Thalla, Shravan kumar
Sr Cloud DevOps Engineer
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A skilled, results-driven DevOps Cloud Engineer with expertise in high-level cloud architecture, cost optimization, and creating scalable AWS environments for top organizations like Amazon and Comcast. Experienced in designing end-to-end CI/CD pipelines with automation, leading security compliance POCs, and managing complex ETL jobs across multiple accounts on hybrid cloud. Delivers innovative solutions across supply chain, insurance, healthcare, and e-commerce sectors, maximizing business value with adaptable, tech-driven strategies.

Summary:

- As a Senior DevOps Cloud Engineer, I bring a rich background in IT, with expertise in Configuration Management, Source Code Management, Build/Release Management, and Cloud DevOps operations across diverse platforms. I have a strong foundation in Linux administration, working across Linux distributions (e.g., REDHAT, CentOS, Ubuntu), Windows, and iOS.
- I have a complete understanding of End-to-End DevOps Architecture, covering everything from source code management to monitoring. I'm skilled in DevOps/Agile processes, including code review, test automation, build/release automation, incident and change management, and using various DevOps tools.
- I manage version control with tools like Git and Bitbucket, applying Git branching strategies like Git-flow. I work efficiently in the Git CLI, managing multiple branches simultaneously for bug fixes and hotfixes.
- For the build and release process, I use tools like Maven for Java-based and containerized applications. I've implemented CI/CD pipelines with GitLab, Bamboo, and Jenkins, writing Jenkins pipelines in Groovy. I've also managed Bamboo CICD configurations using Bamboo-specs.
- I oversee deployments to pre-production and production environments, monitoring applications with tools like Splunk, Datadog, and CloudWatch and setting up custom alerts for performance metrics.
- Troubleshooting server issues is a key area, where I monitor logs and leverage tools like Splunk, Kibana, and CloudWatch to resolve issues across different environments.
- My DevOps skill set includes scripting in Shell, Bash, and Python. I deploy infrastructure with IaC tools like Terraform and CloudFormation, managing services on AWS, Azure, and GCP.
- I automate third-party applications using Configuration Management tools like Ansible, creating playbooks and recipes from scratch for host automation and file management.
- My work in containerization and orchestration includes implementing Docker and Kubernetes to manage microservices, migrating on-prem containerized applications to AWS EKS and ECS for cost savings, disaster recovery, high availability, and security best practices.
- Using Quick-sight I have Developed interactive, visually rich reports and dashboards for financial and operational insights.
- Ensure security with RLS, IAM roles, and access controls. Monitor with CloudWatch, X-Ray, and enable disaster recovery. Create modular IaC templates and maintain code quality with SonarQube and CodeQL in CI/CD pipelines.
- Designed event-driven applications using Lambda triggers from S3, DynamoDB streams, and API Gateway. Used S3 as a data lake for raw, processed, and curated datasets.
- Wrote scripts for ETL pipelines, automation, and custom AWS Lambda functions. Defined and deployed AWS infrastructure using declarative YAML/JSON templates.
- Created highly available, serverless apps using Lambda, API Gateway, and Step Functions.
- I actively participate in Change Advisory Board (CAB) meetings to determine release timelines and assess risks, with deep knowledge of software development processes across the product lifecycle.
- In a 24x7 environment, I provide on-call support to ensure the availability and performance of critical systems.

Technical Skills:

Cloud Platforms	AWS, Azure, GCP and Hybrid Cloud
Operating Systems	Linux distributions (REDHAT, CentOS, Ubuntu), Windows and IOS
DevOps Tools	GitHub, Bitbucket, Maven, Jenkins, Terraform, Ansible, Splunk, Datadog, Docker, Kubernetes, Security and networking tools.
Scripting Languages	Python, Shell scripting and Bash.

Certifications and Achievements:

- AWS Certified Solutions Architect | Associate
- AWS Certified Solutions Architect | Professional
- AIEEE member for 3 years in Bachelors.

