Asif M (EU Citizen)
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Systems Admin/ Hadoop Platform engineer

Availability: Within 2 weeks
Current rate: £475
Expected rate: Negotiable
Best Time to contact: 6-9:30 am – later 6 pm –preferably

Having overall 8 years of experience in Planning, Building, Installing , Maintaining and Administering IT Infrastructure in different verticals like Financial, Retail, Insurance, Banking, High-tech, Oil and Gas and Networking/Telecom. Having started my career as Graduate Systems Engineer with TCS, I have involved in platform design, installation, migration, virtualization of physical hardware and incident report management activities as per the agreed SLA and strictly adhering to ITIL foundation principles.

Planned, built and Monitored several Virtualized Hadoop Clusters on various Enterprise Linux Editions like Ubuntu, CentOs, RHEL and Windows Operating System. Through the end to end Administration activities, I have gained in depth knowledge of cluster parameters, node hardware configuration, network bandwidth, scalability of the cluster, Fail safe precautions, cluster administration and support skills. Planned and Built highly scalable and available clusters using open source cluster tools like Ambari or Apache and also Pre-packaged cluster solutions like Cloudera and Hortonworks.

Worked around programming languages like Python, C, Shell scripting. Hands on experience in network administration, server administration, IBM AIX administration, storage management activities. Successfully involved in various infrastructure development activities like Managing user groups, Maintaining, enhancing and developing server systems, network and related infrastructure to the customers.

Successfully Configured highly available clustered web servers, ftp servers and svn servers ,Involved in Infrastructure automation using puppet and chef like version upgrades ,software deployment across the developer groups, back up management, Desktop support, Patch and Security management, Dev Change Management (git,svn).

Worked on infrastructure as code implementations using puppet, ansible , salt and chef .
Worked on building deployment pipelines in CI/CD mode on both private and public clouds.

Technical Skills Summary:

Type of Skill	List
Operating Systems	RHEL 5,6,7, AIX, Ubuntu, UNIX, Microsoft Windows, CentOs, Solaris.
Servers	DHCP, ftp, svn, LDAP
BI Tools	Hadoop Analytics Platform, SSIS, Google Analytics platform.
Server Vendors	DELL, HP, IBM, Cisco, Lenovo
Virtualization tools	KVM, VirtualBox, VMWare
Data Warehousing	pl/sql, sql, t-sql, Hive, Pig, Impala, HBase.
Scripting Languages	Shell, perl, python, bash
Web/Application Servers	Apache Tomcat, JBoss, Weblogic, Glass Fish.
Sys Admin skills	EOD, Veritas, Jumpstart, NFS
Version control tools	git-hub, SVN, sftp etc
Performance Tuning	Jmeter, Dr.elephant
Mail Servers	Postfix, Squirrel
Cluster Configuration Tools	Apache, Map R, Cloudera (CDH -5.0), Hortonwork's, Ambari.
Server Monitoring tools	Nagios, Munin, Ganglia
Networking tools	Cisco routers and switches, Cisco IOS, TCP/IP4&IP6 Networking, VPN, HTTP, SSH

Networking/Management	Setting up Internal lan/Desktop Support, Building Hadoop Cluster, Spark Clustering framework, Application Build and Management.
Bandwidth monitoring tools	Bandwidthd, bwm, bmon
Networking protocols	TCP/IP, UDP, POP, SMTP, HTTP
Cloud configuration tools	Openstack, opennebula, and exposure to Microsoft Azure and AWS.
Software config. Management tools / Integration tools	Puppet, Ansible, Apache Jenkins

PROJECT # 1:

Syntel Technologies
From: July 2017 – Presently working
Role: Bigdata/Devops Admin

Roles and Responsibilities:

- Automated the Build & Deployment environment end -to- end using Jenkins.
- Analyse and resolve conflicts related to merging of source code for SVN and Git.
- Responsible for the Plugin Management, User Management, Build/Deploy Pipeline Setup and End-End Job Setup of all the projects
- Hadoop Cluster capacity planning, performance tuning, cluster Monitoring, Troubleshooting and followed with backup and recovery strategy.
- Hands on experience in analyzing Log files for Hadoop and eco system services and finding root cause and publishing the alert metrics.
- Implemented enterprise level security using AD/LDAP, Kerberos and Ranger.
- Successfully Commissioned, Decommissioned, Balanced, and Managed Nodes and tuning server for optimal performance of the cluster and also documenting the commissioning and decommissioning activities.
- Installed/Configured/Managed Jenkins CI Automation.
- Jenkins is used as a continuous integration tool for automation of daily process.
- Installed Jenkins, Maven and created CI and CD jobs in the AWS cloud using EC2

