***Syed Imthiyas***

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**PROFESSIONAL SUMMARY**

* **Cloud DevOps engineer** with over 10+ years’ experience in **Cloud** (Azure & AWS), **DevOps, Configuration management, Infrastructure automation, Continuous Integration and Delivery** (CI/CD). I can implement effective strategies for Multi - Tier application development in both **Cloud and On-premises** environments. Experience in dealing with **Unix/Linux and Windows** server administration.
* Managed Docker orchestration and Docker containerization using **Kubernetes**. Managed Kubernetes Cluster through Rancher. Installed latest version of Rancher v2.6.3 and added all Kubernetes cluster
* Setup Nginx Ingress Controller v1.0.0 to expose service to outside Cluster. Set UP RBAC integration with Cluster and created Role binding
* Upgradation AKS Cluster from 1.18 to 1.19. Migrated bare metal Kubernetes cluster to AKS
* Installed latest version of Rancher v2.6.3 and added all Kubernetes cluster
* Created Docker container in project environment. Build containers using images. Node selector and affinity rule set up on cluster
* Using Git adding images to the stationary repository, Committing the images from the stationary repository to local repository.
* Pull and push images from remote repository to local repository Git basics -branching, mergingand rebasing
* Troubleshooting to clear filesystem in worker node in var/lib/docker Deleted docker prune Images, container, volume. Pushes images from local to azure container registry
* Managed Backup of namespace and pod level backup. Having progressive experience to set up alert on cluster and pod/ container level.
* Manages Services, Config Map, Secrets, deployment in K8s. Managed various type of deployment like Stateful Set, Daemon Set, Deployment and ACR Registry
* Assigned user permission on rancher, registry, project level. Configured Notifier on Rancher. Configured rancher and added cluster into it.Managed Persistent Volume
* Wrote **Ansible** playbooks to launch **AWS**instances and used **Ansible** to manage web applications, configuration files, used mount points and packages.
* Experience in Setting up the build and deployment automation for **Terraform** scripts using Jenkins. Provisioned the highly available **EC2** Instances using **Terraform** and cloud formation and wrote new plugins to support new functionality in Terraform.
* Experience with container-based deployments using **Docker**, working with **Docker images, Docker hub and Docker registries**, installation and configuring **Kubernetes** and clustering them.
* Experience in using **Kubernetes** for creating new Projects, Services for load balancing and adding them to Routes by accessing from outside, created **Pods** through new application and controlling, scaling and troubleshooting pods through **SSH**, managed manifest files and releases of **Helm charts**. Utilized **Kubernetes**for the runtime environment of the **CI/CD**system to build, test deploy.
* Consulting in the areas of Continuous Integration, Build Automation, DevOps, Deployments, VM Ware, UNIX/LINUX, Jenkins, Subversion, **Git, GitLab, GitHub**, Java, and related tools/technologies.
* Experience working with Amazon Cloud Administration which includes services like**: EC2, S3, EBS,**
* **VPC, ELB, SNS, RDS, IAM, Route 53, Auto scaling, Cloud Front, Cloud Watch, Cloud Trail,**
* **Cloud Formation, OPS Work, Security Groups** by focusing on high-availability, fault tolerance.
* Installing, configuring and administer Jenkins CI tool on Linux machines. Configured Jenkins for doing builds in all the non-production and production environments. Worked extensively on Subversion as Version Control.
* Installing, configuring and administer **Jenkins** CI tool on Linux machines. Worked on **Jenkins**, GitHub, **Jenkins**, Artifactory and all internal build systems for the core development team on an enterprise-level Java-based cloud orchestration/automation tool.
* Installing and configuring of **Linux (RHEL4, 5, Ubuntu and Fedora,)** on servers and workstations. Manage user accounts, groups, printers, file systems and security. Configuring NFS clients, Secured FTP servers, Web Server (Apache), Squid Proxy with access control lists and proxy filtering., configuring LVMs. Adding and configuring disks and creating new file systems.
* Created **PowerShell scripts** to constantly monitor the health of the Exchange messaging infrastructure and notify my teammates or myself in the event of a problem.
* Good Experience in **Shell Scripting** for Automation.Work Extensively in Shell Scripting for Run book Automation purposes.

