**Nikhil**

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**DevOps Engineer**

**Professional Summary:**

* Over **7** years of experience in RedHat-Linux (4x, 5x & 6x), CentOS (3x, 4x, 5x & 6x), Ubuntu (6x, 7x, 8x, 9x & 10x), SUSE Linux (9x, 10x & 11x), AIX (V5.3 & 6.1), and Windows Environment.
  + - * Extensive experience includes SCM, **DevOps** Build/Release Management, **Change/Incident** Management and **Cloud** Management.
      * Strong experience in **Automating**, Configuring and deploying instances on **AWS**, **Azure**, **Rackspace** cloud environments, also familiar with **EC2**, **Cloud watch**, Elastic IP’s and managing security groups on AWS.
      * Experience in AWS **Cloud platform** and its features which includes EC2, VPC, EBS, AMI, SNS, RDS, EBS, CloudWatch, Cloud Trail, Cloud-Formation AWS Config, Autoscalling, CloudFront, IAM, S3.
      * Experience in administration of Production, Development & Test environment’s working in various flavors of Linux and Unix like **RHEL 4.x, 5.x, 6.x, Suse Linux, Ubuntu, CentOS, AIX 5.2 /5.3 /6.1 /7.1 and Solaris.**
      * Experienced in working on **DevOps/Agile** operation process including various tools (Code review, unit test automation, **Build & Release automation**, Environment, Service, Incident and Change Management).
      * Production experience in large environments using configuration management tools **Chef** and **Puppet**.
* Experience in development and configuration experience with software provisioning tools like **Chef, Puppet.**
* Experience in creating various modules and manifests using **Puppet.**
* Setup up and maintenance of automated environment using **Chef recipes** & **cookbooks** within **AWS** environment.
* Designed and built a continuous integration and deployment framework for **Chef Code** using test driven development.
  + - * Experience supporting Chef Environment with 200+ servers and involved in developing **manifests**.
      * Strong Experience in **continuous integration**  (CI) technologies like **Bamboo** and **Jenkins**.
      * Designed and created multiple deployment strategies using Continuous Integration and **Continuous Development** Pipelines and configuration management tools with remote execution to ensure zero downtime and shortened deployment cycles via automated deployments.
      * Created and wrote shell scripts (Bash), **Ruby**, **Python** and **PowerShell** for automating tasks.
      * Extensive experience in setting up baselines, branching,merging, and automation processes using shell and **Perl** scripts.
      * Extensively experienced in using Build Automation tools like **ANT**, **Maven**, **Gradle** and working knowledge on other build tools like make file.
      * Experience 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 worked with Version Control Systems CVS, **SVN (Subversion**), **GITHub, Perforce**, and **IBM Rational Team Concert**.
      * Extensively worked with automation tools like **Hudson, Jenkins and Build Forge** to implement the End to End Automation.
      * Experience in **Linux Administration** (Installation**, Configuration, Tuning and Upgrades of Linux** (RedHat and Oracle).
      * Experience in integrating Unit Tests and Code Quality Analysis tools like **JUnit**, **Cobertura**, **Clover**, **PMD**, **findbugs** and **checkstyle**.
      * Experience in using Nexus and Artifactory Repository Managers for **Maven** builds.
      * Experience using RPMs to effectively package the applications for product deployments
      * Experience is using **Apache Tomcat**, **JBoss**, **Oracle Weblogic** and **IBM WebSphere** Application servers for deployments.
      * Experience with Bug tracking tool like **JIRA**
      * Managed environments DEV, SIT, QA, UAT and PROD in **SDLC** for various releases and designed instance strategies
      * Ability to work closely with teams, in order to ensure high quality and timely delivery of builds and releases.
      * Strong ability to troubleshoot any issues generated while building, deploying and in production support.
      * Good Interpersonal Skills, team-working attitude, takes initiatives and very proactive in solving problems and providing best solutions.
      * Good knowledge on ITIL Process and have worked on coordinating releases across the projects.
      * Worked on **24X7** on-call support rotation

