**Claudia Cataldo  
claudiacataldo147@gmail.com  
AWS Cloud/AZURE/DevOps Engineer**

**Professional Synopsis:**

Over 9+ years of Professional Work Experience On AWS Cloud/AZURE/DevOps Engineer.

* Experience in AWS Cloud Engineer, DevOps automation Engineer, Build & Release management, Linux Administrator and worked in many technical roles both in Linux and Windows environment for build/Release automation processing Web & cloud/server Environment using Java/J2EE/JEE Technology, AWS opensource technologies.
* Experience with legacy application migration and able to create next generation cloud reference architectures for legacy application migrations
* Fluent in several software lifecycle models, including Waterfall, SDLC, and Agile-Scrum.
* Involved in Configuring, automation and maintaining build and deployment CI/CD tools GIT/GITHUB, Bitbucket, Jira, Confluence, Jenkins, Bamboo, Build Forge, Ansible, Chef, Docker registry/daemon,

Kubernetes, Terraform, Nexus and JIRA for Multi-Environment (Local/POC/NON-PROD/PROD).

* Involved extensive work towards code compilation, packaging, building, debugging, automating, managing, tuning, and deploying code across multiple environments and Linux Administration.
* Expertise in improving build & deployment tools in DevOps through automation using scripting languages such as JavaScript, PowerShell, Bash, Perl, JSON, Ruby, Groovy and Python etc.
* Extensive understanding of networking concepts, (i.e., Configuration of networks, router configuration and wireless security, TCP/IP, VPN, Content Filtering, VLANs, and routing in LAN/WAN, Ethernet
* Experience in Amazon Cloud Services (AWS) and its features (AWS EC2, VPC, EBS, AMI, APIs, Route S3, snapshots, Autoscaling, Cloud Formation, Lambda, SES, SQS, SNS, RDS, ELB, EBS, AWS-S3).
* Worked with PCF for managing multiple cloud environments. System administration in Red Hat and Debian distributors like Ubuntu, SUSE, Solaris, IBM AIX, EMC storage, ONTAP, AWS. Architecture and deployment of solutions using VMWare, Azure, and Amazon Web Services (AWS).
* Extensive experience in building & deploying EAR, WAR, JAR files on test, stage & production servers.
* Experience in process automation from system administration tasks to Continuous Integration and Continuous Deployment (CI/CD) with Jenkins/Bamboo & Ansible/Chef tools.
* Designing in AWS cloud models for Infrastructure-as-a-Service (IAAS), Platform-as-a-Service (PAAS) and Software-as-a-Service (SAAS).
* Experience with OpenStack Services such as Compute, Network, Storage, Dashboard, Image, Identity, Monitoring, and Orchestration Service.
* Designed and Implemented a Micro services container CI and CD solution within AWS/Azure leveraging Git, Jenkins, Docker, Terraform, Ansible and Kubernetes Services.
* Experience in all facets of full CM process with tools such as SVN, GIT/GITLAB, TFS, ClearCase, ClearQuest, Cruise Control, Jenkins, Bamboo, Chef, Puppet, Salt stack and Ansible.
* Proficient in automating build and configuration process using tools like ANT, MAVEN, Gradle, Jenkins/Bamboo and Puppet/Ansible. Created Build Jobs and Deployments in Jenkins.
* Evaluated Kubernetes for Docker container orchestration. Managed Kubernetes charts using Helm and created reproducible builds of the Kubernetes applications, templatize Kubernetes manifests, provide a set of configuration parameters to customize the deployment and Managed releases of Helm packages.
* Worked on Azure Databricks to use custom DNS and configure network security group (NSG) rules to specify egress traffic restrictions
* Expertise in WAMP (Windows, Apache, MYSQL, and Python) and LAMP (Linux, Apache, MySQL, and Python) Architecture. Wrote deployment recipes for infrastructure management using Terraform.
* Experience on working with System health and performance Monitoring Tools like Nagios, Splunk, Cloud Watch, New Relic, Elasticsearch, Kibana, AppDynamics etc.
* Experience in working with AWS Code Pipeline and Creating Cloud formation JSON templates which is converted to Terraform for infrastructure as code. Used infrastructure as Code (IaC) with Terraform and Ansible. Automate Datadog Integrations through Ansible Scripts for QA, Regression and Production.
* Written Templates for AWS infrastructure as code using Terraform to build production environments.
* Handled large volumes of container clusters with Docker swarm, Kubernetes Mesos and Marathon.
* Experience in working with container-based deployment using Docker, Docker images, Docker file, Docker Hub, Docker Compose and Docker registries.
* Empowered on Application performance Monitoring (APM), container and network monitoring using tools such as SPLUNK, APPDYNAMICS, PROMETHEUS, DATADOG, Dynatrace etc.
* Experience in other tools like Terraform, Docker, Kubernetes, several scripting languages, and monitoring tools. Team player with excellent interpersonal skills, self-motivated, dedicated and understanding the demands of 24/7 system maintenance and has good customer support experience.

