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| AKSHAY K Diagram  Description automatically generated Graphical user interface  Description automatically generated with medium confidence   |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | |  | Fremont, CA, 94539 |  |  |  | | --- | --- | |  | (510) 270-5356 |  |  |  | | --- | --- | |  | [kakshay9.devops@gmail.com](mailto:kakshay9.devops@gmail.com) | | |  |  | | --- | --- | |  | www.linkedin.com/in/akshay-k-67565a1ba | | |  |

*Over 7 years of extensive experience in Automating, configuring and deploying instances on cloud environments and experience in the areas of DevOps, CI/CD Pipeline, Build and release management and Linux/Windows Administration.*

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|  | **Skills** |

MySQL, MariaDB, PostgreSQL, MongoDB, Oracle DB on various Linux distributions. 

Experienced in Querying RDBMS such as Oracle, MY SQL and SQL. 

Proficient in writing Python, Ruby, YAML, Shell, Bash, Json Scripting to automate the deployment. 

Involved in Secure Software Development Life Cycle (secure SDLC) process. 

Operating Systems: Windows (2008,2012,2016), UNIX, LINUX (RHEL, Cent OS, Ubuntu), OS X. 

Configuration Management: Chef, Ansible. 

CI/CD Tools: Jenkins, Bamboo, VSTS (Azure DevOps). 

Infrastructure automation: Cloud Formation, Terraform. 

Cloud Environments: AWS, AZURE, OpenStack, IaaS, PaaS, SaaS. 

Build tools: Ant, maven, 

Version Control Tools: Git, Subversion SVN, Bitbucket. 

Web servers: Apache, Tomcat, JBoss, Nginx. 

Monitoring Tools: Nagios, Splunk, Prometheus, New Relic, ELK, Dynatrace. 

Containers Tools: Docker, Kubernetes. 

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|  | **Work History** |

**SR. Azure DevOps Engineer August 2018 – Till Date.**

**RMS, Newark-CA.**

**Responsibilities: -**

* Experienced in utilizing **Azure Stack (Compute, Web & Mobile, Blobs, ADF, Resource Groups, Azure Data Lake, HDInsight Clusters, Azure Data Factory, Azure SQL, Cloud Services, and ARM**) and services for configuring and deploying Azure Automation Scripts for multiple applications.
* Design roles and groups using Azure Identity and Access Management (IAM).
* Developed **Power Shell** scripts to automate the project creation, setting permissions for users, groups in **sys**.
* Deployed Web app, Web jobs, Azure DevOps/VSTS - Azure Pipeline, Azure AD, Build, Release, Storage strategy -Blobs, Create and manage VM, ARM templates.
* Configured Azure Multi-Factor Authentication (MFA) as a part of **Azure AD** Premium to securely authenticate users and worked on creating custom Azure templates for quick deployments.
* Performed cloud migration, managing both classic & ARM portal, effectively use **Power Shell** to manage Azure services, troubleshooting access related issues.
* Expertise on **Azure Data Factory** to orchestrate the intake of data from different sources like **Azure Storage Blobs, Azure SQL Database**, **Azure SQL Data Warehouse**, and on-premises databases to **Azure Data Lake Store**.
* Working knowledge on Azure cloud IaaS and PaaS Services, **Azure SQL**, **Azure storage** and **Azure Services**.
* Developed Templates for **Azure** infrastructure as a code using **Terraform** to build staging and production environments.
* Experience in Implementing elastic search clusters on Microsoft Azure using **Terraform** scripts.
* Used Azure Kubernetes Service to deploy a managed Kubernetes cluster in Azure and created an **AKS cluster** in the Azure portal, with the Azure CLI, also used template driven deployment options such as Resource Manager templates and **Terraform**.
* Designing Azure Data Factory, **React.js**, Spark and Databrick using blob.
