**Dheeraj Kumar Kistagari**

**Summary:**

* Professional Sr DevOps Engineer, Sr Cloud Engineer with 8+ years of IT experience. Ability to accomplish all aspects of the software configuration management (SCM) process, systems deployment engineering (SDE), SRE, and DevOps in CI/CD pipeline, Build/Release management. Expertise in DevOps, Configuration Management, Cloud Infrastructure, End-to End Automation which includes Azure, AWS, Jenkins, Maven, GitHub, Ant, SonarQube, Twist lock defender, Grafana, Ansible, Terraform, Tomcat, and Linux.
* Experience in migrating On-premises infrastructure to cloud platforms like AWS - Azure and involved in virtualization using (VMware), Open Stacks and infrastructure orchestration using containerization technologies like Docker and Kubernetes.
* Worked continuously to certify and improve ISO 27001 information security management system (ISMS), including internal auditing, management review, measuring and monitoring the ISMS.
* Performed threat analysis/Vulnerability Assessment in a 24/7 environment, mitigating and managing all threats and risks to the company and gaining 99% security in data.
* Delivered architecture designs and solutions for public, private and hybrid clouds covering the cloud architecture tiers and portfolios of cloud services IaaS, PaaS, SaaS.
* Work in an Agile environment interacting with architects, cross functional engineering teams, Product Management, QA, and Operations teams for cloud migration strategy.
* Experience with Agile and Scrum methodologies. Involve in designing, creating, managing Continuous Build and Integration environments, which included in planning, making, overseeing Constant Form and Coordination circumstances.
* Migrating applications from on-premises Solaris/Linux environments to Public, Private clouds. Derive cloud migration plan, tools, cost analysis, task plan for enterprise and federal applications.
* Good experience with Gitlab/bitbucket and involved in hosting the version control services for our source code development in GIT.
* Highly proficient in segregating the Azure services as part of sprint planning and preparing the hardening checklist for each Azure services. Creating new Azure ARM templates and artifacts to update the existing PAAS services.
* Experience in Designing and implementing Microsoft Azure Solutions across a range of cloud models like SaaS, PaaS, IaaS, and integrated on-premises, on-demand workloads with the Azure public cloud.
* Best practices in managing Azure infrastructure, Azure storage accounts and deploying workloads on Azure virtual machines (VMs), virtual networks, cloud services, resource groups, express route, traffic manager, VPN, load balancing, application gateways, auto-scaling and cloud services into secure V-Nets and subnets.
* Hand-on experience setting/supporting enterprise DSO technologies/tools to enable SAST, DAST, SCA & IAC scanning of application and infrastructure code.
* Build servers using AWS includes importing necessary volumes, launching EC2 instance, S3 for object static web pages and created security groups, auto scaling, load balancer, Route 53, and SNS as per the architecture using Infrastructure as A Code (IAAC) tools like Cloud formation JSON templates.
* Extensive experience in implementing production ready, load balanced, highly available, fault tolerant, auto scaling Kubernetes infrastructure for Microservices and Container Orchestration.
* Experience in using Nexus and Artifactory Repository Managers for Maven builds and used Maven dependency management to deploy snapshot and release artifacts to Nexus to share artifacts across projects.
* Experience in using Application Performance Monitoring tools like Datadog, Splunk, AppDynamics and resolving network related issues.
* Identified and fixed performance issues Confidential instant of time by dynamic monitoring through catch point; new relic tools in production environment.
* Excellent skills in Unix Shell/Python scripting and Java, Groovy experiences.
* Extensive experience in setup, configuration, upgrade, maintenance, performance monitoring and troubleshooting of different UNIX platforms including Linux and VMWARE.

**Technical Skills:**

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| **CI/CD** | Jenkins, Gitlab/Bitbucket, Maven, SonarQube, Nexus OSS, Bamboo, ANT, Confluence, JIRA |
| **Cloud Platforms** | Azure, AWS |
| **Microservices** | Docker, Kubernetes, ECS, ACS |
| **Logging and alerting** | AppDynamics, Splunk, Azure Monitor, Cloud Watch, New Relic, Fluent-d |
| **Infrastructure Automation** | Ansible, Terraform |
| **Test Automation** | Selenium |
| **Application Servers** | Apache Tomcat, Web Logic, Web Sphere |
| **Web Servers** | Nginx, Apache HTTP |
| **Operating Systems** | Windows, Linux, CentOS, Ubuntu, Alpine |
| **Databases** | Oracle 10g/11g/12c, MySQL, SQL Server |
| **Scripting** | Groovy, Bash, Shell, PowerShell, Python, JavaScript |

