Passionate Aws DevOps Engineer with overall 8+ Years of experience in IT industry especially Cloud services like AWS & GCP & Azure DevOps in design & implementation both in Infrastructure-as-a-Service (IaaS), Platform-as-a-Service (PaaS)and Automation Testing.

**Major Strengths**

* Experience on DevOps essential tools like Chef, Ansible, Docker, Kubernetes OpenShift, Jenkins, Hudson, ANT/Maven.
* Having around 6 years of experience in Redhat Linux platform.
* Expertise in working on version control systems like Subversion, and GIT and used Source code management client tools like Visual SVN, Tortoise SVN, CVS, Perforce and GIT
* Installed, configured and managed the ELK (Elastic Search, Log Facilitated Scrum ceremonies like Sprint planning, retrospectives, Daily stand-ups, etc. Stash and Kibana) for Log management within EC2/ Elastic Load balancer (ELB) for Elastic search.
* Experience working with APIGEE Edge, Developer Portal & APIGEE Baas platform
* Expertise in working with Bitbucket/Bamboo/AWS/Terraform, Microservice.
* Expertise working with Amazon Web services (AWS) and implemented solutions using EC2, S3, and RDS in cloud formation Json templates, EBS, Elastic Load Balancer, Auto Scaling Groups, Auto scaling Launch Configuration and Auto scaling Lifecycle Hooks.
* Expertise working with AWS Cloud Watch, Cloud Formation, Cloud Trail Services and cloud front to setup and manage the cached content delivery.
* Expertise in working on DevOps/Agile operations process and tools area (Code review, unit test automation, Build and Release automation, Environment, Service, Incident and charge Management).
* Experience working with Amazon Web Services (AWS) compute, storage, database, analytics, application, and deployment services.
* Hands on experience in Installation, Maintenance of OpenShift, Kubeadm, Kops to Manage Cluster & Deploy Docker Images & Kubernetes Pods, services and operation of application containers across clusters of hosts.
* Running Terraform script for provisioned for GCP infra
* Configured RedHat Satellite Server for patching and configuring servers to update patches from the satellite server.
* Expertise in implementing Nginx as ingress controller on Kubernetes and Horizontal Pod Autoscaler on Kubernetes.
* Experience on Jenkins pipelines to drive all micro services builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes and Building/Maintaining Docker container clusters managed by Kubernetes Linux, Bash, GIT, Docker, on GCP (Google Cloud Platform).
* Expertise on creating Docker images using a Docker File, worked on Docker container snapshots, removing images and managing Docker volumes.
* Experience Utilizing Kubernetes and Docker for the runtime environment of the CI/CD system to build, test deploy.
* Expertise in working with Bitbucket/Bamboo/AWS/Terraform, Microservice.
* Worked with Docker and Kubernetes on multiple cloud providers, from helping developers build and containerize their application (CI/CD) to deploying either on public or private cloud.
* Experience working with Amazon Web services (AWS) and implemented solutions using EC2, S3, and RDS in cloud formation Json templates, EBS, Elastic Load Balancer, Auto Scaling Groups, Auto scaling Launch Configuration and Auto scaling Lifecycle Hooks.
* Experience working with AWS Cloud Watch, Cloud Formation, Cloud Trail Services and cloud front to setup and manage the cached content delivery.
* Experienced in working on DevOps/Agile operations process and tools area (Code review, unit test automation, Build&Release automation, Environment, Service, Incident and charge Management).
* Experience in using Bug tracking tools like JIRA, Remedy, HP Quality Center and IBM ClearQuest.
* Excellent communicative, interpersonal, intuitive, and analytic and leadership skills with ability to work efficiently in both independent and teamwork environments.

##### Master of computer applications -Northwestern Univeristy (2013-2014)

##### TECHNICAL SKILLS :

|  |  |
| --- | --- |
| **Operating Systems** | Windows XP/Vista/7/8/10, LINUX (RHEL, Ubuntu) REDHAT. |
| **Version Control System** | Git, GitHub, Subversion(SVN) |
| **CI Tools** | Jenkins, ANT, Maven, TeamCity |
| **Cloud(IAAS Providers)/Technologies** | AWS (EC2, S3, VPC, SNS, Route53, CloudWatch, DynamoDB, IAM, Lambda), IaaS, PaaS, Microsoft Azure, Google Cloud Platform(GCP) |
| **Configuration Management Tools** | Chef, Puppet, Ansible |
| **Infrastructure Management Tools** | PagerDuty, Zabbix |
| **Virtualization Tools** | Visual Studio 2008/2010, Oracle Virtual Box |
| **SDLC** | Agile, Scrum, Waterfall |
| **Containers** | Docker, Kubernetes |
| **Repository Management** | Nexus, JFrog Artifactory |
| **Bug Tracking Tools** | JIRA, Remedy, HP Quality Center, IBM Clear Quest, Mingle |
| **Web/Application Servers** | Apache, Tomcat, JBOSS, NGINX |
| **Languages/Scripting** | C/C++, Java, Go(Golang), Python, Shell, .Net, PL/SQL |
| **Web Technologies** | JDBC, JSP, HTML, Java Script, XML |
| **Databases** | Oracle, TFS, SQL SERVER, MYSQL, DB2 |