* Experienced at launching **Amazon** **EC2 instances** and setting up security groups.
* Configured Elastic Load Balancers (**ELB**) with **EC2 Auto scaling groups.**
* Responsible for CI/CD pipeline and deployment of **Node.js** services to EC2 and Lambda.
* Designed, Installed, and Implemented **Ansible configuration management system**. Used **Ansible** to manage Web applications, Environments configuration Files, Users, Mount points and Packages.
* Supported API development team in creating **Ansible playbooks** for deploying, integrating and monitoring their continuous integration environment.
* Responsible for managing the **Docker** private registry.
* Maintained Docker-registry, images, tagging and writing Docker files for creating new images.
* Creating **microservices** with **Docker and Kubernetes**. Utilizing **Kubernetes and Docker** for the runtime environment for **the CI/CD system to build, test, and deploy.**
* Managed Kubernetes charts using Helm, and Created reproducible builds of the Kubernetes applications, managed Kubernetes deployment and service files and managed releases of **Helm packages**.
* Deployed CoreOS **Kubernetes** Clusters to manage Docker containers in the production environment with light weight Docker Images as base files.
* Creating and upgrading custom **Ansible**, **Terraform** and **Bash** **scripts** for installation and configuration of **Kubernetes clusters** and its packages.
* Installation and administering application services on Kubernetes **clusters** including **ELK Stack, MongoDB, Cassandra,** and spark.
* Created **Azure key-vault** to store all the credentials for SQL databases and API keys.
* Implemented **Secrets Managements** solution utilizing **Hashi Corp vault** with on-premises server.
* Installation, configuration, and administration of all servers and application monitoring using **Nagios, Splunk, Kibana**.
* Created dashboard in **New relic** console for the monitoring purpose.
* Used Ansible to manage Web applications, Environment’s configuration Files, Users, Mount points and Packages.
* Wrote Python, Bash and Shell scripts to monitor installed enterprise applications and to get the configurations of multiple servers using Ansible.
* Developed **Python** and **shell scripts** for automation of the build and release process.
* Used **ELK** Log monitoring tool to analyze the logs for applications related issues.
* Migrated service from a managed hosting environment to AWS including service design, network layout, **HIPAA** compliance, data migration.
* Containerized all the Ticketing related applications- Spring Boot Java and **Node.js** applications using **DOCKER.**
* Created the CI/CD pipeline for different environments J2EE, and **ReactJS** using Jenkins.
* Used **Jenkins** with **CI/CD** **pipeline** to drive all microservices builds out to the Internal Docker registry.
* Responsible for installation & configuration of **Jenkins plugins** to automate continuous builds and publishing **Docker images** to the **Nexus repository**.
* Create build configurations in Jenkins and Anthillpro and integrate with the other tools like Fortify, Black duck, SonarQube, Checkmarx.
* A Worked with **Nagios** for **Azure Active Directory** & **LDAP** and Data consolidation for LDAP users. Monitored system performance using Nagios, maintained Nagios servers and added new **services & servers**.
* Configuring, automation and maintaining build and deployment **CI/CD tools Git/GitLab, Jenkins, Docker Registry/Daemon, Nexus, and JIRA for Multi-Environment**.
* Experience in using builds tools like **MAVEN** for the building of deployable artifacts such as jar, war & ear from source code and Placing Builds into **Maven Repository.**

