Suresh Reddy

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**PROFESSIONAL SUMMARY**

* 7 years of IT experience which includes experience in **Big Data Ecosystem** and **Linux/Unix** administration.
* Experience in Installing, Configuring, Supporting and Managing of **Cloudera** and **Hortonworks**Hadoop platforms.
* Experience in Installing and Configuring components **HDFS, MapReduce, TEZ, Hive, Yarn, Sqoop, Flume, Oozie, Pig, HBase, Scala, Spark, Kafka**inHadoop ecosystem.
* Worked with **Ambari** and **Cloudera Manager** for Monitoring and Administrating the Hadoop Multi Node Cluster.
* Experience in Administrating the **Linux/Unix**systems to deploy Hadoop Clusters.
* Expertise in Monitoring multiple Hadoop Clusters environments using **Ambari Metrics** and **Grafana**.
* Configuring **NameNode, Resource Manager** and **HiveServer2**High Availability and Cluster service co-ordination using **ZooKeeper**.
* Performing **Backup**, **Disaster Recovery**, **Root Cause Analysis** for Hadoop and **Troubleshooting** Hadoop Cluster issues.
* Importing and Exporting Data between Relational Database Systems(**RDBMS**) and **HDFS** using **Sqoop.**
* Configuring **Flume** for streaming data into HDFS Eco Systems.
* Hands on experience in Configuring **Kerberos** for Authentication.
* Expert in Configuring Authorization using **Ranger** for HDFS & Hive and defining Ranger policies.
* Good knowledge in **Benchmarking**Hadoop Cluster using Hadoop benchmark techniques.
* Experience in maintaining and monitoring the **kerberized** cluster.
* Proficient in performing **Minor and Major Upgrades**, **Commissioning and Decommissioning** of data nodes on Hadoop cluster.
* Experience in integrating Hadoop Cluster components with the **LDAP, Active Directory** and enabling **SSL**for Hadoop Cluster Components.
* Experience in writing Hive queries using Hive Query Language**HiveQL.**
* Working knowledge in writing queries in**SQL.**
* Experience in monitoring the kerberized Hadoop cluster using **Grafana, Nagios, Ganglia.**
* Very good knowledge with NoSQL databases such as **HBase, MongoDB.**
* Working knowledge in installing and configuring complete Hadoop eco system on **AWS Cloud EC2** instance.
* Experience in Installation, Configuration, Backup, Recovery, Maintenance, Support of **Sun Solaris** and **Linux**.
* Working knowledge in configuring **Apache NiFi**on**kerberized** cluster.
* Experience in building **Apache Kafka** cluster and integrating with **Apache Storm** for real time data analysis.
* Working knowledge in analyzing large data sets using **Hive**, **Pig Latin**, **HBase** and Custom **MapReduce** programs in Java.
* Installing, Upgrading and Configuring Red Hat Linux using **Kickstart** Servers and **Interactive** Installation.
* Good knowledge in Configuration of Services like NFS, NIS, FTP, SSH, DNS, DHCP, LDAP, Mail Servers.
* Efficiency in installing, configuring, implementing the **LVM** and **RAID** Technologies using various tools like **Veritas Volume Manager**.
* Familiar with CI/CD tools such as Puppet, Chef, Jenkins, Ansible.
* Extensive knowledge on Hadoop Application Frameworks like **Tez** and **Spark**.
* Experience with System Integration, Capacity Planning, Performance Tuning, System Monitoring, System Security and Load Balancing.
* Excellent knowledge in **YUM** and **RPM** Package Administration for Installing, Upgrading and Checking dependencies.
* Working knowledge on **AWS** cloud and familiar with Azure cloud.
* Very good knowledge on java programming.
* Knowledge on **Sudoers** configuration and administration on both Solaris and Red hat Linux Environment.

**TECHNICAL SKILLS**

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| Hadoop Distribution | Hortonworks, Cloudera, MapR. |
| Hadoop Ecosystem | HDFS, MapReduce, YARN, Hive, Pig, Sqoop, Oozie, Flume, ZooKeeper, HBase, Spark, Hue,Apache SOLR, Kafka, Apache NiFi, Scala. |
| Configuration Management | Ambari, Cloudera Manager. |
| Security | Kerberos, Ranger. |
| Languages | Java, SQL, Shell Scripting, HTML. |
| Databases | MySQL, SQL Server, Oracle. |
| NoSQL Databases | HBase, MongoDB. |
| Monitoring Tools | Grafana, Ganglia, Nagios. |
| Package Management | RPM, YUM. |
| Networking and Protocols | NFS, HTTP, FTP, NIS , LDAP, TCP/IP, DNS. |
| Other Relevant Tools | JIRA, Pivotal Tracker. |
| Operating Systems | RHEL, Ubuntu, CentOS, Solaris, Windows. |

**WORK EXPERIENCE**

**Hadoop Administrator**

Client: Johnson Controls - WI

Feb 2015 to Present

Responsibilities:

