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 **Shreya Reddy Katipelly**

 ***Sr DevOps Engineer***

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**PROFESSIONAL SUMMARY**

 Having 10+ of experience in Cloud DevOps Engineer in automating, configuring, and deploying instances across cloud environments and data centers. Proven expertise in implementing robust and scalable infrastructure solutions, with a focus on optimizing performance, enhancing security, and ensuring seamless integration within complex IT ecosystems.

* Experience in the areas of DevOps, CI/CD Pipeline, Build and release management, AWS/Azure and Linux/Windows Administration.
* Proficient in prioritizing and completing tasks in a timely manner, yet flexible to multitask when necessary.
* Experience in designing and deploying a multitude of applications utilizing all the AWS stack such as EC2, VPC, EBS, Cloud Watch, Cloud Formation, Auto scaling, Cloud Front, IAM, S3, and R53 and Glacier.
* Hands on experience in Azure Automation Assets, Graphical runbooks, PowerShell runbooks that will automate specific tasks.
* Expertise in Azure infrastructure management (Azure AD, Azure Web Roles, Worker Roles, SQL Azure, AZURE Storage, Azure AD Licenses, Office365).
* Virtual Machine Backup and Recover from a Recovery Services Vault using Azure PowerShell and Portal.
* Proficient in deploying and managing Kubernetes clusters on various cloud platforms such as AWS, Azure, and Google Cloud Platform (GCP), as well as on-premises environments.
* Created multiple Terraform modules for versioning infrastructure, managed configurations, applications, installation process for AWS instances and Web Servers using Python and shell scripts.
* Production experience in large environments using with Configuration Management Tools such as ANSIBLE, PUPPET.
* Designed, developed, and maintained AEM-based web applications, components, templates, and workflows for digital marketing and content management.
* Implemented AEM customizations, configurations, and integrations with third-party systems (CRM, DAM, analytics) to meet business requirements.
* Developed and optimized AEM components using HTL (formerly Sightly), Java, JavaScript, and CSS to ensure responsiveness, performance, and accessibility.
* Managed content authoring, publishing workflows, and permissions in AEM for multi-site, multi-language, and personalized content experiences.
* Used Ansible and Ansible Tower as configuration management tool to automate repetitive tasks, deploy applications, manage changes and automate software update.
* Wrote Ansible Playbooks with Python SSH as the Wrapper to Manage Configurations of AWS Nodes.
* Experience in Installing workstation/bootstrapped nodes and experience in developing Chef Cookbooks, Recipes, Roles and Data Bags to automate the services related to deployment on multiple environments.
* Proficient in configuring and managing both hardware and software firewalls, including stateful inspection firewalls, next-generation firewalls (NGFWs), and application firewalls.
* Proficient in designing scalable and resilient network architectures, including LAN, WAN, and hybrid cloud networks, to meet performance, reliability, and security requirements.
* Proficient in leveraging Terraform to define and manage Azure infrastructure as code, enabling automated provisioning and configuration of cloud resources using declarative syntax.
* Worked with Kubernetes to provide a platform for automating deployment, scaling, and operations of application containers across clusters of hosts and managed containerized applications using its nodes.
* Experience in creating custom cloud formation templates and Terraform templates to provision infrastructure in AWS environment.
* Expertise in using Docker including Docker Hub, Docker Engine, Docker images, compose, swarm, and Docker Registry and used containerization to make our applications platform to be consistent flexible when they are moved into different environments.
* Experience in using Docker and setting up ELK with Docker and Docker-Compose.
* Actively involved in deployments on Docker using Kubernetes.
* Integrated Jenkins with various DevOps tools such as Nexus, SonarQube, Puppet 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, test, and deploy.
* Also, have experience in creating Upstream and Downstream jobs (Build Pipeline) in Jenkins.
* Experience in writing Jenkins Pipeline Groovy Scripts for Continuous Integration and build workflows.
* Used Jenkins for uploading Artifacts into Nexus Repository and Automated various day-to-day administration task by developing Bash, Ruby, JSON, Perl, PowerShell and Python Scripts.
* Orchestrated and migrated CI/CD processes using Cloud Formation, terraform templates and Containerized the infrastructure using Docker setup in Vagrant, AWS and Amazon VPCs.
* Strong understanding of network protocols such as TCP/IP, DNS, DHCP, VLANs, and routing protocols (e.g., OSPF, BGP), and technologies like VPNs, SDN, and MPLS.
* Experience in real-time monitoring and alerting of applications deployed in AWS using Cloud Watch, Nagios, ELK stack and Splunk.
* Creating Python based microservices and refactoring/enhancing exiting services. Wrote python scripts to parse XML and JSON reports and load the information in database. Used Ticketing & Project Management tools like Jira, Team Foundation Server in DevOps, Service Now, and HPQC.
* Experience on Ansible and Ansible Tower to automate repetitive tasks, to deploy critical applications quickly, and proactively manage the changes and wrote many playbooks to manage Web applications.

