Shilpa Rani Basole

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**Summary**

Widespread experience in the design and implementation of DevOps processes for Agile projects around 6+ years, working with technologies and platforms including Chef, Jenkins, Git, UNIX/Linux, Docker, Apache, Nagios, AWS.

* **6 years** of experience as a **Devops Engineer - Build and Release Engineer** in automating, building, deploying, managing and releasing of code from one environment to other environment tightly maintaining Continuous Integration, Continuous Delivery and Continuous Deployment in multiple environments like (**DEVEL/TEST/STAGE & PROD**)
* Experience in creating the company's **DevOps strategy in a mix environment of Linux (RHEL, CENTOS, Windows)** servers along with creating and implementing a cloud strategy based on **Amazon Web Services (AWS).**
* Worked in infrastructure team on installation, configuration and administration of **CentOS 5.x/6.x/7**, **Red Hat Linux 8/9, RHEL 5.x/6.x/7**, **Red Hat Satellite 6, Windows Server 2008-R2/2012-R2** and **SUSE Linux 10.x/11**.
* Experience in **Package Management** using Red Hat **RPM/YUM** and **Red Hat Satellite server**.
* Managed Amazon Web Services like **EC2, S3 bundles, RDS, EBS, ELB, Auto-Scaling, AMI, IAM** through AWS Console and **API Integration with Chef Code**.
* Day to day job included but not limited to **handling Tickets, Monitoring, Troubleshooting and maintenance.**
* Experience working with **Chef Enterprise and Chef Open Source**. Installed, configured, upgraded and managed Chef Master, Agents & Databases. Integration of **Chef with Apache and Passenger**.
* Created Custom as well as downloaded pre-written **Cookbooks and Manifests**, Worked and utilized **Chef hierarchy files, facts, and global variables.**
* Installed and managed Middleware tools through **Chef such as WebSphere Application Server 7.x/8.x, JBOSS GA7/EAP6, IBM IHS, Apache & Tomcat.**
* Extensive experience using **MAVEN and ANT** as build tools for the building of deployable artifacts (jar, war & ear) from source code.
* Managed all the bugs and changes into a production environment using the Jira tracking tool.
* Involved in **setting up JIRA, Kanban** as **defect tracking system** and **configured various workflows**, customizations and plugins for the bug/issue tracker.
* Experience in working on source control tools like **Tortoise SVN, CVS, Perforce, and GIT**.
* Extensively worked on **Jenkins/Hudson by installing, configuring and maintaining for the purpose of continuous integration (CI)** and for **End to End automation** for all build and deployments.
* Experience **NIC** **bonding/NIC Teaming** configuration in **Linux/UNIX/Windows/VMware** systems to increase the bandwidth or redundancy based on requirement by the application.
* Managing **DNS, LDAP, FTP**, **Tomcat** & **Apache web servers** on **Linux** servers.
* Expertise in implementation and maintenance of **Apache Httpd,** **SMTP, DHCP, NFS, NIS, NIS+, SAMBA**, SQUID, Postfix, Send mail, FTP, Remote Access, Security Management & Security trouble shooting skills.
* Experienced with the installation, configuration of volume management using **VERITAS Volume Manager 5.1/6.0** and Solstice Disk Suite on Solaris and experienced in **RAID** configurations.
* Experience in Backup Tools like NetBackup, Veeam Backup and Replication Suite.
* Installed, Configured, Managed Monitoring Tools such as **Splunk, Nagios, iCinga for Resource Monitoring/Network Monitoring/Log Trace Monitoring.**
* Expertise in writing **Bash Scripts, Pearl Scripts, Python programing and other Scripts(sh/csh/ksh/Cscript/JCL)** for deployment of Java applications on bare servers or Middleware tools.
* Installation, Configuration and Management of **RDBMS and NoSql** tools such as **SQL Server 2008/2012/2014, MySQL, DB2, MongoDB & Cassandra.**
* Day to day administration of the Development environment and Production and Test environment systems. 24x7 **on-call** support
* Sound knowledge in automation tools like Ansible, Puppet, Chef.
* Provisioning and infrastructure automation in a **IaaS and PaaS** environment in **AWS,** **Azure, Pivotal Cloud Foundry** etc.
* Implemented and deployed a system to Windows Azure, Microsoft’s new cloud solution.
* Strong knowledge of networking concepts like switches, firewalls, load balancers, intrusion detection systems.
* Have a wide domain knowledge on **Financing sector, Hospitality/Servicing sector** and **Marketing sector**
* **Strong appetite for learning new technologies with positive attitude.**

