**D N SAI NATHIREDDY**

Current location:

Relocation: Yes  
Availability: Immediate  
Visa Status: EAD  
Comm. Skills: 10/10

**Professional Summary:**

* Over 7 years of experience as a Linux Administrator, AWS and DevOps Engineer.
* Familiar with **EC2**, **Cloud watch**, **Elastic IP’s** and managing **security groups** on **AWS**.
* Managed Linux and Windows virtual servers on **AWS EC2** using **Chef** Server. Configured and monitored distributed and multi-platform servers using chef. Excellent at defining Chef Server and workstation to manage and configure nodes. Developed Chef Cookbooks to manage systems configuration. Also have good knowledge about Puppet and Ansible configuration management.
* Production experience in large environments using configuration management tools **Chef** and **Puppet** and **Salt Stack**. Familiar with build server orchestration using mCollective. Experience in finding the Memory Leaks and adjusting the JVM Heap Sizes and GC Parameters.
* Hands on experience with build tools like **Bamboo**, **Hudson/Jenkins**, **TeamCity**, **Anthill Pro**, **Sonar**, **uBuild**, **Maven**, **ANT** and **NANT**.
* Experience working **Data Center**’s managing Servers, **SAN** and **NAS** devices like HP, Cisco, Brocade, EMC and HDS devices.
* Good experience and understanding of SAN (SAN arrays; HITACHI, EMC) technology including zoning, disk creation on various systems, maintaining and configuring various fiber switches and storages, Shell scripting (ksh, bash) to automate system administrative jobs.
* Experience in Administration of Oracle WebLogic Application Server 9.2/10.x/11g, iPlanet/ SunOne Web Servers, Apache web Servers and Microsoft IIS Web Servers in complete project cycle implementations with 24x7 support.
* Installed, configured and administered Web Servers like Apache 2.x HTTP Server, Apache Tomcat
* 6. X, Sun One 6.x Web Server and Microsoft IIS Server for WebLogic plug-ins.
* Experience in automating, configuring and deploying instances on **AWS**, **Azure** and **Rackspace cloud environments** and **Data centers**.
* Experienced in branching, tagging and maintaining the version across the environments using **SCM** tools like **GIT**, **Subversion** (SVN) and **TFS on Linux** and **windows** platforms.
* Extensively experienced in using Build Automation tools like **ANT**, **Maven**, **Gradle** and working knowledge on other build tools like make file.
* Responsible in managing all aspects of the software configuration management process including code compilation, packaging, deployment, release methodology and application configurations.
* Experience with **Bug tracking** tool like **JIRA.**
* Created and wrote **shell scripts** (Bash), **Ruby**, **Python** and **PowerShell** for automating tasks.
* Administered tasks like taking backups, expanding file system disk space, creating NFS mounts.
* Established capabilities in application design, implementation, troubleshooting, monitoring, continuous improvement and change controls. Enhances and automates internal processes to generate efficiency.
* Designed and Implemented a SOA based search application using Top down development of WebServices, **Cassandra**/**Hector** and ANT.
* Worked with Bigdata team to Design and implement NoSQL **Cassandra**Keystores and column families. Created various web applications for administering the extract of journals and books and storing it in Amazon’s S3 storage.
* Utilized Java 7.0, Oracle and MySQL DBMS, Amazon Elastic Cloud, Amazon’s **Elastic Map Reduce**, DataStax Solr and **DataStax Cassandra**.
* Stood up Cassandra clusters in the Amazon Web Services Cloud and migrated data between environments.
* Part of the Data Analytics and Adaptive Learning Team working with Cassandra clusters to generate reports through Spark for Neo4J graph database and machine learning applications.
* Worked actively in Designing and developing a high-performance cloud-based eDiscovery system with a choice of NoSQL database (HBase, Cassandra, S3, or Couch DB).
* Worked Managing lifecycle of MongoDB database including database sizing, deployment automation, and monitoring.
* Experience in and demonstrated understanding of **source control management** concepts such as Branching, Merging, Labeling/Tagging and Integration.
* Experience in managing Linux server farms.
* Providing CM and Build support for different applications built and deployed to lower and higher environments. Defined and Implemented CM and Release Management Processes, Policies and Procedure
* **Configuring Replication** (Merge, Transactional & Snapshot) to replicate data to regional and remote servers and troubleshooting Replication issues.
* Coordinated different teams across the globe to deploy different builds to different environments on parallel development for multiple projects.
* Full understanding of **SDLC, RUP, Agile Methodologies** and process.
* Well versed with various services like **FTP**, **SFTP**, **Send mail**, **Mailx**, **DHCP**, **and NFS**.
* Excellent communications skills, configuration skills and technical documentation skills.

