**Nima Sherpa**

**Devops Engineer**

**Professional Summary:**

* Around 7 years of experience in Linux administration and Executing DevOps strategy in various environments of Linux and Windows servers along with experience cloud strategies based on **AWS**.
* Expertise in **AWS**Resources like EC2, S3, EBS, VPC, ELB, AMI, SNS, RDS, IAM, Route 53, Auto scaling, Cloud Formation, Cloud Watch, Security Groups.
* Experience in optimizing volumes, EC2 instances and created multiple VPC instances and created alarms and notifications for EC2 instances using Cloud Watch.
* Setting up the scripts for creation of new snapshots and deletion of old snapshots in S3 using S3 CLI tools.
* Experience in working on source control management tools like GIT (GitHub), Subversion (SVN) and creating GIT repositories with specified branching strategies
* Expertise in using build tools like MAVEN and ANT for the building of deployable artifacts such as war from source code.
* Experience on working with various OS like Linux (Red hat, Ubuntu, CentOS), UNIX, Windows
* Experienced in Querying RDBMS such as Oracle, MY SQL and SQL Server.
* Designed and created multiple deployment strategies using CI/CD Pipelines using Jenkins.
* Configured and administered Jenkins for automated builds Responsible for installing Jenkins master and slave nodes.
* Used Jenkins for Continuous Integration and Deployments and created pipelines for automation
* Expertise in automating builds and deployment process using Bash, Python and Shell scripts.
* Rapid provisioning and configuration management for Ubuntu using Chef on **AWS** platform
* Installed and Configured Chef Server, Workstation, Client servers and nodes, written several recipes, cookbooks in Chef to automate the environment provisioning, Middleware Infrastructure Installations
* Experience in Designing, Installing and Implementing Ansible configuration management system and in writing playbooks for Ansible and deploying applications
* Designed Puppet Modules to manage configurations and automate installation process and developed automation scripting Puppet to deploy and manage Java applications across Linux servers. Familiar with designing and deploying container-based production clusters using Docker.
* Experienced with Amazon Elastic container service. Creating Docker files, Docker Images & Containers
* Implemented Kubernetes to deploy scale, load balance, scale and manage docker containers with multiple name spaced versions.
* Extensively worked on Jenkins, Docker for continuous integration and for End to End automation for all build and deployment.
* Good understanding of Software Development Life Cycle (SDLC) like Agile, Waterfall Methodologies

**Technical Skills:**

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| **Operating System** | **Unix, Linux (Redhat/ Centos/Ubuntu), Windows Server** |
| **Scripting Language** | **Bash Shell , Python** |
| **Version Control Tools** | **Git, GitHub, Bitbucket** |
| **Configuration Management** | **Chef, Puppet, Ansible** |
| **Build Scripting Tools** | **Ant and Maven** |
| **CI Tools** | **Jenkins, GitLab** |
| **Cloud** | **AWS** |
| **Monitoring Tools** | **AWS CloudWatch, Nagios** |
| **Networking Tools** | **DNS, Route53, HTTP, HTTPS, TCP** |
| **Web Server** | **Apache, Tomcat, Ngnix** |
| **Virtualization** | **VMware, Docker** |
| **Database** | **Oracle, DB2, MySQL** |