**Technical Skills:**

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| Operating systems | Unix, Linux, Red Hat 4.x, Fedora, Ubuntu, CentOs, Windows |
| Programming Languages | C, C++, Java/J2EE, .Net, PHP |
| Databases | MySQL, MS SQL Server, Oracle, DB 2 |
| Cloud computing | AWS (EC2, S3, EBS, ELB), OpenStack, OpenShift |
| App/Webservers | Apache Tomcat, WebSphere, Web logic, JBoss |
| CI/CD Tools | Jenkins, Chef, Ansible, Terraform, Puppet, Bamboo, TeamCity, Anthill Pro and Docker |
| Build Tools | Ant, Maven, Gradle, Make, MS build |
| Monitoring Tools | Nagios, New Relic, Splunk |
| Version Control Tools | SVN, GIT, Perforce, CVS, Clear case |
| Scripting languages | Ruby, Python, Bash, Perl, Shell, Power shell |
| Web Technologies | HTML, XML, Servlets, JSP |

**Professional Experience**

**Leprino Foods – Denver, CO**

**Sr. DevOps Engineer**

**Nov 2019 – Till Now**

**Responsibilities:**

* Worked on installation, configuration and **maintenance Debian/Redhat, CentOS and Suse Servers at multiple Data Centers.**
* Configured **RedHat Kickstart** for installing multiple production servers.
* Installation, **Configuration and administration of VMware.**
* Deploy and monitor scalable infrastructure on Amazon web services **(AWS) & configuration management using Chef.**
* **Designed Chef or Ansible Modules to manage configurations and automate installation process.**
* Experience working with production servers at multiple data centers.
* Writing custom scripting in Bash/Python/Ruby/Perl.
* Worked on Physical to **Cloud Migration in AWS.**
* Experience in migration of consumer data from one production server to another production server over the network with the help of Bash and Perl scripting.
* Used Chef for Monitoring system and automation.
* Installed and configured monitoring tools **Nagios for monitoring the network bandwidth** and the hard drives status.
* Developed and supported the Red Hat Enterprise Linux based infrastructure in the cloud environment.
* Deploying Linux server using **Hashicorp Vagrant and Vagrantfile.**
* Experience in **AWS, which included managing application in the cloud and creating instances**.
* Installed application on AWS EC2 instances and configured the **storage on S3 buckets.**
* Worked on **AWS Cloud** platform and its features which includes**EC2, VPC, EBS, AMI, SNS, RDS, EBS, S3,DynamoDB,ElastiCache, IAM, Cloud Formation, OpsWorks, Cloud Watch.**
* Migrated on premises Databases to AWS.
* Configured Apache webserver in the Linux AWS Cloud environment using Puppet automation.
* Worked on Version controller **like GIT and integration tools: Jenkins**
* Logged events from forced crash dumps and troubleshoot server issues.
* Configured yum repository server for installing packages from a centralized server.
* Installed Fuse to mount the keys on every **Debian Production Server for password-less authentication**.
* Experience with Configuration Management Tools **(Ansible , Chef).**
* Installed and configured **DCHP server to give IP leases to production servers.**
* Applied **the Clustering Topology** that meets High Availability and Failover requirement for performance and functionality.
* Installation, Configuration and administration **of DNS, LDAP, NFS, NIS, NIS+ and Sendmail on Redhat Linux/Debian Servers.**
* Configured, managed **ESX VM’s with virtual center and VI client**.
* Performance monitoring using **Sar, Iostat, VMstat and MPstaton servers** and also logged to munin monitoring tool for graphical view.
* Installed packages with yum and rpm.
* Good knowledge on Docker and Dockerfiles. Containerizing web application from Linux server to Docker containerizes.
* Provided 24/7 on call support on Linux Production Servers. Responsible for maintaining security on Redhat Linux.