**SiriusXm, Dallas, TX**

**Dec’ 2021 - Present**

**Sr. AWS/GCP Cloud Engineer**

**Responsibilities:**

* Leveraged **AWS** cloud services such as **EC2**, **auto-scaling,** and **VPC** to build secure, highly scalable and flexible systems that handled expected and unexpected load bursts
* Worked on **AWS** **Cloud Watch**, **Cloud Formation (CFT)**, **Cloud Trail** services and **Cloud Front** to set up and manage cached content delivery. Provisioned **AWS** resources using management **console** as well as **CLI**.
* Running Terraform script for provisioned for AWS infra.
* Setup Jenkins & configure to run automation using Jenkins’s file
* Configuration on Aviatrix tool
* Experience in Managing a Large Linux infrastructure
* Automated build, provisioning, image creation/SHA validation, and **S3** upload process using bash for **IoT** product. Also designed and documentation of REST **APIs** for the collection and retrieval of high volume **IoT** telemetry data.
* Collaborated in the automation of AWS infrastructure via Terraform and Jenkins - software and services configuration via chef cookbooks.
* Responsible for day to day Build and deployments in Dev, QA, pre-production and production environments. Implemented AWS high availability using AWS Elastic Load Balancing (ELB), which performed balance across instances in multiple availability zones.
* Designed scalable and highly available Domain Name System (DNS) within AWS Cloud to route traffic to AWS Cloud from users connected using AWS Direct Connect for larger deployments
* Design, build, maintain and support the Apigee infrastructure.
* Provisioned gcp & aws vms.
* Collaborated in the automation of AWS infrastructure via Terraform and Jenkins - software and services configuration via chef cookbooks.
* Provide highly durable and available data by using S3 data store, versioning, lifecycle policies, and create AMIs for mission critical production servers for backup.
* Built and configured a virtual data center in the Amazon Web Services cloud to support Enterprise Data Warehouse hosting including Virtual Private Cloud (VPC), Public and Private Subnets, Security Groups, Route Tables, Elastic Load Balancer.
* Worked on Kubernetes to manage containerized applications using its nodes, Configuring Maps, selector services and deployed application containers as Pods.
* Implementing a Continuous Delivery framework using Jenkins, Chef, Maven & Nexus in Linux environment.
* Worked on AWS CloudWatch, CloudFormation, Cloud Trail services, and Cloud Front to set up and manage cached content delivery.
* Utilized Cloud Watch to monitor resources as EC2, CPU memory, Amazon RDS, DB services, DynamoDB tables, and EBS volumes.
* Worked in an environment majorly involved in **Infrastructure as a code (IaaC)**, execution plans, resource graph and change automation using **Terraform**. Managed **GCP** infrastructure as code using **Terraform**.
* Written some Templates for **GCP** infrastructure as a code using **Terraform** to build staging and production environments and automated infrastructure provisioning occasionally with **Terraform** and **Packer** and even automated the image build process using **Packer**.
* Implemented and designed **Google-cloud** virtual servers by **Ansible** roles to ensure deployment of web apps. Used file module in **Ansible** to edit files on remote systems. Used **Ansible Tower** for running playbook streams in real-time.
* Wrote **Ansible** Playbooks with SSH as the Wrapper to Manage Configurations of **GCP** Nodes and Test **Playbooks** on **Google -cloud** instances using **Shell** and **PowerShell**. Created the Projects, Job templates and Inventory in **Ansible-Tower** and Integrated the **GitHub** and setting-up complete Pipeline process for application teams.
* Operated on several prototype OpenShift projects involving clustered container orchestration and management.
* Well versed in using **Ansible** and **Ansible Tower** to automate repetitive tasks, to deploy critical applications quickly, and proactively manage the changes and wrote several playbooks to manage Web applications.
* Have involved in creating different Apigee API documents as part of the project requirements.
* Implemented cloud services IAAS, PAAS, and SaaS which include Openstack, Docker and OpenShift.
* Implementation and administration of VMware ESXI 5.x, 6.0vCenter for running Red hat Linux, Servers on Production and Development.
* Experience in using GIT and Rational Linux Clear case on UNIX and Windows environment.
* Used **Jenkins** as **CI** tool: Creating new jobs, managing required plugins, configuring the jobs selecting from SCM **GIT**, build trigger, build systems and post-build actions, scheduled automatic builds, notifying the build reports in form of **XML** using **JUnit** and save in **Nexus** repo.
* Troubleshooting Linux network, security related issues, capturing packets using tools such as IP tables, firewall.
* Launched Database for **MySQL 5.x** and **Oracle 11.x** using **RDS** in multiple Available zones have set up monitoring for CPU Utilization and limited DB connections by implementing alarms using **Splunk**.
* Worked with **Consul** for service health checks and node discovery, Experience on working with **HashiCorp vault** and **Consul-template** for retrieval of secrets and keys respectively.

