Gouse basha

gousebashanoorbasha@gmail.com

940 373 2312

Sr. DevOps Engineer

**Professional Summary:**

* Having 8+ years of IT Industry Experience in Linux Administration, Configuration, Management, Continuous Integration, Continuous Deployment and Cloud Implementations.
* Over 2 years of experience in core AWS services (S3, EC2, ELB, EBS, Route53, IGW, VPC, Auto scaling etc.) and deployment services (Elastic Beanstalk, Ops Works and Cloud Formation) and security practices (IAM, Cloud watch and Cloud trail).
* Experience in Implementing Organization DevOps architecting and automating in various environment of Linux and windows servers along with adopting cloud strategies based on Amazon Web Services.
* Managed Linux and Windows virtual servers on AWS EC2 using Chef Server. Configured and monitored distributed and multi-platform servers using chef, defining Chef Server and workstation to manage and configure nodes. Developed Chef Cookbooks to manage systems configuration.
* Experience in managing Private Cloud and Hybrid cloud configurations, patterns, and practices in Windows Azure and SQL Azures and in Azure Web and Database deployments.
* Experience maintaining CI environments with build automation tools like Jenkins, Bamboo and TFS.
* Extensively used Jenkins to streamline CI/CD process, automated and architect several Master-Slave configurations using temporary slaves.
* Designed and Architected Cloud architectures for customers looking to migrate or develop new PaaS, IaaS, or hybrid solutions utilizing Microsoft Azure or Amazon Web Services (AWS).
* Experience with Configuration Management tools (Puppet, Chef and Ansible).
* Designed Rapid deployment method using Ansible to auto deploy servers as needed.
* Built a new CI pipeline. Testing and deployment automation with Docker, Jenkins, and Ansible.
* Experience in developing and implementing infrastructure as code, automated provisioning and configuring using Chef, Puppet and Ansible.
* Experience in DevOps Engineering in automating, building and deploying of code within different environments.
* Experience in Amazon EC2 setting up instances, VPCs, and security groups.
* Experience in managing AWS VPC (Virtual Private Cloud) environment with around 200+ Linux and Ubuntu instances.
* Implemented Spring boot microservices to process the messages into the Kafka cluster setup.
* Familiar with TCP/IP, HTTP, JavaScript, Web Services (RESTful), big data (e.g. HADOOP), caching mechanism, Load Balancing, multi-data center architecture.
* Installation of Web components like IIS 7.5, Apache Tomcat Servers, FAST Application Stack on the Windows 2008/ UNIX environments.
* Experience in analyzing the IIS logs to collect information about server events, server performance, and user activity.
* Monitoring Production operations like administration, configuring Hadoop, Debugging and Performance analysis.
* Worked on installation and migrating of MongoDB collections to new DynamoDB tables.
* Worked on creating various types of indexes on different collections to get good performance in Mongo database.
* Strong experience in analyzing chunk migrations, splitting and balancing across the cluster.
* Setting up databases in AWS using RDS, storage using S3 buckets and configuring instance backups to S3 bucket.
* Experience in Virtualization technologies like VMware, Vagrant and worked with containerizing applications like Docker, Kubernetes.
* Experience with container-based deployments using Docker, working with Docker images, Docker Hub and Docker registries and Kubernetes
* Extensive experience in working with Oracle, WebLogic, Apache Tomcat application servers.
* Expertise in implementing applications using, shell scripting and UNIX.
* Domain expertise includes, system developments using Core Java& J2EE Technologies such as JDBC, XML, ANT, Maven.
* Well Versed in developing applications using Struts, JSF, spring and hibernate.
* Used Spring Core Annotations for Dependency Injection Spring DI and Spring MVC for REST API s and Spring Boot for microservices.
* Experience in creating Docker images, Containers, push/pull and integrating with Spring Boot.
* Experience in handling messaging services using Apache Kafka, JMS and RabbitMQ.
* Experience in J2EE Application Development using Web/Application Server like IBM WebSphere, JBOSS Server and Apache Tomcat Server and Oracle Web logic.
* Experience in maintaining and executing build scripts to automate development and production builds.
* Experience in application development, debugging, implementation, supporting dev team, testing of Oracle based ERP using SQL and Database Triggers.
* Point in time Backup and recovery in MongoDB using onsite MMS
* Knowledge of databases like MySQL, Oracle, MongoDB, DynamoDB and Cassandra.
* Developed background process infrastructure on top of Windows Azure Queue.
* Knowledge of testing Web based applications, Mainframe applications, Mobile application and Web based service applications.
* Familiar in building a command line tool to interact with RESTful API using in Golang.
* Installed and created an automation interface between the mainframe and client servers.
* Preparation of Technical designs, Unit test plan & construct code as per technical /functional specifications on mainframe technology and setting up test environments.