* Installing, Configuring, Maintaining and Monitoring Hortonworks Hadoop Cluster.
* Very good knowledge on building scalable distributed data solutions using Hadoop.
* Experience in installing all the Hadoop ecosystem components through Ambari and manually through command line interface.
* Performed Major and Minor upgrades in production environment and followed standard Back up policies to make sure the high availability of cluster.
* Importing and Exporting Data between different RDBMS systems such as MySQL, Oracle, Teradata and HDFS using Sqoop.
* Changing the configuration properties of the cluster based on volume of the data being processed and performance of the cluster.
* Used Ganglia and Nagios for monitoring the Hadoop cluster around the clock.
* Proficient in Monitoring Workload, Job Performance and Capacity Planning throughAmbari.
* Experience in collecting metrics and monitoring Hadoop clusters using Grafana and Ambari Metrics.
* Commissioning and Decommissioning of Data nodes in case of DataNode failure.
* Enabled Kerberos for Hadoop cluster Authentication and integrate with Active Directory for managing users and application groups.
* Capacity and planning for Hadoop Clusters on AWS Cloud Infrastructure.
* Explored Spark, Kafka, Storm along with other open source projects to create a realtime analytics framework.
* Developed Hive scripts on Avro and parquet file formats.
* Involved in implementing multiple Map Reduce programs in Java for Data Analysis.
* Installed SOLR on the existing Hadoop cluster.
* Worked with Systems Administrating team to setup new Hadoop Cluster and expand existing Hadoop clusters.
* Responsible for Cluster Planning, Maintenance, Monitoring, Troubleshooting, Manage and review data backups.
* Setting up Identity, Authentication through Kerberos and Authorization through Ranger.
* Worked intact for integrating the LDAP server and active directory with the Ambari through command line interface.
* Involved in Developing Spark Programs for Batch and Real Time Processing to process incoming streams of data from Kafka sources and transform it into as DataFrames and load those DataFrames into Hive and HDFS.
* Installed, configured and administrated a 6 node ElasticsearchCluster.
* Adding, Deleting and setting up permissions for new users to Hadoop environment.
* Migrated data across clusters using DISTCP.
* Setting up and managing High Availability of Name node using Quorum Manager to avoid single point of failures in large clusters.
* Cluster coordination services through ZooKeeper.
* Handled importing of data from various data sources, performed transformations using Hive, MapReduce to load data into HDFS.
* Coordinated with Hortonworks support team through support portal to sort out the critical issues during upgrades.
* Involved in data analysis projects using Elastic Map Reduce on the Amazon Web Services (AWS) cloud.
* Installed Oozie workflow engine to schedule multiple MapReduce, Hive and pig jobs.
* Analyzed the data by performing Hive queries (HiveQL) to generate reports and running Pig scripts (Pig Latin) to study customer behavior.
* Experience in managing and reviewing Hadoop log files.
* Developed scripts for tracking the changes in file permissions of the files and directories through audit logs in HDFS.
* Configured Apache NiFi on the existing Hadoop cluster.
* Worked on smoke tests of each service and client upon installation and configuration.
* Involved in loading data from UNIX file system to HDFS.
* Involved in developing multiple MapReduce jobs in java for data cleaning and preprocessing.
* Balancing HDFS manually to decrease network utilization and increase job performance.
* Set up automated processes to archive/clean the unwanted data on the cluster, in particular on HDFS and Local file system.
* Debugging and troubleshooting the issues in development and Test environments.

Environment: Hortonworks, HDFS, Hive, NiFi, Pig, Sqoop, Spark,HBase, Ambari, ZooKeeper, Oozie, Grafana, Ganglia, Nagios,Shell Scripting, Linux/Unix, MySQL, Oracle, Storm,Elasticsearch,MapReduce, Kafka, Java,Yarn, SOLR, Kerberos, Ranger.

**Hadoop Administrator**

Client: All State Insurance - IL

Mar 2014 to Dec 2014

Responsibilities:

* Installing, Configuring and Maintaining Apache Hadoop and Hortonworks Hadoop clusters.
* Installing Hadoop components such as HDFS, Hive, Pig, HBase, ZooKeeper and Sqoop through Ambari.
* Wrote the shell scripts to monitor the health check of Hadoop daemon services and respond accordingly to any warning or failure conditions.
* Managing and scheduling Jobs on a Hadoop cluster.
* Worked on Providing User support and application support through remedy ticket management system on Hadoop Infrastructure.
* Involved in gathering business requirements and analysis of business use cases.
* Installed and configured Hadoop cluster in Development, Testing and Production environments.
* Performed both major and minor upgrades to the existing HDP cluster.
* Responsible for monitoring and supporting Development activities.
* Installation of various Hadoop Ecosystems and Hadoop Daemons.
* Developed scripts to delete the empty hive tables existing in the Hadoop file system.
* Understanding the existing Enterprise data warehouse set up and provided design and architecture suggestion converting to Hadoop using Map Reduce, HIVE, SQOOP and Pig Latin.
* Implemented Name Node backup using NFS. This was done for High availability.
* Worked on importing and exporting data from Oracle and DB2 into HDFS and HIVE using Sqoop.
* Wrote shell scripts for rolling day-to-day processes and it automated using crontab.
* Collected the logs data from web servers and integrated in to HDFS using Flume.
* Worked on setting up high availability for major production cluster and designed automatic failover.
* Performance tune Hadoop cluster to achieve higher performance.
* Configured Flume for efficiently collecting, aggregating and moving large amounts of log data.
* Created users and maintained user groups and ensured to provide access to the required Hadoop clients.
* Enabled Kerberos for Hadoop cluster Authentication and integrate with Active Directory for managing users and application groups.
* Used Ganglia and Nagios for monitoring the cluster around the clock.
* Developed multiple jobs to smoke test the services upon upgrades and installation.
* Developed HIVE queries and UDFs to analyze the data in HDFS.
* Performed Analyzing/Transforming data with Hive and Pig.
* Configured log4j.properties files to define the storage policy of all the service logs.