instances.
- Performance metrics are monitored using the Cloud watch and created alarms using SNS services in AWS.
- Used Auto Scaling and Elastic Load Balancing methodologies to achieve fault tolerant, highly available and cost effective setup.
- Data is secured using Security groups at various levels in the AWS environment.
- Involved in periodic archiving and storage of the source code for disaster recovery
- Configured and Managed Zookeeper and ZKFC for NameNode failure scenarios.
- Importing and exporting the data using Sqoop from HDFS to Relational Database systems/mainframe and vice-versa.
- Involved in Setup of streaming analytics with Kafka, Flume and Spark.
- Developing the automation script to pull the log data.
- Using Metadata controlled approach for dynamically extracting data from database server into hdfs.

PROJECT # 2:

Wipro Technologies
Client: HSBC, UK
From: Nov 2016 – June 2017
Role: Big-Data Admin/Platform Engineer

Project description:

HSBC initiated the development of risk analysis and fraud monitoring solutions on hadoop infrastructure, the project is to develop the Hortonworks hadoop infrastructure, deploying various data ingestion tools, reporting and performance monitoring frameworks .The project is also include to support various use cases of fraud and analytics platform.

Responsibilities:

- Hortonwork's Hadoop Cluster capacity planning, performance tuning, cluster Monitoring, Troubleshooting and followed with backup and recovery strategy.
- Managing end to end platform deployment activities and responsible for tooling documentation.
- Successfully Commissioned, Decommissioned, Balanced, and Managed Nodes and tuning server for optimal performance of the cluster and also documenting the commissioning and decommissioning activities.

- Documented various OS level and platform level performance improvement activities.
- Deployed and configured Grafana for monitoring purposes and integrated with ambari metrics.
- Designed and configured various performance monitoring dashboards of hadoop eco system services on Grafana .
- Checked for various tooling documentation for NFRs and compliance.
- Upgraded Attunity in UAT environments and performing replicate tasks.
- Implemented automation script using python for bulk data import by updating the task files and also for bulk transformation of columns in attunity.
- Created and updated various documentation information on Confluence.

PROJECT # 3:

SiliconIntegraLimited
From: Aug 2015 – Oct 2016
Role: Systems engineer/System Administrator
Project Description:

Capital One is financial organization which provides various financial services like credit cards, home loans, auto loans, and banking and savings products to the customers. The project is intended to develop a data platform infrastructure on RHEL servers and creating various user groups with constrained access, incident management and version upgrades. Project also involved version control & workspace management, SCM support of source code.

Roles & Responsibilities:

- Responsible for planning and installing RHEL on physical servers with virtualization.
- Developed work station machine for project teams and other users.
- Responsible for backups using Legato Net-worker.
- Responsible for configuring and installing DELLR610/R620, DRAC cards and assigning VLAN ports.
- Administered the VOB and view registries and regions. Developed and executed backup scripts for VOB and view registries.
- Provided online support to offshore developers on ClearCase/ClearQuest tools in a Multisite environment and solved issues related to branches/merging operations.
- Supported users on joining the project, creating development streams, rebasing the

work and delivering the Activity.

- Performed all necessary day-to-day ClearCase support for all in-house projects.
- Defined ClearCase metadata including labels, attributes, elements, hyperlinks and triggers to implement policies and procedures.
- Export,Import of source code for every new VOB created using clearfsimport,clearexport and clearimport.
- Helped developers create configuration specifications for the views they use whenever a new baseline work is initiated and for the views used for bug fixes on the bug fix branch.
- Supported and configured using Kickstart Linux RHEL6, RHEL7 on DELL workstations/servers.
- Managed user accounts, troubleshoot problems for both design /layout install third party tools, setup EOD, No Machine.
- Set up the following servers print, DNS, NIS, NFS, LSF and Bugzilla.
- Set up ftp servers, svn servers and continuous integration with git. Supported continuous build and management.
- Configuring and managing the user groups with constrained access to highly available cluster with distributed roles and concurrent restricted access.
- Provisioning and managing the cluster. Monitoring the alerts and publishing the metrics.
- Developed shell script for process automation and wrote cron tab jobs.
- Implemented in house mail servers like postfix and squirrel.
- Supported on call on issues in the production and administration support to the high degree of SLA.
- Installed and configured various development stack and involved in upgrade activities.
- Monitored the server logs and managed zero downtime upgrade on Hadoop cluster.
- Supported in version controlling, continuous build and management activities.
- Over see the network administration for all corporate information systems including support, trouble shooting, maintenance and upgrades.

