|  |  |
| --- | --- |
| **Vikram Goswami**  **Email id :** [**goswamivikram120@gmail.com**](mailto:goswamivikram120@gmail.com)  **Phone : 913-549-1272** | **A close up of a sign  Description automatically generated** |

**Devops Engineer |** **Cloud Engineer**

*Project Scope Development | Team Collaboration | Communications*

* **8+ years** of experience in DevOps, AWS Cloud platforms and its features, designing Build process, Software Product Development, Process Automation, Build and Deployment Automation, Release Management, Packaging Quality Control, Source Code repository & Environment management, CI/CD (Continuous Integration / Continuous Deployment) process, Strong background in Linux Administration.
* Good Experience on AWS platform and its dimensions of scalability including EC2, S3, EBS, VPC, ELB, AMI, SNS, RDS, IAM, Route 53, Auto scaling, Cloud Front, Cloud Watch, Cloud Trail, Cloud Formation, OPS Work, Security Groups and Proficient in DevOps essential tools like Chef, Puppet, Ansible, Docker, Subversion (SVN), GIT, Hudson, Jenkins, Ant, Maven.
* Experienced in Writing Chef Recipes to automate build/deployment process.
* Experience in Administration/Maintenance of Source Control Management Systems such as Git, SVN.
* Managing Amazon Web Services (AWS) infrastructure with migration, automation and configuration management tools such as Chef, Ansible or custom-built.
* Expert in automation (writing Shell, & Python scripts) to monitor LINUX/UNIX production applications.
* Worked with Terraform key features such as Infrastructure as a code, Execution plans, Resource Graphs and Change Automation.
* Automated the Continuous Build process, monitored, maintained, and controlled software configurations in secured distributed environment.
* Expert with Installation of Linux OS such as RHEL 5.0/6.0/7.0, CentOS, SUSE Linux, Ubuntu, and experience in windows administering Active Directory and group policies.
* Experience in Linux Virtualization implementations such as VMware.
* Experience with automating release process using Maven, Jenkins and Jira as tools in diversified project environment.
* Installing, configuring and managing the RDBMS and NoSQL tools like MySQL, DB2, PostgreSQL and MongoDB
* Used Python, included Boto3 to supplement automation provided by Ansible and Terraform for tasks such as encrypting EBS volumes backing AMIs and scheduling Lambda functions for routine AWS tasks. Worked on Installation, Configuration and Management of RDBMS and NoSQL tools such as SQL, MySQL, PostgreSQL
* Extensive experience in web development, application development using Visual Studio.NET technologies like C#, ASP.NET MVC 5, ASP.NET, ADO.NET, XML, Web Services, WCF, and WPF.
* Experience building Micro-services and deploying them into Kubernetes cluster as well as Docker Swarm
* Creating Docker containers for managing the application life cycle. Evaluated Docker Data Center and Kubernetes for Docker Orchestration.
* Extensively worked with Jenkins for CI (Continuous Integration) and CD (Continuous Deployment) methodologies and for end to end automation for all build and deployments
* Configured and maintained Jenkins to implement the CI (continuous Integration) process for major release and integrated the tool with Ant and Maven to schedule the builds
* Build and deployment scripts using Ant and Maven as build tools in Jenkins to move into different environments and create new jobs and branches through Jenkins
* Familiar with designing and deploying container-based production clusters using Docker.
* Creating and managing user accounts, system security, change management, documents and procedures on Linux.
* Scripted internal automation via various scripting languages like Shell and Python.
* Expertise in Application deployment and environment configuration using Ansible.
* Experience in Infrastructure as a Service (IaaS) managing Amazon Web Services infrastructure with automation and configuration management i.e. Ansible.
* 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.
* Automate delivery pipeline using integration and infrastructure tools GIT, Jenkins and Ansible
* Expertise in systems performance monitoring & tuning: CPU, disk, memory and network utilization.
* Actively worked on Docker and deploying and maintaining Micro services in Dev & QA environment using Docker and Terraform.
* Used Terraform for servers/resource provisioning against AWS cloud provider and Ansible for configuration management.
* Monitored and deployed Java based applications
* Expertise in installing, configuration and administration of Tomcat.
* Experience with AWS services like EC2, VPC, S3, ELB, Route53, SES, SNS, RDS, CloudFront, Elastic Cache, Cloud Watch etc.
* Kubernetes is being used to orchestrate the Deployment, scaling and management of Docker Containers.
* Experience in writing Ansible playbooks, Chef cookbooks and Recipes to manage systems configuration
* Extensively worked on Jenkins for Continuous Integration and for End to End automation for all build and deployments.
* Extensively worked on Jenkins, Docker for continuous integration and for End to End automation for all build and deployment.
* Worked on building and deploying Java code through Jenkins
* Experience in a DevOps Environment on various technologies/applications like Azure, GCP, Puppet, CHEF, GIT, SVN, Jenkins, Docker, AWS, and ANT.
* Worked on micro-services for continuous delivery environment using Docker and Jenkins