**Technical Skills:**

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| --- | --- |
| Platforms | UNIX, Linux 4/5, Ubuntu, Fedora, Windows 98/NT/XP/Vista/7/8, iOS |
| Configuration management tools | ANT, Maven, Hudson/Jenkins, Chef, Puppet, BuildForge |
| programming/scripting | C, Java, Xml, Shell, Perl, Ruby, Python, Groovy, PowerShell |
| Database Systems | SQL Server 2000/2005/2008, Oracle 9i/10g-PL/SQL, MS Access, DB2 |
| Application Servers | JBoss, Apache Tomcat 5.x, IntelliJ IDEA, Oracle WebLogic 10.x/11.x, IBM WebSphere 5.x,6.x,7.0, IIS Server |
| Cloud Services | AWS EC2, VPC, EBS, AMI, SNS, RDS, EBS, CloudWatch, CloudFormation AWS Config, S3, Cloud Trail, IAM. VMWare. |
| SCM Tool | Subversion, GIT ,Tortoise SVN ,Perforce, Clear case |
| IDE | Eclipse2.3, Rational Application Developer7.0, MS Visual Studio |
| Others | MS Outlook, Informatica, Power Center, Business Objects. |

**Professional Experience:**

**AT & T, Bothell, WA Oct 2014 to Present**

**Sr. DevOps/Linux & Cloud Engineer**

**Responsibilities:**

* Implemented branching and strategies and automated release branching process
* **Automated** the deployments using scripts which execute the **automated CI** and release management process
* Created a reusable deploy distribution for the system which can be ported to multiple environments without having the need to run separate builds.
* Responsible for managing infrastructure provisioning (**S3, ELB, EC2, RDS, Route 53, IAM**, **security groups – CIDR’s, VCP, NAT**) and deployment via **SCALR** and **EC2** Installs with **CentOS**, Ubuntu and RHEL 6 and Scientific Linux.
* Automate Deployment using configuration Management tool like **puppet** to provision amazon AWS Instances to enable continuous Deployments
* Worked on Cloud automation using **AWS Cloud Formation templates**
* Created automation for many **AWS** specific tasks such as parsing a **CSV** for automated read/writes into **DynamoDB** so that changes are source controlled and automated via **Jenkins**.
* Used **Openstack** and **AWS** cloud services to launch Linux and windows machines, created security groups and written basic **powershell** scripts to take backups and mount network shared drives.
* Deploy and monitor scalable infrastructure on Amazon web services (**AWS**) & configuration management using **puppet**.
* Designed **Puppet Modules** to manage configurations and automate installation process.
* Worked on Installation and configuration of **DevOps** tool **Puppet**
* Created various modules and Manifests in **puppet** to automate various applications
* Implementing new projects builds framework using **Jenkins & maven** as build framework tools
* Implementing a Continuous Delivery framework using **Jenkins, Puppet, Maven & Nexus** in **Linux environment**
* Created monitors, alarms and notifications for **EC2** hosts using **CloudWatch**
* Wrote **Bash/Shell/Perl** scripts for managing day-to-day transactions & for automation of routine tasks
* Created and wrote shell scripts (Bash), **Ruby**, **Python** and **PowerShel**l for automating tasks
* Automate all the tool and Product and Integrate together required for company specific product through **Cookbooks**
* Worked on **Redhat5.x and 6.x, SUSE Linux 10.x**, Microsoft SCOM hardware platforms and in **VMware** **vSphere** client 5.x virtual environment
* Installing, configuring and maintaining RHEL 5.x, 6.x physical and virtual server.
* Building RHEL 5.x, 6.x and SUSE Linux 10 as a 4-node cluster from scratch using **HPSA** tool
* Documentation for every release and installation walk through.
* Setup monitoring and alerting mechanisms for **AWS** and private datacenter infrastructure
* Transitioned Infrastructure from private data center to Cloud (**AWS**)
* Experience with configuration management and automation tools (Puppet/ Docker)
* Work with Docker for convenient environment setup the test environments
* Knowledge on Deploying Couchbase, Tomcat and Elasticsearch clusters using Docker.
* Integrated GIT into Jenkins to automate the code check-out process
* Responsible for **Database build, release and configuration**
* Responsible for **nightly and weekly builds** for different modules.
* Using **Jenkins** AWS Code Deploy plugin to deploy to AWS
* Used IAM to create new accounts, roles and groups
* Manage deployment automation using **Puppet**, **MCollective**, **Hiera**, Custom Puppet modules, **Ruby**.
* AWS Cloud management and Puppet automation
* Integration of Maven/Nexus, Jenkins , Urban Code Deploy with Patterns/Release, GitHub, Confluence, Jira and Cloud Foundry
* Troubleshooted build issues during the Jenkins build process.
* Optimized volumes and **EC2** instances
* Configured **S3** versioning and lifecycle policies to and backup files and archive files in Glacier
* Resolved system issues and inconsistencies in coordination with quality assurance and engineering teams.
* Member of Continuous Change Management **CCM** representing changes for Release and **environment configuration**
* Perform **Deployment** of Release to various **QA & UAT in Linux environments**.
* Configured Elastic Load Balancers with EC2 Auto scaling groups

**Environment:** CI , AWS Cloud, OpenStack, PowerShell, Puppet, Jenkins, Maven, Cloudwatch, Cookbooks, Docker, ElasticSearch, JIRA, Python, Ruby, Shell, Perl, GIT, Jenkins, Maven, AWS EC2, WebSphere, ANT, Putty, CONFLUENCE, Java, J2EE, SOA.

