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SUMMARY:

- Over 8 years of extensive DevOps experience is brought, with specialization in **AWS Cloud platforms and their features**. Expertise includes the design of robust build processes, automation of software product development, and management of **CI/CD pipelines** for efficient deployment and release management. A strong background in Linux Administration ensures smooth operations across environments.
- Cloud DevOps Engineer with extensive expertise in Cloud (Azure, AWS, GCP) environments, adept at implementing Configuration Management, Infrastructure Automation, and Continuous Integration and Delivery (CI/CD) strategies.
- Demonstrated skill in writing **Infrastructure as Code** (IaC) using **Terraform, CloudFormation, ansible** and Azure Resource Management, with a focus on creating reusable Terraform modules for both Azure and AWS cloud platforms.
- Proficiently involved in Infrastructure Development and Operations, leveraging a wide range of AWS Cloud Services, including **IAM**, **EC2, EBS, VPC, RDS, SES, ELB, Auto Scaling, CloudFront, CloudFormation, Elastic Cache, API Gateway, Route 53, CloudWatch, and SNS**.
- Expertise in building robust CI/CD pipelines in the AWS environment, leveraging tools like AWS Code Commit, Code Build, CodeDeploy, and CodePipeline, while ensuring infrastructure security using AWS CloudFormation, API Gateway, and AWS Lambda.
- Experienced in transitioning existing AWS infrastructure to a **Serverless architecture** (AWS Lambda, AWS Kinesis) by designing and implementing a Serverless Architecture using **AWS Lambda, API Gateway, Route 53, and S3 buckets**.
- Proficient in Kubernetes for deploying, scaling, and managing **Docker containers**, utilizing **Helm charts** for multiple names spaced versions.
- Skilled in managing managed Kubernetes services, such as **Google Kubernetes Engine (GKE), Azure Kubernetes**, and **AWS Elastic Container Service, Amazon Elastic Kubernetes service**.
- Hands-on experience with OpenShift for advanced container orchestration using Kubernetes, container storage, and automation to enhance container platform multi-tenancy.
- Expertise in **OpenShift and Kubernetes architecture** and design, proficient in troubleshooting issues, and well-versed in multi-regional deployment models for large-scale applications.
- Ability to grasp latest technologies and to properly apply new tools like **Docker** to **build applications**.
- Extensive use of **docker** marathon to build, ship and run Distributed Applications.
- Proficient in creating Docker images using Docker file, managing Docker snapshots, images, and volumes, and implementing Docker automation solutions for CI/CD models.
- Extensive experience in administering **Jenkins CI tool** on Linux machines, effectively utilizing Jenkins Pipelines to drive Microservices builds and deploying them to Kubernetes, with efficient management of Pods.
- Involved in **API development using Kubernetes** to manage container replicas in the cloud environment, effectively utilizing Kubernetes features like Nodes, Pods, ConfigMaps, Selectors, and Services.
- Expertise in configuring monitoring and alerting tools, like **Prometheus and Grafana,** to ensure optimal performance and operational visibility, with the deployment of multiple dashboards for various applications in Kubernetes.
- Experience in Configuration Management tools such as **Chef, Ansible, and Puppet,** proficiently crafting Chef recipes and cookbooks using Ruby scripting.
- Experienced in **Ansible Tower**, a user-friendly dashboard with role-based access control, proficient in creating Ansible playbooks to manage application/OS configurations stored in GIT hub, integrated with Jenkins, and verified with Jenkins plugins, and efficiently deploying applications in Linux environments.
- Expert in configuring **Continuous Integration (CI) workflows in Jenkins**, setting up build, code, deploy, and test automation jobs for diverse applications, and implementing Codeship for automated branch and project creation in Git using Groovy language within Jenkins files, along with seamless automation using Ansible.
- Professionally deployed and configured **Elasticsearch, Logstash, and Kibana (ELK)** in addition to AWS Kinesis for effective log analytics, while also displaying adeptness in monitoring servers using Nagios, Splunk, AWS CloudWatch, Azure Monitor, and ELK.
- Skilled with a wide range of scripting languages, including **Python, Bash/Shell, PowerShell, Ruby, Perl, PowerShell, JSON, YAML, and Groovy**, effectively developing scripts to automate administrative tasks and streamline build and release processes.
- Possesses in-depth knowledge and hands-on experience in implementing Service-Oriented Architecture (SOA) using XML based SOAP/RESTful API Web Services.
- **AWS Certified Solution Architect – Associate**, showcasing expertise in AWS cloud architecture and solutions design.

