Usha Nittala

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Core Competencies

- Moved apps from **on-premise to Public cloud like AWS** using various services in AWS like CFN, S3, ECS, Lambda, DynamoDB, EC2, kinesis and Route53.
- Developed end-to-end AWS Logging Solution to allow logs from Cloudwatch log groups to flow from AWS Kinesis to On-prem Splunk instances , created UrbanCode Deploy workflow for self-service of logging infra.
- Developed various **REST API services** for interacting with various tools like ServiceNow, Splunk , UrbanCode Deploy , Artifactory, Stash, Jira, Jenkins etc.
- Have a full **end-to-end understanding** of the application development to deployment with involvement of configuration management using UrbanCode Deploy and Jenkins

Certifications

- AWS Certified Solutions Architect - Associate (SAA-C01)
- AWS Certified Developer - Associate (DVA-C01)
- Splunk 6.4 administrator
- IBM advanced UrbanCode Deploy training
- Attended Internal training on Terraform
- Attended training on Azure Fundamentals

Summary

- A result-driven **IT professional with 13 years** of experience of working in the financial services industry and currently associated with Fidelity Investments as **Software Engineer Lead**.
- In-depth expertise in design , implementation , analysis, optimization and troubleshooting of **end-to-end solutions in Private Cloud and AWS**.
- Demonstrated experience in defining **new architectures** to **build scalable applications**, products and systems on AWS (using key AWS Services like EC2, ECS, S3, Cloudwatch, ELB, SQS, SNS, DynamoDB, lambda, ECS , Route53 etc.) with an ability to drive a project from **an architecture standpoint.**
- Deep Understanding of **Service Integration principles** and emerging computing trends.
- Managed responsibilities of being a delivery manager of in-house applications built on **Python** and Django, with product development experience from the stage of concept to full implementation.
- Extensive hands-on experience of **DevOps engineering** and project development in **Agile**.
- Excellent skills in applying CI/CD and Continuous Delivery processes & tools like Git, Ansible, Jenkins etc.
- Part of **AWS and Splunk COE** that provides leadership, best practices, research, support and training to different business units.
- An effective communicator with **strong analytical**, problem-solving & organizational capabilities.
- Created and successfully implemented a **Dashboard** that gives general information and different statistics required for **predictive analysis** related to potential issues for various application.

Skills

AWS Services: VPC, EKS, ECS, EC2, Lambda, APIGW, ALB, Route 53, Cloudfront, S3, DynamoDB, Cloudwatch, SQS, SNS, Kinesis, Elastic Search, IAM and Cloudformation

Container solution and orchestration: Docker, knowledge on kubernetes

CI/CD: Jenkins, IBM UrbanCode Deploy, Git, Ansible (Beginner)

Load Balancer: F5 Big-IP, AWS ELB and Nginx

O/S Administration: Linux

Programming Languages: Shell, Python, NodeJs

Project management S/W and Ticketing tools: JIRA, ServiceNow, HP Service Manager

Logging & Telemetry Tools: Datadog, Cloudwatch, Splunk and ELK

Database: PostgresSQL

Project management: Development and implementation of self-service planning and deployment tools. Development and implementation of rehydration tool.

Process Migration: Developed High Level Transition Plan, Knowledge Transfer Model and streamlined Splunk tool.

Education

Bachelor of Engineering in Information Technology   2003-2007

Sri Ramdeobaba Kamla Nehru Engineering College, Nagpur University

Grade/ Percentage : 71%

Work Experience

Fidelity Investments

April'11 to Jun'13 – Asst System Engineer
Jul'13 to Jun'15 – Software Engineer
Jul'15 to Jun'18 – Sr. Software Engineer
Jul'18 to Present – Lead- Software engineer

Cloud Solutions Lead   December 2016 – Present

- Provided cloud native solutions to various teams to Onboard applications into AWS. Streamlined , supported and documented the entire process.
- Managed performance, cost, scope, schedule and other key project management activities related to AWS on-bording of various projects.
- Design, build and maintain CI/CD pipeline for infrastructure setup and application deployment on AWS.
- Deployment of containerized applications in ECS using CLI/nested stacks/Cloud formation templates
- Design HA/DR and cloud governance strategies for applications on AWS.
- Worked on a project of moving various internal call centers running on a third party software on our infrastructure to public cloud. We deployed Amazon Connect , an integrated platform that provides contact center capabilities combining voice response, call routing and lex to create a custom agent interface using AWS services like ECS, Lambda, DynamoDB etc thereby reducing overall license and infrastructure maintenance cost
- Worked on moving personalization platform that provides contextual experiences to customers from IBM WebSphere MQ to AWS SQS.
- Created a streamlined training document for team members and provided extensive training on various AWS service offerings.

Web Enablement Engineer   April 2011 – December 2016

- Created automation scripts integrating with tools like HP Operations orchestrations using RestApi's to self-heal issues related to operations thereby improving efficiency.
- Created python scripts to route traffic during deployments to speed up the overall install process by 50%
- Worked on developing a self-service portal to allow users to create their change and release tickets with few clicks of the button.
- Worked as **UrbanCode Deploy** admin – setting up, managing configuration , user access and deployment scripts.
- **Splunk Administration**:
  - Configuration, administration and maintenance of Splunk infrastructure which processes about 5TB of data per day.
  - In depth knowledge of saved searches, reports, dashboards, alerts, applications and their corresponding configuration files.
  - Designed the architecture including analysis of hardware requirement, hardware procurement, Load balancing configuration, AD user authentication setup, installation/upgrade of Splunk version to the latest with clustering
- **Data Center Migration**:
  - Lead data center migration project which involved migration of 150 plus web applications on various infrastructure like physical servers, VMware virtual machines and virtual machines on internal cloud.
  - Worked with different QA, backend teams to validate the applications before golive.

TATA Consultancy Services

Programmer analyst   November 2007 – April 2011

- Analysis and support on installation and migration from WAS 4 to WAS 6 applications
- Installing and configuring Apache Tomcat Server, Sun Java/iPlanet web server on multiple-tier architecture on Solaris and Linux platform
- Have lead various critical migration Projects like WebSphere to Tomcat Migration, Unix (Solaris) to Linux Migration, Data Center Migrations etc.
- Involved in analysis and debugging of Application code migration issues and issues related to WAS on server.
- Manage ClearCase, BuildForge, Git and Jenkins tools for various business units.