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**Erick Manu**

**Senior AWS DevOps/ Cloud Engineer**

**Summary:**

* **9+ Years of Experience as DevOps/Cloud Engineer and strong background in Configuration Management, Cloud Implementation, Networking and Linux OS administration.**
* Experience managing several AWS services like **EC2, S3, EBS, RDS, ELB, Route 53, Auto scaling, Security Groups, SSM, ACM, Cloudwatch.**
* Management of several services through **aws-cli** tool.
* Experience in bulk management using cloud solution **AWS SSM**.
* Creation, management and debugging of **bash** scripts for cloud tasks automation.
* Experience in software Release management, Deployment and Build management using AWS tools (**CodeCommit, CodeBuild, CodeDeploy, CloudFormation**).
* Experience managing baselines, maintenance windows and compliance through **SSM Patch Manager** .
* Experience with AWS container services: **Docker, AWS ECS.**
* Experience in cloud container orchestration tools **Kubernetes,** **EKS, KOPS.**

Experience in service mesh environments **Istio, Envoy**.

* Management of cloud audit services **CloudTrail, CloudWatch, Aws Config.**
* Experience creating and manging cases with **Aws Support**.
* Creation and management of **CloudFormation** templates.
* Experience managing IAC infrastructure with **Terraform** through CI/CD model (**Github, CodeBuild, CodeDeploy**).
* Experience setting up AWS networking configuration (**VPC, subnets,Internet gateways, Vpc peering, Security groups, AWS Flow logs**)
* Experience in creating and troubleshooting **AWS VPNs** with on-premises infrastructure devices.
* Experience in **Cisco firewalls** configuration.
* Experience in general OSI networking model (**subnets, IP, Firewall, ACLs, VPN, TCP, UDP, TLS, DNS, HTTP, HTTPS**)
* Management of SSL certificates in **AWS ACM** and non-cloud.
* Configuration and management of **AWS cloud Loadbalancers** as in bare metal (**F5**)
* Experience managing **Linux based OS (Red Hat, Ubuntu, Amazon Linux).**
* Experience working with **Web Application software (Jboss, Tomcat, Glassfish, Apache)**
* Creation and management of **Ansible playbooks**.

**Skills:**

**Operating Systems** Red Hat Enterprise Linux, Centos, Ubuntu, Windows 10, Mac OS

**Cloud Services** AWS, Azure, GCP

**Microservices** Containerization (Docker, Kubernetes), Istio Service Mesh, Openshift

**Infrastructure as Code** Terraform, CloudFormation, Deployment Manager

**Scripting Languages** Bash, Python (Boto3)

**Database** SQL Server

**Application/Web Servers** Apache Tomcat, NGINX, HTTP, Glassfish Jboss

**Networking** Firewalls, Loadbalancers, VPNs, TCP, UDP, TLS, HTTP, HTTPS

**Automation/Monitoring tools** Ansible, Nagios, Zabbix,Datadog, AWS Cloudwatch

**Source/Version Control Tools** GIT, CodeCommit JIRA

**Build Tools** Maven, CodeBuild, Jenkins, Vagrant

**Certifications:**

* AWS Certified SysOps Administrator - Associate
* Google Cloud Associate Engineer
* HashiCorp Certified: Terraform Associate
* Certified Kubernetes Administrator
* Az 400 Certified (Azure)

**Education:**

* Bachelor’s in Computer Engineering, Universidad Nacional Autonoma de Mexico, Mexico.

**Professional Experience:**

**F5 Networks, Boulder, CO January 2022 – till present**

**Role: AWS DevOps Engineer / Cloud Native Apps Engineer**

**Responsibilities:**

* Interact with cutomers through ticketing systems to address issues on Enterprise **Istio Service Mesh** solution.
* Experience in tracking reported bugs as well as RFEs.
* Support on Istio Service Mesh objects (**Ingress Gateway, Destination Rules, Virtual Services, Services, PeerAuthentication**)
* Experience working with **Kubernetes objects (Pods, Services, Deployments, ConfigMaps, DaemonSets)**
* Worked on software containerization platforms like **Docker** and container orchestration tools like **AWS EKS - Cluster, KOPS clusters.**
* Experience installing add-ons to **Kubernetes clusters** trough **Helm.**
* Management of Infrastructure as code templates in **AWS CloudFormation** and **Terraform.**
* Configure networking on **Aws VPC** to allow **Kubernetes** environments to run properly.
* Experience in **Shell** scripting to automate Kubernetes installation and testing tasks.
* Experience working with **Openshift 4.x** clusters (Creation, Management, Deletion)

**Environment:** AWS, EKS, Kubernetes, Open Shift, Istio Service Mesh, Networking, Terraform, Helm charts.

**Thomson Reuters, NYC, NY/ MX June 2021 – December 2021**

**Role: AWS DevOps Engineer / Site Reliability Engineer**

**Responsibilities:**

* Installation of datadog agent on EC2 instances (windows, linux, Amazon Linux)
* Configuration of **Datadog monitors, metrics, APM tracing, alerts.**
* Experience in **Configuring Virtual servers, EC2,** and **Elastic IP** also by using **Amazon machine Image**.
* Automated build and deployment using Jenkins to reduce human error and speed up production processes.
* Worked on software containerization platforms like **Docker** and container orchestration tools like **AWS ECS - Cluster, Services, Task Definition.**
* Extensive experience working with **SSM Patch manager** (compliance, baselines, maintenance windows).
* Deploying and managing the configurations using **Ansible playbooks**.
* Used **GIT** version control to manage the source code and integrating GIT with build automation.
* Creation of bash scripts for task automation in aws cloud.
* Responsible of executing application release through CI/CD model **(CodePipeline, Jenkins, CodeBuild , CloudFormation, ECS)**.