PROJECT # 4:
Client: Citi Group, UK.
From: Jan 2015 to July 2015.
Environment: Linux (CentOs6.5), Windows

Role: Systems engineer/System Administrator

Project Description:
Citi bank group provides various applications for the customers to support various registration tasks and account related self help portals. The project is aimed to develop virtualized environment to accommodate data platform for the operational groups supported by RHEL servers developed on physical RACS or Workstations.

Roles & Responsibilities:

- Responsible for developing network of various workstations and file servers.
- Responsible for a mixed topology network consisting of FDDI ring/star topology network.
- Setup and managed user system accounts on RHEL servers.
- Responsible for software installation and version upgrades.
- Developed PERL/Shell scripts to monitor licenses, gather network data, restart Licenses, and Install patches.
- Responsible for system backups and administration.
- Analyzing the network bandwidth requirements, size and volume of the cluster.
- Plan the design and Implementation of the Hadoop cluster and critical appreciation of open source tools or pre packaged solutions for cluster configuration.
- Configuring each individual node for Hadoop environment deployment and installation of Hadoop eco system on each workstation, setting up Kerberos principles and testing Hadoop eco system for new users.
- Monitoring, managing, commissioning and decommissioning of various nodes and analyzing scalability problems.
- Maintaining groups for the Teams and allocating constrained and authenticated access to the Hadoop Infrastructure.
- Continuously monitoring server health status and security by checking edit logs.
- Collaborating with application teams to install operating system and hadoop updates, patches, version upgrades when required.
- Diligently teaming with the infrastructure, network, database, application and business intelligence teams to guarantee high data quality and availability.
- Providing on call support for any issues.
- Configured users work space environment with developer tools on call basis.
- Configured highly available web servers using clustered weblogic servers and domains.
- Configured DHCP servers for internal network management.
- Configured static IP's for static internal routing of the services.

Client: Nortech Solutions Group, UK.
From: May 2014 to Jan 2015
Environment: Linux (CentOs6.5), Windows
Role: Systems engineer/System Administrator

Project Description:

Nortech solutions group is concept engineering industry in the field of oil and gas .It Provides design engineering solutions and carries out basic design of entire oil and gas rigs platform. The project is support and provide infrastructure to accommodate highly available web service.

Roles & Responsibilities:

- Developed holistic solutions by analyzing client needs and employing critical thinking in the development of specifications and the evolution of design, implementation and test.
- Planning, configuring and installing dev environment using virtualization tools on physical servers.
- Designed systems utilizing Centos6.7, Red Hat Enterprise Linux 6 and AIX 5L.
- Significantly increased storage space; analyzed and matched workloads to a cost effective solution.
- Created shell scripts and cron jobs that monitored and reported security issues
- Resolved security vulnerabilities by analyzing and recommending improvements in communications and network security at the component level.
- Ensured business continuity by designing, implementing and testing disaster recovery systems.
- Managed, monitored and tested individual and group user access privileges and security.
- Created checklists and collected audit data for compliance with SOX and PCI certifications.
- Developed, implemented and verified security policy and access management compliance.
- Monitored system performance and prevented resource exhaustion using ssh, sar, vmstat, iostat, netstat and nmon.
- Resolved trouble tickets quickly and efficiently, dropping backlogged tickets from 1,000+ to under 100.

- Wrote custom scripts and automated tasks to free up research and project time.

- Eliminated extended downtime of network and processes by installing and configuring Nagios server to monitor Windows/Linux servers.

- Raised the level of expansion and research by automating tasks freeing up time for research and testing

- Installed and configured database servers and created database users with restricted permissions.

- Worked on version upgrades and database backup and roll back activities.

- Writing the automation script to automate deployment activities.

- Monitored web servers to ensure zero downtime and managed load balancing.

PROJECT # 6: Customized Hadoop Analytics Platform

Client: Nextgen Solutions, UK.
From: Aug 2013 to Jan 2014
Role: Systems engineer/System Administrator
Project Description:

Nextgen solutions group at UK is a part of the TCS organization (horizontal) to deliver digital media solutions to the clients which is newly established. This project was planned to customize the client specific requirements that deals with the analytics of the data taken from Log Servers ,Transaction logs, Social Media and different Blogs. The analysis shows benefits for business development for the customer based on the end user responses in the social media sites and application access logs. Extracted data from different sources like face book, twitter and logs is stored into HDFS for performing Opinion/Sentiment analysis using text mining algorithms to find out the sentiment/emotions & opinion of the company/product in the social circle.

Based on these analytics the customer can take business decisions on the Opinion/sentiment of the end users for the business improvement.

Roles & Responsibilities:

- Provisioned new servers, imaging, and daily monitoring and maintenance of over 50 servers.

- Performed back up, file replications and script management for the servers.

- Tested and applied new software and programs.

