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ASHISH GAULI

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PRACTICES

- DevOps
- Solution Architecture
- IT Operations
- Network Configuration
- Server Administration
- Cloud Migration
- Infrastructure as Code
- Integration
- Monitoring
- Configuration Management
- Programming and Automation
- Site Reliability
- Continuous Delivery
- Tactical Execution
- Teamwork/Leadership

INDUSTRY CERTIFICATIONS

	Year Obtained
AWS Certified Security Specialty, Credential ID: C0C2FMK2ZNQ4QE36	**2023**
AWS Certified Solutions Architect – Professional, Credential ID: F75XKS21H1B11Y3K	**2020**
AWS Certified DevOps Engineer – Professional, Credential ID: CKZSXMDBKME41Q9B	**2020**
AWS Certified Architect – Associate, Credential ID: K6BN7RSC2NBE1WGY	**2015**

TOOLS AND SKILLS

Programming Languages: Python, Java, Bash, Powershell
AWS: IAM, EC2, ECS, EKS, Lambda, Fargate, S3, EBS, EFS, VPC, Route53, Transit Gateway, CodeCommit, CodePipeline, CodeBuild, DataPipeline, RDS, CloudWatch, API Gateway, DynamoDB, DMS, Systems Manager, SNS, SQS, Kinesis, ImageBuilder, KMS, Cognito, MSK
Infrastructure as Code: Terraform, Cloudformation, AWS CLI
CICD and Automation: Jenkins, Rundeck, Ansible, Powershell DSC, Bitbucket, Gitlab pipelines, Jira
Operating Systems: Redhat, CentOS, Windows
Database: MySQL, DynamoDB, Cassandra

WORK EXPERIENCES

Senior Site Reliability Engineer, Ads Platform   Aug 2021 - Present
Apple – Contract through MindSource

- Responsible for operation of data infrastructure for advertising platform and ad-serving online infrastructure in AWS.
- Provided on call support, ensured platform stability, and assisted with incidents and maintain platform SLA's.
- Collaborated with application engineering teams to enhance service operability and reliability, streamline on-call processes, and incident management and post-mortem analysis.
- Developed tooling and automation using python, terraform, Rio to enhance the efficiency and operability of our infrastructure and applications.
- Responsible for primary tactical support to cloud related issues to the application engineering team of size 90.
- Upgraded Linux 1 instances to Linux 2 across all regions for ECS clusters. Enhanced instance configuration through better user data script automation.
- Developed pipelines to automate the creation of AMIs and facilitate the replacement of ECS EC2 instances with updated AMIs.
- Introduced and deployed ECS capacity providers across all regions and environments, optimizing resource management and scaling efficiency for existing ECS clusters.
- Deployed and configured EKS cluster with self-managed nodes in a new AWS region. Deployed datadog agent daemonset.
- Responsible for operation of MSK kafka cluster in all 7 regions.
- Worked with security team to mitigate identified cloud security vulnerabilities in the AWS accounts.

Lead Cloud Engineer, Cloud Services   Oct 2015 - Aug 2021
Innova Solutions - Contract

- Participated in initial application discovery, cloud readiness assessment, architecture review design for cloud migration.
- Migrated multiple monolithic, microservice based, multi-tier, and containerized applications from on-premises datacenter to AWS EC2, ECS, EKS following AWS best practices.
- Utilized AWS CloudEndure to rehost on-prem stand-alone machines to AWS, and DMS to migrate existing on-prem MySQL, MongoDB server data into AWS RDS.
- Collaborated with application teams to design, develop and deploy serverless and containerized applications in AWS.
- Developed and managed CICD systems and methodologies using Gitlab, Maven, CodeBuild, CodePipeline, and Jenkins.
- Authored and automated serverless deployment of function based IAM policies and permission sets to provide IT personnel access to AWS accounts.
- Developed python-based tool to migrate DNS zones to Route53, and developed Fargate based DNS backup solution.
- Worked with application teams to develop app-specific cloud disaster recovery plans and participated in DR exercises.
- Integrated AWS SSO service with upstream SAML identity provider and centrally managed access and user permissions.
- Deployed and managed multi-account, multi-VPC Transit Gateway based Hub and Spoke networking topology to integrate with on-prem network via a VPN connection.
- Successfully transitioned the infrastructure and application deployment to onshore and offshore application teams.
- Automated the creation, management, and deployment of customized, secure server AMI images using Imagebuilder.
- Setup Cognito pool for application login authentication and integrated the pool with AzureAD identity provider.
- Implemented automated serverless security controls, governance processes and compliance validations systems.
- Applied CloudHealth based cloud cost control, optimization and governance solution to reduce cloud spending.
- Implemented data workflow orchestration using Composer in GCP.
- Defined and deployed monitoring, metrics, and logging systems based on ELK.
- Utilized Ansible and Powershell DSC to configure servers in AWS and on-prem servers.
- Authored Terraform modules and cloudformation templates to create infrastructure in AWS.
- Utilized AWS Control Tower and Service Catalog to setup multi-account AWS environment.

Cloud Engineer   May 2012 – Sept 2015
Rackspace Technology- Contract

- Successfully migrated monolithic applications from on-prem data center to EC2 servers in AWS cloud.
- Migrated the database workloads, scripted and tested all aspects tables, keys; automated data loads using Bash Script, and using AWS EMR/Hive and AWS Data Pipeline with S3 and Redshift as the source; autoscaled DynamoDB, and created Rundeck jobs to automate the creation and load process.
- Automated the infrastructure creation process using Bash Scripting, CloudFormation, and Jenkins.
- Replaced existing Data Access Layer with Java based DAL for DynamoDB providing RESTful API for the application. Created AWS Cloudformation scripts to deploy data layer application in AWS EC2 with Elastic Load Balancing, Auto Scaling, CloudWatch Monitoring, and SNS notification system.
- Implemented multi-region DR solution for a business critical application.
- Provided production support for applications and Linux/Windows workloads.
- Wrote python and bash scripts to enhance and/or automate infrastructure processes.

EDUCATION
Fisk University, Nashville TN   May 2012
Bachelor of Computer Science
GPA: 3.73/4.0