- Involved in 24x7 on-call production support and troubleshooting all types of problems related to OS and Applications.
- Worked with project development teams following Agile & Waterfall methodologies that design source code branching, release life cycles and CI/CD pipelines based on pace and project deliverables.

CERTIFICATIONS

- **AWS Certified Solution Architects- Associate**. (**Active**)   Validation Number **F3M2P452324E1GG1**
- **Azure Administrator - Associate**   (**Active**)   Validation Number **MP8TPEXVP2VEQ299**
- **HashiCorp Certified: Terraform Associate (003)** (**Active**)   Validation Number **z09MlKjeM2i80gnaPk5uHw**

TECHNICAL SKILLS

Cloud Environment	AWS, Azure, Google Cloud platform
Containerization Tools	Kubernetes, Docker, Mesos, Docker Swarm
Configuration Management Tools	Chef, Ansible, Puppet, Terraform CLI, Terraform Cloud, Terraform Enterprise
Continuous Integration Tools	Jenkins, Hudson, Bamboo, Gitlab, GitHub Actions
Build Tools	Maven, Ant, Gradle, SaltStack
Version control tool	Subversion (SVN), GIT, GIT Hub, Git Lab, Bitbucket.
Artifactory repositories	Docker Hub, Artifactory (AY), Nexus, Nginx
Bug Tracking Tools	Jira, Bugzilla
Monitoring Tools	Nagios, ELK, Splunk, Datadog, AppDynamics, Grafana, Prometheus
Databases	SQL 2012/2008/2005, PL/SQL, Oracle 11g/10g/9i
Scripting tools	Python, Perl, Bash, Java Script, Ruby, Power shell, YAML, Groovy
Web/Application Servers	WebSphere, Apache, Tomcat, JBOSS, WebLogic
Network Services	SSH, TELNET, TCP/IP, HTTP, SMTP, WinSCP, Raid Levels
Operating Systems	UNIX, Linux, Solaris, Red Hat 4.x, Windows NT2000/7/XP/Vista, Windows Server 2008.

WORK EXPERIENCE

Fidelity Investments   **June 2020 – Present**
Role: Sr. AWS DevOps Engineer
Responsibility:
- Focused on automation, integration monitoring and configuration management.
- Streamlined applications delivery to get applications out to customers faster.
- Worked as **solution architect** to design architecture for application deployment and deployed api-gateway and front-end through **Kubernetes helm chart** and **EKS.**
- Worked on designing, maintaining, and deploying mobile applications in **Amazon EKS** (Elastic Kubernetes Service) using various AWS cloud services **IAM, EC2, Route 53, S3, VPC, Auto scaling and Elastic Load Balancing**.
- Accomplished Infrastructure Engineer with a focus on automation, managed operations, and cloud security, collaborating closely with multiple teams to ensure seamless execution.