**Technical Skills:**

|  |  |
| --- | --- |
| Devops Tools | Chef, Puppet, Docker, ANSYS, Jenkins |
| Operating Systems | Sun Solaris 11, 10, 9, 8, 7, Red Hat Linux 3.x, 4.x, 5.x, 6.x, SUSE 10/11/12, Ubuntu, OEL, CentOS, Windows NT/2003/XP/2000. |
| Hardware | Cisco UCS C200, C250, Sun Fire 6800/4810/4800, Sun-Enterprise 100,Sun Fire F15K, Sun Fire 25K, T2000, M5000, Ultra Enterprise 6000/5000, SPARC sun4c/sun4u, Dell Blade Servers, HP Blade Servers, Sonic & Cisco pix firewall |
| Network Protocols | SMTP, SNMP, ICMP, TCP/IP, FTP, TELNET, UDP, and RIP, iSCSI, Fibre Channel. |
| Software and Tools | VERITAS Volume Manager 3.x/4.x,WinSCP, FTP, SSL, VERITAS Cluster Services, Cisco CNR, Send mail. |
| Backup Management | VERITAS Netback up 4.x/5.x/6.x, Solstice Disk Suite, tar, dd, cpio |
| Tape Hardware | Storage tape libraries L40, L80, L180, L700, SL500, SL8500, DAT & DLT, STK 9940B, 9840B, LTOs. |
| Web/Application Servers | Tomcat, Apache, Web logic, WebSphere iplanet Sun One. |
| Database | Oracle, DB2, Sybase |
| Languages | C, HTML, Shell Scripting, Python, Ruby |
| Cloud Platforms | AWS, Microsoft Azure and Rackspace, Openstack, Cloud Foundry. |

**Education:**

B.S in Electronics & Communications, KL University, India.

**DevOps Engineer November 2013 – present**

**Responsibilities:**

* Assign Roles, manage Users and groups and assign policies using AWS Identity and Access Management (IAM).
* Good understanding of ELB, security groups, Network Access control lists (NACL) NAT Instance and Route 53.
* Configure Amazon VPC environment and Networking within a VPC.
* Architect, implement and support EC2, S3, Auto scaling, CloudFront, CloudWatch as needed.
* Experience with CloudTrail, Glacier, versioning and life cycle policy of object.
* Use RDS, Mysql and DynamoDB to perform basic database administration.
* Manage virtual cloud Resources as required with and overall objective of improving scalability, performance, reliability and highly available fault tolerant cloud infrastructure.
* Utilize AWS CLI to create and access Resources.
* Assist project team with capacity planning, continuous integration and application deployment using Jenkins and Subversion (SVN) for version control.
* Utilize puppet for configuration management of hosted instances within AWS.
* Support the administration in in agile software development, testing and production in cloud hosted environment.
* Utilized CloudWatch to monitor resources such as EC2, CPU memory, Amazon RDS DB services, DynamoDB tables, EBS volumes; to set alarms for notification or automated actions; and to monitor logs for a better understanding and operation of the system.
* Document system configurations, Instance, OS, and AMI build practices, backup procedures, troubleshooting guides, and keep infrastructure and architecture drawings current with changes.
* Utilize Amazon Glacier for archiving data.
* Used Chef to configure and manage infrastructure. Written cookbooks to automate the configuration setups.
* Installation of Oracle on Linux and Solaris, creating database, creating Oracle users etc.
* Worked on User administration setup, maintaining account, Monitor system performance using Nagios and Tivoli.
* Involved in installing Puppet client on Red hat & Solaris servers for Automation purpose.
* Monitoring day-to-day administration and maintenance operations of the company network and systems working on Linux and Solaris Systems.
* Involved in developing custom scripts using Python, Perl & Shell (bash, ksh) to automate jobs.
* Merged the generated reports as per request. Formatted data into required format using UNIX Shell Scripts, SED and Awk.
* Defined and Developed plan for Problem & Incident management Process based on ITIL.
* Networking protocols such as TCP/IP, Telnet, FTP, NDM, SSH, rlogin.

