Junaid Khan

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Senior Cloud Engineer | Cloud Migration Specialist | DevSecOps Engineer

SUMMARY:

- Over 13+ years of professional experience in software industry comprising of design, development, deployment, and cloud implementation with thorough knowledge in AWS (Amazon Web Services)/Azure, Hybrid Cloud, VMware virtualization, and related technologies.
- AWS Certified Solutions Architect who is highly skilled in Cloud Engineering, DevOps & Cloud Security with proven success in automating & deploying solutions that are highly scalable & fault tolerant.
- Lead multiple data centers migration & infrastructure consolidations to Cloud which overall resulted in ~50% cost savings.
- Experience in defining IT RoadMap, Cloud Migration & Application Architecture Strategy.
- Good knowledge & hands experience on capacity planning, load testing, monitoring & metrics-based auto scaling.
- Enforced best practices by creating service catalog for cloud services, enforcing security standards, least privilege access across the board, storing data securely.
- Proficient in implementing & securing Cloud Solutions using various cloud services. Hands on experience in implementing Cloud native serverless as well as legacy server-based solutions.
- Worked out strategy to convert legacy microsites into Docker Containers & deployed them using container orchestration technologies like Kubernetes & Elastic container service.
- Using AWS Code pipeline, Code Build, Code Commit automated end to end setup for Enterprise Data Warehouse (EDW) & release process.
- Worked out orchestration & operations strategy an Extract Transform Load (ETL) process for moving messaging data from ~600 highly normalized application tables with inconsistent data quality in SQL Server into 1 big de-normalized database table in Redshift.
- Using AWS network load-balancer, setup a secure SSH tunnel between Looker (Analytics software) & private data sources like AWS redshift & on-prem data bases.
- Proficient in Infrastructure orchestration & automation using CloudFormation, Ansible, Shell/Bash script & PowerShell.
- Expertise in handling complex maintenance and administration tasks by leveraging appropriate services and writing custom solutions for automation. Ex. Implemented custom solutions to auto join EC2 instance upon launch in corporate active directory & unjoin them upon termination. This AD integration allowed us to centrally control access as well rollout various security features & software.
- Hands-on experience with Python, Nodejs, .NET, PHP, etc.
- Worked extensively on multiple security initiatives like Intrusion detection, endpoint monitoring, DDoS protection, hardening Linux and windows platforms to comply various regulatory requirements like HIPPA, PCI, SoC, etc.
- Good knowledge around network protocols (like TCP/IP, UDP, DNS, SMTP, FTP) & OS patching.
- Lead a site reliability team & closely with various teams (Development, testing etc.) to implement fixes in Production under strict time constraints.
- Worked on numerous projects across IT industries and possess strong skills in application enhancements, performance tuning and production support. ability to analyze the results of monitoring systems to identify problem areas.
- Highly motivated self-learner with ability to develop proficiency and adapt to new technologies in a short period of time.
- Implementation and documentation of best practices; assessment of new tools and technologies.

TECHNICAL SKILLS:

Cloud Services: VPC | EC2 | S3 | RDS | Lambda | Route53 | SNS | SQS | API Gateway | Cognito | ECS | EKS | Elastic Beanstalk | IAM | CloudFront | Cloud Watch| Cloud Trail | Cloud Formation | Migration Hub | Server Migration Service (SMS)| Data Migration Service (DMS) | Code Build | Code Deploy | Code Pipeline | Redshift | EMR | Service Catalog | AWS Inspector | Macie
Languages/Scripts: Python | NodeJS | C# | Dotnet Core | PHP | jQuery | HTML5 | CSS | Angular | React | Bash | PowerShell
Application Servers: MS IIS | Apache Tomcat | NGINX | etc.
Databases: MS SQL Server | Postgres | AWS Aurora | DynamoDB | MySQL | Oracle |
Orchestration & DevOps: Azure DevOps | Ansible | Chef | Cloudformation | CodeBuild | CodeDeploy | CodePipeline | Jenkins | SonarCube | Fortify | VeraCode | Visual studio| VSCode | Eclipse | MS Visio
Logs & Monitoring Tools: CloudWatch| Solarwind| Grafana | Prometheus | Elastic Search Kibana | Fiddler | Postman