**Professional Experience:**

**CVS Health, Dallas, TX Mar2017- Till Date**

**DevOps Engineer**

**Responsibilities:**

* Participated in configuring and monitoring distributed and multiple platform servers using Puppet. Used Puppet server and workstation to manage and configure nodes.
* Experience in managing virtual instances and disks using Puppet.
* Deployed Puppet, Puppet dashboard for configuration management to existing infrastructure.
* Production experience in large environments using configuration management tool Puppet supporting with 500+ servers and involved in developing manifests.
* Implemented continuous integration web hooks and workflows around Jenkins to automate the dev test deploy workflow around Puppet codebase.
* Setup puppet master, client and wrote scripts to deploy applications on Dev, QA, production environment.
* Created continuous integration system using Ant, Jenkins, Puppet, and Continuous Integration for faster and flawless deployments.
* Worked on installation, configuration and maintenance of Debian/Redhat, CentOS and Suse Servers at multiple Data Centers.
* Automated the installation, deployment and maintenance of Middleware Application Servers to RHEL Development and Test Environments.
* Experience working on several Docker components like Docker Engine, Hub, Machine, Compose and Docker Registry
* Creating Amazon EC2 instances using command line calls and troubleshoot the most common problems with instances and monitor the health of Amazon EC2 instances and other **AWS** services.
* Wrote Shell Scripting programs to execute PL/SQL and SQL commands.
* Converted old builds using MAKE to ANT and XML for doing Java build.
* Installed and administered GIT source code tool and ensured the reliability of the application as well as designed the branching strategies for GIT.
* Deployed and configured Git repositories with branching, forks, tagging, merge requests, and notifications.
* Dealt with troubleshooting issues like Server hang, keep alive threads, HTTP threads, Application Deadlock, Perm Gen space, Out of Memory Issue, High memory usage and High CPU.
* Converted and automated builds using Maven and Ant. Scheduled automated nightly builds using Jenkins.
* Resolving merging issues during build and release by conducting meetings with developers and managers.
* Involved in writing and editing the existing ANT (Build.XML) files in case of errors or changes in the project requirements.
* Experience working with **AWS**Cloud computing and launching Instances and automation of administration roles.

**Environment:** Puppet, **AWS**, Docker, Apache ANT, Apache Tomcat, GIT, Maven, Jenkins, Docker, Shell, Bash, Ruby, Unix/Linux, Web Sphere, Splunk, log stash, , RHEL 6/7, CentOS 6/7, Java J2EE, Jira, confluence

**Matrix Medical Network, Phoenix, AZ Oct 2015-Feb 2017**

**DevOps Engineer**

**Responsibilities:**

* Good understanding of Cloud Platforms like **AWS**. Worked on several POC projects on **AWS**.
* Designed **AWS** Cloud Formation Templates to create custom sized VPC, Subnets, Internet Gateway, and NAT to ensure successful deployment of Web Applications.
* Implemented cloud services **AWS**and Implemented Bash, Perl, Python scripting.
* Worked on GIT (Git Hub) repositories as Distributed Version Control System.
* Installed and configured GIT to implement branching strategy which is suitable for agile development also provided continuous support and maintenance of software builds.
* Responsible for taking the source code and compiling using Maven and package it in its distributable format, such as a WAR file.
* Worked on integrating Git into the continuous Integration (CI) environment along with Jenkins Configured the services using modern DevOps tools.
* Refined automation components with scripting and configuration management using Ansible.
* Wrote Ansible playbooks from scratch in YAML. Installing, setting up & Troubleshooting Ansible created and automated platform environment setup.
* Automated various infrastructure activities like Continuous Deployment, application server setup, stack monitoring using Ansible playbooks.
* Automated the deployment process by writing Shell (bash), Python scripts in Jenkins.
* Installed packages using YUM and Red Hat Package Manager (RPM) on various servers.
* Used Apache Tomcat for deploying the Java Web Applications
* Experience in Designing, Installing and Implementing Ansible configuration management system and in writing playbooks for Ansible and deploying applications
* Configured and administered Jenkins pipelines for automated builds and responsible for installing Jenkins master and slave nodes.
* Worked exclusively on VMware (Ubuntu 16.04) virtual environment.
* Worked closely with DBA Teams to adjust kernel parameters as per requirements.
* Designed and created multiple deployment strategies using CI/CD Pipelines using Jenkins. Installed multiple plugins to Jenkins, Configured Proxy to get auto updates
* Configured SSH, SMTP, Build Tools, and Source Control repositories in Jenkins
* Coordinated with various cross functional teams across IT operations to make sure smooth functioning of projects.

**Environment:** AWS, Bash, Perl, Python, GIT, Version Control System, VPC, CI/CD, Ansible, Jenkins, Java, Linux, Apache, Tomcat, VMware, SSH, SMTP, Build Tools.