**Education:**

* Masters in Computer Science from Marist College - 2016
* Bachelors in Computer Science from JNTUH – 2011
* AWS Certified Solutions Architect

**Professional Experience:**

**Verizon Data Services - TX Nov 2019 – Present**

**Sr DevOps Engineer**

* Working as Sr DevOps and Cloud Engineer, involved in configuration for Web apps/Function apps, Azure DevOps, Active directory, V-net integration, Application gateway, App Insights, Azure Key Vault, Encryption and Security on Azure.
* Responsible for implementing containerized based applications on Azure Kubernetes by using Azure Kubernetes service (AKS), Kubernetes Cluster, which are responsible for cluster management, Virtual Network to deploy agent nodes, Ingress API Gateway, MySQL Database, RBAC, setup reverse proxy Nginx in the cluster and Grafana, Azure pipelines, and monitoring clusters with Worked with Azure Monitoring tools.
* Deployed and optimized two tier Java, Python web applications to Azure DevOps CI/CD to focus on development by using services such as Repo to commit codes, Test Plans to unit test, deploy App services, Azure Application Insight collects health performance and usage data of the process, stored artifacts in blob storages.
* Designed AWS Cloud Formation templates to create custom sized VPC, Subnets to ensure successful deployment of Web applications and database templates.
* Created EBS volumes to store persistent data and mitigate failure by using snapshots. Performed Data Back-up of Amazon EBS volumes to S3 by taking point-in-time snapshots.
* Utilized Cloud Watch to monitor resources like EC2, CPU memory, Amazon RDS DB services, EBS volumes to set alarms for notification or automated actions to monitor logs for better understanding of the operations.
* Extensively used Maven tool to do the builds, integrated Maven to Eclipse and did local builds.
* Experienced in authoring pom.xml files, performing releases with the Maven release plugin, and managing artifacts in antifactory.
* Using Terraform as a tool, Managed different infrastructure resources Cloud, VMware, Bare Metal Servers, and Docker containers. Also, configured RDS instances and map more complex dependencies and identify network issue using Terraform.
* Worked with Docker on multiple cloud providers, from helping developers build and containerize their application (CI/CD) to deploying either on public or private cloud.
* Used Ansible as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manages change.
* Design and deploy new Kubernetes clusters and maintain existing clusters with regular patches and code upgrades.
* Deploy and maintain EKS/AKS cluster Add-ons Fluent-d, Istio, Prometheus.
* Develop and maintain dashboards in Grafana, AppDynamics, and Splunk.
* Used New Relic application monitoring for performance metrics in real time to detect and diagnose application problems automatically.
* Restricted Internet Vulnerability threads using Twist lock defender, SonarQube, Fortify/ Black Duck scans for Enterprise/Federal Applications.
* Ensured 99% application/server uptime as defined in the SLA's by maintain Active / standby DR sites and performing Quarterly restores testing.
* Coordinate/assist developers with establishing and applying appropriate branching, labeling/naming conventions using GIT source control.