Work experience:

Sr Cloud DevOps Engineer **Aug 2022 – Present**
Ellucian – Herndon, Virginia

- Led complex cloud provisioning, deployment, and infrastructure automation initiatives using AWS CloudFormation and Terraform, enabling scalable and compliant environments.
- Standardized cloud operations by developing SOPs and mentoring engineering teams on automation tools such as AWS Systems Manager, Ansible, and Lambda-based workflows.
- Architected data pipelines and analytics dashboards using AWS Glue, Athena, QuickSight, and Step Functions—enabling real-time insights, drill-down analytics, and KPI reporting.
- Optimized SQL workloads across Amazon RDS (SQL Server, MySQL, PostgreSQL) for data transformation and reporting, improving performance and reducing compute costs.
- Drove cost efficiency by designing reusable serverless infrastructure using Python and TypeScript, leveraging services like Lambda, API Gateway, and DynamoDB.
- Implemented robust CI/CD frameworks using AWS CodePipeline, GitLab CI, and Jenkins to accelerate application delivery and enforce release consistency.
- Spearhead organization-wide AWS governance using Control Tower and AWS Organizations, managing over 800 AWS accounts with standardized baselines, SCPs, and account vending automation.
- Architect and oversee Step Functions-driven automation pipelines to orchestrate cross-account tasks such as account creation, resource tagging, and DynamoDB updates using Lambda and Python.
- Championed DevOps practices by integrating automation across cross-cloud environments, collaborating with teams to refine processes through AWS-native DevOps services.
- Strengthened cloud security posture by aligning IAM policies and permission boundaries with evolving business requirements and compliance mandates.
- Designed self-healing systems using AWS CloudWatch and automated remediation scripts, significantly reducing incident response times and improving system uptime.
- Enabled secure hybrid connectivity using AWS Direct Connect and guided integration strategies across on-prem and cloud platforms.
- Automated key operational tasks using Python and PowerShell across multi-account AWS environments, ensuring high availability and operational consistency.
- Directed enterprise-level disaster recovery and data protection strategies using AWS Backup, enabling reliable RTO/RPO targets for critical workloads.

Cloud DevOps Engineer (Professional Services) **March 2021– Aug 2022**
Amazon web services – Seattle

- Leverage knowledge of the software development life cycle (SDLC) and agile/iterative methodologies to migrate existing applications and develop new ones using AWS cloud services such as AWS Lambda, Elastic Beanstalk, and API Gateway, ensuring alignment with customer needs.
- Help partners and customers utilize AWS services, including Amazon EC2, Amazon S3, Amazon RDS, Amazon DynamoDB, AWS IAM, AWS Lambda, and AWS Step Functions, by understanding customer requirements, delivering packaged offerings, and creating custom solution engagements.
- Implement infrastructure automation using DevOps tools such as AWS CloudFormation, AWS CDK, and scripting languages like Python, Ruby, PowerShell, and Bash to streamline AWS solutions for workloads.
- Assist in designing technical architectures and scaling solutions, delivering proof-of-concept projects, conducting topical workshops, and leading AWS service implementation projects for customers.
- Support key customer solutions, including big data processing using Amazon EMR, Amazon Redshift, and AWS Glue; batch processing with AWS Batch; and analytics with Amazon Athena and QuickSight.
- Design and implement secure architectures by leveraging AWS services like AWS Security Hub, AWS WAF, Amazon GuardDuty, and AWS KMS to meet compliance requirements such as SOX, HIPAA, and GDPR.
- Deliver scalable and reliable disaster recovery and backup solutions using Amazon S3, AWS Backup, and Amazon Glacier, ensuring critical data protection for customers.

