**Kishore **

**Sr. Cloud Devops Engineer**

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**PROFESSIONAL SUMMARY:**

* **AWS Certified Professional** having **10+ years** of experience in IT industry in various roles as **DevOps, Cloud Engineer, Build & Release Engineer and Linux System Administrator**, with excellent experience in Software Integration, Configuration, Packaging, Building, Automating, managing and releasing code from one environment to other environment and deploy to servers, support and maintenance under Unix/Linux/VM's Platforms.
* Experience in Configuration management, Cloud infrastructure, Automation. It includes **Amazon Web Services, Docker, Kubernetes, Git, GitHub, Jenkins, Chef, Ansible, Puppet, Terraform, Apache, Tomcat**, Build and Release.
* Extensively worked on **Jenkins and Bamboo** by installing, configuring and maintaining the purpose of Continuous Integration (CI) and **End-to-End automation** for all build and deployments implementing **CI/CD** for database using **Jenkins**.
* Proficiency in using **Docker Hub**, **Docker Engine**, **and Docker images**, **Docker Weave**, **Docker Compose**, **Docker Swarm** and **Docker Registry** and used containerization to make applications platform when moved into different environments.
* Used **Kubernetes** to provide a platform for automating deployment, scaling and operational containers across clusters of hosts and managed containerized applications using its **nodes**, **config maps**, **selectors**, and **services**.
* Worked on Multiple **AWS** instances, set the **security groups, Elastic Load Balancer (ELB)** and **AMIs,**

**Auto scaling** to design cost effective, fault tolerant and highly available systems.

* Experience in working with AWS Code Pipeline and creating **Cloud Formation** JSON templates to create custom sized VPC & migrate a production infrastructure into an **AWS** utilizing **Code Deploy**, **Code Commit**.
* Experience in creating and designing the **Terraform** templates to create custom sized **VPC, WAF, NAT subnets,**

**NACLs** for deployment of Web application and database templates.

* Expertise in Azure Scalability and Azure Availability - Build VMs availability sets using the Azure portal to provide resiliency for IaaS based solution and **Virtual Machine Scale Sets (VMSS) using Azure Resource Manager (ARM)** to manage network traffic.
* Designed, configured and deployed Microsoft **Azure** for a multitude of application s utilizing the **Azure** **stack** (Including Compute, Web & Mobile, Blobs, ADF, Resource Groups, Azure SQL DW, Cloud Services, and ARM, focusing on high-availability, Disaster Recovery, fault tolerance, and auto-scaling).
* Strong exposure in utilizing **Jenkins, GitHub actions** and bamboo as the CI/CD tool and built the code integration, code delivery and release pipelines.
* Experience with **Azure Repos, branching, code review** and code analysis tools..
* Created private cloud using **Kubernetes** that supports development, test and production environments.
* Scheduled, deployed and managed Container replicas onto a node cluster using **Kubernetes**.

**TECHNICAL SKILLS:**

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| **Virtualization** | UNIX, Linux (Red Hat 4.x,5.x,6.x,7 x), CentOS, Ubuntu, Solaris, Windows 8/7/Vista/ XP |
| **Version Control** | SVN, GIT, GitOPS, GitHub, Git lab, Bit bucket |
| **Build Tools** | ANT, MAVEN, Gradle. |
| **Continuous Integration tools** | Jenkins, Bamboo |
| **Scripting Languages** | Bash, Shell scripting, Power Shell, Ruby, Python |
| **Configuration Management Tools** | Chef, Puppet, Ansible, Salt Stack. |
| **Automation/Deployment Tools** | Docker, Vagrant, Kubernetes, Docker Swarm, Mesos. |
| **Web Servers** | WebLogic, WebSphere, Jboss, Tomcat, Apache, Nginx. |
| **Repository Management Tools** | Jfrog, Artifactory, Nexus |
| **Cloud Environment** | AWS, Azure, Google Cloud. |
| **AWS Services** | EC2, ELB, EBS, AMI, S3, VPC, RDS, IAM, Cloud Formation, Cloud  Trail, SNS, SQS, Glacier, Cloud Front. |
| **Monitoring Tools** | Nagios, Splunk, Grafana |
| **Databases** | Oracle 9i/10g, 11g, DB2, SQL Server, Mongo DB. |
| **Operating Systems** | Linux (Red Hat 4.x, 5.x, 6.x, 7.x), WINDOWS NT/2000/2003/XP/ VISTA/8/7, UNIX - Sun Solaris v 9, 10, Ubuntu 12.x, 13.x, 14.x, 15. x. |