**IBM, Dallas, TX Dec 2012 to Sep 2014**

**Sr. DevOps Engineer**

**Responsibilities:**

* Led a companywide adoption of open source **Chef** by building Chef Development workflow and best practices around configuration management as well as building a strong and diverse internal Chef community
* Launching and configuring of **Amazon EC2** (**AWS**) **Cloud Servers** using AMI's (Linux/Ubuntu) and configuring the servers for specified applications.
* Created and maintained **continuous integration (CI)** and **continuous deployment (CD)** environments to facilitate an **agile** development process, which are automated and repeatable enabling teams to safely deploy code multiple times a day while ensuring operational best practices are supported.
* Setup up and maintenance of automated environment using **Chef Recipes** & **cookbooks** within AWS environment
* Designed and built a continuous integration and deployment framework for Chef Code using test driven development.
* Experience designing, building, maintaining, and coordinating an automated build/release process using **GitHub**, **Jenkins**, **Bamboo**, **Docker**, **Vagrant**.
* Experience in SVN and Jenkins.
* Having ample experience in load balancing and monitoring with **Nagios**
* Worked on **Grub**, **PXE boot**, Chef, **Kick-start**, Packages, **Yum**, RPMs, LVM, Boot from SAN, file system configuration.
* Developed build and deployment scripts using **ANT and MAVEN** as build tools in **Jenkins** to move from one environment to other environments.
* Involved in editing the existing **ANT/MAVEN** files in case of errors or changes in the project requirements
* Installed/Configured/Managed **Jenkins CI Automation**
* Imported and managed multiple corporate applications into **Subversion (SVN).**
* Installed/Configured and Managed **Nexus** Repository Manager and all the Repositories.
* Installing CAD cluster Oracle 11g and **WebLogic** applications 11.x, 12.x on **RHEL** 5.x and 6.x
* Creating and configuring user accounts and DNS entries.
* Monitored NFS, NIS, DNS and Send mail servers
* Writing shell scripts to accomplish day-to-day system administration task.
* Troubleshooting **Hardware** and Operating system related issue.
* Experience in writing technical documentation for regulatory and compliance procedures, policies and various other activities that involved
* Used **JIRA** as ticket tracking, change management and Agile/SCRUM tool
* Managed **VMware** Infrastructure/**vSphere5** clusters on Test/Development environments.
* Involved in configuring network bonding and troubleshooting networking issues
* Perform periodic system audits on all environments to ensure that only controlled versions of software reside all environments.

**Environment:** Subversion (SVN), Jenkins, Java/J2EE, ANT, Maven, Chef, Tomcat, Perl Scripts, Shell Scripts, XML, UNIX, VMware, vSphere, Nagios, Docker, Bamboo, GitHub, Windows 7, Oracle, JIRA

**State Farm, Bloomington, IL Oct 2011 to Nov 2012**

**Devops/Build & Release Engineer**

**Responsibilities**

* Primary duties include Build and Deployment of the java applications onto different environments like **Dev, QA and UAT**.
* Involved in Installing **Jenkins** on a **Linux** machine and created a master and slave configuration to implement multiple parallel builds through a build farm.
* Developed **Shell/Perl** Scripts for automation purpose
* Used Subversion as source code repositories
* Used **Jenkins, Build forge** for Continuous Integration and deployment into **Tomcat** Application Server
* Used **AGILE MVN** method to develop a build and **ANT** as a build tool
* Installing, configuring and administering Jenkins CI tool on Linux machines.
* Installed and Configured the Nexus repository manager for sharing the artifacts within the company.
* Involved in writing parent pom files to establish the code quality tools integration
* Involved in Research of the project application architecture to support/resolve build, compile, and test issues/problems.
* Responsible for designing and deploying best **SCM** processes and procedures
* Worked closely with software developers and DevOps to debug software and system problems
* Maintained and coordinated environment configuration, controls, code integrity, and code conflict resolution.
* Managed **SVN** repositories for branching, merging, and tagging
* Resolved merging issues during rebasing and re-integrating branches by conducting meetings with Development Team Leads
* Implemented the setup for Master slave architecture to improve the Performance of Jenkins
* Supported and developed tools for integration, automated testing and release management.
* Verified if the methods used to create and recreate software builds are consistent and repeatable.
* Releasing code to testing regions or staging areas according to the schedule published.
* Used **JIRA** as ticket tracking and work flow tool.
* Coordinated with developers, Business Analyst and Mangers to make sure that code is deployed in the Production environment.