Environment: Apache Hadoop, Hortonworks Distribution, Yarn, Spark, Sqoop, Hive, Nagios, Debian, Pig, HBASE, RHEL, CentOS, Ganglia, Kerberos, Oozie, Flume, MapReduce.

**Linux Administrator**

PurpleTalk India Pvt Ltd - Hyderabad–Oct 2012 to Feb 2014

Responsibilities:

* Installing, Configuring and Administrating of RedHat Linux servers and Solaris servers.
* Performing Installation, Patching, Upgrading packages, OS through RPM and YUM server management.
* Administration of RHEL which includes installation, testing, tuning, upgrading and loading patches, troubleshooting both physical and virtual server issues.
* Installation, configuration, administration of Solaris 10 on SPARC based servers using Jumpstart.
* Managing systems routine backup, scheduling jobs like disabling and enabling cron jobs, enabling system logging, network logging of servers for maintenance, performance tuning, testing.
* Installation of Solaris 10 on Sun Fire and Enterprise server using Jumpstart, custom configuration like installing packages, configuring services.
* Troubleshooting Linux network, security related issues, capturing packets using tools such as iptables, firewall, TCP wrappers, NMAP.
* Monitored server and application performance & tuning via various stat commands (vmstat, nfsstat, iostat etc.) and tuned I/O, memory, etc.
* Experienced in Troubleshooting critical hardware and software issues and other day-to-day user trouble tickets.
* Configured and installed Linux Servers on both virtual machine and bare metal Installation.
* Creating physical volumes, volume groups, logical volumes.
* Experience on various cloud computing products such as Amazon Web Services EC2 and Microsoft Azure.
* Performed Troubleshooting NFS, NIS, Samba, DNS, DHCP, LDAP, MySQL and network problems.
* Creating and maintaining user accounts, profiles, security, rights, disk space and process monitoring.
* Maintained the user's accounts in NIS environment.
* Provided support for both physical and virtual environments.

Environment: RHEL Servers, Solaris, NFS, NIS, Samba, DNS, DHCP, LDAP, YUM, RPM, LVM’s, TCP/IP, RAID.

**Linux Administrator**

YesGnome, LLC - Hyderabad - Mar 2010 to Sep 2012

Responsibilities:

* Installation, Maintenance and Administration of Red Hat Enterprise Linux and Solaris.
* Managing and Supporting User Accounts such as Troubleshooting User's Login, Home Directory related issues, Reset Password and Unlock User Accounts.
* Performed automated installations of Operating System using kickstart for Red Hat Enterprise Linux 5/6.
* Remote Monitoring and Management of server hardware.
* Installing, Updating patches to the servers using Red Hat Satellite server.
* Involved in Server sizing and identifying, recommending optimal server hardware based on User requirements.
* Created File systems from local storage as well as NFS partitions for application portability.
* Working on Volume management, Disk Management, software RAID solutions using VERITAS Volume manager & Solaris Volume Manager.
* File system Tuning and growing using VERITAS File System (VxFS), coordinated with SAN Team for storage allocation and Disk Dynamic Multi path.
* Installing, administering Red Hat using KVM based hypervisor.
* RPM and YUM package installations, patch and other server management.
* Managing systems routine backup, scheduling jobs like disabling and enabling cron jobs, enabling system logging, network logging of servers for maintenance, performance tuning, testing.
* Installed, configured, and maintained MYSQL and Oracle 10g on Red Hat Linux.
* Configuring multipath, adding SAN and creating physical volumes, volume groups, logical volumes.
* Installing and configuring Apache and supporting them on Linux production servers.
* Troubleshooting Linux network, security related issues, capturing packets using tools such as IP tables, firewall, TCP wrappers.
* Worked on resolving production issues and documenting Root Cause Analysis and updating the tickets using Service Now.
* Monitored server and application performance & tuning via various stat commands (vmstat, nfsstat, iostat etc.) and tuned I/O, memory etc.
* Coordinated with the Storage, Network and Hardware teams on server provisions (HP Proliant DL385/585 G5, G6 servers, and HP BL 465C G5 blade centers).
* Experienced in Troubleshooting critical hardware and software issues and other day-to-day user trouble tickets.

Environment: Red Hat Linux Servers, YUM, RPM, RAID, NFS, NIS, Samba, DNS, DHCP, LDAP, YUM, RPM, LVM’s.