**Verizon (Insight Global) – Irving, TX June 2017 – Oct 2019**

**Sr DevOps Engineer**

* Part of a team of DevOps/Cloud engineers responsible for infrastructure support on AWS and Azure cloud.
* Worked on various Azure services like Compute (Web Roles, Worker Roles), AKS, Azure Websites, Caching, SQL Azure NoSQL, Storage, Network services, Azure Active Directory, API Management, Scheduling, Auto Scaling, and PowerShell Automation.
* Experience in Windows Azure Services like PaaS, IaaS and worked on storages like Blob (Page and Block), Sql Azure. Well experienced in deployment & configuration management and Virtualization.
* Worked in AWS environment, instrumental in utilizing Compute Services (EC2, EKS, ELB), Storage Services (S3, Elastic Block Storage), Elastic Beanstalk, VPC, SNS, IAM and Cloud Watch.
* Implemented a POC to use the DevOps tools offered by AWS to create a CI/CD pipeline in AWS, using Code Pipeline, Code Build, Code Deploy and AWS S3/Bitbucket.
* Provided security and managed user access and quota using AWS Identity and Access Management (IAM), including creating new Policies for user management.
* Reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and Helm packages and implemented Kubernetes to deploy scale, load balance, scale and manage Docker containers with multiple namespace versions.
* Experience on, Azure and Kubernetes based container deployments to create self-environments for dev teams and containerization of environments delivery for releases.
* Build and maintain the Grafana, SonarQube dashboards.
* Implemented ISTIO as a service mesh component to observe and control network flow across services running in multiple Kubernetes cluster.
* Worked on creating the Docker containers and Docker consoles for managing the application lifecycle. Worked on various Docker components like Docker Engine, Hub, Machine, Compose and Registry.
* Experience on Azure Site Recovery, Operations Management Suite, Power shell Scripts and ARM templates.
* Using Terraform as a tool, Managed different infrastructure resources Cloud, VMware, Bare Metal Servers, and Docker containers. Also, configured RDS instances and map more complex dependencies and identify network issue using Terraform.
* Used Terraform for building, changing, versioning infrastructure and collaborate the automation of Azure Infrastructure via Terraform and Jenkins.
* I wrote the ansible playbooks which is the entry point for Ansible provisioning, where the automation is defined through tasks using YAML format. Run Ansible Scripts to provision Dev servers.
* Worked on setting up Splunk to capture and analyze logs from various layers such as Load Balancers, Web servers and application servers and used Splunk to monitor the system logs as well as notify the incident management system upon exceeding thresholds.
* Used New Relic APM, Catch Point, AppDynamics tool to monitor Preproduction and production environment proactively and to identify application performance issue or availability.
* Debug and troubleshooting issues by analyzing various log collection tools, bash scripts etc.

**Environment:** AWS/Azure, Kubernetes, Docker, Helm, Terraform, Jenkins, GIT, Ansible, Maven, Nginx, Ingress, Istio, Nexus OSS, SonarQube, Apache Tomcat, Power Shell, DevSecOps, Windows/Linux.

**Tarantula, Hyd - India June 2012 - Dec 2014**

**DevOps / Release Engineer**

* Release Engineer for a team that involved different development teams and multiple simultaneous software releases. Developed and implemented Software Release Management strategies for various applications according to the agile process.
* Written playbooks for various packages and installed them on VMs to perform QA testing.
* Participated in weekly release meetings with Technology stakeholders to identify and mitigate potential risks associated with the releases.
* Maintain/Support DevOps tools likes Jenkins/ Bitbucket, Gitlab Runner, Cloud, Artifactory, Nexus, Sonar, Docker, Maven and LDAP, CI/CD pipeline and automation using Terraform.
* Deployed and maintained application servers, including Apache, Nginx, and Tomcat.
* Build scripts using ANT, MAVEN and Gradle build tools in Jenkins to move from one env to other env.
* Deployed J2EE, Nodejs applications to Application servers in an agile continuous integration environment and automated the whole process.
* Deployed Applications into PROD & Pre-Prod environments with various Application server technologies like Apache Tomcat.
* Developed Shell scripts for automation of the build and release process.
* Involved in editing the existing ANT/MAVEN files in case of errors or changes in the project requirements.
* Jenkins/GitLab Runner is used as a continuous integration tool for automation of daily process.
* Documented the entire build and release engineering process and provided on call support.
* Configured and maintained Jenkins to implement the CI process and integrated the tool with Ant and Maven to schedule the builds.
* Work with the various agile development teams to standardize branching and tagging of code in our GIT repository and maintain code base integrity.
* Involved in taking the weekly backups of the repositories and managing the repositories.
* Attended team meetings, change control meetings to update installation progress, and for upcoming changes in environment.
* Maintaining several servers running UNIX, Red Hat Linux and Windows operating systems, supporting organization network monitoring tools
* Total system architecture was developed, by design requirements and made certain total system is integrated, tested, and verified.
* Extensive knowledge in Change Management processes using various tools such as Jenkins Deployment Manager as a mechanism to roll out releases to test, UAT, and production environment.
* Install software, apply patches, manage file systems, monitor performance, and troubleshoot alerts from commercial, open source and locally developed applications and tools.
* Experience in using various network protocols like HTTP, SMTP, UDP, FTP, and TCP/IP.

**Environment**: ANT, MAVEN, Git, Jenkins, VMware, AWS, Java/J2EE, Apache Tomcat, Shell Scripts, Linux, UNIX, Windows XP, JIRA.