**Vijaya Durga**

**Cloud / DevSecOps Engineer**

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**Professional Summary:**

* Over 10 years of Experience in **Information Technology** worked towards **implementing DevSecOps strategies** across various domains like **Retail, Financial and government projects** along with adopting to **cloud technologies Amazon Web Services and Azure.**
* Highly motivated and committed DevOps Engineer experienced in **Automating, Configuring and Deploying** infrastructure on cloud environments.
* Extensively worked on Cloud Technologies Amazon Web Services **(AWS) VPC, EC2**, **S3**, **IAM, RDS, Route 53, Cloud Watch, RDS, Amazon Systems Manager, AWS Backups, AWS MSK** and **other services** to design cost effective, fault tolerant and highly available systems.
* Experience on **Azure environment** with services like **compute, backup, Access Management, Update Management, App services, Security center.**
* Experience in providing **support to applications teams** in AWS and Azure cloud platforms on various services like compute, identity management, storage accounts and backups and in AWS on various services like access, EC2, IAM roles and policies, service accounts, SNS.
* Strong experience in **building CI/CD Pipelines using Jenkins**.
* Expertise in configuration and automation using leading tools in the industry such as **Ansible**, **Terraforms.**
* Extensively worked with **DOCKER** components like Docker Engine, Hub, creating images, Compose, Docker Registry and handling multiple images for micro service architecture deployments.
* HAnds on experience with setting up **Kafka clusters** in Amazon cloud and monitroing clusters health using **Grafana**.
* Good experience in using **Version Control Systems** GITHub.
* Experience in Monitoring tools like **Nagios, Splunk** and **Cloud Watch**.
* Experience in Security tools like **Nessus, Splunk, BigFix and CASB Netskope.**
* Have good experience using tracking/ticketing tools **JIRA, ServiceNow.**
* Experience in using **Nexus** and **Artifactory** Repository Managers for Maven builds.
* Experience in **STIGS and Vulnerability Management.**
* Coordinated and led **Patch Management.**
* Hands on experience in **Automate Patch Management on AWS and Azure cloud.**
* Worked for **L1 and L2 support activities** as a Linux administrator
* Worked in various methodologies **waterfall and Agile**.
* Excellent analytical, comprehension, communication, writing and interpersonal skills with **thrive for customer satisfaction.**
* Passionate in **learning newer technologies** and implementing them in different environments.
* Experience in **product documentation** for internal and external audience ‘s use and **Knowledge Transfer sessions** with new members on team.
* Certified **Cloud Associate AWS developer.**
* Received **certificate of appreciation 2021** as a **Founding Team Member** from Director, ECSO, VA.

**Skills Summary:**

|  |  |
| --- | --- |
| **Cloud Services** | AWS, Microsoft Azure - Gov and Public |
| **Operating Systems** | Linux, Red Hat, Centos, Windows, Amazon Linux |
| **CI/CD tools** | Jenkins |
| **Configuration Management** | Ansible, Terraform.  |
| **Languages/Scripts** | Java, Shell, PowerShell, bash |
| **Version Control Systems** | GIT, TFS |
| **Containerization tools** | Docker, AWS ECS. |
| **System Monitoring Tools** | Nagios, Splunk, Cloud Watch, Dynatrace, ELK,  |
| **Security Tools** | Nessus, BigFix, Netskope |
| **Repositories** | Nexus, Artifactory |
| **Ticketing Tools** | ServiceNow, JIRA.  |
| **Streaming Tools** | Apache Kafka, AWS MSK. |

**EDUCATION:**

**Master’s in computer science from Rivier University May 2017**

**Bachelor’s in information technology from JNTU May 2008**

**ACADAMIC ACHIEVEMENTS:**

Published a Paper: Along with Professor Douglas Selent, on “Applying and Exploring Bayesian Hypothesis Testing for Large Scale Experimentation In Online Tutoring Systems”. It was published in Proceedings of the Fourth (2017) ACM Conference on Learning@Scale. Most of the statistical work needed is implemented in java.

