**  
AMBER**

[**DevOpsAmber@gmail.com**](mailto:DevOpsAmber@gmail.com)

**(469)667-9478**

**AWS Cloud Engineer**



###### Summary:

* **AWS certified cloud engineer** with around **9+ Years** of experience in IT industry comprising of Systems Administration and Change Management, Software Configuration Management (SCM), Build and Release management and Process Engineering.
* **Private Cloud Environment** - Leveraging **AWS** and **Puppet** to rapidly provision internal computer systems for various clients.
* Strong Knowledge on **Amazon kinesis firehose.**
* Strong Windows Azure experience dedicated to the .NET stack of technologies, proficient in IT operations including in Windows Azure deployment, incident management, production support for all types of Azure components, IIS/SQL server.
* Develop **Puppet modules** and role/profiles for installation and configuration of software for required for various applications/blueprints.
* Used VMware like Tanzu, oracle, AWS.
* Extensively used Ruby scripting on Chef Automation for creating Cookbooks comprising all resources, Data bags, templates, attributes.
* Expertise in Azure Development, Worked on Azure web application, App services, Azure storage, Azure SQL Database, Virtual Machines, Fabric controller, Azure AD, Azure search, and Notification hub.
* Championed in cloud provisioning tools such as **Terraform**and**CloudFormation.**
* Expertise in Data Migtation, Data Profiling, Data Ingestion, Data Cleansing, Transformation, Data Import and Data Export using multiple ETL tools such as informatica Power Centre.
* Proficient in Python, Shell Scripting, SQL, build utilities like open make, ANT nd Cruise Control.
* Hands on experience in container-based technologies **Kubernetes,** **Docker, EKS**and **ECS.**
* Hands on experience in GCP services like EC2, S3,ELB, RDS, SQS, EBS, VPC, AMI, SNS,RDS, Cloud Watch, Cloud Trails, Cloud Formation GCP Config, Autoscaling, Cloud Front, IAM R53.
* Well versed with **Big data on AWS cloud services i.e. EC2, S3, Glue, Anthena, DynamoDB and RedShift**
* Wrote **python** scripts to manage AWS resources from API calls using **BOTO** SDK and also worked with **AWS CLI**.
* Wrote **Ansible** playbooks to launch **AWS**instances and used **Ansible** to manage web applications, configuration files, used mount points and packages.
* Experience in developing scripts using RESTful API models for the purposes of integrating workflows with AWS.
* Worked with Open Stack object store Swift to store lots of data efficiently, safely, and cheaply and storing unstructured data that can grow without binding.
* Setup **Puppet** Master, client and wrote scripts to deploy applications on Dev, QA, production environment.
* Maintenance and Vulnerability Management of Hybrid infrastructure and **CI/CD using Chef - Cookbooks.**
* Experience with **Chef Enterprise**Hosted as well as On-Premise, Installed Workstation, Bootstrapped Nodes, Wrote Recipes and **Cookbooks**and uploaded them to **Chef-server**, managed On-site Applications/ Services/Packages using **Chef**as well as **AWS for EC2/S3/Route53 & ELB with Chef Cookbooks.**
* Extensive experience in developing and maintaining build, deployment scripts for test, Staging and Production environments using **ANT, Maven, Shell and Perl Scripts.**
* Hybrid Environment between VMware/Azure/Google Cloud Platform.
* Maintained high Availability clustered and standalone server environments and refined automation component with scripting and configuration management (Ansible).
* Hands-on experience in **Microsoft Azure Cloud** Services (PaaS & IaaS), Storage, Web Apps, Active Directory, Application Insights, Internet of Things (IoT), Azure Search, Key Vault, Visual Studio Online (VSO) and **SQL Azure**.
* Strong experience in automating Vulnerability Management patching and **CI/CD using Chef**and other tools like **GitLab, Jenkins, and AWS/Open Stack**.
* In depth Knowledge of **AWS**cloud service like **Compute, Network, Storage** and **Identity & access management.**
* Hands-on Experience in configuration of Network architecture on AWS with **VPC**, **Subnets**, **Internet gateway**, **NAT, Route table**.
* Good Experience in Tableau Analytics, Build Dashboards for clients using Tableau.
* Responsible for ensuring Systems & Network Security, maintaining performance and setting up monitoring using **Cloud Watch** and **Nagios**.
* Experience in working on version controller tools like **GitHub (GIT)**, Subversion (SVN) and software builds tools like **Apache Maven**, Apache Ant.
* Extensively worked on **CI/CD pipeline** for code deployment by engaging different tools (**Git**, **Jenkins**, **CodePipeline**) in the process right from developer code check-in to Production deployment.

