

Santosh Subedi

TECHNICAL SKILLS:

Work Environments:	SDLC Agile, Scrum, Waterfall
Cloud Services:	AWS
Build Tools:	ANT, MAVEN
CI/CD:	Jenkins
Web/Application Servers:	Apache Tomcat, JBOSS, HTTP Server, WebLogic
Bug Reporting Tools:	JIRA, and Confluence.
Virtualization / Containerization:	Virtual Box, Vagrant, Docker
Version Control:	Git, Gitlab, Subversion
Logging & Monitoring:	CloudTrail, CloudWatch, Splunk, Logstash, Nagios
Configuration Management:	Ansible, Chef, Puppet, Kubernetes
Operating Systems:	Linux, Windows, UNIX
Infrastructure as Code (IaC):	CloudFormation, Terraform
Database & Storage Management:	RDS (MySQL, Aurora, Oracle PostgreSQL), DynamoDB, S3, Glacier, Redshift, EBS, EFS.

Licenses & Certifications:

AWS Certified Solutions Architect-Associate

Issued By: Amazon Web Services (AWS) Issued On: March 10, 2020

Credential ID: 2RRBWVK2MM1EQYW4 Credential URL: <http://aws.amazon.com/verification>

PROFESSIONAL EXPERIENCE:

Conduent, Austin, TX

Oct 2019 - Present

AWS DevOps Engineer

- Planned, deployed, monitored, and maintained AWS cloud infrastructure consisting of multiple EC2 Instances as required in Dev, Test, Non-production, and Production Environments.
- Created CloudFormation templates to provision various AWS resources like EC2, ELB, ASG, ENI, S3, SNS, Security Groups etc.
- Created security groups, network ACLs, Internet Gateways, Route tables and Elastic Network Interface (ENI) to ensure a secure zone for organizations in AWS public cloud.
- Created users, roles and groups using Identity Access Management (IAM) and attached the required policies
- Created monitors, alarms, and notifications for EC2 hosts using Cloud Watch.
- Worked on Multiple AWS instances, set the security groups, Elastic Load Balancer and AMIs, Auto scaling to design cost effective, fault tolerant and highly available systems.
- Created S3 buckets and managed policies for S3 buckets and utilized S3 bucket and Glacier for archival storage and backup on AWS.
- Involved in supporting cloud instances running Linux and Windows on AWS, experience with Elastic IP, Security Groups and Virtual Private Cloud in AWS.
- Utilized AWS CLI to automate backups of ephemeral data-stores to S3 buckets, EBS and create nightly AMIs for mission critical production servers as backups.
- Experience in Python programming for deployment of Java applications and implementation and automation of Shell scripts for build and release automation.
- Extensively worked on Jenkins CI/CD pipeline jobs for end-to-end automation to build, test and deliver artifacts and troubleshoot the build issue during the Jenkins build process.
- Implemented Jenkins Code Deploy plugin to deploy to AWS and used to automate the build process and deploy the application to Tomcat server.
- Automated deployment of builds to different environments using Jenkins and Ansible Playbooks.
- Managed Ansible Playbooks with Ansible roles.

- Extensive exposure to Configuration Management policies and practices with regards to SDLC; along with automation of scripting using BASH/Shell.
- Monitoring of Linux servers and applications via CloudWatch.
- Setting up SSL certificates in different environments for Java Spring boot Microservices.
- Maintained Fortify Scan and Black Duck scan reports and ensured the application code packages were not subject to vulnerability.
- Implemented AWS PaaS/FaaS services, Serverless ECS, Lambda, API Gateway, Containerization and Microservices, Lightweight architectures including JavaScript frameworks.
- Configured Logstash, Log4j and Kafka to send application Logs to Splunk.
- Wrote Ansible playbooks to manage configurations and install packages on AWS instances using Jenkins.
- Worked in implementing entire CI/CD using Groovy Scripting by writing Jenkins file.
- Implemented Continuous Integration and Continuous Delivery using Jenkins and Git, GitLab and Artifactory, Ansible Playbooks, AWS EC2.
- Performed Branching, Tagging, Release Activities on Version Control Tool GITLAB.

Environment: AWS (EC2, ELB, ASG, SNS, ENI, S3, CloudWatch, CloudFormation), IaaS, PaaS, IaC, Jenkins, GitLab, Jira, Unix/Linux, Shell Scripting, Groovy.

Green Dot, La Jolla, CA

Feb 2017 - Sep 2019

DevOps Engineer

- Planning, deploying, monitoring, and maintaining Amazon AWS cloud infrastructure consisting of multiple EC2 nodes and VMware VM's as required in the environment.
- Created CloudFormation and Terraform templates to provision various AWS resources like EC2, ELB, ASG, ENI, S3, SNS, Security Groups etc.
- Used security groups, network ACLs, Internet Gateways, NAT instances and Route tables to ensure a secure zone for organizations in AWS public cloud.
- On boarded and migrated test and staging use cases for applications to AWS cloud with public and private IP ranges to increase development productivity by reducing test-run times.
- Involved in building own PaaS with Docker; deployed various applications through Docker containers.
- Dockerized applications by creating Docker images from Docker file.
- Created monitors, alarms and notifications for EC2 hosts using Cloud Watch.
- Implemented and maintained Chef Configuration management spanning several environments in VMware and the AWS cloud.
- Working on Multiple AWS instances, set the security groups, Elastic Load Balancer and AMIs, Auto scaling to design cost effective, fault tolerant and highly available systems.
- Creating S3 buckets and managing policies for S3 buckets and Utilized S3 bucket and Glacier for Archival storage and backup on AWS.
- Worked on integrating GIT into the continuous Integration (CI) environment along with Anthill-Pro, Jenkins
- Developed automation scripting in Python (core) using Puppet to deploy and manage Java applications across Linux servers. Conducting meetings with developers and managers to resolve merge issues during build and release.
- Virtualized the servers using the Docker for the test environments and dev-environments needs. And configuration automation using Docker containers.
- Wrote Ansible playbooks with Python SSH as a wrapper to manage configurations and the test playbooks on AWS instances using Python.
- Used Splunk as a logging and monitoring tool to identify and resolve infrastructure problems before they affect critical processes and worked on Nagios Event handlers in case of automatic restart of failed applications and services.
- Well Versed with Configuring Access for inbound and outbound traffic RDS DB services, DynamoDB tables, EBS volumes to set alarms for notifications or automated actions.
- Expert Knowledge in Bash Shell Scripting, Automation of CRON Jobs.
- Implemented a GIT mirror for SVN repository, which enables users to use both GIT and SVN.