EDUCATION:

Bachelor of Engineering – Electronics
Nagpur University, India

Post Graduate Diploma in Advance Computing
Center for diploma in advance computing, India

CERTIFICATION:

• AWS Certified Solutions Architect
• Architecting Microsoft Azure Solutions
• Configuring Microsoft Azure Solutions

EXPERIENCE:

SOC & PCI CONTROLS ROLLOUT (01/2021 – PRESENT)

Position: Cloud Lead/DevSecOps Engineer

• As a Cloud Lead took initiatives & formulated various governance/controls strategy around various security initiatives like SOC/CSI benchmark/PCI compliance for upcoming audit & migration project.
• Worked with various stakeholders & defined a unified governance controls around Azure DevOps for SOC audit.
• Build a solution that consolidates ~1500 repos from 120 Azure DevOps projects to 10 projects that made rollout easier & sustainable.
• Wrote a complex automation utility that helped in rolling out SOC controls across ~1500 repositories, 2000 build & release pipelines.
• Using AWS Config & Systems Manager, rolled out many security controls & remediation actions like restrict public access to S3 buckets, Encryption, WAF on ALBs, TLS version upgrade, etc.
• Maintained and enforced AWS best practices for AWS IAM user, roles and policies.
• Used AWS inspector to scan EC2 instances against PCI/CSI benchmark & created hardened AMIs (Linux/Windows) to use in applications.
• Worked out rollout strategy & Automated installation of Bitdefender (Endpoint security), Nxlog(Logs, FIM), Rapid7 (Vulnerability).
• Wrote python lambda to automate non-prod instance start/stop on schedule basis.
• Designed and developed innovative compliance dashboard using Lambda functions & CloudWatch metrics/events. This dashboard provides detailed environment compliance status to leadership team & security team

   Services/Tools: AWS EC2, ASG, ALB, WAF, AWS SSM, AWS Config, AWS Inspector, S3, Code Deploy, CloudFormation, Azure DevOps, Nodejs, Dotnet Core, Python, Bitdefender, NxLog, Rapid7, CloudWatch metrics, events.

MULTIPLE DATACENTER MIGRATION (10/2019 – 12/2020)

Position: AWS Migration Specialist/DevSecOps Engineer

• Created cloud migration assessments, strategies defining delivery architecture, creating the migration plans, designing the orchestration plans to assist in creating and executing of migration.
• Inventory management & planning, prioritization, architectural mapping of applications for migration to cloud. Coordinating with third party vendors to understand application model.
• Building subject-matter-expertise on programs/applications and supporting business & operations in defining processes & best practices.
• Conducting Proof of Concept for Latest cloud-based services like & holding Conditions of Satisfaction (COS) discussions with stakeholders to improve service delivery.
• Developing technical and security specifications for the targeted applications/workloads in AWS.
• Develop a migration approach (Lift & shift/Serverless/Containers/Hybrid) to move workloads from On-Premises to AWS or develop new cloud-ready application solutions.
• Using AWS Migration Hub & Server Migration Service (SMS), migrated ~150 virtual machines hosting ~250 applications from VMware vCenter to AWS Cloud.
• Successfully migrated legacy LAMP platform applications (~200) from Rackspace account to AWS Cloud using AWS Services like VPC, EC2, ASG, CloudWatch, API, Lambda, S3, RDS, Aurora, SQS, SNS etc.
• Built and deployed Docker containers to break up monolithic app into microservices, improving developer workflow, increasing scalability, and optimizing speed.
• Partner with global application development teams, technologists, and operational support teams positioned in global locations

