**Niraj Paudel**

**DevOps Engineer**

**Professional Summary:**

* 6+ years of experience in DevOps and related technologies and Executing DevOps strategy in various environments of Linux and Windows servers along with espousing 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 design, development and deployment of business software in cloud environments such as AWS, Team City, and Octopus Deploy.
* Experience in optimizing volumes, EC2 instances and created multiple VPC instances and created alarms and notifications for EC2 instances using Cloud Watch.
* Set 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 builds tools like MAVEN and ANT for the building of deployable artifacts such as war from source code.
* Expertise in implementation and maintenance of Apache HTTP, SMTP, DNS, TCP/IP, Security Management & Security trouble shooting skills
* Experience on working with various OS like Linux (Red hat, Ubuntu, CentOS), UNIX, Windows
* 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.
* 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 in Python using Puppet to deploy and manage Java applications across Linux servers.
* Familiar with designing and deploying container-based production clusters using Docker.
* Experienced with Docker container service. Creating Docker files, Docker Images & Containers
* Experience with container-based deployments using Docker, working with Docker images, Docker hub and Docker registries, installation and configuring Kubernetes and clustering them.
* Implemented Kubernetes to deploy scale, load balance, scale and manage Docker containers with multiple names 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
* Experienced in troubleshooting and automated deployment to web end application servers like WebLogic, and Apache Tomcat.

**Technical Skills:**

|  |  |
| --- | --- |
| Operating Systems | Linux - Red Hat, Fedora, SUSE, Debi, Ubuntu, CentOS, Unix |
| Cloud Platforms | AWS, Microsoft Azure and Open stack |
| Configuration Management | Chef, Puppet, Vagrant, Maven, Ansible, Docker, Gradle, Splunk, OPS Work. |
| Languages/Scripts | Bash Shell, Perl, Python Scripts, Cobol, C, C++, Visual Basic, Java, J2EE |
| Databases | MySQL (phpMyAdmin), PostgreSQL (phpPgAdmin) |
| Build Tools | ANT, MAVEN, Make file, Hudson, Jenkins, BA |
| Mail Servers | Postfix, PostgreSQL (Virtual mail box) |
| Web Servers | Apache2/Tomcat, JBoss, IBM-Web Sphere, WebSphere, JBoss |
| Virtual Server | VMware ESX 3.5.0 Server, VMware Infrastructure Client 2.5 &Xen 3.2 |
| Version Control Tools | Subversion (SVN), Clear case, GIT, GIT Hub, Perforce, Code Commit |
| Other Tools | JIRA Project Management Tool, Eclipse, CUPS, DNS(BIND), DHCP, Samba, Firewall (Squid, IPTables), FTP, NFS, NIS, |

**Professional Experience:**

**Bank of America, Dallas, TX Sep 2017-till date**

**DevOps Engineer**

**Responsibilities:**

* Implemented build automation solutions for products and provide ongoing support and administration for software build and build automation using Scripts, Jenkins ANT, Maven, Shell and Apache Tomcat.
* Managed Version Control Subversion (SVN) and GIT Hub Enterprise and Automated current build process with Jenkins with proposed Branching strategies to accommodate code in various testing cycles.
* Developed continuous delivery product release pipelines, using tools such as Jenkins and enable release and operations automation using Ansible.
* Maintain continuous delivery processes for code deployment using TeamCity
* Created a Self-server VMware stack for developers to build and deploy code in a CI/CD manner, allowing them to reset a standard static VMware infrastructure.
* Worked on MicroServices project- to build Docker containers and deploy to Dev, iTest, Scale, UAT (SIT), PROD.
* Implemented a CI/CD pipeline using Jenkins, Ansible, and Maven in Linux environment.
* Involved in gathering the client requirements, creating the client servers (Ubuntu, RHEL, windows) hosted in cloud, configuring, and maintaining the launched instances with respect to specific applications, solving the issues raised with the instances.
* Setting up Continuous Integration, Continuous Delivery processes(CI/CD) using BizTalk 2016, TeamCity, Octopus Deploy, Jenkins and other configuration tools
* Experienced in designing and deploying applications utilizing almost all the AWS stack (IncludingEC2, Route53, S3, RDS, Dynamo DB, SNS, SQS, IAM) focusing on high-availability, fault tolerance, and auto-scaling in AWS Cloud formation.
* Configure and launch AWS EC2 instances as per requirement, Select and setup AWS in most cost-effective way, Created AWS Route53 to route traffic between different regions.
* Experienced in working with Amazon EC2 for deploying the applications by grouping all the container instances, where Docker is used as a containerization tool for this.
* Worked on end to end setup of the artifactory pro as a docker container with a secure private docker registry and local docker repositories for storing the built docker images.
* Worked on Ansible modules to deploy docker services on the swarm cluster for the entire MicroServices stack.
* Worked exclusively with a RedHat based environment that was managed in house (VMWare) and in AWS.
* Well versed with setting up tools like Splunk to ensure proper monitoring & alerting is in place for every sprint releases.

**Environment:** AWS, EC2, EBS, ELB, AMI, Splunk, auto scaling, VMware, S3, Route53, SNS, Ubuntu, RHEL, Windows, GIT, Docker, ANSIBLE, Kubernetes, python, Splunk, Jira, GIT hub, Jenkins, JAVA/J2EE applications.