**Environment**:Git,Bitbucket,Terraform,Docker,Chef,Jenkins,Ansible,Tomcat,Shell,GCP,AWS,Cloudbolt, Rally, Linux, EC2, Elastic Load Balancing, Elastic Bean Stalk, ECS, Elastic Search, Openshift, CloudFront, CloudFormation, Elastic Cache, Apigee, CloudWatch, Azure, Route 53, Redshift, Lambda and Dynamo DB, LAMP, Nagios, Terraform, Kubernetes, Docker, Linux, Tomcat, WebSphere, Nexus, Ansible, Jenkins, Maven, Bash scripts, SVN, and GIT.

**American Family Insurance, Madison, WI**

**Jan’ 19– Nov’ 2021**

**Sr. Azure/AWS/Cloud Engineer**

**Responsibilities:**

* Designed a patch process and wrote ansible playbooks for patching openshift -RHEL, atomic OS and also for bug fix for OpenShift. Managed Azure Infrastructure Azure Web Roles, Worker Roles, VM Role, Azure SQL, Azure Storage, Azure AD Licenses, Virtual Machine Backup and Recover from a Recovery Services Vault using Azure PowerShell and Azure Portal.
* Hands-on experience Designing, planning and implementation for existing on-premise applications to AZURE Cloud (ARM), Configured and deployed Azure Automation Scripts utilizing Azure stack Services and Utilities focusing on Automation.
* Created Azure automated assets, Graphical Runbooks, PowerShell run books that will automate specific tasks. Expertise in deploying Azure AD connects, configuring ADFS installation using Azure AD connects.
* Configured Azure Key vault and key management policies.
* Involved in migrating SQL server database to SQL Azure database using SQL Azure migration wizard and used Python API to upload agent logs into Azure blob storage.
* Design and develop cloud specific security policies and procedures for SIEM tools (QRadar, Splunk), Vulnerbility Management tools (Qualys), Data Loss Prevention, Encryption, cloud compliance tool(Redlock), monitoring tools(Data dog).
* Written Templates for Azure Infrastructure as code using Terraform to build staging and production environments.
* Monitored the Azure resources by configuring Azure Diagnostics and Azure Monitoring.
* Designed and implemented Azure Virtual Networks with the network security groups and deployed those using the Azure Quick Start templates.
* Experienced with Installing and Configuring the NEXUS Repository manager for sharing the artifacts within the company.
* Automated various infrastructure activities like Continuous Deployment using Ansible playbooks and has Integrated Ansible with Jenkins on AZURE.
* Provide technical expertise relevant to the development, implementation, and updates to PKIs cloud security policies, procedures, guidelines to ensure company compliance.
* Implemented custom RBAC roles, Resource Group Policies based on Customer’s requirements to manage the User’s access.
* Created LTA (Logical Technical Architecture) diagrams using Microsoft Visio.
* Assigned RBAC policies Confidential group level and user level as per the LTA created for the services implemented new (Automation account, scheduler, notification hub, IOT Hubs, Batch and other services)
* Used Docker for setting Azure Container Registry with Docker and Docker-compose and actively involved in deployments on Docker using Kubernetes.
* Configured servers to host Team Foundation Server (TFS) instance to setup and manage Continuous Integration (CI) using Team Foundation (TF) Build Service.
* Used Azure Kubernetes service to deploy a managed Kubernetes cluster in Azure and created an AKS cluster in the Azure portal, with the Azure CLI, also used template driven deployment options such as Resource Manager templates and Terraform.
* Maintained and coordinated environment configurations, code integrity and code conflict resolution.
* Established and applied appropriate branching, labeling/naming conventions using GIT source control.
* Developed automation system using PowerShell scripts and JSON templates to remediate the Azure services.