[http://dl.acm.org/author\_page.cfm?id=99659155839 HYPERLINK "http://dl.acm.org/author\_page.cfm?id=99659155839&CFID=942061097&CFTOKEN=26740995"& HYPERLINK "http://dl.acm.org/author\_page.cfm?id=99659155839&CFID=942061097&CFTOKEN=26740995"CFID=942061097 HYPERLINK "http://dl.acm.org/author\_page.cfm?id=99659155839&CFID=942061097&CFTOKEN=26740995"& HYPERLINK "http://dl.acm.org/author\_page.cfm?id=99659155839&CFID=942061097&CFTOKEN=26740995"CFTOKEN=26740995#](http://dl.acm.org/author_page.cfm?id=99659155839&CFID=942061097&CFTOKEN=26740995)

Presented a poster: During the event Learning@scale2017 seminar in the month of April 2017 in MIT.

**CERTIFICATIONS:**

Certified as AWS Developer Associate.

Preparing for AWS SysOps and Azure Administrator.

**PROFESSIONAL EXPERIENCE:**

**Veteran Affairs, Austin, TX 08/2018 - till date**

**Cloud systems engineer**

Client is moving all legacy applications to multiple clouds under VAEC project which is a multivendor platform to enable project teams to rapidly develop and deploy VA cloud applications.

**Responsibilities:**

* Design, develop, build and automate application programs to support cloud infrastructures on **Amazon Web**

**Services (AWS) and Azure.**

* Provide cloud support with provisioning, maintain and sustain of VA applications migrating to cloud.
* Provide development work for VAEC projects using various tools/software/technologies like **GitHub, Ansible**

**Tower, Jenkins, AWS, Azure, Linux, Shell scripting and PowerShell scripting.**

* Gather and analyze complex user requirements for different applications and translate them into workable

solutions by following the industrial federal standards.

* Experience in providing level 1 support to applications in Azure on various services like **compute,**

**identity management, storage accounts and backups** and in AWS on various services like access, **EC2, IAM**

**roles and policies, service accounts, SNS, CloudWatch, Systems Manager.**

* Experience working with **IAM** in order to create new roles and groups, add attached policies for access and control management in Azure.
* Setup and build AWS infrastructure using various resources EC2, S3, IAM, ALBs, DLMs, CloudWatch and

Systems Manager and automated the same using **Cloud Formation templates.**

* Experience working with **Systems Manager** services for automated patching various Linux and windows servers over AWS and lead monthly maintenance efforts for GSS servers under VAEC AWS environment.
* Worked as secondary support for Maintenance efforts on Azure using **Update Management**.
* Worked on auto backups using **AWS Backup services**, **DLM** for GSS servers under AWS cloud environment.
* Worked on setting up infrastrucuture for **Kafaka clusters** on AWS EC2s and configured as per requirements.
* Conducted POC on using **Amazon MSK** to bring in serversless streaming technology in place.
* Support onboarding of **CASB tool Netskope** for security of VAEC AWS and Azure infrastructure.
* Administrative jobs on CASB tool Netskope.
* Experience with monitoring tools like **ELK, Dynatrace, Science Logic** for monitoring cloud infrastructure.
* Experience in generating reports on **Nessus** for vulnerability reports on cloud infrastructure and using **BigFix web reports** for **compliance status and vulnerability management.**
* Worked on setting dashboards, configured queries on **Splunk** for log Analysis.
* Deployed **Remote Desktop Services** in Dev/Test environment using Azure resources. Having exposure to **Server Manager** to manage RDS.
* Experience working in creating computer objects, providing users with group membership access as per request and profile cleanup in **Active Directory**. Having exposure to **Group Policy Management**.
* Participate in pre-work and involve in maintenance efforts every month.
* Supporting **AMP** (Advanced Medical Platform) application team behalf of IO as part of VAEC operations team and worked on day-to-day activities in building and maintaining infrastructure over cloud platform.
* Configured monitoring services for AMPL docker based application using Dynatrace and configured alerts and notifications.
* Developed CloudWatch dashboards for AMPL application and set SNS notifications.
* Participate in weekly deployment of AMP applications which are docker based applications.
* Conduct POC for AMPL in using **AWS ECS and ECR Services**.
* Using **Ansible**, deployed Dynatrace and elastic search agents to AMPL servers.
* Coordinated with AMPL team and worked in ATO efforts by providing required information/documents.
* Worked on DART effort and contributed to develop **AWS Automation document** to run scripts across cross accounts.
* Developed **SOP documentations** and write ups on support ticket issues.
* Provide **Knowledge Transfer** to new members in the team and help them with the onboarding process.
* Prepare and maintain documentation, status updates in scrum meetings.