- Accountable for maintaining and overseeing multiple environments (Dev, QA, staging, production) with a strong emphasis on **Infrastructure as a code** using **Terraform** to create **AWS resources** like EC2 instances, DNS entries, and log groups, stored in code-commit for future reference.
- Implemented **Palo-Alto firewalls** for identifying unknown malicious files, executed in a secure virtual cloud-based environment.
- Proficiently installed and configured Nginx web servers and effectively set up redirects.
- Created CloudWatch alerts for proactive monitoring of high CPU utilization, disk space utilization, and network utilization, promptly notifying the support team of any potential issues.
- Experienced in utilizing **Kubernetes and Docker** for the runtime environment of the CI/CD system, facilitating efficient build, testing, and deployment processes.
- Developed **AWS Config to track resource inventory and configuration changes**, integrating AWS infrastructure with Red Lock to ensure compliance with CIS, HIPPA, and NIST standards.
- Implemented and fine-tuned **security groups** for optimal infrastructure security, collaborating with application SMEs to identify required ports for applications.
- Designed, deployed, and maintained **AWS Virtual Private Cloud (VPC) infrastructure**, focusing on enhancing security by auditing existing AWS security rules.
- Created artifacts, run-books, and POAMs for CIS and NIST Audit controls in collaboration with the audit team.
- Responsible for integrating **AWS logging components** (CloudTrail, CloudWatch) with IBM QRadar for enhanced monitoring and security.
- Expertly set up and built various AWS infrastructure resources, including **IAM, VPC, EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS using CloudFormation JSON templates**.
- Configured auto scaling in customized VPC, utilizing elastic load balancer (ELB) traffic and ELB health checks to trigger auto scaling actions.
- Developed and maintained Docker container clusters managed by Kubernetes, with strong proficiency in Linux, Bash, GIT, and Docker.
- **Migrated the Linux environment to AWS**, creating and executing a comprehensive migration plan, deploying EC2 instances in VPC, and configuring security groups and **NACL**'s.
- Effectively deployed and maintained production environments using AWS EC2 instances and Elastic Container Services with Docker.
- Supported and optimized AWS cloud infrastructure for production, staging, and development environments, proactively troubleshooting performance issues and resolving production incidents.
- Managed **Jenkins pipelines** and **Gitlab pipelines** to drive microservices builds, deploying them to the Docker registry, and subsequently managing them using Kubernetes Pods.
- Proficiently used **Bash Shell Scripting** for automation of cron jobs and played a pivotal role in implementing Continuous Integration and Continuous Delivery processes using Git/SVN, Jenkins, Maven, and Chef.
- Expertise in Kubernetes architecture, including masters, slaves, **RBAC, helm, kubectl, and ingress controllers**, to ensure efficient container management.
- Skilled in data analytics and visualization tools, such as **Elastic Search, Kibana, and Grafana**, to build effective application metric monitors.
- Built visualization and Dashboards using Kibana, leveraging Grok patterns in logstash.
- Configured logstash for input, filter, and output plugins, integrating databases and log files as sources and Elastic Search as an output for efficient search indexes.
- Demonstrated expertise in Elasticsearch capacity planning and cluster maintenance.
- Written custom plugins to enhance and customize open-source code as needed, using Salt Scripts for managing, expanding, and node replacement in large clusters.
- Effectively synced Elasticsearch data between data centers using **Kafka and logstash**, ensuring data consistency.
- Worked on handling Kubernetes architecture, nodes, kubelets, kube-proxy, and services, ensuring seamless container deployment and management.
- Proficiently utilized AWS Elastic Container Service (ECS) to create scalable Docker infrastructure for Microservices, ensuring smooth application delivery.
- Designed infrastructure for **ELK Clusters**, overseeing Elasticsearch and Logstash performance and configuration tuning.
- Snapshot Elasticsearch Indices data and archive in the repository every 12 hours, ensuring data integrity and backup.
- Installed and configured curator to delete indices older than 90 days, effectively managing Elasticsearch data.
- Developed APIs for integration with various data sources and implemented cloud-based integrations with Elastic.
- Effectively migrated Data from **Elasticsearch-1.4.3** Cluster to Elasticsearch-5.6.4 using logstash and Kafka for all environments, ensuring data continuity.

- Utilized GCP networking concepts like VPCs, subnets, firewalls, and load balancing to design secure and scalable network architectures.
- Proficient in configuring and managing GCP monitoring and logging tools like Stack driver and Prometheus to ensure high availability and performance of GCP applications.
- Developed custom scripts in Python and Bash to automate routine tasks and enhance **GCP infrastructure management**.
- Familiarity with **GCP** security best practices and compliance standards, including **GDPR, HIPAA, and PCI DSS**, to ensure data protection and regulatory compliance.
- Experienced in managing and securing GCP resources through proficient use of **Identity and Access Management (IAM)** and implementation of other security best practices.
- Adept in handling application migration from on-premises to GCP, alongside managing hybrid cloud environments with seamless efficiency.
- Well-versed with diverse GCP services, including **Cloud SQL, Cloud Storage, Cloud Functions,** Cloud Pub/Sub, and Cloud Run, proficiently integrating them into application frameworks and automation workflows.
- Knowledgeable in Google Cloud AI and Machine Learning services, effectively incorporating them into application development and automation workflows.
- Configured **logstash** for input, filter, and output plugins, integrating databases and log files as sources and Elastic Search as an output for efficient search indexes.
- Designed infrastructure for ELK Clusters, overseeing Elasticsearch and Logstash performance and configuration tuning.
- Developed APIs for integration with various data sources and implemented cloud-based integrations with Elastic.
- Effectively synced Elasticsearch data between data centers using **Kafka** and **logstash**, ensuring data consistency.
- Snapshot Elasticsearch Indices data and archive in the repository every 12 hours, ensuring data integrity and backup.