**Environment:** Linux, Agile**,** SVN, Shell/Perl Scripts, SCM, Jenkins, Build Forge, Maven and ANT, Tomcat, JIRA

**CSC, Hyderabad, India Oct 2010-Sep 2011**

**Unix-Linux Admin/Engineer**

**Responsibilities:**

* Installed, configured, troubleshoot, secured and provided support for **Redhat 4/5, CentOS 3/4/5 and SUSE Linux 9/10** servers.
* Worked on different **Unix/Linux** platforms and mail servers.
* Worked on installation and configuration of **Weblogic and JBoss**.
* Worked on Apache web servers and Nagios.
* Administered user accounts, performed user maintenance on different Linux environment.
* Monitored security issues, administered system mail and Internet access. Configured network file systems.
* Assisted on Installation and configuration of **FTP, TFTP, HTTP, SAMBA, DNS**.
* Assisted on deployment of application patches and upgrades; perform reboots & configuration changes.
* Performed memory analysis of servers, clustering and DNS.
* Monitored dedicated and shared servers having more than 1000 domains.
* Worked on **IMAP, POP, SSH** Configuration and Hardening as well as troubleshooting and addressing issues.
* Server Security Auditing,Vulnerability Assessment and correction.
* Worked on DNS and reverse DNS delegation. (Bind, QDNS).
* Linux Kernel Security, regular maintenance, compiles and OS reinstalls.
* Worked on Core System Files Hardening and Optimization (sysctl.conf, resolv. confetc).
* Assisted on monitoring servers and responding to event notifications. (Service outages, High Load Alerts etc.) using Nagios.
* Working knowledge of Database Technologies (MySQL, PGSQL), performance Optimization and Hardening.
* Provided 24/7 on-call supports.

**Environment:** Redhat Linux (4.x, 5.x), Centos (3.x, 4.x, 5.x), SUSE (9.x, 10.x), Oracle 10g & 11g, Nagios, Litespeed, Tomcat, Jboss, DNS, IMAP, POP, SSH, SQL, PL/SQL, shell scripts, SQL Loader, Toad, Putty, Storage, PRTG, RDNS, QDNS

**APP labs, Hyderabad , India Nov 2008- Sep 2010**

**LINUX System Administrator**

**Responsibilities:**

* Administered, maintained **Red Hat 3.0**, **4.0**, **5.0, 6.0 AS**, **ES**, Troubleshooting Hardware, Operating System Application & Network problems and performance issues; Deployed latest patches for, **Linux** and **Application servers**, Performed **Red Hat Linux Kernel Tuning**.
* Experience in implementing and configuring network services such as **HTTP, DHCP, and TFTP**.
* Experienced working with Preload Assist and PICS projects.
* Install and configure **DHCP**, **DNS (BIND, MS), web (Apache, IIS), mail (SMTP, IMAP, POP3),** and file servers on Linux servers.
* Installing and setting up Oracle9i on Linux for the development team.
* Linux kernel, memory upgrades and swaps area. Red hat Linux **Kickstart** Installation.
* Capacity Planning, Infrastructure design and ordering systems.
* Created users, manage user permissions; maintain User & File System quota on Red hat Linux.
* Bash shell-scripts to automate routine activities.
* Monitored trouble ticket queue to attend user and system calls.
* Updated data in inventory management package for Software and Hardware products.
* Administered Linux servers for several functions including managing **Apache/Tomcat** server, **mail** server, **MySQL** databases in both development and production.
* Migrated database applications from Windows 2000 Server to Linux server.
* Worked with DBAs on installation of RDBMS database, restoration and log generation.
* Attended team meetings, change control meetings to update installation progress, and for upcoming changes in environment.
* Diagnosed hardware and software problems and provided solution to them.

**Environment:** Red Hat Linux 3.0,4.0,5.0 AS ES, HP-DL585, Oracle 9i/10g, Samba, VMware Tomcat 3.x,4.x,5.x, Apache Server 1.x,2.x, Bash.