**EDUCATIONAL DETAILS**

* Bachelors in computer science, India.

**CERTIFICATIONS**

* Azure Administrator Associate
* AWS Certified Developer – Associate

**TECHNICAL SKILLS:**

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| **Cloud Services** | AWS, Azure DevOps Tools |
| **CI/CD** | Jenkins, Azure Pipelines |
| **Artifactory** | Jfrog and Nexus |
| **Web Servers** | Nginx |
| **Operating Systems** | Microsoft Windows XP/ 2000, Linux, UNIX. |
| **Tracking Tools** | Jira |
| **Code Scanning** | Sonar Qube, Jfrog X ray, ECR Inspector |
| **Databases** | RDS, Cosmos DB, My SQL DB. |
| **Logging** | Cloud Watch, Cloud Trail, Azure App Insights, Azure Monitor |
| **Container Platforms** | Docker, Kubernetes, Open Shift. |
| **Monitoring Tools** | Nagios, Splunk. |
| **Languages** | Python, Shell scripting. |
| **Cloud Platforms** | Microsoft Azure, Aws Cloud. |
| **Version Control Tools** | GIT, Bit Bucket. |

**WORK EXPERIENCE:**

**Client: Flight Safety International,Columbus,OH**

**Role: Sr DevOps Engineer | Dec 2021 to Present**

**Responsibilities:**

* Hands-on experience Designing, planning and implementation for existing on premise applications to AZURE Cloud (ARM), Configured and deployed Azure Automation Scripts utilizing Azure Stack Services and Utilities focusing on Automation.
* Configured and implemented storage blobs and Azure files - Created Storage accounts, Configured the Content Delivery Network (CDN), custom domain, Managing access and storage access key.
* Used Docker for setting Azure Container Registry with Docker and Docker-compose and actively involved in deployments on Docker using Kubernetes.
* Created CI/CD Pipelines in Azure DevOps environments by providing their dependencies and tasks. Also have experience on implementing and managing continuous delivery systems and methodologies on Azure and created END-END Automation with CI Procedures using Jenkins & automated Maven builds by integrating them with Continuous Integration tools Jenkins
* Creating pipelines, data flows and complex data transformations and manipulations using ADF and PySpark with Databricks
* Integrated AEM with Adobe Marketing Cloud solutions (Adobe Analytics, Adobe Target) for data-driven marketing, personalization, and analytics.
* Experienced in automating the provisioning of development, testing, and production environments on Azure using Terraform, facilitating agile software development practices and infrastructure scaling.
* Proficient in configuring firewall logging and auditing features to capture and analyze firewall logs, track security events, and generate reports for compliance, incident response, and forensic investigations.
* Experienced in using Kubernetes for container orchestration, including deploying, scaling, and managing containerized applications efficiently and reliably.
* Used Azure Data Factory as an orchestration tool for integrating data from upstream to downstream systems. Conducted code reviews, performance tuning, and troubleshooting in AEM environments to identify and resolve technical issues and enhance system stability.
* Implemented AEM best practices, coding standards, and version control (Git, SVN) for codebase management and collaboration within development teams.
* Collaborated with UX/UI designers, content authors, and stakeholders to translate business requirements into AEM solutions, user interfaces, and digital experiences.
* Worked extensively on Azure Function apps and Web Jobs
* Hands on experience in Azure - PaaS worked on various areas of Azure like Azure Active Directory, App Services, Azure SQL, Azure Storages like CDN, BLOB
* Designed, configured and deployed Microsoft Azure for a multitude of applications utilizing the Azure stack (Including Compute, Web & Mobile, Blobs, Resource Groups, Azure SQL, Cloud Services, and ARM), focusing on high - availability, fault tolerance, and auto-scaling.
* Experienced in integrating Terraform deployments with Azure monitoring and logging services like Azure Monitor and Azure Log Analytics, enabling real-time monitoring, alerting, and troubleshooting of infrastructure changes
* Used Azure Service Bus queues and web jobs to pass messages between different rest web API in order to decouple them to ensure scalability.
* Used Cosmos DB for storing catalog data and for event sourcing in order processing pipelines.
* 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.
* Utilized Kubernetes and Docker for the runtime environment for the Continuous Integration/Continuous Deployment system to build, test, and deploy. Created Jenkins jobs to deploy applications to Kubernetes Cluster.