**Linux Administrator September 2011 – October 2013**

**Virtusa, Hyderabad, India**

**Responsibilities:**

* Responsible for installing and configuration of RHEL, CentOS, and SuSe.
* Implemented day-to-day tasks in RHEL including user access, setting up sudo rules upgrading.
* Installed and configured RAID 0, RAID 1 and RAID 5.
* Kernel, firmware, and rpms as well as adding SAN disks.
* Data Centers support contains 700 + servers.
* Configure IBM RS/6000 for production, staging and test environments.
* Worked with installation and configuration of VMware ESX servers.
* Installation and Configuration of SSH, TELNET, FTP, DHCP, DNS.
* Installation and configuration of NFS, NIS, TCP/IP and ZFS.
* Monitoring and troubleshooting issues of operating systems.
* Trouble shoot network issues using 'ndd', 'traceroute', 'netstat', 'ifconfig' and 'snoop' etc.
* Local and Remote administering of servers, routers and networks using Telnet and SSH.
* Installation and configuration of Web Sphere, Apache, Web Logic, LDAP, and mail servers.
* Use of packages like SAMBA in integrating UNIX file systems.
* Setting up printers on UNIX / NT machines to work seamlessly across platforms.
* Interacting with various teams such as Database, Net-backup and SAN teams.
* Worked with Veritas Netbackup for enterprise wide backup and recovery.
* Installation and configuration of Volume Manager, Cluster Servers.
* Document process and procedures for system and database usage.
* Creation and management of user accounts and groups according to the security needs and adding the Packages and patches when needed.
* Helped Development team to provide the information and troubleshooting.
* Network & Firewall troubleshooting.
* Documenting processes and troubleshooting scenarios on runbooks.
* Provided support for large number Production, Development and Test systems.
* Providing 24\*7 on-call support on rotation basis and Handling High priority incidents through bridge calls.

**Miracle Software Systems (I) Pvt. Ltd, Vizag, India. June 2009 – September 2011**

**Role: UNIX System Administrator**

**Responsibilities:**

* Installed, configured and maintained AIX 4.3 on RS/6000 R40 and J50 servers.
* Planed, designed, and managed the deployment of highly available IT infrastructure and associated support services, including Linux servers, storage, and infrastructure services (i.e. authentication, authorization, DNS, NTP, etc.).
* Responsible for planning and implementing upgrades of UNIX servers.
* Partitioning and maintenance of Disk Slices.
* Responsible for day-to-day support
* Developed shell script for monitoring application processes.
* Responsible Monitoring systems and capacity planning.
* Installation and Configuration of VERITAS Volume Manager and Logical Volume Manager (LVM) for Volume Management which includes creating New Volumes, Increasing the size of existing volumes
* Registering new printers to the hub DNS, Registering the printers in various application environments, Modifying printer settings as per the documents to be printed, performed troubleshooting of various printer problems and granted access to printers for the end users.
* Developed shell scripts for monitoring file system growth, paging and disk I/O activity.
* Maintained records for hardware, status of backup and also documented procedures
* Identifying, troubleshooting and resolving system performance issues.
* Building automation into daily processes, including server building, patching, and configuration analysis.
* Supporting mission-critical trading applications in a fast-paced environment.
* Maintaining team documentation, policies, procedures, and standards.