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***Professional Summary***

* Having 8+ years of experience in the **DevOps** as **SRE Engineer** with diversified exposure in Software Process Engineering, designing & building a web application using java/J2EE Technology, **GCP**, **AWS** and open-source Technologies.
* Implemented **Kubernetes architecture** with master and node components, ensuring high availability and scalability.
* Orchestrated containerized applications **using Kubernetes objects** like **Pods**, Services, ReplicaSets, and Horizontal Pod Autoscalers.
* Defined and managed various service types in Kubernetes for internal and external communication.
* Created and maintained **YAML deployment structures**, ensuring efficient deployment and scaling of applications.
* Utilized **ConfigMaps** to centralize and manage configuration data independently of application code.
* Implemented volume mounts to facilitate data sharing and persistence across containers within a pod.
* Deployed and managed applications on **Google Kubernetes Engine (GKE),** leveraging GCP's managed Kubernetes service.
* Configured and utilized **GCP Service Accounts** for secure authentication and authorization.
* Implemented Pub/Sub for event-driven communication between components.
* Utilized Dataflow for real-time and batch data processing workflows.
* Leveraged BigQuery for scalable and serverless data analytics.
* Managed and configured **Google Cloud Storage (GCS) buckets** for object storage needs.
* Executed **GCP commands** using the **gcloud CLI** for various tasks.
* Collaborated on version control and code collaboration using **GitHub**.
* Automated build, test, and deployment processes with Jenkins for continuous integration and continuous deployment (CI/CD).
* Orchestrated infrastructure provisioning and management using **Terraform** for Infrastructure as Code **(IaC).**
* Implemented monitoring solutions with **metrics,** **policies**, **alerts**, and **dashboards** for proactive issue identification and resolution.
* Established and adhered to error budgeting principles to maintain system reliability.
* Defined **Service Level Indicators (SLIs**) and **Service Level Objectives (SLOs)** to measure and manage system performance and reliability.
* Experience in Installation, Configuration and Administration of Windows, Red Hat Linux, Cent OS and VMware Environments.
* Installing, configuring and administering Jenkins CI tool on Linux machines.
* Deployed microservices architecture on Kubernetes, efficiently managing services, pods, and containers.
* Configured and maintained applications using **Kubernetes Deployments**, Stateful Sets, and Daemon Sets.
* Experience in migration of Source code from Team foundation Servers to **GITHUB** and Converting all the Team foundation Server Jobs into Jenkins Pipeline Jobs.
* Hands on Experience on Writing Jenkins File with auto creating of Seed jobs and depends on the flavor of applications.
* Installed Minikube performed the deployments of the Docker images on to the clusters by updating the Labels and selectors in the Pod definition.
* Automated Configuration management process by using Ansible Playbooks for installing and configuring the Applications,
* Hardening the Operating systems like Domain Joining, attaching AD Groups to the servers, adding the privileges to the groups.
* Installed and configured Azure RDS, DNS servers, MacAfee anti-virus tool, Log Analytics, App Insights, and Power BI.
* Involved in **Soap** UI automation of application API’s using **PowerShell** scripting after successful rollout of application in Production.
* Experience in installing, configuring, modifying, testing and deploying applications on Apache Web server, **IBM Web sphere application servers**.
* Knowledge on hosting and deploying applications using **WebSphere Application Servers**.
* Experience working with Web servers & application servers such as Apache2, Nginx, Apache Tomcat.
* Experience in scripting for automation and monitoring using **Shell** and **Python scripts.**
* Experience in Installing, upgrading and configuring Red Hat Linux.
* Experience in creating and managing user accounts, security, rights, disk space, quotas and process monitoring in Redhat Linux.
* Demonstrated proficiency in using various GCP services such as Compute Engine, Cloud Storage, Pub/Sub, etc.
* Optimized resource usage and costs by selecting appropriate GCP services for specific use cases.
* Maintained detailed documentation for infrastructure configurations, processes, and procedures.
* Experience in Installation of **Oracle** and **MYSQL**.
* Knowledge in administering VMware Infrastructure Client 3.5 and VSphere 4.0.
* Knowledge in configuring **DNS, DHCP, NFS, SAMBA, FTP, Remote Access Protocol**, security management and Security troubleshooting skills.
* Knowledge of working on Agile (Scrum) methodologies and Waterfall Model.
* Coordinated in end-end release process from the planning of release content to deployment and production.
* Good experience on following agile strategies. Preparing Sprint planning and tracking.
* Exposed to all aspects of **Software Development Life Cycle (SDLC)** such as Analysis, Planning, Developing, Testing and implementing and post-production analysis of the projects.