**Environment**: AZURE IaaS -Virtual Networks, Virtual Machines, Cloud Services, Resource Groups, Express Route, Traffic Manager, VPN, Load Balancing, Application Gateways, Auto-Scaling, JIRA, NEXUS Repository, Docker, Kubernetes, Azure Kubernetes, Azure CLI, Terraform, ARM, PowerShell, JSON, MySQL, Apigee, Mongo DB, Oracle, Groovy, Bash, Python, Boto3, Terraform, Jenkins, GitHub, linux, GIT, Maven, Tomcat, Apache, Web-sphere, Puppet, Behave, Cucumber, Gherkins, Ansible, Splunk, Consul, Nexus, RHEL, shell.

**Sun Trust Bank - Atlanta GA**

**Mar 2016 – Dec 2018**

**Aws/Cloud/DevOps Engineer**

**Responsibilities:**

* Responsible for Architecting Multi AZ Components in AWS like, EC2, IAM, VPC, RDS With Replication, S3 for Object and Static Webpages, Auto Scaling of Micro Services like ECS, ELB with SSL Certs.
* Responsible to change the configuration of the ELB or Route 53 to achieve the Blue green deployment strategies by developing scripts in Python Boto3 to automate this process.
* Experienced in AMI's volume snapshots, RDS snapshots and performed LAMP installation and configuration on Ubuntu, Redhat and Amazon Linux EC2 instances.
* Developed Cloud Formation templates to develop complete Stack on AWS using services like EC2, RDS, S3, EBS, Cloud Watch, SNS, SQS, Cloud Trail. Developed Python scripts to pass in user data when creating the AMI to install services in the Boot time.
* Developed Ansible Playbooks using YAML scripts for launching different EC2 virtual servers in the cloud using Auto-scaling and Amazon Machine Images (AMI).
* Configuring, automation and maintaining build and deployment CI/CD tools git/git-Lab, ANT, Jenkins, Maven, Docker-registry/daemon, Nexus and JIRA for Multi-Environment with high degrees of standardization for both infrastructure and application stack automation in AWS cloud platform.
* Worked on Azure Cloud services, Azure storage, Azure Cli, Azure active directory and Azure Service Bus. Managing Client's Microsoft Azure based PaaS and IAAS environment, developing Runbooks in PowerShell to automate administration of subscriptions and resource groups.
* Installed and configured Azure Active Directory in an application, Active directory connection, setup ADFS and proxy component for SSO to support various protocols for different types of authentication like Security Assertion Markup Language and token-based Kerberos. Managing Users, resource objects and Group Policy Objects (GPOs) throughout the Active Directory.
* Developed Azure ARM Templates for different teams to deploy the .Net based application on to Web roles, triggered ARM Templates from the VSTS to build the .Net based applications and worked on Security center to provide updates to the Windows and Linux based systems, Azure Key Vault to encrypt the data.
* Established connection from Azure to On-premise datacenter using Azure ExpressRoute for Single and Multi-subscription connectivity.
* Implemented Azure Site Recovery/Azure Backup, Implement Azure RMS and EMS. Designed and configured Azure Virtual Networks (VNets) and subscriptions to confirm to Azure Network Limits, subnets, DHCP address blocks, DNS settings, security policies and routing.
* Setup Azure Virtual Appliances (VMs) to meet security requirements as software-based appliance functions (firewall, WAN optimization and intrusion detections).
* Created Ansible Playbooks in Ansible Tower and integrated Ansible tower with Jenkins to deploy code to different servers. Wrote Ansible Playbooks for installing JBoss, WebLogic, Nginx and WebSphere for configuring load balancers and fail over.
* Integrated Terraform with Ansible, Packer to create and Version the AWS Infrastructure, code deployment and orchestration with tools such as Puppet, Chef, Cloud Formation, and automation validation using Test Kitchen, Ansible and Terraform.
* Terraform template to create Load balancers, EC2 instance with auto scaling and monitoring on the fly for different environments. Creating an AWS RDS MySQL DB cluster and connected to the database through an Amazon RDS MySQL DB Instance using the Amazon RDS Console.
* Developed terraform scripts to build, change and version infrastructure as code using AWS as provider and launch multi-tiered stack to be provisioned and configured with terraform scripts.
* Installed and configured Jenkins with SonarQube and GIT by installing GIT plugins and building the artifacts SonarQube for static and dynamic code analysis using Maven automation tool and storing the build artifacts into Nexus repository and deploying it to WebSphere/Tomcat server.
* Developed Jenkins Files as groovy scripted pipelines to build the Docker images, push them to the Docker registry and perform the rolling deployments on to the Kubernetes Clusters.
* Developed automation and deployment utilities using Ruby, Bash, PowerShell and Python. Experienced with version control systems Git and Subversion.
* Worked in designing and implementing continuous integration system using Jenkins by creating Python and Perl scripts.
* Expertise in Shell Scripting and Perl Scripting for Environment Builds and Automating Deployment on WebSphere Application Servers and WebLogic Application Servers.
* Extensive PowerShell experience developing, implementing, and maintaining automation scripts to meet business needs in large scale, highly available, online production environments.
* Used several Python libraries such as wxPython, Numpy and matplotlib for representation or plotting of Network Analysis.
* Used jQuery JavaScript libraries for providing richer user interface and facilitates asynchronous request invocations using AJAX.
* Wrote PowerShell scripts for reporting and automation addressing either a single customer's environment or multiple customer environments also to perform alerting, reporting, monitoring and routine maintenance for domain resources
* Built various containers using Docker engine and Docker Machine environments, to deploy the micro services-oriented environments for scalable applications. Experience in writing Docker files to build the micro-service applications.
* Used Jenkins and pipelines to drive all microservices builds out to the Docker registry and deployed to Kubernetes, Created Pods and managed using Kubernetes. Also configured Kubernetes cluster and supported it running on the top of the CoreOS.
* Deployed Kubernetes Cluster on AWS, VMWare using MiniKube, Kubespray, performed the deployments of the Docker images on to the clusters by updating the Labels and selectors in the Pod definition.
* Building and Maintaining 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 and deploy.
* Monitored the applications on IBM WebSphere application server and integrated configuration of web apps with WebSphere, involved in the migration of applications from WebSphere 7.0 to 8.5.
* Installation, configuration & upgrade of VMware ESXi, vSphere, vCenter clients, Used VMware vMotion to eliminate application downtime from planned server maintenance by migrating running virtual machines between hosts.
* Installed and configured RedHat Enterprise Linux 7.x, CentOS 7.x and packages for RedHat Linux Servers and configured various services on top of it.
* Experienced in installation, configuration and management of HTTP, NGINX, NTP, NFS, FTP, DHCP, DNS. Created Shell Scripts to monitor the administrative tasks and automated the tasks to free up the resources using Cron jobs.
* Installation of the ELK stack to create a comprehensive log management system to provide insight into the traffic patterns happening on the network.
* Experience in deployment of JIRA applications into existing/default VPC and configuring Amazon Elastic File System to sort the artifacts can be accessed through multiple nodes for High Availability.
* Involved in all phases of Software development life cycle (SDLC) and experienced with fast paced Agile methodologies.