**Technical Skills:**

| **Cloud Services** | AWS EC2, AWS EKS, VPC, EBS, AMI, SNS, RDS, EBS, CloudWatch, CloudFormation AWS Config, S3, Cloud Trail, IAM. VMWare, Azure |
| --- | --- |
| **Configuration management tools and** | ANT, Maven, Hudson/Jenkins, Chef, Puppet, Build Forge, Ansible |
| **programming/scripting** | C, Java, Xml, Shell, Perl, Ruby, Python, Groovy, PowerShell, .Net |
| **Database Systems** | SQL Server, PostgreSQL, Oracle, MS Access, Sybase. |
| **Application Servers** | JBoss, Apache Tomcat 5.x, IntelliJ IDEA, Oracle WebLogic 10.x/11.x, IBM WebSphere 5.x,6.x,7.0, IIS Server |
| **Automation Test Tools** | Quality Center (QC), Selenium, JUnit |
| **SCM Tool** | Subversion, GIT, Tortoise SVN, Perforce, Clear case |
| **Monitoring tools** | Nagios, Checkmk, Appdynamics |
| **SDLC** | Agile, Scrum, Waterfall |
| **Provisioning, CI & CD and Container** | Terraform, Jenkin, Mcollective, Docker, Kubernetes, Nexus, Gradle, SonarQube, Bolt, NPM, MSBuild |
| **Platforms** | UNIX, Linux 4/5, Ubuntu, Fedora, Windows 98/NT/XP/Vista/7/8, iOS |