Experience in working with continuous deployment tools like Puppet and Chef.

**Professional Experience**

**State of FL |Doral, FL OCT 2019 to PRESENT**

**AWS /Devops Engineer**

**Responsibilities:**

* Function as an Infrastructure Engineer working closely with multiple teams for automation, managed operations and cloud security.
* Responsible for keeping up multiple environments (Dev, QA, staging, production).
* Automated creation of every resource (EC2 instance, DNS entries, log groups) using Terraform and committed the code to code-commit for future reference.
* Created Palo-Alto firewalls to identify unknown malicious files, often used in targeted attacks, by directly and automatically executing them in a virtual cloud-based environment.
* Installed Nginx web servers and configured redirects.
* Wrote Ansible Playbooks using Python SSH as Wrapper for Managing Configurations of my servers, Nodes, Test Playbooks on AWS instances using Python.
* Created run-books for patching operating system of all the environments to carry out the OS patching smoothly and worked with application SME for functional testing after all the instances are patched.
* Created functions and assigned roles in AWS Lambda to run python scripts, and AWS Lambda using java to perform event driven processing
* Created PostgreSQL and Oracle databases on AWS and worked on modifying their settings like backup retention period etc.
* Ran the Nessus scan to detect the vulnerabilities before patching and after patching the servers.
* Installed and ran the Cloud Watch agent on all the instances to pull application/operational logs and stream it to Cloud Watch log groups.
* Conducted Functional testing, Regression Testing using selenium with Data-driven framework and Key- Word driven framework.
* Experience in setting up MongoDB Client and writing queries to validate data against Mongo Collections, MySQL
* Installed, configured and managed MongoDB servers and performance tuning of Mongo Databases
* Created Cloud Watch alerts to notify support team in the event of high CPU utilization, high diskspace utilization, high network utilization etc.
* Build Jenkins jobs to create AWS infrastructure from GitHub repos containing Terraform code and administered/engineered Jenkins for managing weekly builds
* Utilized Kubernetes and Docker for runtime environment of the CI/CD system to build, test and deploy.
* Container management using Docker by writing Docker files and set up the automated build on Docker HUB, installed and configured Kubernetes.
* Created AWS Config to track resources inventory and configuration changes.
* Integrated AWS infrastructure with Red Lock to alert/notify support team if any of the resources are non-compliant with CIS, HIPPA & NIST standards.
* Implemented Security groups in the infrastructure. Worked with different application SME’s to understand what ports are required for application to work.
* Worked with Security Information and event management team (SIEM) and integrated the infrastructure with QRadar to seamlessly ship all the logs.
* Implemented Action class in selenium to handle mouse and keyboard actions.
* Expertise in exporting JUNIT scripts from Selenium IDE to Eclipse JUNIT Test Suites, creating new JUNIT test cases, modifying the selenese scripts and writing test suites using JUNIT.
* Designed, deployed and maintained AWS virtual private cloud (VPC) infrastructure.
* Audit existing AWS security rules and propose changes to enhance infrastructure security.
* Worked with audit team and created artifacts, run-books and POAMs for CIS and NIST Audit controls.
* Responsible for integrating AWS logging components (CloudTrail, CloudWatch) with IBM QRadar.
* Setup and built AWS infrastructure various resources, VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in Cloud Formation JSON templates.
* Configured auto scaling in customized VPC, based on elastic load balancer (ELB) traffic and using ELB health check to trigger auto scaling actions.
* Experience in handling Pop-ups with Selenium using Alert methods. Experience in handling multiple windows in selenium using get window handles method.
* Building/Maintaining Docker Container clusters managed by Kubernetes, Linux, Bash, GIT, Docker.
* Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test and deploy.
* Used Terraform as Infrastructure as a code to build the infrastructure on AWS.
* Migrated present Linux environment to AWS by creating and executing a migration plan, deployed EC2 instances in VPC, configured security groups & NACL's, attached profiles and roles using AWS Cloud Formation templates and Ansible modules. Using Chef, deployed and configured Elastic search, Logstash and Kibana (ELK) for log analytics, full text search, application monitoring in integration with AWS Lambda and Cloud Watch.
* Deployed and maintained production environment using AWS EC2 instances and Elastic Container Services with Docker.