**Technical Skills:**

|  |  |
| --- | --- |
| Cloud Services | Azure AKS, Amazon EKS, Mirantis, Rancher,Openshift |
| Automation Frameworks | Terraform, Anible, Docker, Puppet, Chef, .NET Frameworks, and Vagrant. |
| Build Tools | Jenkins,Apache Maven and Apache Ant and Gradle. |
| Scripting | PERL, BASH, Python, JavaScript, spring framework (SQL, PL/SQL, Shell/Bash scripting, Golang, Core Java |
| Database & Servers | Cassandra, HBase DynamoDB, MongoDB,DB Maestro, Redshift, Oracle, MS SQL Server 2012, MySQL |
| Operation Systems | Linux, Solaris, Microsoft Windows. |
| Web Servers | Apache Tomcat, JBOSS, WEBrick |
| J2EE Technologies | JSP, Servlets, JMS, Web Services, Kafka, ActiveMQ |

**Professional Experience:**

**CVS Health-woonsocket RI May 2022 – Till date**

**Devops Engineer**

**Responsibilities:**

* DevOps and Agile Delivery and SLC methodologies adjusted for container service delivery and integration with Abbott DevOps organizations.
* Software life cycle methodology that we follow in order to test, release, deploy, monitor and maintain applications.
* Develops automation related to containers and Kubernetes environments, and provides top level support of IT solutions aligned with customer’s business objectives and other infrastructure technology disciplines within BTS-IS.
* Automation of Linux based application using ingress services and deploying it to Kubernates.
* Deploying and managing many servers utilizing both traditional and cloud-oriented providers (AWS) with the Chef Platform configuration system.
* Implemented a 'server less' architecture using API Gateway, Lambda, and Dynamo DB and deployed AWS Lambda code from Amazon S3 buckets. Created a Lambda Deployment function, and configured it to receive events from your S3 bucket.
* Designed highly available, cost effective and fault tolerant systems using multiple EC2 instances, Auto Scaling, Elastic Load Balance and AMIs.
* Setup and build AWS infrastructure various resources like VPC, EC2, S3, IAM, EBS, Security Group, Auto Scaling and RDS in CloudFormation JSON templates and Terraform.
* Developed build and deployment scripts using MAVEN as build tool in Jenkins to move from one environment to other environments.
* Created AWS Multi-Factor Authentication (MFA) for instance RDP/SSH logon, worked with teams to lockdown security groups .
* Wrote Python scripts to manage AWS resources from API calls using BOTO SDK and also worked with AWS CLI.
* Responsible for Continuous Integration (CI) and Continuous Delivery (CD) process and implemented CI CD process using Jenkins along with Shell scripts to automate routine jobs.
* Configured and maintained user accounts for Dev, QA, and production teams and created roles for EC2, RDS, S3, Cloud Watch, EBS resources to communicate with each other using IAM.
