**Hemanth Kumar**

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**PROFESSIONAL SUMMARY:**

* DevOps engineer with 9+ years of extensive experience in IT industry with ability to accomplish all aspects of UNIX/LINUX system administration, software configuration management (SCM) process, Infrastructure, Build & Release management, Deployment and AWS Cloud engineering.
* Knowledge of working on Agile (Scrum) methodologies and Waterfall Model.
* Automated various infrastructure activities like Continuous Deployment, Application Server setup, Stack monitoring using Ansible playbooks and has Integrated Ansible with Jenkins.
* Hands on experience and exposure to a variety of OS Windows, Linux, Unix.
* Experience in Amazon Web Services like VPC, EC2, S3 bucket, Route53, Load Balancer, Auto-Scaling, IAM, ACL, SQS, SNS,
* Cloud Formation, KMS, through AWS Console.
* Implemented CI/CD pipeline using Jenkins and extensively worked for End-to-End automation for all build and deployments.
* Worked on deployment of complex infrastructure using AWS CLI and AWS Console.
* Expertise in setting up Kubernetes (k8s) clusters for running micro services and deploying them into Production environment.
* Experience working with Web servers & application servers such as Apache2, Apache Tomcat.
* Competent in building deployable Artifacts. War, Jar, Zip, Tar from source code, dependency analysis, POM’s and build implementation using tools like Maven & Gradle.
* Implemented and managed Azure Active Directory for enterprise-level organizations, including configuring user, group and application management, access policies, security controls and in supporting hybrid identity scenarios, including Azure AD Connect, and enable secure access to cloud resources.
* Experience in using virtualization services in Azure Compute such as Azure Virtual Machines, Azure App Service, Azure Kubernetes Service, Azure Container Instances, Azure Functions, Azure Logic Apps, Azure SQL Database.
* Deployed and managed applications on Kubernetes (K8s) clusters with Azure Kubernetes Service (AKS) using Helm charts, leveraged Helm's package manager and AKS's built-in features and integrations, streamlined the deployment process and reduced the time and effort required to manage Kubernetes applications.
* Experience in configuring and managing Azure API Management gateway which involves setting up and managing API gateways using Azure APIM, configuring policies, monitoring API performance and creation of custom policies to manipulate incoming and outgoing API traffic.
* Experienced in using Ansible to provision and configure AKS clusters in Azure to automate the deployment and management of Kubernetes clusters to deploy and manage containerized applications and automated the deployment of Azure Resource Manager templates to deploy complex infrastructure in Azure.
* Experience in using Azure pipelines for defining CI/CD pipelines using YAML syntax, creating reusable Pipeline Templates, configuring Build and Release agents, defining Variable Groups and Task Groups, defining, and implementing deployment strategies such as rolling deployments or canary deployments.
* Good experience on following Agile strategies. Preparing Sprint planning and tracking.
* Experience working with DevOps Infrastructure automation like Ansible. Experience in managing Ansible Playbooks with modules.
* Excellent working knowledge of the principles and best practices of Software Configuration Management (SCM) in Agile, Scrum &

Waterfall methodologies.

**TECHNICAL SKILLS:**

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| --- | --- |
| Cloud Technologies | Azure, AWS. |
| Operating System | Linux, Windows. |
| Configuration Management Tools | Ansible, Terragrunt |
| Build Tools | ANT, Maven, Gradle. |
| CI/CD Tools | Jenkins, Git Labs, GitHub Actions. |
| Version Control Tools | Git, GitHub, Git Lab |
| Containerization | Docker, Kubernetes |
| Monitoring Tools | Cloud Watch, Grafana, Prometheus |
| Scripting | Python, Shell, Yaml |
| Networking | TCP/IP, HTTP/HTTPS |
| Database | MySQL, Oracle Database. |
| Infrastructure as a Code | Terraform, Cloud Formation |
| Web Servers | Apache Tomcat. |