**EDUCATION:**

* Master of science in computer information sciences form ACCT, Virginia
* Bachelor’s in biotechnology from JNTU, Hyderabad

**PROFESSIONAL EXPERIENCE:**

**Role: Cloud Devops Engineer (Jan 2023– Till date)**

**Client: Charter Communications, Tx.**

**Responsibilities:**

* Deployed application which is containerized using **Docker** on to a Kubernetes cluster which is managed by **Amazon Elastic container service** for **Kubernetes (EKS).**
* Create the applications in the dashboard using **AppDynamics** controllers for NON-PROD and PROD environments.
* Responsible for Managing, Implementing, Troubleshooting **Apache-tomcat servers** /instances in all environments and Application Monitoring using **AppDynamics**.
* Create develop and test environments of different applications by provisioning Kubernetes clusters on AWS using **Docker**, tomcat, and Terraform.
* Managed AWS design architectures with **AWS IaaS/PaaS, DevOps, Storage, Databases** Components also Work with **Cloud Platform Teams** on implementing new features on **AWS platform** and Design and Development work on building scripts and automations for **AWS cloud**.
* Monitored and tracked deployments using **Data Dog** and **CloudWatch**.
* Create and maintain highly scalable and **fault tolerant** multi-tier Azure environments spanning across multiple availability zones using **Terraform.**
* Used **Ansible** and **Ansible Tower** as **Configuration management tool**, to automate repetitive tasks, quickly deploys critical applications, and proactively manages change.
* Used **Ansible Playbooks** to setup continuous delivery pipeline. Deployed microservices, including provisioning AWS environments using **Ansible Playbooks**.
* Experience in infrastructure design for **ELK clusters.**
* Developing docker images to support Development and testing teams and their pipelines; distributed Jenkins, selenium and Elasticsearch, Kibana and Logstash (**ELK&EFK**) etc.
* **Power Shell scripting skills** for automating release migration activities.
* Having experience in writing **Groovy scripts** for setting up **LDAP configuration** for Jenkins using security matrix.
* Developed Devops scripts in **groovy to automate** and collection analysis of Cassandra.
* Experience in shell scripts to handle server processing migrating applications and server performance with Splunk and Jenkins.
* Expert in **PowerShell scripts for .Net core** application deploys, service installs and for windows patches/upgrades.
* Write **Terraform** scripts from scratch for building Dev, Staging, Prod and DR environments.
* Configured **Simple Storage Service** (**S3**) Buckets for **EBS** backed Snapshots and versioning for data backups and leveraged **AWS** cloud as an extension of the corporate datacenter by creating a **VPN** connection between corporate datacenter and **Virtual Private Cloud** (**VPC**)using Customer and Virtual Private Gateways.
* Worked on configuring the **ELK stack** and used it in analyzing the logs for different applications.
* Setup and build AWS infrastructure in various resources, **VPC, EC2, S3, IAM, EBS, Security Group,**

**Auto Scaling, and RDS** in **Cloud formation JSON** templates.

* Involved in installing and administrating **CI/CD tools** like **Jenkins** for managing weekly **Build, Test and Deploy** chain, **GIT** with Test/Prod **Branching Model** for weekly releases.