* Designed the data models to be used in data intensive AWS Lambda applications which are aimed to do complex analysis creating analytical reports for end-to-end traceability, lineage, definition of Key Business elements from Aurora.
* Created automated pipelines in AWS  Code Pipeline  to deploy Docker containers in AWS ECS using services like CloudFormation , Terraform, Code Build , Code Deploy , S3 and puppet .
* Integrate shell scripts in Jenkins pipeline and automate the JVM’s (Java virtual machine), fetching logs and applications.
* Provides self-service capabilities to application and container teams.
* Automate container operations tasks including backups and patching.
* Automation of various windows applications using Docker Swarm and deploy to Kubernates.
* Using PowerShell, we configure the automated patching for SQL server in Azure Portal.
* Drives and aligns innovative enterprise-wide container solutions across Abbott IT, business management, enterprise vendors, and internal support organizations.
* Work with Proof of concepts for implementing CI/CD pipeline, Jenkins in the current infrastructure
* Integrate the python scripts with the Jenkins, to deploy the Jenkin jobs.
* Set up the Docker engine in the cloud EC2 instances, a and create Docker containers to build, ship and run the images to deploy the applications.
* Executed a Kubernetes POC (proof of concept) to demonstrate the viability of container orchestration
* Extensively worked on Jenkins by installing, configuring and maintaining continuous integration(CI) and for End to End automation for all build and deployments.
* Responsible for compliance to applicable Corporate and Divisional Policies and procedures.
* Serve as a technical contributor to Containers/Kubernetes team, and discover uses within Abbott.
* Create develop and test environments of different applications by provisioning Kubernetes clusters on AWS using Docker and Terraform.
* Work on creation of Amazon EC2 Cloud Instances using Amazon web services (Linux/ Ubuntu) and configuring launched instances with respect to specific applications.
* Set up the Docker engine in the cloud EC2 instances, an and create Docker containers to build, ship and run the images to deploy the applications.
* Recommend new software, utilities and tools related to container-as-a-service strategy.
* Implement application performance loading test performance tools using industry leading tool-chain.
* Work on several Docker components like Docker Engine, Docker-Hub, Docker-Compose, Docker Registry and Docker Swarm to build the application containers.
* Responsible for collaborating with the application owners and ensuring in getting clarifications on the final requirements before creating on- premise/cloud containers.