Environment: AWS, Azure, Active Directory, GitHub, Jenkins and Ansible, Ansible tower, ServiceNow, Server Manager, Jira, Splunk, Dynatrace, ELK, Nessus, BigFix, Netskope and ScienceLogic and Splunk

**Northwestern mutual, Franklin, WI 09/2017 - 08/2018**

**Specialized Technical Analyst**

Client is modernizing their enterprise automation deployment processes with tools like Jira, Git, Jenkins, Ansible, and Urban code. They are looking to help fast track the software and infrastructure deployment process by introducing modern automation.

**Responsibilities:**

* As part of the automation team, primary responsibilities include onboarding applications to the DevOps environment.
* Designed and implemented scalable, secure cloud architecture based on **Amazon Web Services**.
* Configured the **AWS EC2** and added **Elastic IP, Elastic Load Balancer** and **DNS.**
* Experience in Working with Various Storage Services in **AWS - EBS, S3 and Glaciers**.
* Experience in **configuring the cloud watch service** for monitoring various AWS services.
* Participate in design reviews and make necessary modifications to the existing programs.
* Build and automate application programs to support cloud infrastructures on Amazon Web Services (AWS).
* Setting up **Jenkins’s pipeline jobs to automate build to deploy processes** for various applications.
* Integrated **Maven and gradle with Jenkins** for the builds as the Continuous Integration process.
* Automated various infrastructure activities like **Continuous Deployment, Application Server setup,** Stack Monitoring using Ansible playbooks and has integrated Ansible with **Jenkins**.
* Architected and designed Rapid deployment method using **Ansible to auto deploy servers** as needed
* Deployed micro services, including provisioning AWS environments using **Ansible** Playbooks.
* Written various **Ansible Playbooks and modules** for implementing continuous delivery into production environment.
* Build and administrate **Continuous Delivery pipelines** using Git and Jenkins.
* Migrated applications from TFS to Github.
* Experience in writing scripts to **automate various functionalities** of different tools in our environment using shell and python.
* **Administering** various tools like **Jira, Jenkins and Github** for various applications,

**Environment**: AWS,Jenkins, Ansible tower,Udeploy, nexus Repository manager, Upguard, and GitHub

**Kbace Technologies, Hyderabad, India** **05/ 2014 – 12/2015**

**DevOps/Cloud Engineer**

**Responsibilities**:

* Setup and build **AWS infrastructure** using various resources VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in CloudFormation JSON templates.
* Worked on creating Multiple **AWS instances**, Creating Elastic Load Balancer and Auto scaling to design cost effective, fault tolerant and highly available systems.
* Experience working with **IAM** in order to **create new accounts, roles and groups**, add attached policies for access and control management.
* Evaluating performance of EC2 instances their CPU, Memory Usage, IOPS, and Network Usages and suggest appropriate instance type for the same.
* Working on AWS **Elastic load balancing** for deploying applications in high availability.
* Working on **Auto Scaling** for providing high availability of applications and EC2 instances based on the load of applications by using Cloud Watch in AWS.
* Creating S3 buckets and also managing policies for S3 buckets and Utilized S3 bucket and Glacier for storage and backup on AWS.
* **Creating Cloud watch alerts** for instances and using them in Auto scaling launch configurations.
* Designed **AWS Cloud Formation templates** to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
* Automating backups by shell for Linux to transfer data in **S3 bucket**.
* Worked on moving middleware applications - infrastructure (IAAS) automation on **AWS EC2**.
* Dynamically add and remove servers from **AWS** production environment.
* Deployed applications using **Docker containers** in the cloud with Paas.
* **Installed** **sonar on Jenkins’s server and configured** with the build process for the code analysis.
* Developed build and deployment scripts using **ANT and MAVEN** as build tools in **Jenkins for CI/CD** process.
* Maintain and track inventory using **Jenkins** and set alerts when the servers are full and need attention.
* Manage the **integration of new software projects** and products into the build environment.
* **Work with product development** to resolve build-related issues in projects.
* Experience in **System monitoring** with Nagios.
* Used tracking tool **JIRA for bug tracking**, issue tracking and product management functions.

