**Ashish Sangroula**

**AWS Certified Solutions Architect – Associate**

**Professional Summary:**

* **Around 7+ years** of IT Experience on Software **DevOps, Linux and Quality Assurance** team to ensure delivery of high-quality IT solutions.
* Passionate about eliminating barriers, improving processes, reducing costs, continuous testing and empowering engineering and operation teams to execute and deliver.
* Experience in **Build and Release and** **DevOps** Engineering in Automating, Building, Deploying, and Releasing of code from one environment to another.
* Worked on **SDLC Methodologies** like **Agile, Waterfall** and other processes.
* Experience with **Continuous Integration Tool** like **Jenkins.**
* Extensively experienced in using **Build and Automation** tools like **Ant, Maven**.
* Expertise in **DevOps, Release Engineering, Configuration Management, Cloud Infrastructure, Automation.**
* Administration experience of **CyberArk vault with Safe creation**, **integration with LDAP** and other authentication methods.
* It includes **Amazon Web Services (AWS), Ant, Maven, Jenkins, Chef, SVN, GitHub, Docker, Tomcat, JBoss, and Linux etc.**
* Experience in several **AWS services EC2, VPC, S3, Cloud Watch, Auto scaling configurations** etc.
* Experience in Managing **Google Cloud and AWS** infrastructure using terraform and **CloudFormation** templates.
* Experience with **GCP** Cloud services like **cloud CDN, Cloud load balancing, Cloud Storage, Cloud Database etc.**
* Used scripting languages like **Python, Perl, Bash and configuration management tools Chef, Puppet, Ansible, Atlassian and Web Service like AWS.**
* Installed and Configured - **NFS, NIS, DNS, Mail Server and Apache Web Server** on Linux.
* Experience in setting up Baselines, Branching, Merging and Automation Processes using **Shell/bash and Batch Scripts.**
* Experience using **Nagios and Graphite monitoring system.**
* Experience in **Load balancing, DNS, SSL and firewalls**.
* Experience in **RDBMS** such as **Oracle, PL/SQL and MYSQL** by using **SQL for Data integrity**.
* Worked with different Bug Tracking Tools like **Jira, and Service now.**

**Technical Skills:**

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| **Operating Systems** | Linux (Centos/ Redhat), WINDOWS Server, Mac |
| **Version Control Tools** | SVN, Git, Git Hub, Git Lab |
| **Programming Languages** | Bash, Perl, Python, Ruby |
| **Databases** | MySQL, Oracle, Cassandra, NoSQL DB. |
| **Application/Web Servers** | WebLogic, JBoss, Tomcat, Jetty, Nginx |
| **Build Scripting Tools** | Ant, Maven, Gradle |
| **CI/ Other Tools** | Jenkins, Team City, Bamboo, TFS, Gerrit, Zabbix, Yum |
| **Infrastructure Tools** | VMware, KVM, Chef, Puppet Enterprise, Foreman, Apache Lib cloud, Google Cloud Platform (GCP), AWS |
| **Programming Languages** | C, C++, Perl scripting, Shell scripting, Groovy, Python, SQL, Java/J2EE, .Net, Ruby, Bash. |

