**Varun Kumar**

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**Phone: 571-295-5753 DevOps Engineer**

**Summary:**

* Over 7+ years of experience in system administration working on RedHat Linux, Debian Linux, Amazon Linux and windows environments.
* Experience in creating the company's **DevOps** strategy in a mix environment of Linux **(RHEL, Ubuntu)** servers along with creating and implementing a cloud strategy based on **Amazon Web Services.**
* Experience configuring and updating the servers using **configuration management** tools like **Chef, Puppet and Ansible**
* Virtualized the servers on AWS using the **Docker**, created the Docker files and version controlled them.
* Developed complex **build, test, provision, secure and deployment** systems and providing support to a large community of developers and testers
* Conducted the Devops Process Planning.
* Automating Deployment of Servers on **VMWare ESXI and Cloud**
* Managed servers on the **Amazon Web Servicies (AWS)** platform instances using Puppet, chef configuration management
* Created and maintained various DevOps related tools for the team such as provisioning scripts, deployment tools, and development and staging environments on **AWS and Cloud.**
* Provisioned and deployed the AWS resources using the Puppet and OpsWorks.
* Experience configuring puppet, chef and ansible on various servers.
* Experience in configuring the **Continuous Integration** tools like **Jenkins, Bamboo and Hudson**.
* Version control and source code management using the **GitHub**, **SVN** and **TFS**.
* Strong understanding of Java Project structure.
* Automation of build process(**Build Automation**) using the Jenkins, Bamboo, Maven and Git.
* Participated in various application life cycle development steps from development, QA to production.
* Integration of **Sonar** and **Selenium** with Jenkins to automate the testing of java applications and provided the Acceptance test driven development(**ATDD**).
* Configured the servers with the **Nagios** monitoring and monitored the performance metrics of the production servers.
* Experienced in Installing, Upgrading, Patching, Configuring and Administrating Red Hat Linux
* Strong skills in managing Red Hat Linux servers,Virtualization**,** and system security.
* Supported installation of Oracle database (RAC) on Linux servers associated with DBAs.
* Experience with **Apache/Tomcat, Load Balancer (Apache, Nginx, HAproxy)** and expertise in making configuration changes.
* Knowledge in load balancing and setting up load balancer and firewall rules in and enterprise environment
* Provided 24x7 production support and development environments. Ability to communicate requirements effectively to team members and manage applications.
* Self-motivated and I can easily adapt new technologies and tools.
* Ability to work in both independent and Team environments

**Education:**

Bachelor of Engineering in Technology

**Technical Skills:**

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| **Configuration Management Tools** | Chef, Puppet and Ansible |
| **Continuous Integration Tools** | Jenkins, Hudson, Bamboo |
| **Operating Systems** | CentOS 5/6/7 and Ubuntu |
| **Databases** | MySql, MariaDB, MongoDB |
| **Build Tools** | Ant, Maven |
| **Cloud Services** | AWS, RackSpace |
| **Version Control/Repository** | GitHub, SVN and TFS |
| **Application Servers** | Tomcat, JBOSS, WebLogic |
| **Web Servers** | Nginx, Apache |
| **Scripting Languages** | Bash, Python, Ruby |
| **Virtualization** | VMware, Docker, vagrant |
| **Command Line Editors** | Vim, Vi, Nano, |
| **Test Tools** | Sonar, Selenium |
| **Web Technologies** | HTML, XML |
| **Monitoring Tools** | Nagios, New Relic, cloudwatch |

**Professional Experience:**

**Schneider Electric, Omaha,NE** **October 2013- Jan’16**

**Devops/AWS Engineer**

**Key Responsibilities:**

* Defined and Implemented **CM** and **Release Management** Processes, Policies and Procedures.
* Deploy and monitor scalable infrastructure on Amazon web services (**AWS**) & configuration management using **puppet**.
* Written Simple **Ansible** YAML scripts to configure the servers.
* Written Ansible YAML scripts that can store the credentials for various sandboxes and secured them on the remote servers.
* Configuring the **Docker** containers and creating docker files for different environments.
* Designed **Puppet Modules** to manage configurations and automate installation process.
* Coordinate/assist developers with establishing and applying appropriate branching, merging conventions using **GIT** source control.
* Configured and maintained **Jenkins** to implement the **CI** process and integrated the tool with **Ant** and **Maven** to schedule the builds and automated the deployment on the application servers using the “code deploy” plugin for jenkins.
* **Continuous Delivery** is being enabled through **Deployment** into several environments of Test, QA, Stress and Production using **Jenkins**.
* Maintained build related scripts developed in **ANT** and **Shell**. Modified build configuration files including Ant's build.xml.
* Analyzed the builds using the **sonarQube** and automated the test using the **selenium.**
* Automate the builds and deployment of **JAVA projects** using ANT and Jenkins.
* Implement, maintain and support reliable, timely and reproducible builds for project teams
* Configured the **LAMP** stack with Python.
* Hands on experience in automating builds and deployment process using Shell scripting.
* Created the VPC’s, configured the subnets, attached the gateway and routing tables to the subnets and deployed the EC2 instances in the subnets created.
* Hands on experience in EC2, VPC, Subnets, Routing tables, Internet gateways, IAM, Route 53, VPC peering, S3, ELB, RDS(MySQL), Security Groups, Cloud Watch, SNS on **AWS**.
* Configured **boto-SDK** and written python scripts to automate the backup and snapshot of EC2 instances and storing those snapshots on S3 buckets.
* Creating the Read Replicas for the RDS databases in the different region expecting the disaster.
* Managed and monitored the server and network infrastructure using **Nagios**.
* Work with development/testing, deployment, systems/infrastructure and project teams to ensure continuous operation of build and test systems.
* Provided end-user training for all GITHub users to effectively use the tool.
* Interact with developers and Enterprise Configuration Management Team for changes to best practices and tools to eliminate non-efficient practices and bottlenecks.
* Created and maintained user accounts, roles on MySQL, production and staging servers.