**Environment:** UNIX, SVN, Java, AWS, PERL, EC2 ,Web logic Application Server, Lambda, Kubernetes, Nexus, Autosys, Chef, Jenkins, Sonar, JIRA, Linux, Shell, WLST, Python, Maven.

**CAPITAL ONE, PLANO, TX Oct 2020 – April 2022**

**Devops/Automation Engineer**

**Responsibilities:**

* Expertise in writing Ansible Playbooks, modules and roles. Utilized Ansible for configuration management of hosted Instances within AWS.
* Extensively worked on Jenkins for continuous integration from pulling up the code from version control tools like GIT, SVN, CVS, IBM Clear Case and building Artifacts using build tools like Ant, Maven and Gradle. And deploying them into artifact repositories like Nexus and Maven.
* Automating the CICD pipelines using Azure DevOps Pipelines, Jenkins Pipelines and Octopus tools, configured TFS builds and Jira dashboards to automate the builds and Deployments for different environments like Training, SEC, INT, QA, MOCK, OS, and Production.
* Configured the SonarQube, Nexus, Coverity, Black Duck for Code vulnerabilities and code analysis.
* Writing the PowerShell scripts for automating the windows services and scheduling the task and automating through Jenkins and Azure Pipelines.
* Provisioned the highly available EC2 Instances using Terraform and cloud formation and wrote new plugins to support new functionality in Terraform.
* Setup and build AWS infrastructure various resources, VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling, IGW and RDS in Cloud Formation JSON templates.
* Proficient in writing AWS Cloud Formation templates to create custom sized VPC, subnets, NAT, EC2 instances, ELB's and Security groups.
* Knowledge on Kafka to build real-time data pipelines and to transform the data.
* Used Microservice architecture with Spring Boot based services interacting through REST.
* Involved in defining, developing, and maintaining an Application Release Road map over different environments to facilitate an agile development process which is automated and repeatable enabling teams to safely deploy code many times a day while ensuring operational best practices are supported.
* Configuration of certain IIS related settings are coded into the web.config file as part of the Web configurator utility effort.
* Managing Webservers and Troubleshooting the .NET applications thru Advanced IIS tracing techniques.
* Implemented Infrastructure automation through Ansible, for Auto provisioning, Code deployments, software installation and configuration updates.
* Managed Code Repository by, maintaining code repository in GIT, Improve practices of branching and code merge to custom needs of development team.
* Develop the Jinja2 templates and pushed into Artifactory to deploy on servers using automation tool Ansible.
* Responsible for developing the automated scripts, promote the scripts to various environments, functionally Test to specifications, coordinate with development team and architect per the plan.
* Used Ansible to configure and manage infrastructure, created Playbooks to automate the configuration setups, Established Ansible Best practices approaches to system deployment with tools with Vagrant and managing Ansible Playbooks as a unit of software deployment and independently version controlled.
* 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.
* Implementing or exposing the Micro service architecture with Spring Boot based services interacting through a combination of REST and Apache Kafka message brokers.
* Implemented Kafka producer and consumer applications on Kafka cluster setup with help of Zookeeper.
* Expert in creating modular roles for Ansible modules which can be reusable to automate the deployment without errors.
* Managed Amazon Web Services (AWS) infrastructure with automation and configuration management tools such as Ansible.
* 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.
* Use CloudWatch to keep track of servers.
* Maintain GIT Repositories, Handled Releases and Branching activities for GIT.
* Used Ansible-Vault to Encrypt and Decrypt the file and Deployed on Client servers using AWX.
* Automated couple of workflows using PowerShell. Involved in writing background jobs using PowerShell.
* Deploy the packages and install the applications using the AWX as ansible tower in multiple servers at a time and troubleshoot immediately.
* Manage and migrate physical servers (Linux, Windows) to Cloud and VMware such as AWS, Docker and ensure they operate properly.
* Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test and deploy.
* Support designing and dev. groups with onboarding/sending cloud, virtualized administrations/or potentially empowering automation.
* Coordinate with Architects and Project Manager for the Build, Release and Operations of the Projects to maintain typical requirements.
* Experience in managing MongoDB environment from availability, performance and scalability perspectives.
* Worked on Software Development Life Cycle (SDLC) methodologies such as Agile and SCRUM.
* Develop and support the software Release Management and procedures.

**Environment:** Ansible, VMware, Putty, Mobaxterm, Linux Server RHEL-6,7, windows 2012R, Windows 2016, Power shell, GIT, Chocolatey Packages, RPM packages, AWS, AWX, MYSQL, App Engine,.Net, c#, Docker, Apache Tomcat.