- Optimize and monitor customer workloads using AWS CloudWatch, AWS X-Ray, and AWS CloudTrail to enhance performance, troubleshoot issues, and improve operational visibility.
- Enable containerized workload orchestration and scaling using Amazon ECS, Amazon EKS, and AWS Fargate, ensuring seamless application deployment and management.
- Collaborate with customers to modernize and transform applications, integrating advanced services like Amazon SageMaker for machine learning, AWS IoT Core for IoT solutions, and AWS AppRunner for rapid deployment of web applications.
- Provide feedback and recommendations for new AWS capabilities by sharing real-world implementation challenges and opportunities, helping drive the continuous improvement of AWS service offerings.

Cloud support engineer (Deployment) **April 2020 – March 2021**
Amazon web services – Seattle

- Analyze and identify data trends to drive internal and customer-facing platform improvements, advancing standardizations of new and existing business processes within AWS environments.
- Provide proactive recommendations throughout all phases of web service implementation for customers, focusing on DevOps technologies, system automation, infrastructure orchestration, configuration management, and continuous integration/delivery (CI/CD) tools, including AWS Code Pipeline and Code Deploy.
- Troubleshoot and resolve customer issues using AWS services such as ECS (Docker container orchestration), EKS (Kubernetes deployments on AWS), Elastic Beanstalk, CloudFormation, OpsWorks (Chef-based automation), and Code Pipeline for CI/CD workflows, applying a deep-dive approach using internal AWS tools.
- Collaborate with Subject Matter Experts (SMEs) and service engineering teams to resolve complex customer issues, documenting edge-case scenarios and workflows in AWS knowledge bases and creating technical tutorials, how-to videos, and articles for the AWS customer community.
- Leverage programming skills in JSON, YAML, and Python to assist in deploying and managing cloud applications on AWS services, ensuring robust and scalable architectures.
- Perform network troubleshooting for issues related to Docker containers and Kubernetes clusters deployed via ECS and EKS, utilizing tools and protocols such as TCP/IP, DNS, DHCP, firewalls, routing, switching, traceroute, iperf, dig, and cURL.
- Evaluate and optimize customer infrastructure and application deployments, supporting version control systems like Git and SVN while ensuring seamless integration with AWS services.
- Ensure security and scalability of customer infrastructures by managing Web Application Firewalls (WAF), Elastic Load Balancers (ELB), and analyzing AWS API calls via AWS CloudTrail to troubleshoot and secure cloud resources.
- Deliver in-depth support for CI/CD tools such as AWS CodePipeline, CodeCommit, and CodeDeploy, ensuring efficient implementation of automation workflows and customer pipelines.
- Provide insights and recommendations to enhance customer architecture and operations, working on containerized and serverless applications while maintaining an expert-level understanding of AWS services and tools.

Cloud Security Engineer II **Sep 2019 – April 2020**
Comcast Corporate – Philadelphia, PA

- Develop automation scripts using Bash and Python to streamline server administration tasks and configuration, ensuring efficient operations within the Azure DevOps environment.
- Connected Quick Sight to multiple data sources, including AWS S3, Athena, and RDS for real-time analysis.
- Developed RESTful APIs with API Gateway and integrate with Lambda and DynamoDB for scalable backend services.
- Managed RDS instances and ensure high availability and disaster recovery.
- Develop tools and cloud functions using Java, JavaScript/TypeScript, and Node.js for enhanced flexibility.
- Managed multi-cloud environments with HCL scripts to ensure consistent infrastructure deployment.
- Used CloudWatch Logs and AWS X-Ray to monitor and debug serverless workflows. Maven and Shell scripting to automate application builds, tests, and deployments.
- Lead the integration of projects into operations by emphasizing automation, standardization, instrumentation, and adherence to best practices for Azure DevOps pipelines and CI/CD workflows.
- Create prototypes and document development efforts using system design flows, data models, and version-controlled repositories in Azure DevOps to influence product direction and ensure transparent, agile workflows.
- Perform complex and routine maintenance tests within the Azure DevOps environment, utilizing issue management tools for tracking and resolving technical challenges while ensuring adherence to best practices.
- Leverage Azure DevOps resources to solve development problems, recommend new tools or processes to management, and maintain consistent standards for pipeline configurations and release management, exercising independent judgment in critical decision-making processes.