**Professional Experience:**

**Sr. DevOps Engineer Jan 2022 - Present**

**Client: Intel - Santa Clara, CA**

**Responsibilities:**

* Managing a production, development, user acceptance testing infrastructure on Amazon Web Services
* Architected and deployed AWS solutions in various resources, VPC EC2, S3, IAM, EBS, RDS, EBS, Elastic Load Balancer and Auto scaling groups. Security Group, Auto Scaling, and RDS in CloudFormation JSON templates, VPC, Route Tables, Direct Connect, Internet Gateway, Security Groups, and Cloud Watch Monitoring Alerts
* Utilizing AWS Storage Gateways, performed 500+ GBs of Data Migration to AWS S3. Also, Configured AWS IAM and Security Group in Public and Private Subnets in VPC. Supported 400+ AWS Cloud instances and used AWS CLI to manage and configure various AWS products.
* Deployed an Azure Databricks workspace to an existing virtual network that has public and private subnets and properly configured network security groups
* Migrated 100+ servers from on premise to AWS Cloud. Developed strategy to migrate Dev/Test/Production from an enterprise VMware to the IaaS Amazon Web Services (AWS) Cloud environment. Experience in installing and configuring Pivotal Cloud Foundry environments (PCF).
* Worked with Terraform to create stacks in AWS from the scratch and updated the terraform as per the organization’s requirement on a regular basis.
* As part of continuously delivering Agile team, develop, test, and deploy Data platform features Develop & automation using Ansible, Python based framework using Ansible to Setup/teardown of ELK Stack.
* Implemented Amazon Connect using infrastructure-as-code tools like AWS CloudFormation and Terraform to automate the provisioning and configuration of contact center resources, ensuring consistent and repeatable deployments.
* Troubleshooting user logins using various remote login utilities.
* Proficient in troubleshooting system problems.
* Integrated New Relic into CI/CD pipelines to continuously monitor application performance, identifying bottlenecks, and ensuring optimal performance across all stages of the deployment process.
* Developing scripts for build, deployment, maintain related tasks using Jenkins, Docker, MAVEN, Python.
* Developed the Java implementation effort using JavaScript, Servlet, JSP, JDBC, and XML that utilized IBM Websphere Application Server, IBM HTTP Server, DB2. Development tool used is Visual Age for Java.
* Implement CI/CD pipelines with tools like AWS Code Pipeline, Jenkins, or GitLab CI/CD to automate the deployment of containerized applications on AWS EKS clusters.
* Extract Transform & Load data from Sources Systems to Azure Data Storage services using a combination of Azure Data Factory, T-SQL, Spark SQL and U-SQL Azure Data Lake Analytics. Data Ingestion to one or more Azure Services - (Azure Data Lake, Azure Storage, Azure DW) and processing the data in In Azure Databricks.
* Installed, Configured, Administered Jenkins Continuous Integration Tool also automated Continuous Build and deploy Scripts for Jenkins. Also, configured Elastic Load Balancers with EC2 Auto scaling groups.
* Used AWS Beanstalk for deploying and scaling web applications and services developed with Java, PHP, Node.js, Python, Ruby, and Docker on familiar servers such as Apache, and IIS.
* Use of Docker, Kubernetes and OpenShift to manage micro services for development of continuous integration and continuous delivery. Setup Jenkins tool to integrate the JAVA project and maintain Jenkins with CI/CD.
* Setup Datadog monitoring across different servers and AWS services.
* Created Datadog dashboards for various applications and monitored real-time and historical metrics.
* Created system alerts using various Datadog tools and alerted application teams based on the escalation matrix
* Used Terraform Configuration files for creating AWS infrastructure which consist of API Gateway, Elastic Load balancers (Network and Application), IAM roles, DNS using Route S3 services.
* Built Docker images of Elasticsearch, log stash, & Kibana and pushed into Artifactory repositories Also, was a part of team for analyzing micro services management using Docker, Apache Mesos and Marathon.
* Production Support for SDLC cycle by using Docker containers delivered to OpenShift Containers.
* Provisioned, configured, and managed Kubernetes clusters on AWS using EKS, ensuring efficient deployment, scaling, and management of containerized applications.
* Extensive usage of Amazon Web Services (AWS) Virtual Private Cloud (VPC), Cloud Formation, CloudFront, EC2, RDS, S3, Route53, AWS-Lambda, SNS, SQS, Cloud Trail.
* Integration of user-facing elements developed by front-end developers with server-side logic using Node.js.
* Designed, implemented, maintained, and troubleshooting of High available critical applications running on Apache and MySQL/PostgreSQL database
* Used AWS Beanstalk for deploying and scaling web applications and services developed with Java, PHP, Node.js, Python, Ruby, and Docker on familiar servers such as Apache, and IIS
* Enhanced, fixed functional and performance related bugs in core product written in GO (Go Lang).
* Using Datadog Ops monitoring servers and integrates in Cloud watch, Chef, Puppet and Ansible etc.
* Adopt GitOps principles to manage Kubernetes manifests and configurations in Git repositories, ensuring version control, auditability, and automatic synchronization with AWS EKS clusters.
* Experienced in writing terraform modules for automation the Creation of VPC-VPN from data center to Prod environment and Cross account VPC Peering.
* Used Jenkins and Pipelines which helped us drive all micro services builds out to the Docker registry and then deployed to Kubernetes. Used ARM templates and Ansible to install software and automate.
* Developed internal tool Quick Deploy for runbook automation, and automated release and deployment Management process using shell scripts, windows batch, and python with Rundeck and Jenkins.
* Used ANT and MAVEN build tools on java projects for the development of build artifacts on the source code. Converting the ANT Build projects to MAVEN Build projects.
* Good understanding of OpenShift platform in managing Docker containers and Kubernetes Clusters.
* Hands on experience with Docker containers to maintain Docker images, Docker hub & registries.
* Implement comprehensive monitoring for PostgreSQL using tools like Prometheus, Grafana, pgAdmin, or AWS CloudWatch. Track key performance metrics, such as query performance, index usage, and resource utilization.
* Worked on Designing, Installing and Implementing Ansible configuration management and writing playbooks for Ansible using YAML and deploying applications. Test Playbooks on AWS instances using Python. Experimented playbooks for Ansible and deploying applications using Ansible.
* Wrote Ansible Playbooks with Python SSH as the Wrapper to Manage Configurations of AWS Nodes.
* Skilled in monitoring servers using Nagios, Cloud watch and ELK Stack Elastic Search Log stash.
* Integrated Amazon Connect with other AWS services such as Lambda for custom call flows, DynamoDB for data storage, and S3 for call recordings, creating a scalable and flexible contact center solution that leverages the full power of the AWS ecosystem.
* Responsible for the initial installation and configuration of Argo CD in the Kubernetes cluster.
* Utilized Infrastructure as Code(IaC) tools such as Terraform and AWS CloudFormation to automate the provisioning and configuration of infrastructure required for AEM, ensuring environments are consistent, scalable, and easily reproducible.
* Expert in cloud provisioning tools such as Terraform and CloudFormation.
* Experienced in Sonarqube and Splunk. Performed source code review and running of scans using CheckMarx.
* Implemented Terraform modules for deployment of applications across multiple AWS cloud platforms.
* Worked on the sentinel policies for terraform enterprise.
* Managed Kubernetes charts using Helm. Created reproducible builds of the Kubernetes applications, templates Kubernetes manifests, provide a set of configuration parameters to customize the deployment and Managed releases of Helm packages.
* Wrote python scripts using Boto3 to automatically spin up the instances in AWS EC2 and OPSWorks stacks and integrated with Auto scaling to automatically spin up the servers with configured AMIs'.