- Implemented Continuous Integration using Jenkins and GIT.
- Used Groovy scripts for CI/CD pipeline builds, and activity involved in the entire pipeline setup and Jenkins configurations.
- Developed build and deployment scripts using ANT and MAVEN as build tools in Jenkins to move from one environment to other environments.
- Configure and ensure connection to RDS database running on MySQL engines.

Environment: AWS (EC2, VPC, ELB, S3, RDS, Cloud Trail), GIT, EBS, Cloud watch, CloudFormation, Terraform, Docker, Jira, AWS CLI, AWS Auto Scaling, Unix/Linux, Groovy, Shell scripting.

DXC Technology, Tysons Corner, VA

Aug 2014 - Aug 2017

DevOps Engineer

- Experience in Software Integration, Configuration, building, automating, managing and releasing code from one environment to another environment and deploying to servers
- Involved in supporting cloud instances running Linux and Windows on AWS, experience with Elastic IP, Security Groups and Virtual Private Cloud in AWS.
- Configured a CloudWatch logs and Alarms.
- Various components of k8s cluster on AWS cloud using ubuntu 18.04 linux images.
- Setting up AWS cloud environment manually.
- Deployed and configured the DNS (Domain Name Server) manifest using CoreDNS.
- Installation and setting up kubernetes cluster on AWS manually.
- Extensive experience on configuring Amazon EC2, Amazon S3, Amazon Elastic Load Balancing IAM and Security Groups in Public and Private Subnets in VPC and other services in the AWS.
- Managed network security using Load balancer, Auto-scaling, Security groups and NACL.
- Extensively worked on Jenkins CI/CD pipeline jobs for end-to-end automation to build, test and deliver artifacts and troubleshoot the build issue during the Jenkins build process.
- Implemented Jenkins Code Deploy plugin to deploy to AWS and used to automate the build process and deploy the application to Tomcat server.
- Used Cloud Front to deliver content from AWS edge locations to users, allowing for further reduction of load on front- end servers.
- Created Docker images using a Docker file, worked on Docker container snapshots, removing images and managing Docker volumes.
- Configured Docker container for branching purposes and Implemented Docker automation solution for Continuous Integration / Continuous Delivery model.
- Created and implemented chef cookbooks for deployment and used Chef Recipes to create a Deployment directly into Amazon EC2 instances.
- Developed Chef Cookbooks to manage system configuration and for Tomcat, MySQL, Windows applications and versioned them on GIT repositories and Chef Server.
- Implemented Kafka Security Features using SSL and without Kerberos. Further with more grain-fines Security I set up Kerberos to have users and groups this will enable more advanced security features.
- Installed RedHat Linux using kick-start and applying security policies for hardening the server based on company's policies.
- Created users, roles and groups using Identity Access Management (IAM) and attached the required policies.
- Performed Branching, Tagging, Release Activities on Version Control Tool GIT (GitHub).

Environment: AWS Cloud, AWS Lambda, EC2, Puppet, GitLab CI, GitHub, RedHat Linux 5.x/6.x, Windows 2008/2012, SVN, GitHub/BitBucket, Azure, Maven, Ruby, Shell scripts, Ant, Terraform, Splunk, Nagios, Sonar, Agile, IaaS, PaaS, SaaS, PowerShell, WebLogic, Apache Tomcat, JBOSS.

F1Soft International Pvt. Ltd., Kathmandu, Nepal

Jul 2012 - Apr 2014

Build & Release Engineer

- Involved in End to End environment setup. Software installation server installation and tools installation etc.
- Managed the release process, from initial scheduling to actual release coordination through post-release support.

- Implemented Infrastructure automation through Puppet, for auto-provisioning, code deployments, software installation, and configuration updates.
- Administered and Engineered Jenkins for managing weekly Build, Test and Deploy chain, SVN/GIT with Development/Test/Production Branching Model for weekly releases.
- Automated Weekly releases with ANT/Maven scripting for Compiling Java Code, Debugging and Placing Builds into Maven Repository.
- Responsible for Set-up, administrate and maintain GitHub, Jenkins.
- Used GIT to manage all the build release source code and Jenkins for automatically build and deploy.
- Administer and configured Change and Release Management tool suite including Perforce source code, Jenkins build, Maven artifact, and perform Release to customer systems daily.
- Implemented Infrastructure automation through Puppet, for auto-provisioning, code deployments, software installation, and configuration updates.
- Coordinated with developers, Business analyst, and Managers to make sure that code is deployed in the production environment.
- Created Kubernetes deployment, statefulsets, Network policy etc
- Created Kubernetes dashboard, Network policies.
- Created metrics and monitoring reports using Prometheus and Grafana dashboards

Environment: Deploy chain, SVN/GIT, Jenkins, Maven, ANT, Deploy chain

EDUCATION:

Bachelors Degree in Business Studies (BBS), Tribhuvan University, Kathmandu, Nepal