DevOps Network Engineer / Build Manager **Jan 2019 – Sep 2019**
Sentry Insurance – Stevens point, Wisconsin

- Establish and manage network services on Google Cloud Platform (GCP) and Azure, ensuring network security, high availability, scalability, and disaster recovery across cloud environments.
- Facilitate and oversee the software build and deployment processes on Azure and GCP, addressing and resolving build and deployment issues to ensure seamless application delivery.
- Design and implement Jenkins pipelines to automate and orchestrate code deployments across multiple stages within Azure and GCP environments, enhancing operational efficiency.
- Drive DevOps infrastructure innovation by conducting proof-of-concept projects and implementing cutting-edge solutions to streamline processes and enhance infrastructure capabilities.
- Lead the migration to modern DevOps tools and solutions across Azure and GCP ecosystems, optimizing performance and scalability while standardizing practices.
- Leverage Azure and GCP resources for infrastructure management, implementing robust monitoring, alerting, and notification systems using tools like Azure Monitor, Application Insights, and GCP Stackdriver.
- Automate deployment processes and application management using scripting languages such as Python and Bash, tailored for Azure and GCP environments, to enable consistent and efficient delivery.
- Utilize Terraform for infrastructure provisioning and employ Docker and Kubernetes for containerization and orchestration across Azure and GCP, ensuring scalable and modular deployments.

Cloud security Engineer **Sep 2017 – Jan 2019**
Kohls Corporation – Milwaukee, Wisconsin

- Install, configure, and maintain network security tools such as Vault, Splunk, and AquaSec to meet business security requirements and protect cloud infrastructure on AWS and Azure.
- Deploy and manage Amazon EC2 instances while integrating AWS and Azure cloud security tools with databases and other services to enhance security and operational efficiency.
- Collaborate with CI/CD and DevOps teams to automate infrastructure deployment processes, embedding security best practices within the development and deployment pipelines.
- Lead proof-of-concept initiatives for evaluating and implementing security tools across development, testing, and production environments, ensuring seamless adoption and optimal performance.
- Optimize network protocols and manage IP whitelisting to effectively control inbound and outbound traffic, ensuring secure connectivity within AWS and Azure environments.
- Implement and monitor cloud security frameworks by leveraging Azure Security Center, AWS Security Hub, and related services to identify vulnerabilities and mitigate risks.
- Continuously improve cloud security operations through proactive monitoring, vulnerability assessments, and incident response planning to maintain compliance and safeguard infrastructure.

Network Engineer **March 2016 – Sep 2017**
Econtenti Inc - NewJersey

- Designing and implementing scalable AWS networking environments by configuring VPCs, subnets, route tables, and security groups, ensuring a robust, secure, and efficient network architecture in line with AWS best practices.
- Collaborating with cross-functional teams, including application developers and database administrators, to architect and deploy AWS EC2, RDS, and other AWS services, ensuring seamless integration and alignment with business goals.
- Leveraging AWS networking technologies such as VPC Peering, Transit Gateway, and Direct Connect, along with managing network routing and segmentation to ensure optimal performance and high availability in the cloud infrastructure.
- Utilizing AWS CloudWatch and third-party monitoring tools to proactively monitor and identify performance bottlenecks, troubleshoot system issues, and maintain the health of AWS resources and services.
- Implementing IAM policies and roles to manage granular access control across AWS services, ensuring security compliance and least-privilege access for application teams and users.
- Automating network and system configurations using AWS CloudFormation and Terraform, streamlining the deployment of network infrastructures and maintaining consistency across multiple environments (dev, staging, production).

Education:

University of New Haven, Connecticut, US | Master of science
Year of Graduation: 2015