**Kaiser Permanente, Pleasanton, CA Nov 2019 – Sep 2020**

**Cloud/DevOps Engineer**

**Responsibilities:**

* Manage all aspects of the end to end Build/Release/Deployment process for multi Project
* Was a part of DR exercise and actively involved in creating replica in another AWS AZ’s.
* Design EC2 instance architecture to meet high availability application architecture, deploying, configuring, managing servers in AWS, created monitors, alarms and notifications for EC2 hosts using Cloud Watch.
* Support, troubleshooting, problem resolution for the developed Cloud Formation scripts to build on demand EC2 instance formation.
* Continuous deployment, integration, and promoting Enterprise Solution deployment assets to target environments.
* Use Amazon RDS MySQL to perform basic database administration, set up DynamoDB for NoSQL data for other teams on lightweight Docker containers with elastic search and quick indexing.
* Migrating Services from On-premises to Azure Cloud Environments, collaborating with development and QA teams to maintain high-quality deployment.
* Designed and implemented by configuring Topics in new Kafka cluster in all environments.
* Wrote Kafka producers to stream the data from external rest APIs to Kafka topics.
* Worked on Continuous Integration CI/Continuous Delivery (CD) pipeline for Azure Cloud Services using chef.
* Worked on configuring Azure web apps, Azure App services, Azure Application insights, Azure Application gateway, Azure DNS, Azure Traffic manager, App services, Analyzing Azure Networks with Azure Network Watcher, Implementing Azure Site Recovery, Azure stack, Azure Backup and Azure Automation.
* Utilized Puppet for configuration management of hosted Instances within AWS.
* Elastic and F5 Load Balancer, and DNS services with amazon Route 53.
* Implementing a Continuous Delivery framework using Jenkins in Windows & Linux environment.
* Set-up and maintain fully automated CI/CD pipeline for multiple Java using Git, Jenkins, Puppet / Chef.
* Optimized volumes and EC2 instances & created multi AZ VPC instance
* Installation configuration and administration of MongoDB databases
* Used IAM to create new accounts, roles and groups
* Automation of Redshift, EC2, RDS, Elastic Cache.
* Provide highly durable and available data by using S3 data store, versioning, lifecycle policies, and create AMIs for mission critical production servers for backup.
* Used Chef to configure and manage infrastructure. Written cookbooks to automate the configuration setups.
* Implemented Branching strategies using Git and responsible for creating branches and resolving the conflicts while merging in Git and performed migration setup from SVN to Git using bit buckets.
* Installed and configured Nexus for artifacts repository. Published snapshot and release versioned artifacts into Nexus repository.
* Ability to create scripts using Azure PowerShell during for automation and build process.
* Worked with Ansible (automation tool) to automate the process of deploying/testing the new builds in each environment, setting up a new node and configuring machines/servers.
* Wrote Ansible Playbooks with Python SSH as the Wrapper to Manage Configurations of AWS Nodes and Test Playbooks on AWS instances using Python. Run Ansible Scripts to provision Dev servers.
* Configured the Ansible playbooks with Ansible Tower so that other users can run them with just a push of a button.
* Experience in developing Chef cookbooks is and recipes from scratch and coding to manage system configuration.
* Experience in implementing Chef and Docker and used Chef Server and workstation to manage and configure nodes.
* Work on AWS Ops Works in integration with Chef Configuration management tool to maintain infrastructure.
* Responsible for implementation and coordination of the automated testing tool - Certify for the regression testing of the renewal cycles, batch jobs and various screens in the mainframe system.
* Created framework from scratch for TS2/TSYS (TSYS provides payment processing and is Mainframe application), PACER (Public Access to Court Electronic Record) and RECAP application with Ruby Cucumber.
* Preparation of Technical designs, Unit test plan & construct code as per technical /functional specifications on mainframe technology and setting up test environments.

**Environment:** AWS (IAM, EC2, S3, EBS, Glacier, ELB, CloudFormation, CloudWatch, CloudTrail, SNS, SQS, Route S3, RDS), Git, Chef, Splunk, Bash, Shell, Dynamo DB, RHEL 4/5/6, CentOS, Apache Tomcat, ActiveMQ.

