******KAUSHICK.GV@GMAIL.COM**

**KAUSHIK VARMA**

**DEVOPSENGINEER**

**PROFESSIONAL SUMMARY:**

* Over 10 years of experience in the IT industry, specializing in Continuous Integration (CI), Continuous Deployment (CD), build automation, Release Management (RM), and DevOps across both enterprise-scale and mid-sized software development environments.
* 8+ years of extensive hands-on experience working with **Microsoft Azure**, along with deep expertise in **AWS**, delivering robust, scalable, and secure cloud solutions.
* Broad experience with a wide range of **Azure** and **AWS** services including **Azure Virtual Machines (VMs), Azure Blob Storage, Azure Active Directory (AAD), Azure DevOps, Azure Kubernetes Service (AKS), Azure Functions, Virtual Network (VNet), Azure Monitor, Azure Security Center**, as well as **AWS EC2, ELB, Auto Scaling, VPC, Route53, RDS, S3, IAM, SNS, SQS, DynamoDB, CloudWatch**.
* Proficient in automating deployment pipelines and operational tasks using **PowerShell**, **Python**, and CI/CD tools like **Azure DevOps**, **Jenkins**, and **AWS CodePipeline**.
* Experience with configuration management tools such as **Ansible, Puppet, and Chef**.
* Expertise in **Infrastructure as Code (IaC)** using **Terraform, CloudFormation, ARM Templates**, and **Azure DevOps Pipelines**.
* Strong knowledge of **containerization technologies**, including **Docker, Kubernetes, Azure Kubernetes Service (AKS), and Amazon Elastic Kubernetes Service (EKS)**.
* Proficient in **network security and governance** using **Azure Policy, AWS IAM Policies, AWS Security Hub, Azure Security Center, and Azure Key Vault**.
* Hands-on experience with **Azure API Management, AWS API Gateway, Azure App Configuration, and Logic Apps**.
* **Cloud Architecture & Design**: Ability to design **secure, scalable, and highly available multi-region cloud solutions** aligned with business goals.
* Experience with **multi-cloud environments** (Azure, AWS, GCP) to provide cross-cloud operational support.
* Strong programming skills in **Python, Terraform, PowerShell, and Shell Scripting**.
* Familiarity with **Azure and AWS Governance**, including **Blueprints, policies, tagging, cost management, and savings plans**.
* Expertise in **monitoring and observability** using **Azure Monitor, Application Insights, AWS CloudWatch, and Datadog**.
* Experience working with **repositories, build pipelines, pipelines, pull requests, post requests, release pipelines, deployment groups, and service connections** in Azure DevOps and AWS Code Commit.
* Proficiency in **SQL and NoSQL databases**, including **Azure SQL, Azure Cache for Redis, Azure Cosmos DB, MySQL, AWS RDS, DynamoDB, and Aurora**.
* Strong knowledge of **Software-Defined-Networks (SDN), Software-Defined-Data-Centers (SDDC), and Virtual Private Clouds (VPCs) on AWS and Azure**.
* Expertise in **Change Control and Change Management** processes for enterprise IT governance.
* Worked with **Application Release and Deployment (ARD), AWS Lambda, Azure Functions, and Power Apps** to streamline business applications.
* Skilled in **server infrastructure management**, including **Windows, Linux (RHEL, CentOS, Ubuntu), and containerized environments**.
* Proficient in **CI/CD pipeline development** using **GitHub Actions, Azure DevOps, AWS CodePipeline, and Jenkins**.
* Worked on **DevOps best practices, implementing GitOps workflows and SRE methodologies**.
* Enthusiastic, proactive, and adaptable team player with **excellent verbal and written communication skills**.

**CERTIFICATIONS:**

* **Az-900: Azure fundamentals.**
* **AZ-104: Microsoft Azure Administrator.**
* **AZ-400: Designing and Implementing Microsoft DevOps Solutions.**
* **Salesforce Administrator.**
* **Certified AWS Solution Architect – Associate Level.**

**TECHNICAL SKILLS:**

* **Operating Systems** - UNIX, Linux, RHEL CentOS Ubuntu and Windows.
* **Version Control Tools** -SVN, Perforce, GIT, Azure Repos, Team Foundation Server,Clear case.
* **Database** - MYSQL, MS Access, SQL Server, Aurora, Including Azure SQL,

 Azure cache for Redis, Azure Cosmos DB.