* Worked with various teams to support and optimize the AWS cloud infrastructure for production, staging and development environments, troubleshoot performance issues, and resolve production incidents. Launching Amazon EC2 Cloud Instances using Amazon Images (Linux/ Ubuntu) and configuring launched instances with respect to specific applications.
* Worked with DB Admins supporting DB2, PostgreSQL and MongoDB databases and work closely to escalate and troubleshoot any DB
* Used MySQL, Dynamo DB and Elasticache to perform basic database administration. Build out server automation with Continuous Integration - Continuous Deployment tools like Jenkins for deployment and build management system.
* Implemented the Design and develop of Microsoft AZURE based application (Iaas and Paas) on private cloud and mentor team.
* Involved in container management using Docker by writing Docker files and enforced setting up the automated build on Docker HUB and worked on Docker container snapshots, removing images and managing Docker volumes.
* Written deployment scripts in Shell and Ruby including shell script in Jenkins jobs to do pre and post build operations.
* Used Jenkins and pipelines to drive all micro services builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes.
* Expert Knowledge in Bash Shell Scripting, Automation of cron Jobs.
* Implemented Continuous integration and Continuous Delivery process using Git/SVN, Jenkins, Maven, Chef and Rundeck.
* Used Jenkins pipelines to drive all micro services builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes.
* Built scalable Docker infrastructure for Micro services utilizing ECS - AWS Elastic Container service by creating task definition json file.
* Implemented a Continuous Delivery pipeline with Docker, Jenkins and GitHub and AWS AMI's, whenever a new GitHub branch gets started, Jenkins, our Continuous Integration server, automatically attempts to build a new AWS ECS / Docker container from it, The Docker container leverages Linux containers and has the AMI baked in. Converted our staging and Production environment from a handful AMI's to a single bare metal host running Docker.
* Worked on Docker container snapshots, attaching to a running container, removing images, managing directory structures and managing containers in AWS ECS.
* Kubernetes architecture: node, kubelet manages pods, their containers, images, volumes, network etc. kube-proxy is a simple network proxy and load balancer responsible for reflecting services on the nodes.
* Experience in creating Task definitions, which specifies the tasks, Resource allocation (Fargate), services and docker image on which application is built for Elastic Container Service and ALB.
* Developed micro service on boarding tools leveraging Python and Jenkins allowing for easy creation and maintenance of build jobs and Kubernetes deploy and services.
* Worked on google cloud platform (GCP) services like compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring and cloud deployment manager.
* Involved in Architect, build and maintain Highly Available secure multi-zone AWS cloud infrastructure utilizing Chef with AWS Cloud Formation and Jenkins for continuous integration.
* Written some Templates for AWS infrastructure as a code using Terraform to build staging and production environments and automated infrastructure provisioning occasionally with Terraform and Packer in place of Chef and even automated the image build process using Packer.
* Designed and built Azure V2 network infrastructure including Site to Site connection through.
* Experience in dealing with Windows Azure IaaS - Virtual Networks, Virtual Machines, Cloud Services, Resource Groups, Express Route, VPN, Load Balancing, Application Gateways, Auto-Scaling, and Traffic Manager.
* 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.
* Used Jenkins for enterprise scale infrastructure configuration and application deployments into artifactory.
* Major focus on Configuration, SCM, Build/Release Management, Infrastructure as a code (IAC) and as Azure DevOps operations Production and cross platform environments.
* Experience in assigning the azure services on locations specific to integrate with web-apps and key-vaults.
* Deployed and designed pipelines through Azure data factory and debugged the process for errors.
* Deployed Active Directory domain controllers to Microsoft Azure using Azure VPN gateway.
* Implemented maven plug in through Jenkins jobs for deploying the artifacts to artifactory.
* Involved in the centralized logging and monitoring stack of Elastic search, Log stash, and Kibana to build real time monitoring dashboards to ensure high availability of the Cloud Control Plane.
* Used Nagios as a 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.
* Using Terraform as a tool, Managed different infrastructure resources Cloud, Docker containers and build the lambda function and variable files.