**Environment:** EC2, CodePipeline, CodeBuild, Ansible, Linux, Windows, IIS, Apache, Bash, Jenkins.

**Rackspace Technology, Mexico City, MX Oct 2018 – June 2021**

**Role: Aws DevOps Engineer/ Aws Cloud Engineer**

**Responsibilities:**

* Interact with aws managed accounts customers to create AWS resources (**EC2, RDS, S3, ACM, Loadbalancers, VPNs, Route 53, AWS catalog, S3**).
* Integration of ACM and non-cloud certificates in AWS with different resources.
* Develop and manage AWS infrastructure templates (CloudFormation, Terraform)
* Worked with **AWS Cloud Automation** tools **(SSM, aws-cli, Lambda, Boto3)**.
* Responsible for creating **SSM Patch manager** solutions for customers, considering customed baselines.
* Implementing a Continuous Delivery framework using **Git, Jenkins,CodeBuild, CodePipeline, CodeDeploy**.
* Creation of maintenance windows for infrastructure changes.
* Continous interaction with AWS support for reported bugs and downtimes .
* Maintain exisiting IAC templates on **Terraform** through CI/CD model (Git, CircleCI, Jenkins, Codebuild).
* Used **GIT** version control to manage the source code and integrating GIT with Jenkins to support build automation.
* Experience creating **AWS CloudWatch** monitors in bulk through bash scripting and aws-cli tools.
* Execute bulk operation through **SSM automation**.
* Support **AWS Catalog** products (**CloudFormation templates**)
* Experince in **Bash** shell scripting for writing up scripts for automation of day to day activities.
* Execution of maintenance windows keeping constant communication with customers.
* Participated in troubleshooting calls regarding failing AWS services.
* Responosble for mentoring new hires.
* Participated in large Kubernetes environments manintenance windows.
* Experience working with container solutions in AWS (**ECS, EKS, Kops**)
* Experience setting up and troubleshooting AWS networking (VPC, subnets, Security Groups, Aws Flow logs, Internet Gateway, Nat Gateway, VPNs)

**Environment:** EC2, aws-cli, Loadbalancers, S3, IAM, CloudFormation, SSM, Route 53, Bash

**Banco Azteca, Mexico City, MX January 2017 – June 2018**

**Role: DevOps Engineer/ Linux Middleware administrator**

**Responsibilities:**

* Managing applications on **AWS** and migration to AWS.
* Cloud Automation, Devops, CI CD continuous Integration and Continuous Deployment. Automation with **Bash, Ansible, GIT and Jenkins**.
* Maintained and monitoring System Activities like **CPU, Memory, Disk and Swap space** usage to avoid any performance issues.
* Experience in installing, integrating, tuning and troubleshooting **Apache**, **Jboss** and **Tomcat** application server.
* Wrote Bash scripts to automate system admin task.
* Proposed and implemented the Branching schema to automate the Continuous Integration and deployment process.
* Created and Presented architectural Diagrams
* Integrated Enterprise Jenkins with **GitLab** to trigger builds from merge requests and tags.
* Wrote Ansible scripts to automate the installation of various tools.
* Filing bug reports and updating of tasks in **JIRA**.
* Used **AWS** **EC2** services (Creation, Automation, Deleion of instances).
* Performed application installation and management on Linux servers for applications like **JBoss 4.2.x, 5.x, Apache.**
* Activities include user administration; startup and shutdown scripts; **crontab, file system maintenance**, backup scripting and automation using **Perl, shell scripting (bash, ksh)** for Red Hat Linux systems.

**Environment:** EC2, Route 53, Apache, Tomcat, Jboss, Linux, Bash

**Universidad Nacional Autonoma de Mexico, Mexico City, MX June 2014 – Jan 2017**

**Role: Systems Engineer / NOC Engineer**

**Responsibilities:**

* Administration and maintenance of **Red hat** Linux, Ubuntu, Fedora
* Worked configuring and managing Cisco firewalls and Routers.
* Responsible for installing and configuring network devices.
* Active member of the University’s NOC responding to network issues and interacting with providers.
* Reponsible for setting up monitors in **Nagios**, and configure SNMP in networking devices.
* Used several networking protocols **OSPF, BGP, TCP, UDP, DNS.**
* Worked on **Oracle** and **MySQL** Databases and performed performance tuning and troubleshooting.
* Worked on User administration setup, maintaining account, Monitor system performance.
* Creation of bash scripts to automate task in network monitoring servers.
* Troubleshooting day-to-day server related issues and problems in terms of operating system, applications and network
* Maintained and monitoring System Activities like **CPU, Memory, Disk and Swap space** usage to avoid any performance issues in monitoring servers
* Experience in installing, integrating, tuning and troubleshooting **Apache** application server.
* Created **Ansible playbooks** to install different tools on NOC monitoring servers.
* Managing IT department's LAMP stack and configuration management.
* Installation of **SAMBA 3.3.x** server for interface between Linux servers and Windows servers to share files.
* Install and configure **SSH** to enable secure access to the servers.
* Modified the Linux kernel to add tracing probes for Configuration access tool.
* Good experience in using CLI in linux and overall knowledge of administrative tasks.
* Experience in **Shell** scripting **bash** to automate system administration jobs

**Environment:** Networking, NOC, Apache, Linux, Ansible, Bash