* **Scripting** - PowerShell scripting, Python, Perl, Terraform.
* **Application Server** - WebLogic, WebSphere, JBoss, IBMTDS, Apache Tomcat.
* **Build Tools** - ANT, MAVEN, Gradle, Azure DevOps Pipelines.
* **Configuration Mgmt. tools** - Chef, Ansible, Puppet, Docker, ARM Templates.
* **CI/CD TOOLS** - Jenkins, ANTHILL PRO, BAMBOO, GitHub Actions, Azure DevOps.
* **Issue Tracking Tool** - Jira, Service now, Bugzilla.
* **Monitoring Tools**: - Azure Monitor, Application Insights, Datadog.
* **Networking & Security**: - Azure Front Door, Azure WAF, Cloudflare, Azure Firewall,

Azure Key Vault, Azure VNet.

* **Cloud Platform** -AWS, EC2, S3, RDS, VPC, ROUTE53,SNS,SQS,AKS,AAD, IAM POLICIES

 AZURE(VMs, Storage, AzureDevops, Functions, Networking).

* **Repository managers** - Artifactory, Nexus, GITHUB.
* **Other Tools**: - Azure API Management, Key Vault, Azure App Configuration,

 Logic Apps.

**WORK EXPERIENCE:**

**Client: REPAY, Louisville, KY Jan 2023 – Till date**

 **Role: Cloud Engineer**

 **Responsibilities:**

* Developed **PowerShell scripts** for automating cloud infrastructure tasks, resource provisioning, and configuration management in **Azure**.
* Automated **Azure resource deployment** using **PowerShell, ARM templates, and Bicep** to streamline cloud operations.
* Integrated **PowerShell scripts with Azure AD** for user provisioning, role assignments, and security group automation.Designed and implemented **Azure Automation Runbooks** for cloud management and incident response.
* Automated Azure **cost monitoring and optimization** through PowerShell and **Azure Cost Management APIs**.
* Developed and maintained **CI/CD pipelines** in **Azure DevOps**, incorporating PowerShell for infrastructure automation.
* Configured and managed **Azure Virtual Machines, Containers (AKS), and App Services** for development and production environments.
* Implemented **Azure Governance best practices**, including **Azure Policy, Blueprints, and Role-Based Access Control (RBAC)**.
* Secured **Azure Key Vault** integrations for managing secrets, certificates, and sensitive credentials in automation workflows.
* Integrated **Azure Monitor, Log Analytics, and Application Insights** with PowerShell scripts for real-time cloud resource monitoring.
* Automated **IAM policies, Conditional Access, and Privileged Identity Management (PIM)** for secure cloud access management.
* Assisted teams in **cloud migration projects**, leveraging PowerShell for data migration, resource transformation, and validation.
* Developed **custom REST APIs** for cloud automation and reporting.
* Worked on **Azure networking components** like Virtual Networks (VNet), NSGs, and VPNs using PowerShell for automation.
* Collaborated with **cross-functional teams** to enhance cloud performance, security, and operational efficiency.
* Managed **Azure App Registrations**, API permissions, and OAuth-based integrations with PowerShell scripting.
* Ensured **compliance with security policies** using **Azure Security Center and Defender for Cloud**, Led efforts in **troubleshooting Azure services**, identifying performance bottlenecks, and optimizing cloud deployments.

**Environment:** Azure Cloud, Windows, Linux (RHEL, CentOS, Ubuntu), PowerShell, Python, Terraform, Ansible, Azure DevOps, GitHub Actions, SQL Server, Azure SQL, Azure Cosmos DB, Azure DevOps Pipelines, ARM Templates, Docker, Kubernetes, Azure Kubernetes Service (AKS), Azure Front Door, Azure WAF, Azure Firewall, Cloudflare, Azure API Management, Key Vault, Azure App Configuration, Logic Apps, Azure Monitor, Application Insights, Datadog, Artifactory, Nexus.