**Environment:** AWS Cloud services (EC2, IAM, S3, RDS, VPC, Cloud Watch), Jenkins, Maven, Nagios, Sonar, Jira, Docker.

**Black Knight Financial Services, Hyderabad, India 01/ 2010 – 07/ 2013**

**AWS/DevOps Engineer**

**Responsibilities**:

* Designed and implemented scalable, secure cloud architecture based on **Amazon Web Services**.
* Created many **AWS instances** by writing **Cloud Formation scripts.**
* Experience in setting up the VPC for in the **AWS cloud** environment.
* Worked at optimizing volumes and **AWS EC2** instances and created multiple **VPC** instances.
* Design roles and groups for users and resources using AWS **Identity Access Management** (IAM).
* Experience in Working with Various Storage Services in **AWS - EBS, S3 and Glaciers**.
* Worked on Migration of on premise data to **AWS RDS - MS SQL server** and database.
* Experience in **configuring the cloud watch service** for monitoring various AWS services.
* Integrated **Maven with Jenkins** for the builds as the Continuous Integration process.
* Creating from scratch a new continuous integration stack based on **Docker** and **Jenkins**, allowing transition from dev stations to test servers easily and seamlessly.
* Worked on Continuous Integration workflow using **Docker** to build various containers for deploying the micro services architecture applications.
* Automated various infrastructure activities like Continuous Deployment, Application Server setup, Stack Monitoring using Ansible playbooks and has integrated Ansible with **Jenkins**.
* Deployed micro services, including provisioning AWS environments using **Ansible** Playbooks.
* Written various Ansible Playbooks for implementing continuous delivery into the production environment.
* Build and administrate **Continuous Delivery pipelines** using Git and Jenkins.
* Developed various scripts in **Shell and Python** for build and release.
* Performed all necessary day-to-day Subversion/**GIT** support for different projects and Responsible for design and maintenance of the Subversion/GIT Repositories, views, and the access control strategies.
* Used **SPLUNK** for operational intelligence, Field Extraction in configuration files
* Planned release schedules with agile methodology and coordinated releases with engineering and SQA for timely delivery.
* Involved in periodic archiving and storage of the source code for **disaster recovery**.
* Coordinate release activities with Project Management, QA, Release Management and Web Development teams to ensure a smooth and trouble-free roll out of releases.
* Deployed the Java applications into web application servers like **Web logic**.

**Environment:** AWS, Jenkins, Maven, GitHub, Ansible, Splunk, Cent OS, Docker and Cloud computing tools like EC2, ELB, VPC, S3, IAM**.**

**Mahindra Satyam, Hyderabad, India 01/2008 – 06/2009**

**Linux System Administrator**

**Responsibilities**:

* Part of a team of 10 members, providing 24/7 support to clients on Linux servers.
* Providing remote server administration and onsite support to the client.
* Installing, Building and Configuring **Red Hat Enterprise Linux** (RHEL6) using **Kick Start** Services.
* Installation of patches and packages using **RPM and YUM** in Redhat Linux.
* **User & Group Administration** of creating, modifying and deleting users and groups and providing the security on user accounts and group accounts.
* Monitoring System performance for optimizing CPU utilization.
* **Health checking and monitoring** the system logs.
* Troubleshooting Network, memory, CPU, swap and File system issues, TCP/IP, NFS, DNS and SMTP in Linux servers.
* Responsible for writing/modifying **scripts using sh and bash for day-to-day administration**.
* Backup and Restoration.
* Planning and configuring LVM and RAID implementation in Linux.
* Coordinating with 24 x 7 on-call support personnel in debugging.

**Environment:** Red Hat Linux (RHEL 4/5)