

**Siddharth Kamal**

**Profile**

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| Having 6+ years of experience as a AWS Solution Architect and DevOps-Automation Engineer. Having expertise on AWS Cloud, IT infrastructure consulting, DevOps solutions implementation and application support. Having expertise in migrating on-prem infrastructure and Java applications to Public cloud providers.  Working as a part of CCOE (Cloud Center of Excellence) from two years with different organizations.  In Sopra Steria Cloud CoE is an entity that drives various initiatives within the organization to transform the workforce, providing guidelines in cloud adoption, setting standards, conducting various PoCs enabling cloud adoption, defining best practices, assisting in pre-sales tasks etc. |
| **Certifications**  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   |  | | --- | |  |  * AZ-300 * AWS Solution Architect Certified – Professional * AWS Solution Architect Certified - Associate * AWS Sysops Administrator – Associate * WebSphere Administrator V8.0 Certified |

**Profile Description**

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* Lift and Shift migration of Java applications to AWS.
* Designing migration strategy for JAVA applications which includes – messaging, database, jdk upgradation, application servers, authentication/ authorization, jdbc tuning, application performance, build and release, compute resources, networking, security etc.
* Experience in re-engineering monolithic applications to microservices using container technology.
* Experience in implementing container orchestration using managed Kubernetes platforms.
* Experience in migration which includes -> Reengineering, Re Architect of existing applications.
* Knowledge of major cloud service providers, like AWS, Azure etc.
* Provided high level architecture on AWS (Cloud) and its implementation.
* Helping customers to design and implement AWS environment including AWS Security best practices.
* Manage infrastructure and multiple tasks on Amazon-AWS (Cloud).
* Extremely knowledgeable about CI/CD integration.
* Creation of pipeline scripts on Jenkins for automation of deployments.
* Implementing data warehouse Architecture on AWS.
* Creating data pipelines for data warehouse environments.
* Developing scripts for build, deployment, maintenance and related tasks using Jenkins, Docker, Maven, Bash
* Implementing and developing solutions enabling Development and Operations teams to build, deploy, monitor and test applications and environments
* Setting up and introducing Continuous Deployment processes and advising on best practice
* Docker and Compose used for making the environments dockerize.
* GIT, GitHub as used for the source code management repositories.
* Maven used for build automation perspective.
* Shell script and Python are used for scripting.
* Strong use of Shell scripting languages including bash for Linux
* configuration management using Ansible
* Creation of Pipeline scripts in Jenkins
* Implementing GIT environment for the developers
* Creating Infrastructure on AWS and on-premises using terraform and cloud formation.
* Strong experience in configuration management using Ansible.

Technical skills

* **Cloud –** AWS and Azure
* **AWS Services**- EC2, EBS, S3, RDS, VPC, Lambda, ELBs, Cloud formation, IAM, CloudWatch, SQS, SNS,EFS, [AWS Organizations](https://console.aws.amazon.com/organizations/home?region=us-east-2), [IAM](https://console.aws.amazon.com/iam/home?region=us-east-2), AWS [Inspector](https://us-east-2.console.aws.amazon.com/inspector/home?region=us-east-2), [Security Hub](https://us-east-2.console.aws.amazon.com/securityhub/home?region=us-east-2), [CloudTrail](https://us-east-2.console.aws.amazon.com/cloudtrail/home?region=us-east-2), [Code Pipeline](https://us-east-2.console.aws.amazon.com/codesuite/codepipeline/home?region=us-east-2), [Code Deploy](https://us-east-2.console.aws.amazon.com/codesuite/codedeploy/home?region=us-east-2), AWS RedShift etc.
* **Cloud Migration Tools**- AWS SMS (Server migration service), Cloud Endure
* **Security**- AWS Inspector, Certificate Management on Java Applications, Guard Duty, AWS WAF, Firewall (Barracuda), VPN ( Site-to-Site and Client-to-Site)
* **Configuration Management –** Ansible, Chef
* **Containerization –** Docker, Docker-Compose, Kubernetes, Azure Kubernetes Service, AWS Elastic Kubernetes Service, AWS Container service.
* **CICD –** Jenkins, AWS Code pipeline, AWS Code build, AWS Code deploy (Pipeline, Blue/ Green deployment)
* **Infrastructure as a code –** Terraform and Cloud Formation
* **Development Tools –** Maven, Ant, GIT, Sonar-Qube, Nexus
* **Monitoring –** Application Manager, Data Dog
* **Languages –** Python, Shell, Groovy, YAML, bash (windows), PowerShell, Java Scripting, J2EE
* **Application Servers –** WebLogic, WebSphere, Tomcat, JBoss, Eclipse.
* **Messaging –** IBM MQ, Oracle OSB
* **Webservers –** IBM HTTP Server, Apache Web Server and Oracle HTTP Server
* **Additional -** JavaScript, JavaBeans, JSP, JSF, Servlets, JDBC, JNDI, HTML, Webservices (REST), XML, XSLT, and other XML-oriented tools.
* **BI Tools and Data Warehouse**: Oracle OBIEE 11g and 12c, AWS Redshift, AWS Data pipeline, AWS RDS Postgre SQL, EMR Cluster.
* **SCR -** Gitlab, GitHub
* **OS –** Linux (AIX, Red Hat, Ubuntu), Windows Server (2008, 2012 R2, 2012)
* **Domain –** Telecom, Banking, Finance and Food

**Cloud-**

Lift and Shift migration of Java applications to AWS. Knowledge of major cloud service providers, like AWS, Azure etc. Provided high level architecture on AWS (Cloud) and its implementation. Manage

complex infrastructure and multiple tasks on Amazon-AWS (Cloud).