* Created Azure Event Grid to publish and consume data
* Creating pipelines, data flows and complex data transformations and manipulations using ADF and PySpark with Databricks
* Responsible for Administering and Monitoring Visual Studio Team System (VSTS), taking backups and consolidating collections at the time of migration from one version of VSTS to another.
* Defined dependencies and plugins in Maven pom.xml for various activities and integrated Maven with GIT to manage and deploy project related tags.
* Knowledgeable about different deployment strategies in Kubernetes, such as rolling updates, blue-green deployments, and canary deployments, to ensure zero-downtime deployments and smooth application upgrades.
* Familiarity with cloud networking concepts and services in platforms such as AWS, Azure, and Google Cloud Platform (GCP), including VPCs, subnets, security groups, and VPN connections.
* Used Azure Data Factory extensively for ingesting data from disparate source systems.
* Automated various infrastructure activities like Continuous Deployment using Ansible playbooks and has Integrated Ansible with Jenkins on AZURE.
* Developed Azure function apps as API services to communicate DB

**Client: : Citibank,Irving,TX**

**Role: Azure DevOps Engineer | March 2020 to Nov 2021**

**Responsibilities:**

* Created CICD (VSTS) pipelines in Azure DevOps environments by providing their dependencies and tasks. Also have experience on implementing and managing continuous delivery systems and methodologies in Azure.
* Configured servers to host TFS instance to setup and manage CI using Team Foundation Build service.
* Implemented CICD pipeline for AKS using Helm charts in Azure DevOps.
* Implemented CICD pipeline for Webapps to deploy on app services using Azure DevOps plugins.
* Initiated automation of app settings configuration on Webapps using json files in Azure DevOps successfully.
* Created CICD pipeline to deploy code in different environments (Dev, Stage, QA and Prod) on sequential basis.
* Managing TFS/VSTS user accounts and permissions in Azure AD.
* Experienced in automating the provisioning of development, testing, and production environments on Azure using Terraform, facilitating agile software development practices and infrastructure scaling.
* Skilled in setting up monitoring and logging solutions in Kubernetes clusters using tools like Prometheus, Grafana, and Fluentd, for monitoring cluster health, application performance, and troubleshooting.
* Proficient in AEM development, including AEM Sites, AEM Assets, AEM Forms, and AEM Communities.
* Developed AEM components, templates, client libraries, and workflows using AEM Core Components, Editable Templates, and AEM APIs.
* Implemented AEM authoring interfaces, dialog configurations, and content structures for efficient content management and publishing.
* Scheduled CRON jobs using CICD on VSTS build servers to clean-up the disk space and increase efficiency.
* Written custom build definitions and release definitions on Azure DevOps using yaml files to perform deployment activities on Azure and On Premise.
* Implemented unit testing and code coverage in Azure DevOps to validate the code efficiency.
* Created Docker files to build images and deployed on AKS and Docker swarm.
* Developed Ansible playbooks for deploying service as pods and used AKS for orchestrating the pods.
* Written Azure Powershell scripts to automate several routines like restarting Azure app services, backup and restore VM, setting up RBAC roles, conditional access policies on Azure.
* Created ARM templates to provision infrastructure in Azure using Powershell.
* Written Azure CLI scripts to automate several batch jobs like running ETL jobs on data lake, data load on storage accounts and file transfers across the file shares.
* Performed patching, troubleshooting and administering on Linux and Windows servers
* Migrated Docker swarm environment to AKS and deployed services using Helm charts.
* Skilled in integrating Terraform with Azure DevOps pipelines for continuous integration and continuous deployment (CI/CD), enabling automated infrastructure changes and deployments as part of the DevOps workflow.
* Proficient in implementing security best practices in Kubernetes, including RBAC (Role-Based Access Control), network policies, and pod security policies, to secure Kubernetes clusters and containerized workloads.
* End to end Implementing Azure Load Balancer and Application Gateway for high availability.
* Responsible for patching, software upgrades and maintenance of Azure components.
* Developing Terraform scripts for deploying Infrastructure in Azure cloud.