**tsys | Clearwater, fl Dec 2017 - sep 2019**

**AWS/ Devops Engineer**

**Responsibilities:**

* Migrated the current Linux environment to AWS Linux environment and used auto scaling feature and Involved in Remediation and patching of Linux Servers.
* Provided documentation of solutions for VMWare, Windows, Linux and AWS teams.
* Designed and deployed AWS solutions using EC2, S3, RDS, EBS, Elastic load Balancer (ELB), Auto-scaling groups, Opsworks.
* Managed AWS infrastructure provisioning (S3, ELB, EC2, RDS, Route 53, IAM, security groups - CIDR's, VPC, NAT) and deployment and EC2 Installs with CentOS, Ubuntu and RHEL 6.
* Expertise in Amazon AWS Cloud Administration which includes services: EC2, CloudWatch, S3, EBS, VPC, RDS, ELB, Route 53, SNS, SQS, Lambda, DynamoDB, Auto Scaling, Security Groups, ECS, Kinesis, RedShift and CloudFormation.
* Experienced in Automating, configuring and deploying instances on AWS and Data centres.
* Experience with system analysis, troubleshooting and performance tuning of operating systems.
* Worked on AWS EC2 Instances creation, setting up AWS VPC, launching AWS EC2 instances different kind of private and public subnets based on the requirements for each of the applications.
* Installation and configuration of web hosting administration such as APACHE, TOMCAT and LDAP.
* Responsible for CI/CD pipelines process implementation using Jenkins.
* Configured and maintained Jenkins to implement the CI process and integrated the tool with ANT and Maven to schedule the builds of deployable artifacts (jar, war & ear) from source code.
* Working knowledge of branching and merging code lines in the GIT and resolved all the conflicts raised during merges.
* Experience in working with version control systems like Subversion, clear case, Perforce, GIT and used source code management tools like SVN, GitHub.
* Created and managed a Docker deployment pipeline for custom application images in the cloud using Jenkins.
* Rendered solid technical expertise in Software Development Life Cycle and core Java technologies to develop applications based on specific client requirements.
* Developed highly interactive and customized UIs using JavaScript, HTML, JSP, and CSS to improve functionality of web applications.
* Written watcher alerts based on required scenarios.
* Developed APIs for integration with various data sources.
* Implemented cloud-based integrations with elastic.
* Build visualization and Dashboards using kibana.
* Manage regular changes in priority due to customer priority changes.
* Written the Grok pattern in logstash.
* Integrated Amazon CloudWatch with AmazonEC2 instances for monitoring the log files, store them and track metrics.
* Configured the load balancers and VPC with private subnets and had a good experience on troubleshooting for the connectivity issues.
* Configured S3 to host static website and deployed cloud stack using AWS Opswork.
* Worked on Spring Cloud Config, Pivotal cloud foundry and AWS SQS to deploy NodeJS application to cloud.
* Managing and optimize the Continuous Integration using Jenkins and troubleshoot the deployment build issues using the trigged logs.
* Built Jenkins jobs to create AWS infrastructure from GitHub repos containing terraform code.
* Installed and administered Docker and worked with Docker for convenient environment setup for development and testing.
* Used the JIRA, Confluence for bug tracking, creating the dashboard for issues.