**Environment**: CI/CD, AWS, Python, Jira, Jenkins, LAMP, Puppet, Docker, Ruby, Apache, Nginx, MySQL, Ant, SVN, Nagios, SonarQube, Selenium.

**United Airlines, Huston, TX March 2010–September 2013**

**Devops Engineer**

**Key Responsibilities:**

* Automate infrastructure in **AWS** using amazon web services. Deploy puppet to completely provision and manage **AWS EC2** instances, volumes, DNS, and S3.
* Deployed Puppet, Puppet Dashboard and PuppetDB for configuration management to existing infrastructure.
* Automated the tasks using **Chef .**
* Configuration Automation using Puppet and Docker Containers.
* Launching and configuring of **Amazon EC2(AWS) Cloud Servers** using AMI's (Linux/Ubuntu) and configuring the servers for specified applications.
* Created continuous integration system using SVN, Ant, Jenkins, chef, Puppet full automation
* Integrated Build Process through **Jenkins and Bamboo** to various SCM tools like **GitHub, SVN**.
* Perform daily system monitoring, verifying the integrity and availability of all hardware, server resources, systems and key processes, reviewing system and application logs, and verifying completion of scheduled jobs such as backups.
* Built application and database servers using AWS EC2 and create AMIs as well as use RDS for **Oracle DB**.
* Written python and shell scripts for automating logs backup and archiving.
* Logs file analysis (troubleshooting) to resolve issues using python and ruby scripts.
* Manage VMware Infrastructure clusters on Production Test/Development environments.
* Experience working with **VMWare** tools like vCenter&vSphere to manage VM's running on **ESX** cluster nodes and also experience working vMotion.
* Provide responsive off-hours support in a 24/7 environment and ensure maximum availability of all servers and applications.

**Environment**: VMware, AWS, Jenkins, Bamboo, New Relic, Python, Apache, Nginx, TFS, SVN, Puppet, Chef, Ruby, Oracle DB, Sonar, Java

**Kantar Operations, Patna, India February 2009 – February 2010**

**Systems Administrator -IT-Solutions**

**Key Responsibilities:**

* Responsible for installation, configuration of Linux servers using jumpstart methods.
* Volume and file system management in Linux environments (LVM).
* Installed, configured and hardened Solaris and Linux servers, evaluated needs and installed appropriate recommended patches as needed.
* Configured and maintained Solaris virtual environments. Installed multiple sparse and whole root zones within one physical instance of Solaris 10.
* Performed data management using native Solaris utilities for archiving and compression.
* Used VI editor to edit necessary files.
* Experience with LDAP authentication.
* Preventive maintenance (OS Patching) of red hat enterprise Linux (RHEL).
* Performed data management using native Linux utilities for archiving and compression
* Administered user accounts
* Troubleshooting user logins using various remote login utilities.
* Proficient in troubleshooting system problems.
* Performed administration and monitored job processes using associated commands.
* Monitored client disk quotas and general disk space usage. System performance monitoring and tuning.
* Maintaining and troubleshooting network connectivity.
* Set up mount points on Solaris servers for Oracle database.
* Customized user environment for users.
* Monitored system logs.
* NFS/CIFS file system mounting and support.
* Performance Monitoring and capacity planning in anticipation of system resource usage and needs.
* Setup ZFS quotas, reservation and automatic NFS-share of directories
* Used SMF system utilities
* Have knowledge in installing and configuring VERITAS volume manager.
* Implemented RAID 0-5 solutions with VERITAS Volume Manager.
* Setup Role-Based Access control
* Monitored TCP/IP network environment
* Experience with Internet technologies including TCP/IP and HTTP
* Familiarity with network systems such as servers, switches, firewalls and routers.
* Knowledge of Internet and networking infrastructure design

**Kantar Operations, Patna, India October 2008– February 2009**

**UNIX System Administrator**

**Key Responsibilities:**

* Managed and carried out system maintenance, hardware replacements and upgrades. Performed system patch and software analysis, installs and configuration.
* Installed and Configured RHEL 3/4/5 on Intel and AMD hardware
* Participated in upgrading and migrating to newer versions.
* Perform Linux Kernel tuning for web, database and application servers.
* Installed and configured Apache Web server and integrated with WebLogic server 8.1/9.1/9.2.
* Writing shell scripts for Automated Back- ups and Cron Jobs using sh and bash.
* Managed user accounts and groups for corporate Linux users.
* Managed and support corporate Linux Development servers.
* Responsible for OS installs, system configuration and upgrades.
* Manage and perform change control and administration on application servers, web servers, and database servers in company's mission critical production, staging and development environments.

**Environment:** Rhel 3/4/5, Oracle, WebSphere, Apache.