**PROFESSIONAL EXPERIENCE**

**Senior Software Engineer:Delta Dental Insurance Company. April 2023– Till date**

**Responsibilities:**

* + Connect **AKS /K8s Cluster** using kubeconfig file, AZ command. Created POD through rancher/Yaml File & created new namespace&Project in Rancher.
  + Applied label on **deployment /Pod /Stateful Set/ Daemon Set, Set annotation on deployment**& pod level. Installed docker on linux machine and Image path updated on deployment/pod/Stateful Set/Daemon Set
  + Set label on node and applied node selector & Create secret for registry on namespaceApplied proxy on pod yaml & Deleted deployment/pod/Stateful Set/Daemon Set
  + Fetched pod logs through rancher/ cmd line during troubleshoot & cleared docker/container log file. Update in yaml of deployment /pod/Stateful Set/Daemon Set.
  + Managed Local registry , ASR registry, Harbor, registry. Push/Pull images from docker hub to local registry/ASR registry. Setup Azure database and configured into container. Import SSL certificate on ingress, Rancher.
  + Deletion of docker images, Deletion of prune container/Volumes/Images, Deleted all evicted pod. Restarted docker/container. Extended PVC volume on stateful set deployment, Deleted Persistent Volume
  + Set Node down/Pod down/CPU/Memory/Filesystem alert on worker node alert through rancher. Extended existing PVC volume for deployment/stateful set
  + Set up **Velero server** with restic integration on cluster and taken backup of entire namespace and pod level backup. Restoration of pod from one namespace to other
  + Updated config map for Tibco application through Rancher, secret parameter through **Rancher**. Set permission on **Rancher** like owner, read, contributor. Fetching report for all cpu/memory utilization on pod through command, Fetching report for all
  + Experience in Setting up the build and deployment automation for **Terraform**scripts using Jenkins.
  + Provisioned the highly available EC2 Instances using **Terraform**and cloud formation and wrote new plugins to support new functionality in **Terraform**
  + Involved in using **Terraform**migrate legacy and monolithic systems to Amazon Web Services.
* Worked with **Terraform Templates** to automate the Azure**Iaas** virtual machines using terraform modules and deployed virtual machine scale sets in production environment.
* 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.
* Deployed the services to **AKS.**Created CICD pipelines with azure devops Deployed Services into Kubernetes Using Helm Charts
* Created **Ansible** cloud modules for interacting with Azure services which provides the tools to easily create and orchestrate infrastructure on Azure and automated cloud-native applications in Azure using Azure microservices such as **Azure functions and Kubernetes on Azure.**
* Involved in using **Terraform and Ansible**, migrate legacy and monolithic systems to Azure and managing Ubuntu and RHEL virtual servers on Azure by creating Ansible Nodes.
* Worked on **Power Shell scripts** to automate the Azure cloud system creation of **Resource groups, Web Applications, Azure Storage Blobs & Tables, firewall rule**s.

**DevOps Engineer – Nokia Inc April 2021-Mar 2023**

**Responsibilities:**

* + - Managed network security using **Load balancer**, **Auto-scaling**, **Security groups**and **NACL**.
    - Utilized **AWS**CLI to automate backups of ephemeral data-stores to **S3 bucket**, **EBS**and create nightly **AMIs**for mission critical production servers as backups.
    - Maintained and developed **Docker images**for a tech stack including Cassandra, Kafka, Apache, and several in house written Java services running in **Google Cloud Platform (GCP)**on Kubernetes.
    - Extensively used Google stackdriver for monitoring the logs of both **GKE**and **GCP**instances and configured alerts from Stackdriver for some scenarios.
    - Installing and configuring Terraform and building the infrastructure using **terraform configuration file**.
    - Built **Jenkins** jobs to create AWS infrastructure from GitHub repos containing terraform code.
    - Experience executing the **CI Jenkins** build job for both **Android and iOS application builds**. Using GIT (Stash) tool as the source code repositories for all projects and Artifactory for all builds (IPA/APK) release repository.
    - Hands on working experience with **Jenkins continuous integration Tools** including installation, configuration of jobs, pipelines, security set up etc.
    - Used **Gradle build** tool to automate the process of generating Docker files, building Docker Images, and pushing them to Docker Private Registry.
    - **Source code management** is performed using **GIT** from master repository and knowledge on container management using **Docker** in creating images.
    - Used Jenkins pipelines to drive all micro services builds out to the Docker registry and then deployed to **Kubernetes**, Created Pods and managed using **Kubernetes**.
    - Utilized **Kubernetes and Docker** for the runtime environment of the CI/CD system to build, test deploy.
    - Changing the AWS infrastructure **Elastic Beanstalk** to **Docker** with Kubernetes.
    - Created **Ansible** roles in **YAML** and defined tasks, variables, files, handlers, and templates. Created inventory and configured the Ansible files for parallel deployment in Ansible for automating the Continuous delivery process.
    - Used **Ansible** as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manages change.
    - Creation and setting up migration from Gitlab to **GitHub Enterprise.**
    - Creation of the Jenkins Continuous Integration process for Drupal 8 with **GitHub Enterprise**.
    - Expertise in writing **MAVEN/ANT** scripts for automation of build and deployment. Maintain a Live Like environment to test any production issues on the setup and push it into production.
    - Installed, tested, and deployed monitoring solutions with **Splunk services**.
    - Established infrastructure and service monitoring using Prometheus.