**PROFESSIONAL EXPERIENCE:**

**Client: Macys. Duluth, GA. Oct 2024 - Present**

**Role: DevOps Engineer.**

**Roles & Responsibilities:**

* Build servers using AWS that includes importing desired volumes, launching EC2 instances, S3 for object static webpages and created security groups, auto scaling, load balancer, Route 53 and SQS as per architecture using tools like Cloud Formation JSON Templates.
* Integrated plugins like Maven and JFrog artifactory with Jenkins for Continuous Build and Deployments of artifacts along with Branching, Tagging & Merging of code delivery at release.
* Designed highly available, cost effective and fault tolerant systems using multiple **EC2** instances, **Auto Scaling**, **Elastic Load Balancer** and AMIs.
* Implemented AWS solutions using **EC2**, **S3**, **Elastic Load Balancer**, **Auto scaling groups** and maintained access to **AWS** resources through users and groups on an **IAM** console.
* Defined **AWS Security Groups** as virtual firewalls to control the traffic reaching one or more **AWS EC2** instances.
* Created Jenkins pipeline projects for docker images push to Amazon EC2 Registry and from ECR to Amazon Ec2 service; Worked on taking snapshots of AWS images, volumes.
* Integrated **SonarQube** into CI/CD pipelines to automate code quality checks and ensure consistent coding standards across the development team.
* Managed and maintained **JFrog Artifactory** as a central binary repository for storing build artifacts, Docker images, and dependencies.
* Configured and managed **AWS Virtual Private Cloud** (VPC) environments, setting up subnets, NAT Gateways, Network ACLs, and security groups for secure and isolated network architectures.
* Implemented **Jenkins** jobs over ECS (AWS Container Service) containers with EFS storage to scale elastically on demand without disrupting applications that grows and shrinks automatically and maintained ECR (AWS Container Registry) from AWS for the image storage.
* Implemented **SonarQube webhook integration** for real-time feedback and notifications on build failures and quality gate violations.
* Provisioned and maintained AWS server via Ansible configuration management that included the provisioning of the instances, ELBs, DNS. Also contributed code to the Jenkins-AWS module on GitHub as part of this.
* Worked on **AWS deployment** services like Cloud Formation for the application infrastructure deployment and automated the setup of services such as EC2 instances, Route53, VPCs, S3 buckets considering AWS Shared Responsibility Model.
* Developed build and deployment scripts using **MAVEN** as build tool on Java projects to move from one environment to other environments.
* Used **Ansible** and **Ansible Tower** as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manages change and developed Ansible scripts for an automated server provisioning.
* Worked with**Ansible** to automate the process of deploying/testing the new build in each environment, using **Jenkins.**
* Enforced security best practices for **Docker** containers, incorporating **AWS IAM** roles, security groups, and network policies to ensure secure and compliant containerized environments.
* Automated the cloud deployments using **AWS** Cloud Formation templates from scratch as an effort of migration.
* Extensively worked on **Jenkins** CI/CD pipeline jobs for end-to-end automation to build, test and deliver artifacts and troubleshoot the build issue during the **Jenkins** build process.
* Worked closely with developers to **interpret SonarQube reports** and improve code quality through peer reviews and refactoring.
* Worked on deployment automation of all the microservices to pull image from the private Docker registry and deploy to Docker swarm cluster using Ansible and worked on managing Docker swarm mode various tasks, services and load balancing.
* Involved in writing various custom Ansible Playbooks for deployment orchestration and also developed Ansible playbooks to simplify and automate day-to-day server administration tasks.
* Implemented network and security configurations in **AWS** (**VPC Security Groups, NACLs, IAM Roles**) using **Ansible**, enhancing the security posture of cloud environments.

**Environment:** Jenkins, Apache Tomcat, GIT, AWS Services, SonarQube, Jfrog, Maven, Ansible, Docker, Terraform.

**Client: Nike. Pennsylvania. Aug 2021 – Feb 2024**   
**Role: DevOps engineer.**

**Roles & Responsibilities:**

* Deployed, managed, and scaled containerized applications on **Azure** **Kubernetes Service** (**AKS**) using popular container orchestration systems like **Kubernetes**, configured load balancers, auto-scaling, and networking, and configuring network security policies.
* Integrated **Azure Kubernetes Service (AKS)** with **Azure Container Registry (ACR)** to store and manage container images in a private registry and pulled the respective container images from **ACR** and deployed them to AKS cluster using **Helm**.
* Integrated **AKS** with CI/CD pipelines using tools like **Azure DevOps**, **Jenkins**, or **GitHub Actions**, streamlining the deployment process and reducing release cycle times.
* Transitioned to microservices architecture, utilizing **Kubernetes** for dynamic service discovery and load balancing with Ingress controllers and **Service Mesh** (Istio/Linkerd).
* Configured and managed **Kubernetes** networking, including creating and managing Network Policies and hands-on experience with cloud-native tools and technologies like **Kubernetes**, **Docker**, and **Helm**.
* Implemented IaC strategies using **Terraform** and **Azure Bicep**, ensuring consistency and repeatability in cloud environments and applied **Azure Policy** and **Azure Blueprints** to manage and enforce compliance across cloud infrastructure.
* Demonstrated fluency in scripting for **Azure** using **PowerShell**, **Azure CLI**, and developing robust Infrastructure as Code (IaC) solutions with **Azure Bicep** and **Terraform**.
* Authored and maintained complex **Ansible Playbooks** for configuration management and automated deployment across diverse environments (development, staging, production).
* Deployed and managed **Ansible Tower** for centralized and scalable automation, enabling team-based access control, job scheduling, and integrated notifications.
* Integrated **Ansible** into **CI/CD** pipelines using **Jenkins**, automating deployment workflows for consistent and repeatable application releases.
* Worked in leveraging **Azure DevOps** and **GitHub Actions** for efficient **CI/CD** pipeline management and integrated project management and issue tracking using **Azure Boards** in conjunction with **JIRA** for a cohesive workflow.
* Integrated DevSecOps practices by leveraging **Azure Security Center** and **Azure Sentinel** to ensure robust security compliance in DevOps workflows.
* Designed detailed training modules on **Azure** migration strategies, focusing on **Azure Migrate** and **Azure Site Recovery** for seamless cloud transitions.
* Architected and implemented sophisticated **CI/CD** workflows using **Azure Pipelines**, integrating source control management with **Azure Repos**/**GitHub** for automated build, test, and deployment processes.
* Configured monitoring and autoscaling in **AKS** using **Azure** **Monitor** and **Kubernetes** Horizontal Pod Autoscaler, ensuring optimal performance and resource utilization.