***Technical Skills***

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| **Build Tools:** | MS Build, Ant, Maven, Gradle, Cruise Control |
| **Versioning Tools:** | TFS, Visual Studio 2015/2017, GIT, GITHUB |
| **CI-CD Tools** | Jenkins, Air watch, Team Foundation servers, Spinnaker. |
| **Operating Systems:** | Windows, UNIX, LINUX, REDHAT. |
| **Cloud Platform** | GCP, Azure, AWS. |
| **GCP Cloud Services** | Google Kubernetes Engine (GKE), cloud functions, cloud build, Stack driver. |
| **CM tool** | Terraform, Ansible, SCM. |
| **Containerization & Orchestration** | Docker, Kubernetes, Docker Swarm. |
| **Languages/Scripting** | Shell, Python, Bash, Git bash, Power Shell Scripting. |
| **Bug Tracking Tools** | JIRA, Bugzilla, HP Quality Centre |
| **Web servers** | Web Logic, WebSphere, Apache Tomcat, JBOSS |
| **RDBMS** | MYSQL, DB2, Cassandra |
| **Monitoring Tools** | Splunk, Firebase/Fabric Crashyanlytics, Cavisson, Cloud watch, Stack driver. |

***Projects and Responsibilities***

**Project #1**

**Client:** Wells Fargo-San Francisco, CAAug 2021 - Present

**GCP DevOps Engineer**

**Environment:** Ansible 1.9/2.x, Centos, Ubuntu, Jenkins, Jira, Google Kubernetes Engine, cloud functions, cloud build, Stack driver.