ENVIRONMENT: AWS EC2, S3, RDS, AMI, IAM, Redshift, AWS-Lambda, VPC, Chef, Java, Git, Jenkins, Terraform, Python, Linux, Bash, Groovy, Windows, PCF, Rest API, Ant, MAVEN, Nexus, Kubernetes, SQL, Selenium, UNIX, SVN, Docker, Jira, Python, Ruby, Shell Scripts, Tomcat, Ansible, Nagios, Splunk.

**Sr. DevOps Engineer Dec 2020 – Jan 2022**

**Client: Amazon – New York, NY**

**Responsibilities:**

* Experience with CI/CD tools and DevOps processes for AWS utilizing Jenkins, Ansible and CloudFormation to build automated pipelines for application deployment.
* 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.
* Created shared NFS file system, mounting and unminting NFS server, NFS client on remote machine, sharing remote file folder, starting &Stopping the NFS services. Buffer incoming events when Splunk process not available using syslog-ng.
* Define accurate ALM process for design, development, testing, deployment and management of code and tools across the organization.
* 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.
* Building/Maintaining Docker container clusters managed by Kubernetes, Linux, Bash, GIT, Docker, on AWS.
* Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test deploy.
* Installed and administered Docker and worked with Docker for convenient environment setup for development and testing.
* Working with the container-based technologies like Docker, Kubernetes along with development of Microservices architecture using Flask micro framework.
* Developed PowerShell scripts and ARM templates to automate the provisioning and deployment process.
* Deploying applications on Kubernetes using Terraform, Helm Charts.
* Defined AWS Security Groups which acted as virtual firewalls that controlled the traffic allowed to reach one or more AWS EC2 instances. Used Elastic cache to setup, manage and scale a distributed cache-in environment in the cloud.
* Working AZ Cloud resources and migrating applications.
* Testing the micro services API endpoints using Swagger (Rest plus), Postman.
* Developed an ETL process to pull dealer data from snowflake to Oracle for Drive Train Consumer needs
* Deploying Elastic search to assist with environment logging requirements. Created different variations of Kibana dashboard running different instances of Elastic search, Logstash and Kibana and Kubernetes.
* Responsible for planning index and shards and index TTL strategies in Elastic search. Troubleshooting Elastic search errors.
* Postgres SQL widely using for open-source RDBMS while snowflake is multi-structured data handler.
* Involved in writing Java API for AWS Lambda to manage some of the AWS services and Kubernetes.
* Have designed Lambda function to detect and trigger the application whenever there a document is uploaded to AWS s3 bucket.
* Migration project from Oracle to Snowflake warehouse to meet the SLA of customer needs, Created ETL mapping document and ETL design templates for the development team.
* Implemented and maintained Chef Configuration management across VMware and AWS cloud environments.
* Created ETL pipelines using Stream Analytics and Data Factory to ingest data from Event Hubs and Topics into SQL Data Warehouse.
* Upgraded and patched Oracle database on Windows and Unix servers
* Scheduled various AWS Lambda functions to trigger various AWS resources.