**Altranics IT Solutions Private Ltd-India Aug 2016 – March 2019**

**DevOps Consultant**

**Responsibilities:**

* Installation of Oracle on Linux and Solaris, creating database, creating Oracle users etc.
* Worked on User administration setup, maintaining account, monitor system performance using Nagios and Tivoli.
* Involved in installing Puppet client on Red hat & Solaris servers for Automation purpose.
* Monitoring day-to-day administration and maintenance operations of the company network and systems working on Linux and Solaris Systems.
* Involved in developing custom scripts using Python, Perl & Shell (bash, ksh) to automate jobs.
* Merged generated reports as per request, formatted data into required format using UNIX Shell Scripts, SED and Awk.
* Developed build and Deployment Scripts using ANT and Maven as build tools in Jenkins to move from one environment to other environments.
* Developed Continuous Integration, Nightly and On-demand build system from scratch with Jenkins, ANT, and Maven.
* Expert in installing and configuring Continuous Integration tools such as Jenkins for build and deployment automation.
* Set-up the Chef servers, Chef Workstations, Chef Nodes and involved in bootstrapping new infrastructure Chef Nodes for software configurations management.
* Configured multiple cookbooks, recipes, templates and attributes on workstations to be deployed to various Chef Nodes.
* Involved in Chef-infra maintenance including backup/security fix on Chef Server.
* Defined and Developed plan for Problem & Incident management Process based on ITIL.
* Networking protocols such as TCP/IP, Telnet, FTP, NDM, SSH, rlogin.
* Security auditing using Korn programming. Shell Programming for day to day system administration.
* Worked on the administration of the WebLogic, JBoss servers including installation and deployments.
* Used Python programming in Linux platform to design the front-end portion of the plug-in.
* Integrating UNIX file systems using packages like SAMBA. Installation and configuration of Oracle 8/9i database on Sun Solaris Servers.
* Integration of Linux/Solaris with Active Directory (LDAP).
* Production support of Apache, PHP, My SQL, Tomcat including installation, configuration, management and troubleshooting. Done security patching.
* Installation and configuration of Veritas Storage Foundation Suite, Volume Manager, Cluster Servers & Veritas File systems (Vxfs).
* Used Python programming in Linux platform to design the front-end portion of the plug-in.
* Written shell scripts and Perl scripting to take backup oracle database.

**Environment:** Java/J2ee, Eclipse, Chef, AWS (Amazon Web Services) Ant, Maven, Subversion, SVN, GIT, Python, Ruby, Nexus, Sonar, UCD, Jenkins, PERL, BASH, Solaris, UNIX.

**Sutherland IT Services, Hyderabad, IND Aug 2014 – July 2016**

**Site Reliability Engineer/DevOps Engineer**

**Responsibilities:**

* Configured an AWS Virtual Private Cloud (VPC) and Database Subnet Group for isolation of resources within the Amazon RDS Aurora DB cluster.
* Build scripts using ANT and MAVEN build tools in Jenkins to move from one environment to other environments.
* Supported and created Cloud Architectures for Security, Infrastructure, Data with delivery teams working primarily within an Agile Scrum methodology.
* Created scripts in Python which integrated with Amazon API to control instance operations.
* Designed AWS CloudFormation and Terraform templates to create custom sized VPC, subnets, NAT, NACL, Security groups to ensure successful deployment of Web applications and database templates.
* Involved in maintaining the user accounts (IAM), RDS, Route 53, VPC, RDB, DynamoDB, SES, SQS and SNS services in AWS cloud.
* Designed the project workflows/pipelines using Jenkins and Code Pipeline for Continuous Integration and deployment into different Web/Application Servers.
* Built and deployed Jenkins jobs to create AWS infrastructure from GitHub repos containing Terraform code for various environments.
* Designed the data models to be used in data intensive AWS Lambda applications which are aimed to do complex analysis creating analytical reports for end-to-end traceability, lineage, definition of Key Business elements from Aurora.
* Performed troubleshooting, fixed, and deployed many Python bug fixes of the two main applications that were a main source of data for both customers and internal customer service team.
* Worked extensively with AWS services like EC2, S3, VPC, ELB, Autoscaling Groups, Route 53, IAM, CloudTrail, CloudWatch, CloudFormation, CloudFront, SNS, and RDS.
* DevOps role converting existing AWS infrastructure to Server-less architecture (AWS Lambda, Kinesis) deployed via CloudFormation .
* Included security groups , network ACLs , Internet Gateways , and Elastic IP's to ensure a safe area for organization in  AWS  public cloud.
* Deployed Word Press, RDS Instance, Database and EC2 Instances via CloudFormation and Terraform.
* Responsible for Continuous Integration (CI) and Continuous Delivery (CD) process.
* Implemented Terraform modules for deployment of various applications across multiple Cloud providers and managing infrastructure.

**Environment:** Subversion, Team City, Apache Tomcat, Java/J2EE, ANT, Shell Scripts, MAVEN, Hudson, UNIX, LINUX, Solaris.