**Professional Experience:**

**Wells Fargo, Des Moines, IA Jan 2019 –till date**

**DevOps/Cloud Engineer**

**Responsibilities:**

* Responsible for implementing AWS solutions and setting up the cloud infrastructure with different services, like **EC2, S3, VPC, ELB, AMI, EBS, RDS, Dynamo DB, Lambda, Auto Scaling, Route53, Subnets, NACL's, Cloud Front, Cloud Formation, Cloud Watch Cloud Trail, SQS and SNS.**
* Working with team on Planning, system design, coding, Change management
* Managed the **AWS Lambda Functions** configuration information based on requirements and built lambda functions using **Node.js, Python and Java.**
* Implemented **Cloud Infrastructure as a Service (IaaS)** Automation across **AWS Public Cloud using Packer & Terraform** and implemented Terraform Enterprise to Provision Infrastructure across **AWS Workloads**.
* Worked at optimizing volumes and **EC2 instances** and created multiple **VPC instances** and experience in creating alarms and notifications for **EC2 instances using Cloud Watch**
* Monitor Cloud Trail logs to Audit **EC2, EMR, S3 and other AWS resources**.
* Maintaining a Risk Management program to mitigate and manage risk.
* Demonstrating to customers that **AWS** has a system of controls in place that specifically address the privacy protection of their content.
* Implemented multiple proof of concepts on **AWS and GCP** for comparisons, the solutions that might serve as full-fledged projects for our group.
* Used terraform templates for managing **GCP and AWS infrastructure.**
* Experience in administration and maintenance of **Source Code Management (SCM)** systems such as **GIT** created tags and branches fixed merge issues and administration software repositories.
* Maintained build related scripts developed in the shell for Maven builds. Created and modified build configuration files including **POM.xml** and Responsible for Debugging and Placing Builds into Maven Repository.
* Performed **PAM Operational Tasks Defining Access Control**, **User Entitlements, Manage Applications Credentials and User Access Policy Management.**
* Strong Knowledge/experience in creating **Jenkins CI** pipelines.
* Experience in **Jenkins** to automate most of the build related tasks.
* Expertise in staging and creating **CI/CD pipelines** and Merge changes through **SDLC pipeline Jenkins** and **GO** for **Continuous Integration.**
* Automated the tasks with **Ansible Playbooks** by using **YAML functions** and migrating the servers with the required configuration changes and testing and deploying the machines using Ansible Commands.
* Used **Knife and Chef Bootstrap** processes and worked on chef server management console with proficient knowledge on all different components like chef server, nodes and workstations.
* Created **Docker** images using **Docker** files, worked on **Docker** container snapshots, removing images and managing **Docker** volumes and experienced with **Docker** container service.
* Created **Kubernetes** cluster with objects like **Pods, Deployments, Services and Config-Maps**.
* Worked on basic network administration tasks such as network connectivity troubleshooting, account management using **Active Directory** in a **Windows OS environment.**

**Environment:** **GIT, Maven, Jenkins, AWS, GCP, Terraform, GitLab, Chef, Linux, Ubuntu/Linux, Docker, Shell scripts, Python.**

**DevOps/ Cloud Engineer**

**T-Mobile - Bellevue, WA June 2017 – Dec 2018**

**Responsibilities:**

* Involved in migration of databases from on premise to **AWS RDS, Migrated the MySQL and MSSQL** database servers using **Database migration** service in **AWS.**
* Worked on **google cloud platform (GCP)** services like **compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver** monitoring and cloud deployment manager and experience in **GCP services** such as **App Engine, Compute Engine.**
* Design & implemented VPC service for extension of customer's on-premises datacenter with **AWS Cloud using AWS VPC and VPN & Direct connect services**.
* Configured the user's accounts for **Continuous Integration - Jenkins, Nexus and Sonar.**
* Setup **GCP Firewall** rules to allow or deny traffic to and from the VM's instances based on specified configuration and used **GCP cloud CDN** (content delivery network) to deliver content from **GCP** cache locations drastically improving user experience and latency.
* Responsible for build and deployment automation using **AWS, Docker, Kubernetes containers and Chef.** Focused on containerization and immutable infrastructure.
* Docker has been core to this experience, along with **Kubernetes.**
* Experienced in using **Docker Swarm** and deployed **spring boot applications.**
* Created **Ansible roles and playbooks** to configure, deploy and maintain software components of the new infrastructure.
* Used **Ansible** to manage Web applications, Environments configuration Files, Users, Mount points and Packages.
* Build and maintained **Docker** container clusters managed by **Kubernetes, Linux, Bash, GIT, Docker** on **GCP.** Utilized Kubernetes and **Docker** for the runtime environment of the **CI/CD system to Build, Test, Deploy**.
* Optimized Infrastructure by making using resources effectively and decreased cost of maintenance by **Docker.**
* Virtualized servers in **Docker** as per test environments and Dev-environments requirements and configured automation using **Docker containers**.
* Configured **Jenkins** as a common build engine to build and deploy applications to **DEV, QA, UAT and PROD environments**.
* Integrated **JIRA with subversion** and configured with **Jenkins** to automate the entire Build and release process.
* Deployed and configured **Git** repositories with branching, tagging, and notifications.
* Experienced and proficient in deploying and administering **GitHub** and used branching strategies for using **Version Control Systems** like **GIT and GitHub.**
* Experience with **Privileged Identity/access Products, Cyberark, NetIQ Identity Manager and SecureAuth**.
* Responsible for building/deploying consistently repeatable build/deployments to company production and non-production environments using **JENKINS & BUILD Pipeline like MAVEN.**
* Scripting in multiple languages on UNIX, LINUX and Windows - Python and Shell script

**Environment:** **AWS, GCP, Cloud Formation, Jenkins, Maven, Nexus, Nginx, Subversion, Maven, GitHub, Ansible, chef, Splunk, SonarQube, JIRA, Linux, WebLogic, Shell, Python, Bash, Ruby, Docker and Kubernetes.**