**Responsibilities:**

* Automated the front-ends platform into highly scalable, consistent, repeatable infrastructure using high degree of automation using Vagrant, Jenkins, and cloud Formation.
* Experience in using Ansible playbooks, inventory, dynamic inventory and automated Existing cloud environment.
* Written playbooks and roles to manage configurations of and deployments to remote machines.
* Organized and created a separate role for every installation and created a role called “Common” for all the common activities and included in meta/main.yml.
* Used Ansible Tower for scheduling playbooks and used GIT repository to store our playbooks.
* Used pre-tasks and post-tasks to perform regular health checks to tail the logs and other clusters.
* Also written custom modules to control system resources like services, packages, and to handle executing system commands.
* Installed the "htop" utility which is an improved version of top—an interactive system process monitor.
* Implemented infrastructure provisioning using tools like Terraform or Deployment Manager.
* Managed and version-controlled infrastructure code in a Git repository.
* Automated resource deployment and configuration to ensure consistency and reliability.
* Established CI/CD pipelines for automated testing, building, and deployment of applications on GCP.
* Used Jenkins, GitLab CI, or other CI/CD tools to streamline the development lifecycle.
* Integrated automated testing processes into CI/CD pipelines to maintain code quality.
* Utilized Docker for containerization of applications and services.
* Orchestrated containerized applications using Kubernetes for scalability and resilience.
* Managed Kubernetes clusters on GCP, addressing scaling, monitoring, and maintenance.
* Implemented monitoring solutions like Stack driver or Prometheus to track system performance.
* Set up logging systems for collecting and analyzing logs using tools such as ELK or Stackdriver Logging.
* Responded to incidents by analyzing logs and implementing corrective actions.
* Implemented security best practices for GCP resources and applications.
* Conducted regular security audits and vulnerability assessments.
* Ensured compliance with industry standards and regulatory requirements.
* Wrote scripts using languages such as Python, Shell, or PowerShell to automate routine tasks.
* Automated configuration management using tools like Ansible or Puppet.
* Collaborated with cross-functional teams to understand application requirements and infrastructure needs.
* Communicated effectively with team members, stakeholders, and clients.
* Participated in Agile/Scrum methodologies for project management.
* Demonstrated proficiency in using various GCP services such as Compute Engine, Cloud Storage, Pub/Sub, etc.
* Optimized resource usage and costs by selecting appropriate GCP services for specific use cases.
* Maintained detailed documentation for infrastructure configurations, processes, and procedures.
* Provided documentation for troubleshooting and onboarding purposes.
* Identified and resolved issues related to infrastructure and deployment.
* Implemented preventive measures to avoid recurring problems.
* Implemented Git mirror for SVN repository, which enables users to use both Git and SVN.
* Implemented Continuous Integration using Jenkins and GIT.
* Worked with a complex environment on Red Hat Linux and Windows Servers while ensuring that these systems adhere to organizational standards and policies.
* Maintain and track inventory using Jenkins and set alerts when the servers are full and need attention.
* Strong in building Object Oriented applications using Java, writing Shell Scripts on UNIX
* Generated Perl & UNIX scripts for build activities in QA, Staging and Production environments
* Used monitoring tool JIRA and also triaged the issues and maintained bugs using JIRA tool.
* Manage the integration of new software projects and products into the build environment.
* Work with product development to resolve build-related issues in all projects.
* Involved in scrum ceremonies (stand-up, grooming, planning, demo/review and retrospective) with the teams to ensure successful project for ecasting and realistic commitments
* Involved in scrum meetings, product backlog and other scrum activities and artifacts in collaboration with the team.

**Project #2**

**Client:** PWC-Dallas, TX Jan 2017 – Jul 2021

**DevOps engineer**

**Environment:** AWS (EC2, VPC, ELB, S3, RDS, Cloud Trail and Route 53), VDI, Linux, Ansible, Git version Control, VPC, AWS EC2, S3, Route53, EBS, IAM, ELB, Cloud watch, Cloud Formation, AWS CLI, AWS Auto Scaling, Nagios, Subversion, Jenkins, Unix/Linux, Shell scripting.

**Responsibilities:**

* Build and configure 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.
* Continuously managed and improved the build infrastructure for global software development engineering teams including implementation of build scripts, continuous integration infrastructure and deployment tools.
* Manage amazon redshift clusters such as launching the cluster and specifying the node type as well.
* 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.
* Designed AWS Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
* Implemented automated local user provisioning instances created in AWS cloud.
* Setup and build AWS infrastructure various resources, VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in Cloud Formation JSON templates.
* Provide highly durable and available data by using S3 data store, versioning, lifecycle policies, and create AMIs for mission critical production servers for backup.
* Maintained the user accounts (IAM), RDS, Route 53, VPC, RDB, Dynamo DB, SES, SQS and SNS services in AWS cloud.
* Designed and implemented scalable, secure cloud architecture based on Amazon Web Services.
* Defined branching, labeling, and merge strategies for all applications in Git.
* Built Continuous Integration environment Jenkins and Continuous delivery environment.
* Utilized Configuration Management Tool Chef & created Chef Cookbooks using recipes to automate system operations.
* Build servers using AWS, importing volumes, launching EC2, RDS, creating security groups, auto- scaling, load balancers (ELBs) in the defined virtual private connection.
* Deployed applications on AWS by using Elastic Beanstalk.
* Used Ansible server and workstation to manage and configure nodes.
* Configured plugins for the integration tools to the version control tools.
* Manage source code, software builds, software versioning, & defect tracking on software maintenance tasks/projects
* Manage AWS EC2 instances utilizing Auto Scaling, Elastic Load Balancing and Glacier for our QA and UAT environments as well as infrastructure servers for GIT and Chef.
* Administered and Engineered Jenkins for managing weekly Build, Test and Deploy chain, SVN/GIT with Dev/Test/Prod Branching Model for weekly releases.
* Created monitors, alarms and notifications for EC2 hosts using Cloud Watch.
* Migrated applications to the AWS cloud.
* Involved in DevOps processes for build and deploy systems.
* Implemented multiple CI/CD pipelines as part of DevOps role for on-premises and cloud-based software using Jenkins, Chef, Docker and AWS.
* Deploy and monitor scalable infrastructure on Amazon web services (AWS).
* Worked on boarding .Net and .Net core applications.
* Worked on creating users automatically to an instance when a new instance is launched using Ansible.