**Role: Cloud Devops Engineer (April 2022 – Dec 2022)**

**Client: Verizon, Tx.**

**Responsibilities:**

* Set up the scripts for creation of new snapshots and deletion of old snapshots in Amazon S3 and worked on setting up the life cycle policies to back the data from **AWS S3 bucket data**.
* Experience with serverless architecture such as **ECS fargate** and microservices.
* Built and Deployed **Docker images** on **AWS ECS** and automated the CI-CD pipeline.
* Configured Security Group for **EC2** instances and for **Puppet Master** and Agents.
* Expertise to analyse and correlate events through splunk search strings and operational strings.
* Skilled in monitoring servers using Nagios, Datadog, Cloud watch and using ELK Stack Fluentd Kibana.
* Experience in working over **Apache spark, Kafka**, Hadoop under the environment of Apache Mesos. Also used Apache Oozie and Airflow.
* Knowledge on **Kafka clustering** and its fault - tolerance model supporting HA and DR.
* Hands-on experience in designing, writing, and operationalizing new **Kafka Connectors** using the framework.
* Configured the SSL Authentication on the RabbitMQ and also made the use of AWS KMS for the password encryption.
* Automated the cloud deployments using Puppet and **AWS Cloud** **Formation** Templates.
* Ensured data recoverability by implementing systems snapshots, **AMIs**, for instance and **RDS.**
* Implemented a centralized logging system using log stash configured as an **ELK** stack (Elastic search, Log stash, and Kibana) to monitor system logs, **AWS Cloud Watch**, **VPC Flow logs**, **Cloud Trail Events**, changes in **S3** etc.
* Experience with Building and troubleshooting Java, Pythonbased applications.
* Worked on with **Git / GitHub** for code check - ins/checkouts, branching etc.
* Resolved **Merge Conflicts, configured triggers** and queued new builds within the **release pipeline**.
* Automated AWS components like **EC2 instances, Security groups, ELB, RDS, IAM** through (Infrastructure as a code) **Terraform**.
* Experience in writing Infrastructure as a code (Iac) in **Terraform**, **Azure resource management**, **AWS Cloud formation**. Created reusable **Terraform modules** in both **Azure and AWS cloud environments**.
* Worked on provisioning the Kubernetes clusters in EKS and managed the clusters and nodes using kubectl and as command line utilities.
* Experience in creating alarms and notifications for EC2 instances using Cloud Watch.
* Experience with **Elasticsearch, Logstash Kibana stacks**.
* Automated the backup techniques for taking the backup of azure services through power shell scripting.
* Monitored performance and history of infrastructure with tools like **CloudWatch, Datadog** etc.
* Created **Datadog dashboards** for various applications and monitored real-time and historical metrics.
* Create dashboards and baseline alerts in **AppDynamics monitoring tool.**
* Work with developers to identify necessary **Azure resources** and automate their provisioning.
* Creating Lambda function to automate snapshot back up on AWS and set up the scheduled backup.
* Worked with Terraform Templates to automate the **AWS IaaS VPN** using **terraform modules** and deployed virtual machine scale sets in production environment.
* Migrating on-premises web applications to Azure Pipelines by utilizing **ARM templates, VPN gateway**, site-to-site IPSec/IKE VPN, **DNS server Firewall**, and Application Gateway.
* Created **Azure Pipelines** for build and release and used Azure Boards for support planning and tracking work, code defects, and issues using Kanban and Scrum method by using other Azure DevOps Services.

**Role: Devops Engineer (April 2019 – Oct 2021)**

**Client: American Health Association**

**Responsibilities:**

* Worked on **Docker-Compose**, **Docker-Machine** to create **Docker** containers for testing applications in the QA environment and automated the deployments, scaling and management of containerized applications across clusters of hosts using **Kubernetes**.
* Automated Regular AWS tasks like snapshots creation using **Python** scripts.
* Worked on release management & deployment tools like AWS Code Pipeline, **Cloud Formation**, AWS Code Deploy.
* Designed distributed private cloud system solution using **Kubernetes (Docker) on CoreOS** and used it to **deploy scale**, **load balance** and **manage Docker** containers with multiple namespace versions.
* Used **Kubernetes** to **deploy scale**, **load balance**, and worked on **Docker Engine**, **Docker HUB**, **Docker Images**, **Docker Compose** for handling **images for installations** and domain configurations.
* Integrated **Jenkins** with various **DevOps tools** such as **Nexus, SonarQube, Ansible** and used CI/CD system of **Jenkins** on **Kubernetes container** environment, utilizing **Kubernetes** and **Docker** for the runtime environment for the **CI/CD** system to build and test and deploy.
* Implemented High Availability setup with the help of **AppDynamics Core** team.
* Used Ansible to document all infrastructure into version control and used **Ansible Tower** to deploy the projects into different environments.
* Continue to transform the network into automation using **python** scripting and network management/orchestration tools.
* Wrote numerous scripts in **Python** to perform various tasks such as the importing of data into **MySQL** and replacing proprietary compiled **Python code** with easy to **read, modifiable, custom code** to accomplish the same tasks.
* Automated Test, build and deployment using **Jenkins, Maven, Tomcat** and **Shell Scripts**, for their existing proprietary systems.