**Client: Mindoula, SilverSpring, MD Apr 2022– Jul 2023**

 **Role: DevOps Engineer**

 **Responsibilities:**

* **Deploying, managing,** and **operating scalable, highly available,** and **fault-tolerant systems** on **Azure** using **Virtual Machines, Scale Sets, Load Balancers, and AKS (Azure Kubernetes Service)**.
* Migrating **on-premises** applications **to Azure**, leveraging **Azure Migrate** and Infrastructure as Code (IaC) tools like **Terraform, Bicep, and ARM Templates**.
* **Provisioning, operating, and maintaining cloud infrastructure** using **Terraform, Ansible, and Azure Resource Manager (ARM) templates** for infrastructure automation.
* **Developing and managing CI/CD pipelines** in **Azure DevOps & GitHub Actions**, integrating automated testing, security checks, and deployment strategies.
* **Implementing Infrastructure as Code (IaC)** for cloud provisioning, including **Terraform, Bicep, and Ansible**, ensuring version-controlled infrastructure deployments.
* **Automating cloud deployments** using **PowerShell, Python, and Azure CLI**, reducing manual intervention and improving efficiency.
* **Managing containerized applications** using **Docker and Kubernetes (AKS)**, including Helm chart deployments and Kubernetes resource optimizations.
* **Implementing security best practices**, including **Azure Key Vault for secrets management, Azure Policy for governance, and Defender for Cloud for security compliance**.**Monitoring** and **logging cloud infrastructure** using **Azure Monitor, Log Analytics, Application Insights,** and **Datadog** to enhance observability.
* **Optimizing cloud cost and performance** by analyzing Azure **cost reports, implementing auto-scaling strategies, and right-sizing cloud resources**.
* **Managing networking components in Azure**, including **Azure Virtual Networks (VNet), Network Security Groups (NSG), VPN Gateway, Azure Front Door, and Azure Firewall**.
* **Automating patching, updates,** and **configurations** of Windows and Linux VMs using **Ansible, Azure Automation, and PowerShell DSC**.
* **Developing REST APIs** to integrate with cloud automation workflows and enhance DevOps automation.
* **Implementing GitOps workflows** using **ArgoCD and FluxCD** for Kubernetes-based deployments.
* **Managing artifact repositories** using **Artifactory and Nexus** for package and dependency management in DevOps workflows.
* **Supporting application deployments** on **Azure App Services, Azure Functions, and Logic Apps**.**Troubleshooting cloud infrastructure, networking, and deployment issues**, ensuring high availability and business continuity.

**Environment:** Git, GitHub, Azure DevOps, GitHub Actions, Jenkins, Ansible, Terraform, Bicep, ARM Templates, PowerShell, Python, Azure CLI, Azure, Azure Virtual Machines, Scale Sets, Kubernetes (AKS), Docker, Helm, Azure App Services, Azure Functions, Apache Tomcat, WebSphere, Azure SQL, Azure Cosmos DB, MySQL, Azure Virtual Networks (VNet), NSG, VPN Gateway, Azure Front Door, Azure Firewall, Azure Key Vault, Azure Policy, Defender for Cloud, Azure Monitor, Log Analytics, Application Insights, Datadog, ArgoCD, FluxCD, Artifactory, Nexus

**Client: Verizon Inc., Dallas, TX April 2020 – March 2022**

 **Role: AWS Cloud Engineer**

 **Responsibilities:**

* Administered services in AWS like EC2, S3, RDS, ECS, EBS, CloudFormation, Lambda Functions, Systems Manager, Secrets Manager, IAM, Route 53, ACM, ELB, Security Groups, Auto Scaling, CloudWatch, and CloudTrail.
* Troubleshooting and solving the server-side issues in the application.
* Manage source code, software builds, software versioning, & defect tracking on software maintenance tasks/projects.
* Supporting different environments, performing builds, deployments through Jenkins and Performing Base Image Upgrades.
* Responsible for Continuous Integration (CI) and Continuous Delivery (CD) process implementation-using Jenkins along with Python and Shell scripts to automate routine jobs.
* Involved in Scrum calls with all the teams daily to get and give updates in a sprint.
* Involved in migrating various Cloud Applications infrastructure to AWS Cloud from Data centers using Terraform and CloudFormation.
* Worked on building high-quality code by developing both unit and integration testing to measure the performance of the applications.
* Involved in troubleshooting the application's errors, issues.
* Going through the logs to identify the problems.

**Environment:** AWS, EC2, S3, RDS, ECS, CloudFormation, Lambda, Terraform, Jenkins, Python, Shell Scripting, Git, Scrum, CloudWatch, CloudTrail, CI/CD, Linux, Systems Manager, IAM, ELB, Route 53, ACM.