**Flipkart | bangalore, in JULY 2013 – nov 2017**

**AWS Cloud Engineer**

**Responsibilities:**

* Consulted and recommended client in Build and Release Management Implementation.
* Used SCM/Build tools for Developers. Helping to resolve all SCM/Builds issues like merge conflicts, compilation errors, missing dependencies, Branching/Merging/Tagging.
* Involved working with a PaaS solution such as RedHat OpenShift.
* Created and maintained the Power Shell scripts and Perl scripts deployment scripts for Tomcat application servers.
* Used Git for source code version control and integrated with Jenkins for CI/CD pipeline, code quality tracking and user management with build tools Maven.
* Worked on authoring pom.xml fil es, performing releases with the Maven release plugin, and managing artifacts in maven internal repository.
* Set up Jenkins server and build jobs to provide continuous automated builds based on polling the Git source control system during the day and periodic scheduled build overnight to support development needs using Jenkins, Selenium and Maven.
* Performed unit testing of applications by developing and applying test cases in JUnit
* Worked in an Agile development team to deliver an end to end continuous integration/continuous delivery (CI/CD) product in an open source environment using tools like Puppet, Jenkins.
* Experience in writing Puppet manifests and modules to automate the deployment process and to integrating Puppet manifests into Jenkins jobs for a continuous delivery (CD) framework.
* Implemented a CD framework that automates the software delivery process from the point of source code check in to deployment onto Application servers.
* Worked in managing VMs in Amazon using AWS EC2 and maintaining the build artifact backups and moved to Amazon S3.
* Expert level experience working on Docker hub, creating Docker images and handling multiple images primarily for middleware installations and domain configuration.
* Wrote new plugins in Nagios to monitor resources.
* Monitored Application and Servers through Nagios, Web Servers Administration on Apache and Nginx.
* Maintain Elasticsearch-1.4.3 to support Sugar CRM Data Base.
* Separate Java URL’s Data from Elasticsearch-1.4.3 Cluster and transfer to Elasticsearch-5.6.4 cluster Using logstash, Kafka. working with development and QA teams to design Ingestion Pipelines, Integration APIs, and provide Elastic Search tuning/optimizing based on our application needs.
* Used Elasticsearch for powering not only Search but using ELK stack for logging and monitoring our systems end to end Using Beats.
* Responsible to designing and deploying new ELK clusters (Elasticsearch, logstash, Kibana, beats, Kafka, zookeeper etc.
* Proactively monitoring performance.

**Additional Credentials**

|  |  |
| --- | --- |
| **Technical Skills** | EC2 / ALB / ASG / S3 / EBS / EFS / CloudWatch / CloudTrail / RDS / CloudFormation / GIT / Jenkins / JIRA / Puppet / Gradle / Maven / VPC / AWSOpswork / VMWare / CI/CD Pipeline / Selenium / Chef / Nginx / Tomcat / Nagios / LDAP / Maven / Ant / SVN / IAM / ECS / Snowball / PostgreSQL / MongoDB / Aurora |
| **CONTAINER & ORCHESTRATION**  **CONFIGURATION MANAGEMENT** | Docker / Docker Swarm / Kubernetes / ECS  Ansible / Ansible Playbook / Ansible Tower / Terraform |
| **Professional Development** | **A close up of a logo  Description automatically generated**[AWS- Certified Solution Architect – Associate](https://www.certmetrics.com/amazon/public/badge.aspx?i=1&t=c&d=2019-07-25&ci=AWS00947225) |