###### Skill Set:

|  |  |
| --- | --- |
| **DevOps Tools** | Puppet, Chef, Ansible, Vagrant, Docker, Splunk, Kubernetes, and Salt Stack, Tanzu. |
| **Cloud Platform** | Amazon Web Services (AWS), Azure, OpenStack, GCP,ETL,Azure |
| **Scripting Languages** | PERL, Ruby, Python, Shell Programming, Bash |
| **Web/App Servers** | Web logic, Web Sphere, Apache Tomcat, JBOSS |
| **Build & CI Tools** | ANT, Maven, Hudson/Jenkins, Cruise Control, Bamboo, Nexus |
| **SCM Tools** | CVS, SVN, ClearCase, GitHub, Perforce |
| **Databases** | Oracle, SQL, Enterprise NoSQL, Cassandra |
| **Operating Systems** | UNIX, Linux, MS DOS, Windows 2012, 2008 Server |
| **Programming Languages** | Java, J2EE, C++ |
| **Monitoring ToolsSpunk, Nagios** | Virtualization/Container Vagrant, Docker, VMware |
| **Provisioning Tools** | Terraform, CloudFormation |
| **SDLC** | Agile, Scrum, Waterfall |
| **ETL Tools** | Talend Open Studio & Talend Enterprise Platform |