**AIG, Houston, TX Jan 2013-Aug 2015**

**Devops Engineer**

**Responsibilities:**

* Good understanding of EC2 instances, created instances, configured security groups, assigned elastic IP's, worked on VPC and public cloud environments.
* Understanding of S3, RDS, EBS, Route53 and IAM services. Created several users, roles and groups in IAM.
* Basic understanding of Puppet attended basic training on Puppet and started learning concepts, building small modules. Analyzed modules from Puppet Forge and created simple modules to automate tasks like installation of apache, managing NTP and controlling few services and packages.
* Worked on setting up of hosted Chef Servers to facilitate automation of services by installing Chef WorkStation, Chef Server and Chef Client.
* Bootstrapped the nodes to Chef Server.
* Developed Chef Cookbooks to manage system configurations.
* Designed Amazon Web Services Cloud Formation Templates (CFTs) and integrated with Chef to build a resilient and fault-tolerant infrastructure for applications.
* Worked on various scripts using Python, Ruby, and Shell for various applications.
* Worked with development and operations teams to identify, implement, and administer continuous testing resources, worked on Quality Management tools like SonarQube.
* Created jobs for builds and deployments in Jenkins.
* Installed Docker and created Docker Containers.
* Used Docker Containers to package the applications and deploying them on to WebSphere Application server.
* Installed, configured and maintained IBM WebSphere Application Server V8.0/8.5.5.0/7.0x using silent mode and also using GUI mode.
* Installed, configured and administered IBM HTTP Server, Windows IIS Server, Apache HTTP Server and SUN One Web server.
* Configured clustered environment in Web Sphere Application Server V 8.5/7.0 and deployed applications on Windows, Linux and Solaris environment.
* Deployed EAR applications in clustered WebSphere Application Server for Dev, QA, DR and Production environments.
* Upgraded Applications with various patch files (EJB classes, JSP's, Class files, changing various properties and property files).
* Created Digital Certificates and configured SSL and also configured CA-Signed certificates (VeriSign,) for WebSphere Application Server, Nginx Server, Apache Server, and IIS.
* Configured and Enabled the Global Security for WAS Administration Console users and Console Groups using Active Directory Server as a LDAP User Registry.
* Worked closely with developers in deploying ears and wars, configuring necessary database resources (JDBC Providers, data sources Applied the maintenance fix pack and fixes to WebSphere Application Server and HTTP servers.
* Involved in Creating Shell Scripts like Automation of Startup and Shutdown Processes
* Involved in Trouble shooting and Performance tuning using Resource analyzer and Log analyzer.
* Monitored the performance of WAS, EC2 instances through CA Wily Introscope, CloudWatch.
* On-call support (24x7), Monitoring and maintaining multiple Applications.

**Environment:** S3, RDS, EBS, Route53 and IAM, VPC, Puppet, Chef, AWS, Cloud Formation, WebSphere Application Server V8.0/8.5.5.0/7.0x, Linux, SSL, Nginx Server, Apache Server, and IIS.

**YomariInc, Kathmandu, Nepal March 2011- Nov 2012**

**Unix/Linux Admin**

**Responsibilities:**

* Installed, configured, and maintained the functionality of NEXUS clients Red Hat systems.
* Performed hardware maintenance, upgrades, and component-level troubleshooting on LINUX Red Hat servers.
* Installed, maintained, and debugged open source proprietary RPM packages to bring systems up to date and provide customized features.
* Installed, configuring and updating Virtual environment such as VMware and VirtualBox.
* Installing and configuring Splunk and Zabbix.
* Provided system technical support to external and internal user installation, configuration, and administration of Linux based systems.
* Configured and updated, the Apache server, Tuxedo and Tomcat.
* Research/Installation of Linux (RHEL) O/S software and patches, third-party software/packages (ex.: Perl & Perl modules).
* Provide immediate response to unscheduled interruptions to restore service as quickly as possible
* Backup and recovery of the system.
* Work in weekend shift to ensure 24x7 monitoring and maintenance of data center infrastructure
* Responsible for configuring routers.
* Have basic understand of SQL and Oracle.

**Environment:** Linux, Red Hat, NEXUS, VMware, Splunk, Zabbix, Apache server, Tuxedo, Tomcat, Perl, SQL, Oracle.