**Client: Black Knight,Jacksonville,FL**

**Role: Cloud DevOps Engineer/SRE | May 2018 to Feb 2020**

**Responsibilities:**

* Automated deployments for consistent software releases with zero downtime (through build process, packaging, testing and automatic deployment),
* Worked in setting up Jenkins tool to integrate the JAVA project and maintained Jenkins with continuous integration and deployment.
* Debug configured Jenkins jobs and stabilized the builds, continuous integration with Bitbucket, setting up SSH agent forward and using API tokens for Jenkins pipeline jobs.
* Configured and managed VPC components, including subnets, route tables, and network access control lists (NACLs), to optimize network traffic flow and security.
* Configured and maintained GitHub Actions workflows to automate build, test, and deployment processes.
* Experienced in automating the provisioning of development, testing, and production environments on AWS using Terraform, facilitating agile software development practices and infrastructure scaling.
* Administered and managed GitHub repositories, organizations, and user access.
* Worked on configuration management tool Ansible for cloud provisioning, configuration management, and application deployment.
* Worked in running Ansible ad-hoc commands, automating actions with Ansible playbooks, creating roles for the a simple machine type set up, roll out of the first machines completely managed, migration of all machines to Ansible.
* Knowledgeable about integrating Terraform with various AWS services and APIs, such as IAM, Lambda, SNS, SQS, and CloudFormation, to build comprehensive cloud solutions.
* Managed the AWS Lambda Functions configuration information based on requirements and built lambda functions using Node.js, Python and Java.
* Worked on deploying AWS WAF (Web Application Firewall) as part of the CDN solution for the ALB (Application Load Balancer) dat fronts the web server on EC2 instances.
* Used AWS Beanstalk for deploying and scaling web applications and services developed with Java, PHP, Node.js, Python, Ruby and Docker on familiar servers like Apache.
* Integrated EKS with Amazon ECR for efficient container image management within the CI/CD pipelines.
* Automated AWS EKS cluster provisioning and scaling using Terraform modules for different environments like DEV, QA, UAT and prod and integrated terraform with Jenkins pipelines.
* Integrated AWS AKS with Filebeat and Metricbeat to collect real-time container logs and performance metrics for centralized storage in Elasticsearch.
* Created custom dashboards in Kibana to visualize real-time performance metrics, system logs, and application logs for AWS AKS clusters.
* Installed and configured a private Docker Registry, authored Docker files to run apps in containerized environments and used Kubernetes to deploy scale, load balance and manage Docker containers with multiple namespace ids.
* Wrote Ansible Playbooks with Python SSH as the Wrapper to Manage Configurations of AWS Nodes and Test Playbooks on AWS instances using Python.
* Used Ansible to Setup/teardown of ELK stack (Elasticsearch, Log stash, Kibana) and troubleshoot the build issues with ELK and work towards the solution.
* Proficient in using Terraform to define and manage AWS infrastructure as code, enabling automated provisioning and configuration of cloud resources.
* Installed and Configured the Nexus repository manager for sharing the artifacts within the project.
* Created Datadog dashboards for various applications and monitored real-time and historical metrics.
* Created system alerts using various Datadog tools and alerted application teams based on the escalation matrix.
* Automate Datadog Integrations through Ansible Scripts for QA, Regression and Prod environments.