- Involved in phases of testing for example Integration testing, Smoke testing Performance testing and Load testing
- Utilized CloudWatch to monitor resources such as EC2, CPU memory, Amazon RDS DB services, DynamoDB tables, EBS volumes; to set alarms for notification or automated actions; and to monitor logs for a better understanding and operation of the system.
- Designed multiple CloudWatch Dashboards for monitoring production application performance.
- Developed and executed Shell scripts and worked on Python Scripting in different projects for automation of regular repeating tasks.
- Provide security administration support with respect to users and privileges within all automation tooling
- Used Static code analysis and scanning tools like SonarQube, Veracode.
- Actively Involved in resolving / troubleshooting critical issues for enterprise application. Played the role of SME in various modules of the enterprise application and able to quickly nail down all the customer reported issues in the application during the migration phase.
- Ability to apply innovation and improvement to the data migration/support processes and to be able to manage multiple priorities effectively
- Expertise in 3rd Party application migration (Lift & Shift and re-engineering applications)
- Working closely with other technology & Cloud architects for AD and for migration of on Prem to Azure & AWS projects.
- Improve code delivery and release with CI/CD pipelines.
- Lead a team of 5 people & trained them in various Cloud services & DevOps pipelines.

Services/Tools: AWS Migration Hub, Server Migration Service, EC2, ASG, Kubernetes, Elastic Container Service (ECS, ECR), Docker, ALB, WAF, Fsx, Storage Gateway, OpsWorks, CodeCommit, Git, Chef, Linux, Apache Tomcat, PHP, RDS(Postgres/Aurora), VPC, Route53, S3, Code Deploy, CloudFormation, Dotnet framework, Windows, IIS, MSSQL, SSRS, PowerShell, Shell Scripting, Python, Linux, dotnet core, windows kestrel.

ELECTRNOICS BENEFITS VERIFICATION (EBV) (06/2019 – 08/2019)

Position: Cloud Engineer/DevSecOps Engineer

- Analyzed & assessed legacy Benefits Investigation system to refactor/redesign it.
- Designed EBV (Electronic Benefits Verification) a cloud native serverless solution using AWS Lambda, Api Gateway, SQS, SNS, IAM, Step function, CloudWatch, etc.
- Configured apache proxy servers to call third party vendors like SureScript etc.
- Using AWS CloudFront's, worked out routing strategy to use both legacy & new benefits verification system.
- Created multistage CI & CD YAML pipeline for continuous build & release management.
- Along with WAF & KMS keys, used AWS Cognito app client secret to secure API's.
- Installed CloudWatch agent to push OS level metrics & applications logs in to CloudWatch.
- Created multiple CloudWatch dashboard that helped in troubleshooting issues & Infra structure operations management.

Services/Tools: Docker, Linux, AngularJs, NodeJs, AWS Lambda, S3, Postgress DB, SiteSpeedIO Plug-In, VSCode, TFS, Notepad++, Grafana, AWS CloudFormation.

ENTERPRISE DATA WAREHOUSE (EDW) (11/2018 – 05/2019)

Position: Cloud Engineer/DevSecOps Engineer

- Understood Enterprise data warehouse design & wrote cloud formation scripts for automation.
- Worked with Data engineers on CI/CD pipelines (AWS CodeCommit, Codebuild, CodePipeline, etc) for end-to-end automation of entire EDW release cycle.
- Setup an Extract Transform Load (ETL) process for moving messaging data from ~600 highly normalized application tables with inconsistent data quality in SQL Server into 1 big de-normalized database table in Redshift.
- Extract & Transform stages run on Amazon EMR service w/ Apache Spark (Python API) delivering fault-resilient parallel data processing across a cluster of instances available in most EC2 configurations.
- Wrote AWS CloudFormation and event streams (Kinesis) to integrates Spark ETL process in ConnectiveRx infrastructure platform.
- Wrote serverless solution using AWS Lamda & Cloudwatch event that triggers ETL flow on schedule or on-demand on incremental data loads.
- Using AWS network load-balancer, setup a secure SSH tunnel between Looker (Analytics software) & private data sources like AWS redshift & on-prem data bases.

Services/Tools: AWS RedShift, EMR, CloudFormation, AWS Lambda, AWS Code Pipelines, CodeBuild, CodeCommit, Step functions, CloudWatch, S3, RDS, MSSQL, Looker.