###### Professional Experience:

###### Client: Flagstar bank, Troy, MI November 2021 - Present

**Role: AWS Cloud Engineer**

**Responsibilities:**

* Built **S3**buckets and managed policies for S3 buckets and used **S3 bucket**and **Glacier**for storage and backup on **AWS**.
* Using Bash and Python, included Boto3 to supplement automation provided by Ansible and Terraform for tasks such as encrypting EBS volumes backing AMIs.
* Administered the Sonatype Nexus for maintaining libraries.
* Developed, and implemented architectural solutions involving multiple Tanzu Application Service (PCF)
* Work with other teams to help develop the **Puppet**infrastructure to conform to various requirements including security and compliance of managed servers.
* Involved in migration of Jenkins server, Sonatype Nexus.
* Administered and managed Sonatype Nexus Repository.
* Configured Jenkins-Sonatype nexus plug-in to upload the Nuget packages on to Nexus after the build is success.
* Providing support for Dev teams to troubleshoot failed applications in Tanzu foundation implemented on AWS EC2 machines
* Involved in using Terraform migrate legacy and monolithic systems to Amazon We Services.
* Built a **VPC**, established the site-to- site VPN connection between **Data Center**and **AWS**.
* Setting up the build and deployment automation for Terraform scripts using Jenkins.
* Configured LDAP, to Tanzu VMware (PCF) for multiple application teams
* Provisioned the highly available EC2 instances using Terraform and Ansible Playbooks.
* Develop **push-button automation** for app teams for deployments in multiple environments like Dev, QA, and Production.
* Developed Python scripts to put nexus backup to the S3 Buckets using boto3.
* Automated deployment, upgrades and build packs of Tanzu platform (Pivotal Cloud Foundry) using concourse pipelines, and intergrated Concourse with Credhub vault
* Extensively involved in infrastructure as code, execution plans, resource graph and change automation using Terraform.
* Managed AWS infrastructure as code using Terraform.
* Building platform using Tarraform and concourse to automation piplines for installation of Tanzu components or services on to public cloud provider
* Developed environments of different applications on AWS by provisioning on EC2 instances using Docker, Bash and Terraform.
* Advised on design, planning and implementation of Tanzu platform projects.
* Used Terraform scripts to Automate Instances for Manual Instances that were launched before
* Help with the creation of **dev**standards for **Puppet module development**including best practices for version control (git).
* Used Chef for configuration management of hosted Instances within GCP. Configuring and Networking of Virtual Private Cloud (VPC).
* Responsible for creating on-demand tables on S3 files using Lambda Functions and AWS Glue using Python and PySpark.
* Automated configuration management using **Salt Stack**.
* Solid understanding of Linux shell and perl scripting UNIX, Windows, build and release engineering principles.
* Created monitors, alarms, notifications and logs for Lambda functions, Glue Jobs, EC2 hosts using CloudWatch.
* Experience in developing scripts using RESTful API models for the purposes of integrating workflows with AWS.
* Set-up databases in GCP using RDS, storage using S3 bucket and configuring instance backup to S3 bucket. prototype CI/CD system with GitLab on GKE utilizing kubernetes and Docker for the runtime environment for the CI/CD systems to build and test and deploy.
* Used AWS Glue for the data transformation, validate and data cleansing.
* Used the **AWS-CLI** to suspend an **AWS Lambda** function processing an **Amazon Kinesis stream**, then to resume it again.
* Worked with OpenStack object store Swift to store lots of data efficiently, safely, and cheaply and storing unstructured data that can grow without binding.
* Worked with OpenStack Glance Rest API for getting VM image metadata and retriever of the actual image.
* Builiding/Maintaining Docker/ Kubernetescontainer clusters managed by kubernetes Linux, Bash, GIT, Docker, on GCP.
* Perform troubleshooting and monitoring of the Linux server on AWS using **Zabbix**, **Nagios**and **Splunk**.
* Management and Administration of AWS Services **CLI**, **EC2,** **VPC**, **S3**, **ELB**Glacier, **Route 53**, **CloudTrail**, **IAM**, **Lambda, Kinesis** and Trusted Advisor services.
* Standardize and implement **Splunk** Universal Forwarder deployment, configuration and maintenance in Linux and Windows platforms.
* Created automated pipelines in AWS **Code Pipeline**to deploy **Docker**containers in AWS **ECS**using services like **CloudFormation,** **CodeBuild**, **CodeDeploy**, **S3**and **puppet.**
* Worked on **JIRA**for defect/issues logging & tracking and documented all my work using **CONFLUENCE**.
* Integrated services like **GitHub**, AWS **CodePipeline**, Jenkins and AWS Elastic Beanstalk to create a deployment pipeline.
* Built Restful web services using Spring Tool Suite and Eclipse IDE. Implemented Rest API methods such as GET, POST and PUT.
* Good Experience in architecting and configuring secure cloud VPC using private and public networks through subnets in AWS.
* Amazon **IAM** service enabled to grant permissions and resources to users. Managed roles and permissions of users with the help of **AWS**   **IAM**.
* Configure Cloud and security: **VPC, NAT, Security Group, NACL, WAF, AWS Shield, WAF, AWS GuardDuty, AWS Inspector etc.**
* Designing and implementing fully automated server build management, monitoring and deployment by using Technologies like **Puppet.**
* Deployed Puppet, **Puppet dashboard**for configuration management to existing infrastructure.
* Initiating alarms in **CloudWatch**service for monitoring the server's performance, **CPU Utilization**, disk usage etc. to take recommended actions for better performance.
* Configured AWS**Multi Factor Authentication**in **IAM**to implement 2 step authentication of user's access using Google Authenticator and AWS Virtual MFA.
* Included **security groups**, network **ACLs,** **Internet Gateways,** and **Elastic IP's**to ensure a safe area for organization in AWS public cloud.
* Writing **UNIX shell scripts**to automate the jobs and scheduling **cron**jobs for job automation using commands with Crontab.
* Planning to move from VCLOUD to GCP
* JWrote **Ansible**Playbooks with Python SSH as the Wrapper to Manage Configurations of **AWS**Nodes and Test **Playbooks**on AWS instances using **Python. Experience** with **Puppet**to more easily manage enterprise **Puppet**deployments
* Design AWS**Cloud Formation**templates to create custom sized **VPC**, **subnets**, NAT to ensure successful deployment of Web applications and database templates
* Created scripts in **Python**which integrated with Amazon **API**to control instance operations.
* Coordinate/assist developers with establishing and applying appropriate branching, labeling /naming conventions using **GIT**source control.
* Installed and configured the **Jfrog** Artifactory and Mission Control.
* Migrated applications to the PKS, GCP cloud.
* Installed and administered Artifactory repository to deploy the artifacts generated by Maven and to store the dependent jars which are used during the build. Also, have used Artifactory's REST APIs to download, upload and update artifacts and also testing the functionality of Artifactory.
* Used Jenkins two create CI CD pipeline for Artifactory using plugins provided by Jfrog.
* Responsible for implementing and monitoring solutions in **Ansible**, **Terraform**, **Docke**r, and **Jenkins**.
* Experienced in **Blue-Green** deployment models within AWS/ Azure cloud environments.