**Infrastructure Automation-**

Creating Infrastructure on AWS and on-premises using terraform and Cloud formation. Using provisioners like file, local-exec, remote-exec to automate the complete task. Creation of AWS services using Cloud formation.

Done migration using Infrastructure as a code as one click solution. One click solution was infra provisioning on AWS, Software installations like Oracle WebLogic, Oracle Database, Oracle OBIEE, JDK 8. And all the integration of Oracle Middleware and Oracle database was done in single cloud formation template.

**Configuration Management-**

Creating Ansible playbooks to deliver complete Infrastructure on a single click. Working knowledge of automating configurations on Windows and Linux. Writing roles in ansible environment to make complex configurations easy and reusable. Creation of cookbooks using Chef to automate Linux workloads.

**CI/CD-**

Creation of pipeline scripts on Jenkins for automation of deployments. Developing scripts for build, deployment, maintenance and related tasks using Jenkins, Docker, Maven, Bash. Implemented CICD on AWS using Code Deploy, Code Pipeline etc.

**Scripting-**

Automation of AWS application server shut down at 9:00 PM daily and up at 09:00 AM using python scripts in WebLogic Server. To clear queues from backend using a shell script in IBM MQ environment using shell script. To create data source in WebLogic Server using Python. Daily Monitoring Scripts in Python for Applications deployed in WebLogic Server, and pick out data like -> heap size, thread info, server status, data base connection info etc. AWS Instance provisioning using python boto3.

**Cloud Support-**

Designing AWS Cloud Architecture. Creation of VM on AWS and Azure. Creation of VPC and VNet in AWS and Azure. Creating Public and Private Subnets. Creating Route tables according to requirement. Configuring NAT instance in front of private subnet. Configuring firewall/security group in AWS and Azure. Assigning Elastic IP in AWS. Managing EBS in AWS. Managing IAM users and groups. Configuring S3 in AWS. Configuring Elastic Load Balancer in AWS. Configuring Amazon Dynamo DB. Creating Amazon RDS service for Oracle DB. Configuring Auto Scaling in AWS. Total Cost Calculator in AWS etc.

Sopra Steria Work History

**FAO – From July, 2019 to October**

**Module Lead ( Cloud and DevOps Implementation Specialist)**

* Migrated the on-premises Oracle OBIEE/WebLogic Java Application to AWS.
* Design the AWS architecture as a solution.
* Strategize the Oracle upgrade from 11g to 12c using scripting to save time.
* The migration is one click solution using single cloud formation template.
* We have upgraded Oracle 11g to 12c using automation technique using bash scripting and script was passed in cloud formation template.
* Technologies used: Cloud Formation, AWS ELB, EC2, EBS, Oracle Tools, S3 etc.

**CCEW – From November, 2019 to Present**

**Module Lead ( Cloud and DevOps Implementation Specialist)**

* We migrated on-prem SQL Server and 400 ETL batch process to Microsoft Azure
* Batch process includes technology like bash, batch and PowerShell
* We have re-engineered the batch process to Azure functions and Azure Logic Apps using C-Sharp and PowerShell

Previous Work History

1. **Staunch Engineering in August , 2014 – October,2017**

* Worked on AWS to run an Insurance based client applications in which we need to take care of daily operations including maintenance, release management and monitoring.
* Shell script and Python are used for scripting.
* Strong use of Shell scripting languages including bash for Linux
* Worked on Jenkins in building pipelines for release management.
* Deployment of JAVA applications on WebSphere, WebLogic, Tomcat.
* Installation and administration of Middleware.

1. **Path Infotech October 2017- April 2019**

* configuration management using Ansible and Chef
* Creation of Pipeline scripts in Jenkins
* Implementing GIT environment for the developers
* Creating Infrastructure on AWS and on-premises using terraform and cloud formation.
* Done Lift and Shift migrations of multitier applications to AWS
* HA for multi cloud solution.
* Creation of pipeline scripts on Jenkins for automation of deployments.
* Lift and Shift migration of Java applications to AWS.
* AWS Data warehouse environment setup on AWS.
* Done 4 Lift and Shift migration of giant customers.
* Worked with major cloud service providers, like AWS, Azure etc.
* Provided high level architecture on AWS (Cloud) and its implementation.
* Manage infrastructure and multiple tasks on Amazon-AWS (Cloud).
* Developing scripts for build, deployment, maintenance and related tasks using Jenkins, Docker, Maven, Bash
* Implementing and developing solutions enabling Development and Operations teams to build, deploy, monitor and test applications and environments
* Setting up and introducing Continuous Deployment processes and advising on best practice
* Docker and Compose used for making the environments dockerize.
* Worked on Terraform and Ansible to provision to provision VM and Disk in Microsoft SCVMM
* Automated port migration from one windows server to another using Ansible Playbook.
* Installation of VNC server using Ansible while provisioning VM through terraform.
* Installation of multiple exe files using Ansible while provisioning VM through terraform.
* CI/CD implementation on Java application using: GitHub, maven, tomcat, sonar-qube etc.
* Provided high level architecture on AWS (Cloud) and its implementation.
* Manage infrastructure and multiple tasks on Amazon-AWS (Cloud).

Experience summary

* Software Engineer
* Middleware Consultant
* Senior Software Engineer
* Cloud and DevOps Solution Architect
* Module Lead

Education

**Professional Qualifications/ Certifications**

* B.tech (ECE) from Lovely Professional University, Jalandhar, Punjab, India

**Additional Training**

* AWS Migration Training
* AWS Security Training