**Environment**: Java/J2EE, GIT, IBM Rational ClearQuest, Jenkins, VSTS, RDMS, SVN, Chef, ATG Commerce server, Amazon Web Servers(AWS), Cloud Engineer, visual studio, IaaS, PaaS ANT, MAVEN, Shell (bash), Apache Tomcat Application Server, Linux, SQL

**Affinity Health Plan, NY**

**Jan’ 2014 – Feb’ 2016**

**Java Developer**

**Responsibilities:**

* Involved in Analysis and Design of the project, which is based on **SpringMVC Architecture** and **Design patterns.**
* Developed UI pages using **JSP, HTML, JQuery, CSS, AJAX.**
* Wrote **JavaScript** for client-side validation.
* Used **Eclipse** for writing **JSPs**, **Struts** and other **Java code snippets.**
* Developed **Controller Servlets**, Action and Form objects for interacting with **Oracle database** and retrieving data.
* Wrote custom support modules for upgrade implementation using **PL/SQL, UNIX.**
* Developed activity, sequence and class diagrams using **Unified Modeling Language (UML**) and **Rational Rose**.
* The Application was deployed on **Apache Tomcat Server**.
* Used **Junit framework** for **Unit testing.**
* Monitored the logs using **Log4J** and fixed the problem.
* Used **CVS** for version control code used by developers and Developed **J-Unit** test cases for all developed modules.

**Environment**: **Java, JavaScript, JSP, HTML, AJAX, XML, DOM, SAX, JNDI, Struts, PL/SQL, UNIX, Rational Rose, Apache Tomcat, Oracle, JUnit, ANT, Log4j, CVS, Eclipse.**