**SR. AWS Cloud Engineer November 2016 - August 2018.**

**Client: - International SOS Trevose, PA.**

**Responsibilities:**

* Created AWS cloud formation templates to create custom-sized **VPC, subnets, EC2 instances, ELB, security groups**. Managed other AWS Services like **S3, Cloud Front, Cloud Watch,** DMS, ECS, ECR, Kinesis, Redshift Cluster, Route53, SNS, SQS, Cloud Trail**.**
* Created S3 buckets and managed policies for S3 buckets and utilized **S3 Buckets** and **Glacier** for storage, backup and archived in AWS and worked on setting up and maintenance of **Auto-Scaling** AWS stacks.
* Developed **CloudFormation** script to automate the EC2 instances with **JSON** templates.
* Experience in writing **Cloud Formation** Templates in YAML and JSON format to build the **AWS** services with the paradigm of Infrastructure as a Code.
* Automate operations processes using **Lambda, CloudWatch** Events, and Schedules.
* Migrated applications from data center to **AWS cloud**.
* Migrated **on premise** Database Servers to AWS Cloud using AWS DMS.
* Used **IAM** to create new accounts, roles, and groups. Implemented life-cycle management for RedHat Linux using Amazon **EC2**, **Chef**, and custom **Ruby/Bash** scripts.
* Developed Templates for AWS **Infrastructure** as a **code** using **CloudFormation**.
* Worked on **Google Cloud Platform (GCP**) services like compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring and cloud deployment manager.
* Set-up databases **in GCP using RDS, storage using S3 bucket** and configuring instance backups 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.
* Written automation scripts for creating resources in **OpenStack Cloud using Python and terraform modules.**
* Experience with Automation of Production cloud deployments using **Docker, Packer and Terraform.**
* Used **Terraform** scripts to **Automate instances** for Manual instances that were launched before.
* Experience of writing and managing **Chef** Scripts and using Linux automated deployments using **Chef.**
* Written **Chef** **Cookbooks** for various packages. Implemented environments, **roles**, **data** **bags** in **Chef** for better environment management.
* Implemented and maintained **Ansible Configuration** management spanning several environments in VMware and the **AWS cloud.**
* Excellent experience in writing **Chef cookbooks** and Ansible playbooks for configuration management, server provisioning by following Test Driven Development and Behavior Driven development methods.
* Experience in writing **chef cookbooks** and recipes to automate middleware installations, domain creations and deployment activities.
* Worked on DevOps group running **Jenkins** in a **Docker contain**er with **EC2** slaves in Amazon **AWS cloud configuration.**
* Used puppet to setup **Continuous Delivery pipeline**. This primarily consists of a **bamboo**, **Sonar server** and **Vagrant** the infrastructure to run these packages and various supporting software components such as **Maven** etc.
* Installation and configuration of **bamboo**, Installation, and configuration of Jira/Confluence.
* Worked on **Jenkins** to build and test the applications and implemented **Jenkins** as a full cycle continuous delivery tool involving package creation, distribution, and deployment onto **tomcat** application servers via **shell** scripts embedded into **Jenkins** jobs.
* Used to Automated deployment of builds to different environments using TeamCity, Jenkins.
* Installing, configuring, and administering **Jenkins** Continuous Integration (CI) tool on Linux machines along with adding/updating plugins such as SVN, GIT, Maven, ANT etc.
* Used **Jenkins** and pipelines to drive all **microservices builds** out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using **Kubernetes.**
* Integrated **Kubernetes with Hashicorp** Vault to inject configurations at runtime for each service using init, config sidecars and persistent volume sharing between app and config containers.
* Set up monitor tool to measure application **availability** and **performance**.
* Worked on several **Docker** components like Docker Engine, Docker-Hub, Docker-Compose, Docker Registry and Docker Swarm.
* Developed proof of concept implementations of distributed frameworks using **Docker**.
* Installed and configured a **private Docker Registry** for internal teams to push and pull containers.
* Created a local development environment using **Docker** Compose.
* Created backup scripts in shell and python for **MySQL, MongoDB** for automatic dump storage in **S3.**
* Installation and administering application services on Kubernetes **clusters** including **ELK Stack, MongoDB, Cassandra,** and **spark.**
* Tuning weekly basis to meet **Nagios and CloudWatch** performance requirements.

**Site Reliability Engineer December 2015 - November 2016.**

**Client: - FIRST REBUPLIC BANK, CA.**

**Responsibilities: -**

* Worked on **Microsoft Azure** (Public) Cloud to provide IaaS support to client. Create Virtual Machines through **Power Shell Script** and **Azure Portal**.
* Manage and Create Storage Account and Affinity Group in **Azure Portal**.
* Capture an image of a Virtual Machine. Attaching a Disk to a Virtual Machine. Manage and create Virtual Network and End Points in **Azure Portal**.
* Deploying VM's, Storage, Network and Affinity Group through **PowerShell** Script.
* Creating Storage Pool and Stripping of Disk for **Azure Virtual Machines**. Backup Configure and Restore Azure Virtual Machine using **Azure Backup**.
* To deploy the application and manage the session used Windows Azure.
* Implemented Azure Automation, Log Analytics and provisioned **Azure SQL.**
* Written **Ansible Playbooks** with **YAML** to automate infrastructure administration (infrastructure as code) and deployment automation. Created Playbooks to install and configure required packages to setup the environments.
* Extensively worked on **Ansible Playbooks** with Ansible roles. Created inventory in **Ansible** for automating the continuous deployment. Configure the servers, deploy software, and orchestrate continuous deployments or zero downtime rolling updates.
* Experience with container-based deployments using **Docker**, working with **Docker images**, Docker Hub and **Docker registries** and **Kubernetes.**
* Deploy and run applications using **Docker containers**.
* Created a **Continuous Delivery** process to include support building of **Docker** Images and publish into a private repository.
* Developed and implemented automated **CI/CD** pipeline utilizing **Docker** for a micro service-based application.
* Developed CI/CD system with **Jenkins** on Kubernetes container environment, utilizing **Kubernetes** and **Docker** for the runtime environment for the CI/CD system to build, test and deploy.
* Installed and administered the **Atlassian Tool Jira** on Linux environments. Created and modified **Jira workflows** including project workflows, field configurations, notification schemes, etc. in **Jira**.
* Implemented and managed **Splunk** monitoring and reporting infrastructure.
* Installed, Configured, Managed Monitoring Tools such as **Splunk, Nagios** for Resource Monitoring, Network **Monitoring**, Log Trace Monitoring.
* Implemented **Service Level Agreement** (SLA) metrics reports so the team could self-monitor and improve service
* Implementing DevOps through the SRE concepts, to include but not limited to CI/CD, SLA, SLO, and SLI implementation with full stack monitoring, logging, alerting and playbooks in place.
* **Kubernetes** is being used to orchestrate the deployment, scaling and management of **Docker** Containers.
* Maintained **ELK (Elastic Search, Log stash, Kibana) Stack** for Searching, routing, and visualizing Logged Data.