**Environment**: Scrum Agile, SVN, CVS, Ant, Maven, Git, Jenkins, Chef, Ansible, AWS, Tomcat, Selenium, Shell, Perl, Nexus and JIRA.

**First National Bank of Omaha - Omaha, NE**  **Sep 2018 – Nov 2019**

**DevOps Engineer**

**Responsibilities:**

* Responsible for design and maintenance of the **Subversion Repositories** and the access control strategies.
* Performed all necessary day-to-day Subversion support for different projects.
* Implemented & maintained the Branching and Build/Release strategies utilizing **Subversion(SVN).**
* Worked on Administration, maintenance and support of **Red Hat Enterprise Linux (RHEL**) servers.
* Used **Ant and Maven** as a build tools on java projects for the development of build artifacts on the source code.
* Maintained and **administered GIT** source code tool.
* Manage deployment automation using **Puppet, Custom Puppet Modules** and Ruby.
* Automated the build and release management process including monitoring changes between releases.
* Implementing a Continuous Delivery framework **using Jenkins, Puppet, Maven & Nexus in Linux environment.**
* Lead and assisted with the scoping, sequencing, planning, and creating GIT environments.
* Developed procedures to unify, streamline and automate application development.
* Involved in implementing Workflows, Components, Screens and Notification schemes in Jira Project setup.
* Deployed the Java applications into **Apache Tomcat** Application Servers.
* Experience in writing **Maven pom.xml and Ant build.xml** for build scripts.
* Executed user administration and maintenance tasks including creating users and groups.
* Utilized **WAR and JAR** files for deployment of enterprise apps.
* Provided assistance for management of **AWS storage** infrastructure systems.
* Managed Nexus Maven repositories to download the artifacts during the build.
* Created and maintained the **Shell/Perl** deployment scripts for Web Logic web application servers.
* Worked as a system administrator for the build and deployments process on the enterprise server.
* Developed, Maintained, and Distributed release notes for each scheduled release.
* Involved in **periodic archiving** and storage of the source code for disaster recovery.
* **Prepared JUnit test** cases and executed server configurations.
* Supported and developed tools for Integration, Automated Testing and Release Management.
* Used Anthill Pro as **Continuous Integration (CI) server**.
* Responsible for User Management, Administration, Group Management, Slave Management, new job setup in **Jenkins**.

**Environment**: Red Hat Linux 5.0, SVN, GIT, ANT, Jenkins, Maven, Apache Tomcat, Shell, Perl, Puppet, Nexus, AWS, Ec2, Junit, Jira, SQL.

**Honeywell, Phoenix, AZ July 2015 - Sep 2017**

**Devops Engineer**

**Responsibilities:**

* Involved in DevOps migration/automation processes for build and deploy systems.
* Implemented the Build automation process for all the assigned projects in Vertical Apps domain.
* Monitor the UAT/Production Environments for any down time issues by performing regular cron job updates in servers.
* Evolving new tools/methodologies to improve this existing process and show better results to all stakeholders.
* Setup various Team Projects into different Team Project Collections.
* Support the code builds by integrating with continuous integration tool (Jenkins)
* Written Maven scripts, Installed Jenkins, written shell script for end to end build and deployment automation.
* Configure and perform Continuous Integration / Continuous delivery using source control management, build automation (Jenkins), Testing QA (Selenium) and deployment (Run deck, Docker and AWS).
* Built Continuous Integration environment (Jenkins, Nexus and Continuous delivery environment (puppet, Yum, rsync Integrated delivery (CI and CD process) Using Jenkins, Nexus, Yum and puppet.
* Build server deployment on Cloud (EC2) servers with help of DevOps tools like Puppet.
* Implemented JShint/JSlint testing tool to automate the code review process and published the results on Jenkins as well the graph by comparing everyday nightly builds.
* To configure and maintain codebase to support the build and deployment of code on servers.
* Merging and tagging need to be done after the code went live in environment.
* Maintain a Live Like environment to test any production issues on the setup and push it into production.
* Responsible for distributed applications across hybrid AWS and physical data centers.
* Expertise in container technologies and writing containerized software Docker.
* Configure and maintain stress server in different geographical location and provide setup in every release to perform stress testing.
* Configuration Management using Subversion (SVN) and maintaining admin related files.
* Automating the regular tasks in Subversion and streamlining the process of access to SVN.
* Migrated Projects from SVN to GIT.