**Project #3**

**Client:** Logran Technologies-INDIA March 2015 – Jan 2016

**Build Release Engineer**

**Environment:** Solaris, Linux, Eclipse, Java, SQL, AWS EC2, Python, Subversion, Bash, Hudson, NT Command Shell, Java/J2EE, Maven, Gradle, Chef, AWS, JIRA, XML, Vagrant LINUX (RHEL, CentOS), Docker, Jenkins.

**Responsibilities:**

* Created Docker file and automated Docker image creation using Jenkins and Docker.
* Installed and set up systems administrator/engineering tasks such as patch servers, mount file systems, standardized server configuration, deploy applications, firewall rules, file systems, storage systems, job scheduling security, and systems resource monitoring.
* Set up Jenkins’ master server and added necessary plugins and added more slaves to support scalability and agility.
* Set up Kubernetes environment on premise on AWS Cloud.
* Built, monitored, and supported patching and upgrades to Linux servers.
* Designed, built, tested, and deployed highly scalable and resilient Cloud-based applications on AWS for API Gateway, Dynamo DB, Lambda, etc.
* Provided technical assistance to all phases of the Cloud Program, including Infrastructure as a Service (IaaS), Platform as a Service (PaaS).
* Provide technical consultation and delivery services to customers for CI/CD and DevOps initiatives.
* Fully automating the entire release process from build to test to configuration to deployment.
* Application onboarding and maintenance on the CI/CD platform.
* Installation, administration and maintenance of CI/CD applications: Jenkins, Artifactory, SonarQube, Stash and Docker.
* Exported logs from CloudWatch to AWS S3 for consumption by Splunk.
* Developed Ansible Custom modules and created Ansible dynamic inventories.
* Developed Ansible playbooks for use in deploying applications and systems to servers via Ansible Tower.
* Automated infrastructure provisioning on AWS using Terraform and Ansible.
* Used Kubernetes to orchestrate to deploy, scale, and manage Docker container.
* Wrote scripts using BASH, Ruby and Python Automated operational tasks such as software configuration, server scaling and deployments, and database setups in multiple AWS cloud environments with the use of modern application and configuration management tools (e.g., Jenkins, Chef, and Puppet).
* Enabled developers, testers, and operations to build and deploy our applications from code to multiple environments quickly and rapidly with “one button click” ease.
* Deployed code across multiple servers.
* Evaluate, build and/or configure tools for internal use to support software engineering best practices.
* Have worked on WAS 8.5 environment in distributed systems
* Applying the Fix pack.
* Troubleshoot Admin Server start-up issues, Java code defects after deployment, checking the JVM logs, plug-in logs and the Webserver logs.
* Worked closely with developers to define and configured application Servers, Virtual Hosts, Web Applications, Web resources, Servlets, JDBC drivers and deployment of EJBs across multiple instances of WebSphere.
* Monitored the logs for Application Server Instances.
* Worked in based on the alerts and respond on priority and resolve the issues.
* Creating branches and tags using GitHub.
* Maintain GIT Repositories, Handling Releases and Branching activities for GitHub.
* Handle multiple builds from Development team, create build jobs in Jenkins and perform deployment activities.