**Environments:** Jenkins, GIT, SVN, Maven, Gradle, JFrog, Ansible, Linux, Ansible, Tomcat.

**Client: LexisNexis Risk Solutions. Alpharetta, GA. Oct 2016 - July 2021**

**Role: Build & Release/ DevOps engineer**

**Roles & Responsibilities:**

* Responsible for Deployment Automation using multiple tools Jenkins, GIT, and Maven.
* Connected continuous integration system with GIT version control repository and continually build as the check-in's come from the developer.
* Responsible for design and maintenance of the Subversion/GIT Repositories, views, and the access control strategies.
* Integrated **Artifacts** with **JFrog** Artifactory for universal artifact management.
* Automated configuration management and application deployment using **Ansible playbooks** across multiple environments (Dev, QA, Prod).
* Designed and implemented Subversion and GIT metadata including elements, labels, attributes, triggers and hyperlinks.
* Set up the master slave Jenkins Farm in the enterprise and upgraded it as per requirements.
* Configured **SonarQube servers** and managed quality gates, rules, and custom profiles to enforce static code analysis policies.
* Worked on several **Docker** components such as **Docker Engine**, Machine, Creating **Docker** Images, Compose, **Docker Hub** and handling multiple images for middleware installations and domain configuration.
* Educated team about continuous integration and automated testing practices and supported them throughout development.
* Configured Jenkins to implement nightly builds on daily basis and generated change log that includes changes happened from last 24 hours.
* Configured Jenkins jobs to **build, test, and push artifacts** (.jar, .war) to Jfrog for centralized management.
* Used MAVEN as a build tool on java projects for the development of build artifacts on the source code.
* Responsible for the development and maintenance of processes and associated scripts/tools for automated build, testing and deployment of the products to various developments.
* Implemented Docker containers to create images of the applications and dynamically provision slaves to **Jenkins** CI/CD pipelines.
* Implemented **infrastructure as code (IaC)** using Ansible to automate the provisioning of cloud resources in **AWS** (EC2, S3, RDS, IAM).
* Managed MAVEN project dependencies by creating parent-child relationships between projects.
* Installed/Configured/Managed Jenkins CI Automation.
* Configured and managed **SonarQube** instances, including installation, upgrades, and maintenance and worked on **SonarQube** plugins and extensions, including custom rules and integrations with other tools
* Responsible for the Plugin Management, User Management, Build/Deploy Pipeline Setup and End-End Job Setup of all the projects.
* Installed/Configured and Managed Nexus Repository Manager and all the Repositories.
* Created the Release process of the artifacts.

**Environment:** Subversion (SVN), SonarQube, Jenkins, Java, ANT, MAVEN, JFrog, Tomcat, Shell Scripts, XML, UNIX, Windows 7/8/10/11.

**Client: Telstra. Hyderabad, India. June 2012 - May 2015**

**Role: Build & Release Engineer.**

**Roles & Responsibilities:**

* Experienced in AWS EC2 instances using Amazon Web Services (Linux/Ubuntu/RHEL) for development, test, and production environments.
* Created and maintained the CI/CD pipelines.
* Used Jfrog tool as an Artifacts storage once the build is done without any errors.
* Migrated applications to the AWS cloud from on-prem.
* Experienced in managing source code repositories like GIT, GitHub, Bitbucket.
* Experience with container-based deployments using **Docker**, working with Docker images, Docker hub and Docker registries.
* Experienced in continuous integration/continuous delivery using tools such as Jenkins, Git, Ant, and Maven, created workflows in Jenkins, and Worked on the CI-CD model setup Using Jenkins.
* Gained extensive practical training in branching, labelling, and merging strategies in Git.
* Used **GIT** version control to manage the source code and integrating **GIT** with **Jenkins** to support build automation and integrated with **JIRA** to monitor the commits.
* Connected continuous integration system with **GIT** version control repository and continually build as the check-in’s come from the developer.
* Involved in migration of **CI** tool stack from **SVN** to **GIT**, **Maven** to **Gradle**, Build force to **Jenkins**.
* Integrated **GIT** with **Jenkins** using the **GitHub** **Plugin** to automate the process of source code check-out by providing the URL and credentials of the GIT repository.
* Worked with logging/monitoring tools such as CloudWatch, New relic, Site24x7, and Nagios.
* Execution of automated tasks using CRON scheduling along with usage of bash scripts to accomplish task on multiple servers.
* Used Ant and Maven as build tools on java projects for the development of build artifacts on the source code.

**Environment**: Ant, Jfrog, Maven, Git, Jenkins, AWS, Docker, Artifactory, Kubernetes, Linux, AWS Services.

**Education:** Bachelor’s degree in computer science engineering from 2008 to 2011 in Singhania University, Rajasthan, India.

Master of Science in Computer Information Sciences in American college of commerce and technology from 2015-2016 with GPA

3.8. Virginia, USA.