**Environment:** Java/J2EE, Subversion, Jenkins(CICD), JIRA, TFS, Teamcity, Maven, GIT, ANT, Sonar, Vagrant , Chef, Vault, AWS, Python, Remedy, Weblogic, Centos, Shell Scripting.

**Texas Instrument - Dallas, TX May 2014 to June 2015**

**Unix/Linux Admin**

**Responsibilities:**

* Systems monitoring and administration of Servers for day-to-day problems, patches, user administration, hardware failure, monitoring log files, backup, software up gradation, configuration changes and documentation.
* **UNIX System Administration**. **Fine tuning, Kernel debugging**, **process scheduling**, **disk** and **file system I/O, kernel internals**, **TCP/IP** communications.
* Installed, upgraded and configured **SUN Solaris 9, 10** on **Sun Servers** using **Jumpstart** and **Red hat 5, 6** using **Kickstart**.
* Worked on **Jenkins** and **Git** to setup devops environment for **CI/CD**
* Worked on Apache, Ant and Maven.
* Operating Systems fine tuning and performance analysis, uptime and response time and **SLA**
* Managed users and groups on a large scale in **NIS and LDAP** environments.
* Worked on **DNS servers** setup and configured DNS for Linux machines.
* Installed and configured **LAMP** on **RHEL 5.x**. and also configured and setup **SSL, Virtual machines, WebLogic plug-ins**.
* Worked with Nagios to **monitor HP servers**.
* Installed and monitored servers with **Nagios**.
* Installation, configuration and maintenance of **Solaris 10** with Veritas Volume Manager 5.0 and **Veritas Cluster Server 5.1**.
* Configured, maintained, applied changes and fail-over schedules of HA servers running **Veritas Cluster Server** and **Red Hat Cluster Server**.
* Implementation of **RAID** techniques and the creation of **Disk groups** and **volumes**,
* Gave **sudo** access to users on **Linux boxes** and **RBAC** on **Solaris 10 boxes**.
* Configured Nagios to monitor the resources on the server farm and support them on a 24x7 basis.
* Configuration of multi-pathing using **multipathd.conf**, **EMC Powerpath** and native Leadville drivers.
* Creating backup account for new users and deleting account for the retired or deleted users
* Troubleshooting and analysis of hardware and software failures for various Solaris servers (core dump and log file analysis).
* Worked on **Nagios Core** installation.
* Worked on monitoring servers with **Nagios X1**.
* Setup a **Jumpstart/Flash** and **Kickstart** servers for provisioning of servers with different profiles.
* Installation, Configuration and support for **Redhat Satellite Server** and for upgrading and patching Linux Servers.
* Involved with the deployment teams in trouble shooting and fixing day-to-day problems of the applications in production on 24/7 schedule.

**Environment:** Puppet**,** KVM Hypervisor**,** AIX 6.1,5.3,5.2**,** Windows server 2003**/**Informix and DB2 Database**,** suse Linux**,** RHEL 3,4,5,6, HP/DELL Blade Servers, HP PROLIANT DL servers, DELL PowerEdge servers, OpenStack, Chef, Shell Scripting, Powershell, Cforce, Apache, Web Logic, Websphere, Tomcat, Xen & VMware Virtualization, VDI support.