**DevOps Engineer – Syneos Health Dec 2013- Jan 2019**

**Responsibilities:**

* Worked on various **Azure services** like **Compute (Web Roles, Worker Roles), Azure Websites, Caching, SQL Azure, NoSQL, Storage, Network services, Azure Active Directory, API Management, Scheduling, Auto Scaling, and PowerShell Automation**.
* Building and Installing servers through **Azure Resource Manager Templates** or Azure Portal. Migrating an On-premises virtual machine to **Azure Resource Manager** Subscription with **Azure Site Recovery**.
* Virtual Machine Backup and Recover from a Recovery Services Vault using **Azure PowerShell** and Portal. Manage the Windows Azure infrastructure for our customers depends on their requirement.
* Used the AWS-CLI to suspend an **AWS Lambda** function. Used AWS CLI to automate backups of ephemeral data-stores to **S3 buckets and EBS**.
* Configured alarms in **CloudWatch** for monitoring the server's **performance, health, CPU utilization, Memory and disk usage** of AWS resources using **AWS CloudWatch**.
* Use of **Docker** and **Kubernetes** to manage micro services for development of continuous integration and continuous delivery. Environment, utilizing Kubernetes and Docker for the runtime environment for the **CI/CD** system to build and test and deploy.
* Used **Kubernetes** to deploy scale, load balance, scale and manage docker containers with multiple names spaced versions.
* Implemented **Kubernetes** to deploy scale, load balance, scale and manage docker containers with multiple names spaced versions.
* Setting up the build and deployment automation for **Terraform scripts** using Jenkins. Provisioned the highly available **EC2** Instances using Terraform and Ansible Playbooks. Managed AWS infrastructure as code using **Terraform**.
* Experience in UNIX **shell scripting** and configuring Cron jobs for Informatica job scheduling, backup of repository and folder.

**System Engineer - CSS Corp (Google Inc)– India – March 2011 - Dec 2013**

**Responsibilities:**

* Install and configure various services like **DHCP**, **NFS**, **DNS, Apache Web Server**, **NIS**, **LDAP**, **Samba**, **SSH**, **FTP/SFTP**, **Sendmail**/**SMTP**, **Telnet**, **RPM Package Management**, **File System Management**.
* Installation/Administration of **RHEL 5.6** and **Fedora**on Multiple Servers configuration, testing on both physical and virtual machines. Perform day to day **Linux administration** such as **user accounts, logon scripts, directory services**, **file system shares**, **permissions**. Support **Oracle database**.
* Installing & Configuring **Samba, NFS Clients, Secured**

**FTP server, Printers with CUPS and LVM’s.**

* Resolving technical issues of **Google Employees.** Managing **user accounts, Groups, printers, file systems and security.** Troubleshooting **Hardware and Software** issues
* Responsible for **disaster recovery**, **closing security loopholes** and **access levels.**Perform day to day **Linux administration** such as **user accounts, logon scripts, directory services**, **file system shares**, **permissions**. Support **Oracle database**.
* Installing and configuring **VPN client and Corp hosting**. Producing **documentation on operational system** and user procedure guidelines.
* **Designing, implementing**, and managing **Active Directory.**Maintaining maximum availability of supported services for users.
* Excellent in **patches** and **packages installation** on **Linux/Unix Environment**. Updating **YUM Repository** and **Redhat Package Manager RPM.**Automated server building using **System Imager**, **PXE,Kickstart** and **Jumpstart**, for **Solaris** and **RHEL Servers**.
* Experience in Managing various Network related tasks such as **TCP/IP, NFS, DNS, DHCP and SMTP**.Configuring and Administering **NIS, LDAP and FTP** on Linux and Sun Solaris server environment.