ServiceNow, Dallas, Texas   **October 2018 – May 2020**
Role: DevOps Engineer
Responsibility:

- Experienced in designing and implementing solutions using various **GCP services, including Compute Engine, Kubernetes Engine, App Engine, Cloud Storage, Cloud SQL, and Cloud Pub/Sub**.
- Proficient in utilizing infrastructure as code tools like **Terraform and Cloud Deployment Manager for automating infrastructure provisioning and management**.
- Skilled in setting up CI/CD pipelines with **Jenkins, GitLab CI/CD, and Cloud Build** to enable continuous integration, testing, and deployment on GCP.
- Expertise in using **Kubernetes and Istio** for container orchestration and managing scalable containerized applications on GCP.
- Knowledgeable in **GCP** networking concepts like **VPCs, subnets, firewalls**, and **load balancing** to design secure and scalable network architectures.
- Experienced in configuring and managing **GCP monitoring** and logging tools such as **Stackdriver** and Prometheus to ensure high availability and performance.
- Proficient in scripting languages like Python and Bash for automating tasks and developing custom tools for GCP infrastructure management.
- Familiar with GCP security best practices and compliance standards like GDPR, HIPAA, and PCI DSS for data protection and regulatory compliance.
- Skilled in troubleshooting and resolving issues related to **GCP infrastructure, applications, and services using tools like Cloud Trace and Cloud Debugger**.
- Ability to collaborate effectively with cross-functional teams, including developers, QA, and operations, to deliver high-quality software products on time and within budget.
- Involved in supporting **cloud instances running Linux and Windows on AWS, with experience in Elastic IP, Security Groups, and Virtual Private Cloud**.
- Implemented the presentation layer using HTML, XHTML, JavaScript, Ajax, and CSS, along with audio and video streams for training purposes.
- Performed custom frontend development with PHP, HTML, CSS, JavaScript, and interfaced with third-party JSON services.
- Created monitors, alarms, and notifications for **EC2 hosts using CloudWatch and utilized Jenkins Code Deploy plugin for automated deployments to Tomcat servers**.
- Utilized Bootstrap Script for launching numerous instances in AWS and automated backups of ephemeral data-stores to S3 buckets and EBS using AWS CLI.

- Used Ansible for configuration management of hosted instances within AWS and designed AWS CloudFormation templates for successful deployment of web applications and databases.
- Setup and built **AWS infrastructure, including VPC, EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS, using CloudFormation JSON templates**.
- Deployed OpenStack workloads on AWS and focused on containerization and immutable infrastructure with Docker and Kubernetes.
- Experienced in **Docker Swarm**, deploying spring boot applications, and managing enterprise-level Docker containers.
- Created Docker images, managed snapshots, and implemented automation solutions for Continuous Integration/Continuous Delivery.
- Scheduled jobs using Ansible Tower and wrote Python modules for Ansible customizations.
- Worked with **SPLUNK** for log analysis and performance improvement, and monitored servers using tools like BMC and Nagios.
- Configured and managed **ELK stack** for log analysis and system evaluation.
- Integrated JIRA with Atlassian Confluence and/or Stash.
- Coordinated with management and various teams throughout the product development life cycle on multiple projects.
- Architected and configured virtual data centers in **AWS cloud**, including **VPC**, **Subnets, Security Groups, and Route Tables.**
- Implemented **CI/CD pipeline**s using **Jenkins, Maven, Nexus, GitHub, Chef, Terraform, and AWS**.
- Configured **Amazon S3, Elastic Load Balancing, IAM, and Security Groups in Public and Private Subnets within VPC**.
- Worked on migration services like AWS **Server Migration Service (SMS) and AWS Database Migration Service (DMS).**
- Implemented **AWS Elastic Container Service** (ECS) scheduler and automated application deployment with Docker.
- Wrote **Python scripts using Boto3** to automatically manage **AWS resources and integrated Git with Jenkins and Jira for version control and monitoring**.
- Designed various Jenkins jobs for continuous integration and executed CI/CD pipelines using Jenkins, Ansible Playbooks, and Ansible Tower.