**Cardinal Health - Dublin, OH July 2016 - May 2017**

**DevOps Engineer**

**Responsibilities:**

* Setting up the **Ansible control machine (RHEL7)** and configured the remote host inventories via **SSH**.
* Build, deploy and migrate infrastructure to **Azure utilizing ARM** templates and some **Terraform**. Work with **VSTS** to create all-inclusive **CI/CD process.**
* Worked closely with the other development and operations team to understand complex product requirements and translated them into automated solutions.
* Involved in **AWS architectural** design to provision the **AWS resources.**
* Designed and **implemented Continuous Integration and Continuous Deployment** frameworks from code to deploy using **Jenkins.**
* Designed and implemented automated provisioning and configuration frameworks in support of **infrastructure-as-code.**
* Setting up the Server spec on the local and writing the test cases to check the configurations and impotency of the remote servers.
* Versioned the playbooks on the source code management tool **GitHub.**
* Used **Jira for tracking and ticketing.**
* Provided **POC's** to provision the **AWS infrastructure** using **Ansible playbooks** which includes checking the health status, monitoring and gathering facts about the **ec2-instances, elastic load balancers, auto scaling groups and other AWS resources**.
* Integrating Nagios with other monitoring/alert solutions **(Splunk).**
* Involved in writing the packer scripts to generate the machine images for **AWS.**
* Managed the **AWS** cost cutting by writing the Ansible playbook for auto start/stop of **AWS** resources at a particular time of the day by triggering it from Jenkins.
* Providing a test-driven development for **Ansible** by using Server spec.
* Written spec tests for checking if servers are configured correctly.

**Environment:** **GIT, GITHUB, Shell scripts, Maven, Jenkins, Ansible, Confluence, Jira, Splunk, Virtual box, Vagrant LINUX (RHEL7, CentOS), UNIX, AWS, Server Spec**

**Decision Trust Kathmandu, Nepal Mar 2013 – April 2016**

**System Admin**

**Responsibilities:**

* Experienced in supporting **Windows Cluster server** running **2-4 nodes on Windows 2000, 2003 and 2008** supporting applications like **web servers, SharePoint and Active Directory environment.**
* Worked on User administration setup, maintaining account, Monitor system performance.
* Activities includes user administration, **startup and shutdown scripts** - **crontabs**, f**ile system maintenance, backup scripting** and automation using **Perl, shell scripting (bash, ksh) for Red Hat Linux and AIX systems**.
* Performed application installation and management on **IBM AIX and Linux servers** for applications like **Web Sphere Application Server (WAS) 7, JBoss 4.2.x, 5.x, Sun JES Web Server 6.1, Oracle 10g, Sybase 12.5** etc.
* Installed and configured **SLES 9, 10 &11, Red hat 4.x, 5 on Dell Power Edge Blade** servers using **Kickstart** with **PXE for LAMP (Linux, Apache, MySQL and Perl/PHP)** installations and disaster recovery setup.
* Implemented of **VMware Infrastructure** for **Windows, SLES 11 & Linux Red hat 5.0 with VMware ESX 3.5, Virtual Center 2.5** and administered the **VMs with VI** client.
* Oversaw migration of applications from **Linux (Redhat& SUSE) to Windows2003/2008** and resolving any dependency issues after live upgrade.
* Extensive experience in installing, integrating, tuning and troubleshooting **Apache, Tomcat and Web Sphere application server and Web sphere IHS** including troubleshooting.
* Used **Logical Volume Manager** for the management of Volumes including creation of physical and logical volumes on Linux.
* Expertise in installation, configuration and administration of **Windows 2000/2003/2008 servers, Active Directory and exchange server.**
* Managed **Virtual Machine Clones and Templates**, plan and implement **VMware Fault Tolerance.**
* Extensively worked on **vSphere 4.1, 5.0, 5.1 /ESXi 4.1, 5.0, 5.1** deployment and management.
* Work with developers to integrate their web applications onto standard infrastructure.
* Installation and configuration of **Web/Application Server Tomcat and Apache.**
* Implementing appropriate permissions for files and folders and Managing Users and Groups.

**Environment:** **Red hat EL 4.x, 5.x, Windows Server 2000/2003/2008,Double-Take,BMC Blade Logic, Web Sphere Application Server 10, JBoss 4.2.x, 5.x, Sun JES Web Server 6.1,Sql, Oracle 10g, Sybase 12.5, Stellent 7.5.1, Samba 3.3.x, EMC Symmetrix DMX-3.**