**Environment:** Java/J2EE, Jenkins, JIRA, Maven, GIT, ANT, AWS, AWS Shield, Tanzu Python, GCP, Ruby, Cassandra, Web logic, Unix Shell Scripting, Nagios, Cloud Watch, Terraform, Python Scripting, AWS Lambda,Sonatype Nexus, Kubernetes.

###### Client: Symphony Care - Madison WI November 2018 - October 2021

**Role: AWS Cloud Engineer**

**Responsibilities:**

* Developed and implemented software release management strategies for various applications according to agile process, worked on **DevOps**/Agile process for code review, Unit test automation, Service, Incident & Change Management.
* Administered the **Jenkins** -Configuration, Design and Administration, and integrating these tools with other systems.
* Responsible for implementing monitoring solutions in Ansible, Terraform, Docker, and Jenkins.
* Created and maintained various DevOps related tools for the team such as provisioning scripts, deployment tools and staged virtual environments using Docker.
* Automate Datadog Dashboards with the stack through Terraform Scripts.
* Used **Kubernetes** by Creating Pods and managed using Kubernetes services, namespaces, deployment and ingress traffic manager with helm packages. Monitored pods health using Prometheus and integrated with **Grafana**.
* Write Terraform scripts for Cloudwatch Alerts.
* Worked on various components of **Chef** including chef server, workstations, Nodes, configurations of chef-client and writing cookbooks and recipes for Chef and assigning roles to nodes.
* Used **Chef** for Automation and managed **GIT** as a source control system.
* Installed and configured **GIT** and communicating with the repositories in **GITHUB** and used **MAVEN** as a build tool. Managed the **Maven** Repository using **Jfrog** Artifactory tool and used the same to share the snapshots and releases of internal projects.
* Installed and configured MySQL on Linux and Windows environments.
* Experience in DNS integrates with other network protocols, such as DHCP and TCP/IP.
* Written Templates for **AWS** Infrastructure as code using **Terraform** to build staging and
* production environments. Integrated **AWS** Log Analytics with **AWS** VMs for monitoring the log files, store them and track metrics and used Terraform as a tool, Managed different infrastructure resources Cloud, **VMware**, and **Docker** containers.
* Write Terraform scripts from scratch for building Dev, Staging, Prod and DR environments.
* Leveraged the automation of managing **EC2** events in Orion through **AWS** **lambda**, **PowerShell**, **Python** and amazon **SQS**.
* Create and maintain highly scalable and fault tolerant multi-tier AWS and Azure environments spanning across multiple availability zones using Terraform and CloudFormation.
* Wrote **AWS** **Lambda** functions for **AWS's** **Lambda** which invokes python scripts to perform various transformations and analytics on large data sets in **EMR** clusters.
* Created **S3** buckets for **EC2** instances to store all the content including **HTML** pages, images, **CSS** files and **Java** script files.
* Created lambda function to generate a daily report on configuration changes, creation/deletion of **EC2** instances using **python**, **DynamoDB**, **CloudWatch** and **SNS**.
* Experience with Unix utilities and tools such as shell scripting, **awk**, sed, grep, etc
* Familiarity with Unix administration tasks such as user management, file permissions, system monitoring, and backup/restore.
* Created TFS reports and dashboards using its reporting tools, providing project stakeholders with real-time insights into project status and progress.
* Administered TFS server and database, ensuring optimal performance, security, and availability.
* Managed **Azure** Infrastructure **Azure** Web Roles, Worker Roles, SQL Azure, Azure Storage, Azure AD Licenses, **Office365**.
* Virtual Machine Backup and Recover from a Recovery Services Vault using Azure **PowerShell** and **Portal**.
* Used Azure Terraform to deploy the Azure infrastructure necessary to create development, test, and production environments for a software development project.
* Expertise in **Azure** IaaS virtual machines (**VMs**) and **Cloud** services (PaaS role instances) into secure VNets and subnets, designed **VNets** and subscriptions to conform to **Azure** Network Limits.
* Used Azure **devops** services such as **Azure** repos, **Azure** boards and Azure Test plans to plan and collaborate on cod development, built and deploy application.
* Created and issued SSL certificates for servers. Monitored nodes, **EC2** instances, ELB’s, **VPC’s**,**lambda** functions and reported them.
* Actively participated in the development of the Groovy and Shell scripts in the Linux box for the externalization of service account variables.
* Worked with Groovy which has built-in support for closures, which are functions that can be passed as arguments or returned as values.
* Generated reports using **SonarQube** which covers different areas of Code quality like potential bugs, code coverage, coding rules.
* Create develop and test environments of different applications by provisioning Kubernetes clusters on AWS using Docker, Ansible and Terraform.
* Installed and administer Atlassian tool set including JIRA, Confluence.
* Responsible in deploying the application **WARs**, EARs in **Weblogic** application servers and troubleshoot any deployment issue.