GIECO, Dallas, Texas   **June 2015 – Sept 2018**
Role: DevOps Engineer
Responsibility:
- Build and configured a virtual data centre in **AWS cloud to support Enterprise Data Warehouse hosting including VPC, public and private subnets, security groups, Route Tables, Elastic Load Balancer**.
- Continuously managed and improved the build infrastructure for global software development engineering teams including implementation of build scripts, continuous integration infrastructure, and deployment tools.
- 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.
- Configured and migrated applications to **AWS Route 53** and hence providing traffic management, application availability and high availability.
- Created Python scripts to automate AWS services which includes **Web servers, ELB, Cloud Front distribution, Database, EC2, database security groups and S3 bucket, IAM and SNS.**
- Created S3 buckets and managed policies for **S3 buckets** and utilized S3 bucket and glacier for Archival storage and backup on AWS.
- Created and managed cloud VMS with **AWS EC2** command line clients and AWS management console
- Developed and supported the software Release Management and procedures.
- Planned and released schedules with agile methodology & coordinated releases with engineering & SQA for timely delivery.
- Worked in **Agile/scrum** environment and used **Jenkins, GitHub for continuous Integration and deployment**
- Created **GIT repositories** and specified branching strategies.
- Implemented & maintained the Branching and Build/Release strategies utilizing GIT source code management.
- Created **Post Commit and pre-push hook**s using **Python in SVN and GIT repos**.
- Written make, maven and Ant build tools for application layer modules.
- Developed build and deployment scripts using **ANT and MAVEN** as build tools in Jenkins to move from one environment to another environment.
- Experienced in designing and implementing continuous integration system using Jenkins by creating **Python and Perl scripts.**

- Configured **Jenkins to implement nightly build** on daily basis and generated change log that includes change happened from last 24 hours.
- Experienced in **writing chef recipes to automate our build/ deployment process** and do an overall process improvement to any manual processes.
- Written **wrapper scripts to automate deployment of cookbooks on nodes and running the chef client on them** in a chef-solo environment.
- Using **Ansible to setup/teardown of ELK stack** (Elastic Search, Logstash, Kibana)
- Configuration automation and centralized management with Ansible. Implemented Ansible to manage all existing servers and automate the build/configuration of new servers.
- Created **automation of infrastructure deployment of AWS architecture using Terraform and Terragrunt** with Jenkins pipeline.
- Also worked as **GCP DevOps Engineer** with expertise in designing, constructing, and maintaining cloud **infrastructure and automation solutions on GCP**.
- Proficient in deploying, scaling, and managing containerized applications using **Google Kubernetes Engine (GKE) and other container orchestration tools on GCP.**
- Skilled in implementing and managing **Infrastructure as Code (IaC) with Terraform**, or similar tools for automating GCP resource provisioning and management.
- Experienced in setting up and managing **Continuous Integration/Continuous Deployment (CI/CD) pipelines on GCP using tools like Jenkins, GitLab CI/CD, or Google Cloud Build**.
- Knowledgeable in configuring monitoring, logging, and alerting tools on GCP, such as Stackdriver, Prometheus, and Grafana, ensuring high system availability and reliability.
- Familiar with GCP networking concepts like **Virtual Private Cloud (VPC), Firewall rules, Load balancing, and DNS management.**
- Skilled in managing and securing GCP resources using **Identity and Access Management (IAM) and following other security best practices.**
- Experienced in migrating applications from on-premises to GCP and adept at managing hybrid cloud environments.
- Familiar with various GCP services, including **Cloud SQL, Cloud Storage, Cloud Functions, Cloud Pub/Sub, and Cloud Run, and integrating them into applications and automation workflows**.
- Knowledgeable in Google Cloud AI and Machine Learning services and experienced in integrating them into applications and automation workflows.
- Worked with Docker containerization to manage infrastructure.
- Managed containers using Docker by creating Docker files, setting up automated builds on Docker Hub, and installing and configuring Kubernetes.
- Utilized on-premises network, application, and server monitoring tools like **Nagios, Splunk, and AWS CloudWatch for monitoring AWS environments**.
- Developed Docker containers to create Docker images for various environments.
- Converted existing **AWS infrastructure to serverless architecture (AWS Lambda) deployed through Terraform** or AWS CloudFormation.
- Written Ansible Playbooks, serving as the entry point for Server Provisioning, automating tasks using YAML format.
- Extensive experience with continuous integration and Continuous Delivery tools like **Jenkins and Bamboo,** providing support and backup.
- Worked on the deployment of Java applications through WebLogic/WebSphere Application servers and build tools like Gradle.

EDUCATION

Master of Science in Computer Science   **May 2015**
The University of Texas at Arlington

Bachelor of Engineering in Computer Engineering   **May 2012**
LDRP ITR

DETAILED REFERENCES AVAILABLE ON REQUEST