**Build & Release Engineer June 2014 - December 2015**

**Client: Volante Software Pvt Ltd, Location: Hyderabad, India.**

**Responsibilities: -**

* Implemented **AWS** solutions using EC2, S3, RDS, IAM, Redshift, Lambda, Security Groups, EBS, Elastic Load Balancer, Auto scaling groups, SNS, Optimized volumes and Cloud Formation templates.
* Configured and deployed **AWS Lambda** service to run the code in response to events and automatically manage resources.
* Configured **AWS IAM** and **Security Groups** in **Public** and **Private Subnets** in **VPC,** managed **IAM** accounts (with **MFA**) and **IAM** policies to meet security audit & compliance requirements.
* Developed **CloudFormation** script to automate the EC2 instances with **JSON** templates.
* Utilized **Cloud Watch** to monitor resources such as **EC2**, **Amazon RDS DB** services, **Dynamo DB** tables, **EBS** volumes, to set alarms for notification or automated actions, and to **monitor logs** for a better understanding and operation of the system.
* Involved in **EC2** Backup methods, **ELB** (application) security and application logging using **CloudTrail** integration with **Kibana** and **elastic search**, **kinesis**, **firehose**.
* Implemented a Continuous Delivery pipeline with **Docker**, **Jenkins**, **GitHub** and **AWS** **AMI’s.** Whenever a new GitHub branch gets started, Jenkins server automatically attempts to build a new Docker container from it, the Docker container leverages Linux containers from the AMI baked in.
* Configuring, automating and maintaining build and deployment **CI**/**CD** tool **(Jenkins)**, **git/ git-Lab, Docker** **registry**/**daemon**, **Nexus** and **JIRA** for Multi-Environment (TEST/PRE-PROD) with high degrees of standardization for both infrastructure and application stack automation in **AWS** cloud platform.
* Involved in building Amazon **redshift** and other AWS services. Used standard Redshift SQL to load data from S3 and then load into final Reporting tables.
* Implemented and maintained the **branching** and **build/release** strategies utilizing **Git**. And implemented (CI/CD) pipeline with **Jenkins** and **GitHub.**
* Worked on setting up the **new repos**, managing the permissions for various **Git branches**.
* Maintained **branches/forks** in **GitHub version** control for the changes made in cookbooks as per release.
* Source Control Management with **GitHub** and **GitLab** for **Git repositories**. Experience writing various Pre/Post Commit Hooks.
* Extensively worked on Jenkins for continuous integration and for End-to-End automation for all build and deployments and integrated **MAVEN with Jenkins.**
* Build scripts using ANT and **MAVEN** build tools in **Jenkins** to move from one environment to other environments.
* Worked on Monitoring tools like **Nagios**, Installation and configuration on **Ubuntu** Linux server.

**Linux Administrator June 2013 - June 2014.**

**Client: - Mindtree Limited, Bangalore, India.**

**Responsibilities: -**

* Installation, Configuration, upgradation and administration of **Sun Solaris**, **Red Hat Linux.**
* **Jumpstart & Kickstart** OS integration, DDNS, DHCP, SMTP, Samba, NFS, FTP, SSH, LDAP integration.
* Network traffic control, **IPSec**, **Quos**, **VLAN**, Proxy, Radius integration on Cisco Hardware via Red Hat Linux Software.
* Responsible for configuring and managing **Squid** server in Linux.
* Configuration and Administration of **NIS** environment.
* Managing file systems and disk management using **Solstice** **Disksuite**.
* Involved in Installing and configuring of **NFS**.
* Worked on **Solaris volume manager** to create file systems as per user and database requirements.
* Responsible for configuring real time **backup** of web servers.
* Log file was managed for troubleshooting and probable errors.
* Responsible for reviewing all open **tickets**, resolve and close any existing tickets.
* Worked on **RAID** creation. Performed capacity analysis, monitored, and controlled **disk space usage** on systems.
* Responsible for maintenance of **development tools** and utilities and to maintain **shell**, **Perl** automation **Scripts**.

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|  | **Accomplishments** |

* AWS Certified Solutions Architect – Associate (CERTIFICATE NUMBER: WEV4Y3LKHFVQ18CX).