**Environment**: SVN, Maven, Ansible, GIT, JIRA, WebLogic, JFrog Artifactory, AWS, Cloud, IAM, Jenkins, Python, My SQL, Redis, API, TCP/IP, Grafana, Postman, Swagger, Bitbucket, Helm Charts

**Aws DevOps Engineer Jan 2018 – Dec 2020**

**Client: Microsoft - Newark, NJ**

**Responsibilities:**

* Developed a comprehensive strategy for cloud migration and implemented best practices utilizing AWS services such as Database Migration Service and AWS Server Migration Service to seamlessly transition from On-Premises to the cloud.
* Manage system routine backups, scheduling jobs, enabling cron jobs, enabling system logging and network logging of servers for maintenance. Installing and supporting Apache on Linux production servers.
* Working with Network backup administrators to schedule and run full backups of the Linux servers.
* Experience in performing automated tasks using puppet modules, creating profiles and manifests and deploying them across multiple servers. Create virtual machines using VMware VSphere client 4.x, 5.x.
* Expertise on AWS services like ELB, EC2, S3, VPC, Cloud Formation, Route 53, Network Connectivity, and troubleshooting.
* Experience in both framework and designing of AWS cloud models for Infrastructure-as-a-Service (IAAS) and Platform-as-a-Service (PAAS)
* Know-how on effective implementation of IAM service by creating users & groups, defining roles and policies and Identity providers.
* Used Chef to automate the application deployment process by creating cookbooks, recipes, Deployed and maintained chef rolebased application servers, including Apache, Nginx and Tomcat
* Managing the OpenShift clusters that includes scaling up and down the AWS app nodes.
* Good usage of AWS Cloud Formation templates for creating custom sized VPC, subnets, NAT along with the ability to deploy on AWS, using build scripts (AWS CLI) and automate solutions using Shell and Python.
* Created cloud formation templates for provisioning virtual private networks (VPCs), subnets, VM Scale sets, Load balancers and NAT rules and used Terraform graph to visualize execution plan using the graph commands.
* Expertise in the entire Kubernetes Cluster setup, Helm Charts for managing the deployments, Service Mesh, Istio, Weave net for Networking, Prometheus and Grafana for logging, monitoring, visualization.
* Develop and implement disaster recovery and high availability strategies for Windows Server environments.
* Worked on developing the architecture of microservice models with various software techniques like Docker Containerization and collaborated with the development support teams to set up a continuous delivery environment with the use of Docker.
* Create new projects and azure environments for onboarding teams using the integrated Node.js scripts, Shell, Python and PowerShell scripts
* Developed and maintained chef cookbooks for various services like Artifactory, GitLab, Media Wiki, OMS, Jenkins, LinOTP. Write unit tests and integration tests for the chef recipes and test them using the kitchen. Write test cases for Shell, PowerShell, Node.js using BATS, pester and mocha, respectively.
* Expertise in areas of Jenkins such as Plugin Management, Securing and scaling Jenkins, integrating Code Analysis, Performance issues and worked with test Phases to complete the CI/CD pipelines within Jenkins.
* Proficient in writing Python scripts that can calculate the performance parameters and implementing Shell and Python scripts for release and build automation in a Linux Environment.

