environment.
* Experienced in **Ansible** YAML Scripts as the Software Configuration Management tool for automating Hadoop infrastructure changes.
* Involved in Hadoop cluster environment administration that includes adding and removing cluster nodes, performance tuning, **cluster Monitoring**, **Troubleshooting**.
* Expertise with Hadoop, **MapReduce**, **Pig**, **Sqoop**, **Oozie** and **Hive.**
* Good Understanding of the Hadoop Distributed File System and Eco System (**MapReduce**, **Pig**, **Hive**, **Sqoop** and **HBase**)
* Experienced in analyzing Hadoop logs to troubleshoot production issues.
* Implemented **MapR** token based security for MapR clusters.
* Extensive knowledge on Hadoop HDFS architecture and **MRv1**, **MRv2** (YARN) framework.
* Experienced in Commissioning and Decommissioning the Data nodes in Hadoop Cluster.
* Monitoring, Alerting and support through **Ganglia** and **PepperData**.
* Experienced in performing POCs to test the usability of new tools on top of Hadoop.
* Good working experience on Installing and maintaining the **Linux servers**.
* Knowledge of using **RedHat** Linux environment to manage internal systems and mange updates.
* Experience as an administrator of Windows Operating Systems (**XP, Vista and Windows 7,8**) and **Mac OS X**
* Experience in setting up of Hadoop cluster in cloud services like AWS and Azure
* Hands-on experience in using windows Azure cloud computing platform.
* Worked with **HBase** and **Cassandra NoSQL** databases.
* Administering and maintaining Production, Stage, Development instances 24X7 Production Database Support and maintenance.
* Experience in Amazon **AWS**cloud services (EC2, S3)
* Experienced to schedule the jobs through **Azkaban**.
* Excellent **project management skills** and Excellent **Communication & Analytical skills**.

**TECHNICAL SKILLS**

**Hadoop Ecosystems**: HDFS, MapReduceV1, MapReduceV2 (YARN), Hive, Hue, Flume, Oozie, Zookeeper, Drill, Impala, HBase, Spark and Sqoop

**Automation Tools**: Ansible, Puppet, MCS, Ambari & Cloudera Manager

**Hadoop Security**: Kerberos, MapR security

**Cloud Environments:** AWS, Azure, Rackspace

**Languages**: C, SQL, Python, UNIX shell scripting

**Monitoring and Alerting**: Nagios, Ganglia

**Database**: MySQL

**NoSQL Database**: Hbase, Cassandra

**Operating Systems:** WinXP, Win 7 & 8, Linux (Ubuntu, CentOS, Red Hat), Mac OSX

**EXPERIENCE**

**Sovrn Holdings, Boulder, CO**

**Hadoop Admin 03/2017 to Present**

* Experienced in Administration, Installing, Upgrading and Managing distributions of Hadoop clusters with **MapR5.1**on a cluster of **100+ nodes** in different environments such as Development, Test and Production environments.
* Installed **MapR** clients and various Hadoop eco-systems using **Ansible**.
* Worked with cloud administrations like **Amazon web services (AWS).**
* Verify different scenarios in all the stages of the Data Lake after loading the data from source database into the respective tables using **Azkaban** scheduling tool
* Created workflows in **Azkaban** to automate the batch jobs
* Helped migrating and managing multiple applications from on premise to cloud using **AWS**services like **S3, EC2.**
* Experienced in storing the analyzed results into the **Cassandra** cluster.
* Explored **Qubole**Data Service platform for running AWS API, Hive Queries and Shell commands.
* Experienced in resolving the user tickets in day to day.
* Administering and maintaining Production, Stage, Development instances 24X7 Production Database Support and maintenance.
* Experience in managing the Hadoop MapR infrastructure with MCS.
* Working experience on maintaining MySQL databases creation and setting up the users and maintain the databases.