**Nepal Telecom, Kathmandu Nepal June 2015- June 2017**

**DevOps Engineer**

**Responsibilities:**

* Involved in all administration tasks like Installation, Configuration, Deployment and Troubleshooting of Web Logic Servers 8.1 on various operating systems such as Sun Solaris & Linux.
* Setup of the Cluster Environment for various Web Logic environments.
* Used Puppet server and workstation to manage and configure nodes, experience in writing puppet manifests to automate configuration of a board range of services.
* Automated AWS infrastructure via Ansible and Jenkins and services configuration using Ansible.
* Managed, architected, and optimized CI/CD practices (TeamCity/Octopus Deploy). Leveraged TeamCity's Declarative State Language to create templates for automating the creation of new pipelines.
* Implement and maintain Application Lifecycle Management (ALM) Tools like TFS and Octopus.
* Built and configured virtual data center in AWS cloud to support Enterprise Data Warehouse hosting including Virtual Private Cloud (VPC), Public and Private Subnets, Security Groups, Route Tables, Elastic Load Balancer, Cloud Watch, Cloud Trail and Security Management VPC.
* Built application and database servers using AWS EC2 and create AMIs and used RDS for Oracle DB.
* Migrated VMware to AWS using snowball and VM import/export.
* Migrated Java scripts and Database scripts from Oracle, MS SQL Server and MY SQL into different environments like Development and Quality.
* Integrated Jenkins with repositories like Bit Bucket/Git to build Automation tools (Maven and Ant), and Artifact repository for pushing successful build code.
* Executed the Maven builds locally to troubleshoot Java code issue and merging related issues.
* Experience in configure, automate deployment using Puppet.
* Responsible for analyzing and troubleshooting all Web Logic related issues by the application team in various environments like DEV, QA, Staging & Production.
* Experience in working with UNIX and Ctrl-M jobs.
* Provided 24X7 supports on a rotation basis.
* Responsible amongst team for day-to-day tasks.
* Involved in debugging & troubleshooting application codes with developers based on types of exceptions thrown.
* Deploying applications to various production environment using deployment tools.
* Escalation of problems to Vendor support, Engineering and Development teams for further analysis.
* Involved in SEV calls with other team members and application team for resolving the high priority issues in Production environment.
* Simplify processes by automating various tasks e.g. application deployment process, remote restart.
* Installation of SSL certificates and key stores for the Web Logic clustered environment.
* Installing of HTTP plug-in for Apache.
* Implementing Load balancing for the application using the F5 Load balancer.
* Setup and configure Messaging bridges between MQ and JMS.
* Fine tune JMS Messaging bridges and JMS Destinations.
* Configure SSL in Apache, I Planet and Web Logic servers.

**Environment:** ANT, Maven, Linux 4.x, Apache 2.0., Nginx, Tomcat, Puppet, Jenkins, Http/SSL AWS EC2 .

**Kumari Bank, Kathmandu Nepal Aprl 2012- May 2015**

**Jr. DevOps Engineer**

**Responsibilities:**

* Responsible for build, design and maintain the platform automation infrastructure using Chef.
* Developed Chef Cookbooks to install and configure Apache, Tomcat, Splunk, Jenkins, WebLogic, Rundeck and deployment automation and Integrated Jenkins, Rundeck and Chef.
* Implementing Test Driven Development (TDD) approach for writing Chef Cookbook using Test-kitchen, and Chef Spec.
* Worked on automating processes using puppet.
* Maintained high availability clustered and standalone server environments and refined automation components with scripting and configuration management Ansible.
* Helped Developers to setup Workstations in Windows, Linux and Mac to work with Chef.
* Supported server/VM provisioning activities, middleware installation and deployment activities via chef.
* Integration of Configuration Management Systems like Chef with AWS for code deployment.
* Created VPC and enabled access between public and private subnets.
* Experience working with Docker Hub, Internal Docker Registry and Docker Engine.
* Provided end-user training for all Subversion (SVN)/GIT users to effectively use the tool.
* Developed build using ANT and MAVEN as build tools and used Jenkins to kick off the builds move from one environment to other non-prod environments.
* Develop and lead the engineer of a log analysis platform consisting of Splunk and Elastic Search, Log stash, Kibana (ELK) stack to process large amount of data.
* Create Python script to automatically parse data from logs and PCAP to be feed into ELK
* Built and Deployed J2EE to a web application server in an Agile continuous integration environment and automated the whole process.
* Responsible in deploying the application WARs, EARs in WebLogic application servers and troubleshoot any deployment issue.
* Configured the JNDIs, Data Sources, and JDBC to connect the application to the backend Oracle Database.
* Experience in migrating source code repositories from between various version control systems like SVN to Git, SVN to P4v.
* Worked on several build tools like ANT, Maven and Gradle etc.
* Deployed Applications into PROD & Pre-Prod environments with various Application server technologies like WebLogic, Jboss & Apache Tomcat.
* Troubleshooting deployment, infrastructure and start up issues on various application server's product line.
* Automated webserver content deployments via shell scripts.

**Environment:** Solaris, Unix, Java, Maven, WebSphere Application Server (WAS), Jenkins, Chef, Jira, Merant Tracker, PVCS, WMB, SVN, Java, Linux.