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|  | **Professional Summary** |

* Worked in an environment of **Amazon Web Services (AWS)** products gained good knowledge in **Elastic Cloud** Computing, Simple Storage Services, **Cloud Formation**, Glacier, Block Storage, Elastic Beanstalk, Amazon Lambda, Virtual Private cloud, Load balancing, Relational Database Service, and Cloud Watch.
* Build servers using AWS: Importing volumes, launching EC2, creating security groups, auto-scaling, load balancers, Route 53, SES and SNS in the defined virtual private connection.
* Experience in Managing/Deploying the Windows Azure based application.
* Hands on experience with Windows Azure, Cloud Services, Storage/Storage Accounts, Azure Traffic Manager.
* Deployed Azure IaaS virtual machines (VMs) and Cloud services (PaaS role instances) into secure VNets and subnets.
* Implemented high availability with Azure Classic and Resource Manager deployment models.
* Experience in migrating on premise to Windows Azure using Azure Site Recovery and Azure backups and having good knowledge on Azure Fabric, Microservices in Azure.
* Worked on Terraform for managing the infrastructure through the terminal sessions and executing scripts through the terminal.
* Major focus on Configuration, SCM, Build/Release Management, Infrastructure as a code (IAC) and as Azure DevOps operations Production and cross platform environments.
* Understand the latest features like (Azure DevOps, OMS, NSG Rules) introduced by Microsoft Azure and utilized it for existing business applications.
* Management and design of integrated build pipelines using continuous integration workflows such as Jira, GIT, Stash, Bamboo, Jenkins, Docker, Kubernetes, Terraform, ELK (Elastic search, Log stash, Kibana).
* Excellent experience in writing Chef cookbooks and Ansible playbooks for configuration management, server provisioning by following Test Driven Development and Behavior Driven development methods.
* Played a significant role in adding monitoring checks using Data dog and AWS LAMBDA. Written AWS Lambda functions to trigger the events related to the migration of data from AWS S3 to AWS Redshift.
* Knowledge on SaaS, PaaS and IaaS concepts of cloud computing architecture and Implementation using AWS, OpenStack, OpenShift, Pivotal Cloud Foundry (PCF) and Azure.
* Deployment and maintenance of Linux Server systems like RHEL/CentOS/Ubuntu to run OpenStack Cloud environment.
* Experience with setting up Chef Infrastructure, bootstrapping nodes, creating, and uploading recipes, node convergence in Chef SCM.
* Experience on container management tools Docker, Mesos, Marathon and Kubernetes. Also used to manage clusters of nodes using docker swarm, and Kubernetes clusters.
* Experience in setting up Docker environment including creating images, containers and deploying applications and container orchestration such as EC2 Container service and Kubernetes.
* Creating fully automated CI build and deployment infrastructure and processes for multiple projects using Docker, Jenkins (Cloudbees), sonar cube, VMWare, RHEL, Satellite, Kubernetes, Arti factory, Ansible & GitLab.
* Work experience on Docker swarm and Kubernetes to cluster the Containers for high availability.
* Experience with version control systems (Subversion and GIT) and Source code management applications (SVN, Bitbucket, GITBash and GitHub).
* Experience in JIRA for ticketing and as well as defect tracking system and configure various workflows, customizations and plug-ins for JIRA bug/issue tracker, integrated Jenkins with JIRA, GitHub, Maven.
* Hands-on experience using MAVEN, ANT, and Gradle as build tools for the building of deployable artifacts (jar, ear & war) from the source and static code analysis using SonarQube.
* Implemented the use of Nagios tool and keynote for monitoring and analyzing the network loads on the individual machines by enforcing custom Nagios monitoring, notifications and dashboard to exhibit various metrics using Shell Scripting and add-ons.
* Working with the ELK (Elastic Search, Logstash, Kibana) stack to analyze log data obtained from Microsoft Business Intelligence tools and worked on other monitoring tools like Nagios, Splunk, New Relic.
* Deployed the Java applications into web application servers like Apache Tomcat. Experienced in Querying **RDBMS** such as **Oracle, MY SQL and SQL** Server by using SQL for data Integrity.
* Proficient in writing **Python, Ruby, YAML, Shell, Bash, json** Scripting to automate the deployments.
* Worked with NodeJS, ReactJS.
* Involved in Secure Software Development Life Cycle (**secure SDLC**) process.
* Excellent Knowledge in Capacity Planning and Performance tuning.
* Experience in Configuration and Administration Patch and Packages management. Provided 24x7 supports for various divisions within the Company and resolve all production issues in a time-sensitive environment.