**Cisco Systems, San Jose, CA**

**Hadoop Administrator 07/2016 to 02/2017**

* Maintaining the Operations, installations, configuration of 150+ node cluster with **MapR** distribution.
* Monitoring the health of the cluster and setting up alert scripts for memory usage on the edge nodes.
* Upgradation of ecosystem tools and deploying patches.
* Wrote shell scripts to monitor the **health check** of Hadoop daemon services and respond accordingly to any warning or failure conditions.
* Monitored **disk memory**, **Heap**, **CPU** utilization on all Master and Slave and took necessary measures to keep the cluster up and running on 24/7 basis.
* **Configured Fair Scheduler** to provide service-level agreements for multiple users of a cluster.
* Implemented **MapR token based security**.
* Worked on installing cluster, **commissioning & decommissioning of data nodes**.
* Setting up **Yarn resources for user queues in fair share scheduler**.
* Installed and configured **Drill**, **Fuse** and **Impala** on **MapR-5.1**.
* Created **MapR DB tables** and involved in loading data into those tables.
* Experience in analyzing data using Hive QL, Pig Latin, HBase and custom Map Reduce programs in Java.
* Hands on experience in analyzing Log files for Hadoop and eco system services and finding root cause.
* As an admin involved in Cluster maintenance, trouble shooting, Monitoring and followed proper backup& Recovery strategies.
* Involved in collecting metrics for **Hadoop clusters using Ganglia, PepperData**.
* Manage and automate systems configuration using **Ansible**.
* Installation and configuration of **CLUSH** utility for running the commands parallel across the cluster.

**Wells Fargo, NJ 06/2015 to 06/2016**

**Hadoop Administrator**

* Experienced in Administration, Installing, Upgrading and Managing distributions of Hadoop clusters with **ClouderaCDH4u5** using **Cloudera Manager CM 4.6** on a cluster of **100**+ nodes in different environments such as Development, Test and Production environments.
* Enabled **HA** for Name node using **Cloudera Manager** to avoid single point of failure
* Regular Maintenance of Commissioned/decommission nodes as disk failures occur using **Cloudera Manager**.
* Installation of hue for **GUI** access for **hive**, **pig** and **Oozie**.
* Installed Hadoop on clustered Environments on Dev/UAT/Prod Environments.
* Designed the rack topology for the production Hadoop cluster using **CM**.
* Develop benchmarking routines by using **Teragen** and **Terasort**.
* Implemented the Hadoop **Name node** HA services to make the Hadoop services highly available.
* Installed Ganglia to monitor Hadoop daemons and Implemented the changes in configuration parameters and in parallel monitored the changes in **Ganglia**.
* By using flume collected web logs from different sources and dumped them into HDFS.
* Implemented **Oozie** work-flow for **ETL** Process.
* Exporting data from **RDBMS** to **HIVE**, **HDFS** and **HIVE**, **HDFS** to **RDBMS** by using **SQOOP**.
* Implemented shell scripts for log-Rolling day to day processes and made it automated.
* Deployed cron job for backing up the Name node metadata.
* Worked on file system management and monitoring and Capacity planning.
* Execute system disaster recovery processes.
* Work with the project and application development teams to implement new business initiatives as they relate to Hadoop.
* Expertise in managing the Hadoop infrastructure with **Cloudera Manager.**
* Working with data delivery teams to setup new Hadoop users. This job includes setting up Linux users, setting up Kerberos principals and testing HDFS, Hive, Pig and MapReduce access for the new users.
* Demonstrate and understanding of concepts, best practices and functions to implement a Big Data solution in a corporate environment.
* Configuring Kerberos and AD/LDAP for Hadoop cluster
* Responsible in creating Shell scripts and Python scripts for back up of metadata for all Hadoop components and backing up configuration xml files.
* Experience in administering the Linux systems to deploy Hadoop cluster and monitoring the cluster using **Ganglia**
* Demonstrate and understanding of concepts, best practices and functions to implement a Big Data solution in a corporate environment.
* Installed various Hadoop eco-systems using through **Ansible**.
* Experience in using Source control repositories like **GIT**.