- Planed and expanded current service offerings.

- Quickly resolved all IP network issues.

- Provided customer support via telephone, e-mail, knowledge base program and other tools.

- Jumpstart, configured, updated Solaris servers with Solaris 8, 9, and 10.

- Installed, configured, and updated Linux machines, with Red Hat, Debian, and CentOS.

- Troubleshoot, analyze and resolve computer problems related to both hardware and software.

- Deploy new equipment and install applications, which enable the customer to perform their job function on updated equipment which leads to higher work output.

- Researched and consulted with customer on new hardware purchases to insure that the proper equipment was purchased which provided high productivity within their budget.

PROJECT # 7: Network Data Management System
Client: Tata Telecom
From: Mar 2012 to August 2013
Environment: Windows, CentOs6.5
Role: Systems engineer/System Administrator
Project Description:

Calls logs are generated and stored in CDR (Call data recorder). With the subscriber base being huge the CDRs generated are huge in size and volumes. These CDRs are processed and stored in an OLAP system for further analysis. As the data is growing in size the OLAP system is also growing in the same manner and due to this the analysis of the data is getting delayed. To address this big data tools are used to fasten the analysis. The data is extracted from the OLAP system using pentaho and stored in HDFS. The HDFS stored data is processed using Pentaho and loaded into Hive. The reports are generated as per the requirement using Pentaho reports capability.

Roles & Responsibilities:

- Implemented a solid backup and recovery procedure which minimized data loss.
- Improved company website user experience by designing and engineering webservers using Apache, MySQL database with instant replication for global sites, implementing WordPress, phpMyAdmin, interface, PHP, running on Centos 6.5.
- Configured secure http, for SVN source control, and back-end communication

with Progress Database.

- Planned and configured high availability NFS servers using Keepalived for auto-failover running on RedHat 5.6.
- Deployed and maintained Samba servers authentication using Ldap, and Active Directory for different departments.
- Installed and configured Linux servers hosting Oracle 11g on Redhat 6x for use by Human Resources.
- Supported SAN, NAS, Fiber Channel, LUNS, LVM, like EMC ClariiON CX3_20C using Navisphere Management Console, NetAPP and Qlogic.
- Participated in compiling and deploying several business cases, such as business continuity and global high availability.
- Built multiple server systems and installed into racks.
- Completed remote repairs involving software solutions and hardware repairs.
- Allocated SAN drives to systems.
- Maintained System patch levels and system security via OPSWARE.
- Performed VCS cluster failover and managed the single server VCS cluster.
- Provided technical leadership for the team to build and configure new DNS server and setup static routes for internal and external internet facing IP addresses on the DNS server.
- Built and installed PXE boot server, DHCP server, Kickstart and XCAT server to automatically load OS on test machines in the LAB environment.
- Maintained Kickstart server, used Advanced Linux System Administration, and authored K-shell scripts.

PROJECT # 8:
Client: Motorola Mobility Solutions Group
From: May 2009 to till March 2012
Role: Systems Engineer/System Administrator

Roles & Responsibilities:

- Develop standards for installation and configuration.
- Orchestrated and performed upgrade of Linux servers from 32-bit RHEL4 to 64-bit Centos5.
- Defined timing and versions for software and hardware upgrades.
- Initiated, designed, and implemented complete system configuration framework and change.
- Architected and implemented virtualization solution.
- Implemented central system log server with appropriate log file analysis.
- Lead project to implement a better solution for alerting and trending of systems and services.
- Managed the build environment and the IBM Clearcase source code control

system. Implemented automated solutions with PERL and CMD scripts to prevent and identify build issues.

- Created Solaris Jumpstart and Linux Kickstart servers and processes to automate and standardize the installation process, reducing installation time by 35% and post-installation errors by 50%.
- Developed and maintained the Inventory and Service History System using Microsoft Access and ASP for real-time asset management. Reduced the asset administration effort by 65%.
- Researched, evaluated and implemented new technology solutions, such as the migration from IBM Clearcase to Subversion. Reduced maintenance cost while achieving equal level of service.
- Documented and implemented a disaster recovery plan that included backup schedule policies, regular testing, and off-site recovery plans to ensure data integrity and assurance.

EDUCATION:

Bachelor of Technology (ECE) from Pondicherry University, Pondicherry, India.
M.Sc in Information and Network Security, UK.

CERTIFICATIONS:
Cloudera Certified Hadoop Admin (CCA).
MongoDB certification for Sys Admin.
TCS internal certification for Network & Security.
TCS internal certification for Sys Admin.
TCS internal domain certifications for banking, telecom, and Enterprise resource planning.
Completed several domain based certifications.

REFERENCES
Available upon request