**Client: Integra Micro Software Services, Bengaluru,India**

**Role: Devops Engineer | Nov 2015 to Jun 2017**

**Responsibilities:**

* Involved in DevOps migration/automation processes for build and deploy systems.
* Worked with Ansible playbooks for virtual and physical instance provisioning, Configuration management and patching through Ansible.
* Automated using Ansible, Python, Perl or shell scripting with attention to detail, standardization, processes and policies.
* Setup and build AWS infrastructure using various resources, VPC EC2, RDB, S3, IAM, EBS, Security Group, Auto Scaling, SES, SNS and RDS in Cloud FormationJSON templates, Route53, Lambda.
* Worked on AWS for deploying EC2 instances consisting of various flavors viz., Oracle Linux, RHEL, CentOS, Ubuntu and Solaris in both Linux and Windows.
* Developed build and deployment scripts using Maven as build tools in Jenkins to move from one environment to other environments.
* Responsibility to perform the Security Scans, defect tracking, defect reporting and defect reproducing using SonarQube, Bugzilla and JMeter.
* Worked on installation and configuration of web servers and applications; WebSphere, WebLogic, tomcat, Apache. O Administrated DHCP, DNS services in Linux.
* Manage releases to make sure the code goes to live with Quality and security.
* Used Chef for application automatic deployment and provisioning to different environments.
* Deploy and monitor scalable infrastructure on Amazon web services (AWS) & configuration management using Chef.
* Creating fully automated continuous integration, continuous delivery, continuous deployment pipelines, DevOps processes and tools for multiple projects using Chef and AWS.
* Created continuous integration system usingGit, Jenkins, chef full automation.
* Used Maven as a build tools on java projects for the development of build artifacts on the source code.
* 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.
* Developed and implemented Software Release Management strategies for various applications according to the agile process.
* Managed Chef Cookbooks to automate system operations.
* Written Cloud formation templates and deployed AWS resources using it.
* Designed and implemented for fully automated server build management, monitoring and deployment by using Chef.
* Implemented and maintained monitoring and alerting of production and corporate servers/costs using Cloud Watch.
* Automate deployment and Cleanup by using Ansible and managing all aspects of the software configuration management process.
* Using Amazon's Elastic Cloud Platform for creating instances and servers, and maintaining GitHub, Jenkins and automated deployments of our analytics infrastructure to AWS.
* Automated interactions with various Amazon Web Services (AWS) components, including uploads/downloads from S3, management of Cloud Formation, EC2 instances.
* Designed and developed fully automated AWS resource cleanup process, significantly reducing operating costs

**Client: Diebold Systems Pvt.Ltd, Hyderabad, India**

**Role: Build and Release Engineer | Jan 2013 to Oct 2015**

**Responsibilities:**

* Installation, Maintenance, Administration and troubleshooting of Red hat Enterprise Linux 5.x/6.x servers on various hardware platforms.
* Configured and maintained Apache web server from open source with Java and Tomcat, WebSphere and WebLogic servers.
* As member of Release Engineering group, redefined processes and implemented tools for software builds, patch creation, source control, and release tracking and reporting, on UNIX platform.
* Integrated GIT into Hudson to automate the code checkout process.
* Maintain and track inventory using Hudson and set alerts when the servers are full and need attention.
* Designed the Release Plans while coordinating with Stake Holders including Project Management Lead, Development Lead and QA Team Lead.
* Work with product development to resolve build-related issues in all projects provided support for Application issues.
* Dealt with Jira as ticket tracking and workflow tool.
* Releasing code to testing regions or staging areas according to the schedule published.
* Eliminated downtime of network and processes by installing and configuring a Nagios server to monitor Linux servers.
* Coordinating with the development and test automation team in maintenance of source code and training them with CI System.
* Manage incidents that helps restore the acceptable IT best practices And Diagnose of incidents to proactively manage and eliminate errors.