**Client: Expedia, Seattle, WA Jan 2018 - Mar 2020**

 **Role: DevOps Engineer**

 **Responsibilities:**

* Automate Deployment using a configuration Management tool like Puppet to provision amazon AWS Instances to enable continuous Deployments.
* Sending the Uptime and Downtime notifications to teams regarding server status as a part of the Build Engineer role at the time of deploying the EAR and WAR package in JBoss 4.3 Admin Console.
* Participated in the release cycle of the product, which involves environments like Development, QA, UAT and Production.
* Automated EC2 instances for DevOps Cloud Formation scripts.
* Written Cloud formation templates and deployed AWS resources using it.
* Assist with maintaining current build systems, developing build scripts, and maintaining the source control system. Managed the day-to-day operations of the Apace Tomcat, Apache Web Server, and Elastic Search engine.
* Established an automated system of creating VMs in OpenStack and VMware for Dev, ISO, Pre-Prod, and Prod, with minimal intervention for smooth transitions
* Build Java code and .NET code on different Jenkins servers as per the schedule.
* Migrating a production infrastructure into an Amazon Web Services VPC utilizing AWS CloudFormation, CodeDeploy, Chef, and EBS. This included migrating a number of production MySQL databases into RDS. Used JIRA as a ticketing tool.
* Customize monitoring and alerting scripts for all Back-Office servers utilizing Tomcat, Liferay.
* Involved in the Customization of Work Items and the transition Matrix in TFS.
* Experienced and proficient in deploying and administering GitHub, GitLab server instances.
* Have used Confluence to create, share and discuss content and projects.
* Developed build and deployment scripts using Maven and ANT as build tools in Jenkins to move from one environment to another environments. Managing the code migration from TFS, CVS and Star team to Subversion repository.
* Created Jenkins Workflows for the pre-deployment process (DB execution, Environment configuration changes etc.) on both QA and pre-production Environments.
* Worked with GIT and Subversion to manage source code.Involved in setting up Rally as a defect tracking system and configured various workflows, customizations, and plugins for the Rally bug/issue tracker.
* Coordinated with all the teams before and after the production deployments for the smooth production releases.Deployed and configured Bare Metal platform and cloud infrastructure environments including Virtual Box, AWS, and Open stack.
* Created cookbooks for new requirements and used the cookbooks from the community and used the versioning concepts for the cook books.Maintained the chef-repo using the GitHub and GIT.
* Integrated Maven with Subversion to manage and deploy project related tags
* Working closely with Web Administrators to understand, participate, and experience the technical architect for web sites such as Apache, Jboss, WebSphere, WebLogic; and deploying J2EE Applications to these environments.
* Gathered all the stakeholder approvals, necessary signoffs while acting as a release manager for two development teams.Configure Nexus for repository management of artifacts.
* Created a complete release process doc, which explains all the steps involved in the release process.

**Environment**:

Java/J2ee, Maven, GIT, GITHUB, Chef, TFS, Subversion,Jenkins, VMware,Linux, Puppet,ShellScripting, AWS,

Jenkins, WebSphere, MYSQL, Nexus. SVN, ANT, JBOSS.

**Client: Dotsquares Technologies India Pvt Ltd., India feb 2015– Jan 2017**

 **Role: Build/Release Engineer.**

 **Responsibilities:**

* Release Engineer for a team that involved different development teams and
multiple simultaneous software releases.
* Carried out Deployments and builds on various environments using a continuous integration tool.
* Source code configuration tools, Subversion and **GIT** used for different projects.
* Developed and implemented the software release management for the release of web applications.
* Designed and implemented Continuous Integration process using tools like Hudson with approval from development and other affected teams. Defined processes to build and deliver software baselines for internal as well as external customers
* Performed software configuration/release management activities for three different Java application
* Used GIT as Version Control System for two applications. Managed development streams and integration streams
* Responsible in doing build and deploying on different environments simultaneously
* Maintain and executed build scripts by coordinating with development and QA teams
* Experience in VMware SRM, VMware optimization, monitoring VMware ESXi iSCSI and SAN management.
* Experience in VMware ESXi and VCSA management, installation, configuration, and updating.
* Attend forum for management of release weekly meetings.
* Monitor progression of releases and keep them on track for delivery on planned release date.
* Worked in creating WebSphere Application Server Clustered Environments and handling Load Balancing for QA, UAT and Production.
* Submit request for implementation to various groups who participate in release.
Assemble Release Kit and complete all paperwork, including implementation/back out plans
* Communicate status of release to all stakeholders.

**Environment:** WebSphere, GIT, Python scripting, UNIX, windows, CVS, AWS, Jenkins, Java, Eclipse, Ant, Maven, Perl Scripting, Shell Scripting, Subversion, Tomcat Apache Application Server.