**Environment:** Devops, Agile, Jenkins, Chef, Docker, Kubernetes, Grafana, Unix, GIT, Maven, Terraform, , AWS EC2, ELB, SQS, SNS, DynamoDB, Cloudwatch, TFS, VPC, Azure, MYSQL, Linux, Groovy, Shell script, Sonarqube, JIRA, Confluence, Weblogic

###### Client: AIS Healthcare, Ridgeland MS March 2015 - October 2018

**Role: AWS Cloud Engineer**

**Responsibilities:**

* Created scripts in **Python (Boto)**which integrated with **Amazon API**to control instance operations.
* Designed, built and coordinate an automated build & release **CI/CD** process using **Gitlab, Jenkins and Puppet** on hybrid IT infrastructure.
* Involved in designing and developing Amazon **EC2**, Amazon **S3**, Amazon **RDS**, Amazon **Elastic Load Balancing**, Amazon**SWF**, Amazon **SQS**, and other services of the AWS infrastructure.
* Running build jobs and integration tests on Jenkins Master/Slave configuration.
* Managed Servers on the Amazon **Web** **Services** (AWS) platform instances using **Puppet** configuration management.
* Involved in **maintaining** the reliability, availability, and performance of Amazon Elastic Compute Cloud (**Amazon** **EC2**) instance.
* Conduct systems design, feasibility and cost studies and recommend cost-effective cloud solutions such as **Amazon Web Services (AWS)**. Configure Cloud and security: **VPC, NAT, Security Group, NACL, WAF, AWS Shield, WAF, AWS GuardDuty, AWS Inspector etc.**
* 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.
* Wrote **JSON**templates for cloud formation and **Ruby scripts**for **chef automation**and contributed to our repository on **GitHub**.
* Manage **SPLUNK** user accounts (create, delete, modify, etc.)
* Assist with design of core scripts to automate **SPLUNK** maintenance and alerting tasks. Support **SPLUNK** on UNIX, Linux and Windows-based platforms. Assist with automation of processes and procedures.
* Installed and configured enterprise **Jfrog** Artifactory.
* Installed and administered Artifactory repository to deploy the artifacts generated by Maven and to store the dependent jars which are used during the build. Also, have used Artifactory's REST APIs to download, upload and update artifacts and also testing the functionality of Artifactory.
* Used Jenkins two create CI CD pipeline for Artifactory using plugins provided by Jfrog.
* Used for faster server provisioning and configuration though **Salt stack** configuration management tool.
* Responsible for monitoring the AWS resources using **Cloud Watch**and also application resources using **Nagios**.
* Created AWS Multi-Factor Authentication **(MFA)**for instance **RDP/SSH**logon, worked with teams to lockdown **security groups**.
* Involved in complete SDLC life cycle - Designing, Coding, Testing, Debugging and Production Support.
* Installed/Configured/Managed **Puppet Master/Agent**. Wrote custom Modules and Manifests, downloaded pre-written modules from puppet-forge. Up gradation or Migration of Puppet Community and Enterprise.
* Automate **Datadog** Dashboards with the stack through **Terraform** Scripts
* Coordinate/assist developers with establishing and applying appropriate**branching**, labeling/naming conventions using **Git**.
* Branching, Merging, Release Activities on Version Control Tool GIT. Used **GitHub** as version control to store source code and implemented **Git** for branching and merging operations for Java Source Code.
* Experience in Designing, Architecting and implementing scalable cloud-based web applications using **AWS** and **GCP**.
* Set up a **GCP** Firewall rules in order 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.
* Experienced in **Blue-Green** deployment models within AWS/ Azure cloud environments

**Environment:** Java/J2EE, Jenkins, JIRA, Maven, GIT, ANT, AWS, AWS Shield, Python, Ruby, Cassandra, Web logic, Unix Shell Scripting, Nagios, Cloud Watch, Terraform, AWS Lambda, Kubernetes, GCP