**Environment**: AWS, EC2, RDS, ELB (Elastic Load Balancing), S3, SysOps, Cloud watch, Splunk, Cloud Formation, Route53, Lambda, MAVEN, Nexus, Chef, Terraform, Jenkins CI/CD, Nagios, Jira, SHELL, Python, VPC, Autoscaling, Apache, Nginx, Tomcat, GIT, Docker, Kubernetes.

**Aws DevOps Engineer Oct 2015 – Dec 2017**

**Client: Apple - Austin, TX**

**Responsibilities:**

* Worked with Amazon AWS Cloud Services such as EC2, S3, EBS, ELB, Cloud Watch, Elastic IP, RDS, SNS, SQS, Glacier, IAM, VPC, ECS, Cloud Formation, Route53 and managing security groups on AWS, focusing on high-availability, fault tolerance, and auto-scaling principles in cloud architecture design and implementation.
* Designed and implemented Virtual Private Clouds (VPCs) with custom network configurations, security groups, and Network Access Control Lists (NACLs) to isolate and secure AWS resources.
* Implement robust monitoring and logging solutions using AWS CloudWatch, providing real-time insights into the performance and health of Fargate and ECS environments.
* Worked with Splunk for easy monitoring of applications, services, network protocols, and email monitoring with powerful script APIs.
* Streamlined interactions with cloud services by securely managing AWS access and secret keys through HashiCorp Vault's AWS secrets engine
* Upheld the confidentiality of financial transactions by configuring HashiCorp Vault's transit secrets engine for secure encryption and decryption of data in transit.
* Migrated dataset from MS SQL/Oracle to Aurora PostgreSQL on AWS using Data Migration Service.
* Led the development of Proof of Concepts (PoCs) for new observability solutions, demonstrating feasibility and value to stakeholders before broader implementation.
* Developed and customized Loki queries to extract valuable information from logs, supporting troubleshooting efforts and improving the efficiency of log analysis.
* Collaborated closely with development teams to instrument applications with Tempo, promoting a proactive approach to understanding and optimizing system interactions.
* Utilized SaltStack to manage and enforce encryption policies across Hadoop components.
* Established Direct Connect and VPN connections for secure on-premises network connectivity to AWS resources.
* GitLab CI/CD on GKE with Kubernetes and Docker, streamlining build, test, and deployment.
* Worked with Terraform to create AWS components like EC2, IAM, VPC, ELB, Security groups.
* Converted existing Terraform modules that had version conflicts to utilize cloud formation during Terraform deployments to enable more control or missing capabilities.
* Established robust alerting mechanisms using Mimir, ensuring timely notifications for critical events and proactively addressing potential issues.
* Championed the adoption of Infrastructure as Code (IaC) principles, configuring ADO Pipelines using YAML to define, version, and manage pipeline configurations in a code repository.
* Implement database replication and backup strategies within the scope of Apache Airflow to safeguard critical workflow metadata.
* Implement and enforce robust security measures within Apache Airflow, including SSL/TLS encryption, RBAC, and secure storage of sensitive data in AWS Key Management Service (KMS)
* Led the analysis and visualization of OpenTelemetry-generated data, creating insightful dashboards and visualizations to provide stakeholders with a comprehensive view of system performance.
* Designed AWS Cloud formation templates to create custom-sized VPC, subnets, and NAT to ensure successful deployment of web applications and database templates.
* Manage release pipelines and deployment processes in TFS, orchestrating the deployment of applications to various environments, including production, with minimal downtime.
* Integrated Grafana with external services such as alert notification systems, facilitating cross-platform communication and ensuring alerts are communicated through preferred channels like email or messaging apps.
* Created Cloud formation template which will spin up the EC2 instance and install Jenkins on the EC2 instance.

**Environment:** AWS (Amazon Web Services), Terraform, Chef, OpenShift, Jenkins, GIT, GitLab, Maven, Puppet, JIRA, Nagios, Splunk and Python Scripting, Bash, Python and PowerShell Scripting, .NET, NGINX, Durpal, Hadoop, Spark, Hashicorp Open Telemetry