**Role: Devops/Cloud Engineer (Jan 2018 – Mar 2019)**

**Client: Catalent Pharma solutions**

**Responsibilities:**

* Worked on creation of CI/CD pipelines using **Azure DevOps**
* Worked on integrating **SonarQube code analysis, code coverage etc. in CI/CD pipelines**
* Worked on integrating different kinds of **tests (unit, smoke, regression etc..) in CI/CD Pipelines**
* Creating of Azure DevOps dashboards depicting **build and release data**
* Expertise on **Azure functions** and in Debugging and providing solutions and workarounds.
* **Power Shell scripting skills** for automating release migration activities.
* 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 and advanced **Power Shell**scripting. Deployed **Azure SQL DB** with **GEO Replication**, **Azure SQL DB** Sync to standby database in another region & Fail over configuration.
* Worked on **Server less services**, created and configured **HTTP** Triggers in the **Azure Functions** with application insights for **monitoring** and **performing** load testing on the applications using the **Visual Studio Team Services** (**VSTS)**alsocalled as**Azure DevOps Services**.
* Wrote **Power shell scripts for .Net core** application deploys, service installs and for windows patches/upgrades.
* Created **Azure** Automation Assets, **Graphical run books**, **Power Shell run book** that will **automate** specific tasks, deployed **Azure AD** Connect, configuring **Active Directory Federation Service (AD FS)** authentication flow, **ADFS** installation using **Azure AD Connect**, and involved in administrative tasks that include **Build**, **Design**, **Deploy** of **Azure environment**.
* Managed **Kubernetes** charts using Helm, Created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and managed releases of Helm packages.
* Written **Templates** for **Azure Infrastructure as code** using **Terraform** to build staging and production environments. Integrated **Azure Log Analytics** with **Azure VMs** for monitoring the **log files**, store them and track metrics and used **Terraform** as a tool, **Managed** different infrastructure resources **Cloud**, **VMware**, and **Docker** containers.

**Role: Site Reliability Engineer (Jan 2012 – Aug 2015)**

**Client: SC Johnson**

**Responsibilities:**

* Configured Linux Servers using Kickstart and Involved in Troubleshooting & analysis of hardware & software failures for various **Linux** servers (core dump & log file analysis). Implemented multiple Virtualization Infrastructures on **VMware Hypervisor** (**VSphere Client**).
* Written **Shell Scripts** for automation of daily tasks, documented the changes that happen in the environment & in each server, analyzed error logs, user logs.
* Implemented **Shell Scripts** for Automated Back-ups and **Cron Jobs** using **SSH**, Bash and managed user accounts on Active Directory and groups for corporate **Linux** users and supported corporate Linux Development servers.
* Managed accounts using **Active Directory** such as resetting the password, unlocking accounts, creating new accounts, adding users to GP (group policy), setting up email accounts on the exchange server etc.,
* Participated in the release cycle of the product which involves environments like developments QA and production.
* Involved in developing and build shell scripts.
* Managed all the bugs and changes into a production environment using the JIRA tracking tool.
* Assisted end-to-end release process from the planning of release content through to actual release deployment to production.
* Wrote various **SQL and PL/SQL** scripts and stored procedures to support applications.
* Deployed application packages on to the **Apache Tomcat server**. Coordinated with software development teams and **QA teams**.
* Performed clean builds according to scheduled releases.
* Managed all the bugs and changes into a production environment.
* Deployed the build artifacts into environments like **QA, UAT** according to the build life cycle.