**Symantec, CA. 01/2014 to 05/2015**

**Hadoop Admin**

* Managing Hadoop clusters **Prod, Staging, Qa and Dev**.
* Deployed 100+ nodes **Hortonworks** Hadoop Cluster **HDP 2.1** using **Ambari 1.5.1.**
* Monitoring and support through **Nagios.**
* Worked with **Hortonworks** support to resolve the issues.
* Experienced in managing and reviewing Hadoop Log files.
* Involved in Hadoop cluster environment administration that includes **De-commissioning** and **commissioning** nodes, balancing and cluster capacity planning.
* Worked on High Availability for **Name Node** using **Ambari** to avoid single point of failure.
* Build and manage development and testing environments, assisting developers in debugging application issues.
* Worked on Creating **Kafka**topics, partitions, and writing custom practitioner classes.
* Hands on experience on automation at work using **Puppet**.
* Migrated the data from production cluster to **DR** cluster.
* Integrating and **Kerberos** Hadoop cluster with **LDAP** and active directory for security.
* Configured Fair Scheduler to provide service-level agreements for multiple users of a cluster
* Benchmarking Hadoop cluster and tuning Hadoop configurations.
* Defining and documenting operational processes and monitoring and maintenance procedures
* Experience working with Hadoop Ecosystem (**Hive, Pig, Oozie, Sqoop**).
* Developing scripts for monitoring the cluster and data loading.
* Supporting users on day-to-day tickets and issues.
* Contribute to the creation and maintenance of system documentation.
* Working experience in supporting and deploying in an **AWS** environment including the following services: **EC2**, **S3and EMR.**
* Deploying **EMR** cluster for users on demand in Amazon elastic **MapReduce.**

**AEROINFLUX, INDIA 05/2012 to 12/2013**

**Linux / MySQL Administrator**

* Provided system administration services like **backup, monitoring, installation, configuration** and user permissions.
* Provided monitoring, backup and other systems related tasks.
* Installing and maintaining the **Linux servers.**
* Installed Linux using Pre-Execution environment boot and Kick-start method on multiple servers.
* Data Sharing and backup through **NFS.**
* Monitoring System Metrics and logs for any problems.
* User account management such as, adding, removing, or updating user account information, resetting passwords.
* Created volume groups, logical volumes and portions on the Linux servers and mounted file systems on the created portions.
* Provided technical support for Level I-III issues via helpdesk and the telephone.
* Installed **Cent OS** using Pre-Execution environment book and **kick-start** method on multiple servers.
* Applied Operating System updates, patches and configuration changes.
* Performed various configurations that include networking and **IP tables**, resolving hostnames, **SSH** key less login.
* Maintaining the **RDBMS** server and Authentication to required users for databases.
* Monitoring System **Metrics** and logs for any problems.
* Running **crontab** to back up data.
* Involved in Adding, removing, or updating user account information, resetting passwords etc.
* Took Backup at regular intervals and planned with a good disaster recovery plan.
* Documented and maintain server, network, and support documentation including application diagrams.

**Mylan Labs Ltd, Hyd, India 06/2010 to 04/2012**

**IT Officer**

* Installed Cent OS using Pre-Execution environment boot and Kick start automation method on multiple servers.
* Schedule backup jobs and object level recovery using maxima tool.
* Documented and maintain server, network, and support documentation including application diagrams.
* Dealing with hardware failures by working with vendors.
* Keeping systems up to date with latest stable releases of OS.
* Creating new users, resetting user passwords, Lock/Unlock user accounts.
* Monitoring System **Metrics** and logs for any problems.
* Involved in Adding, removing, or updating user account information, resetting passwords etc.
* Took Backup at regular intervals and planned with a good disaster recovery plan.
* Documented and maintain server, network, and support documentation including application diagrams.

**EDUCATION**

* Bachelor of Technology, INDIA.