****SIVANANDA REDDY AYYALURI**

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**SUMMARY**

* DevOps Engineer with extensive work experience on SRE, Build & Release Management process, and AWS cloud computing that includes end-to-end code configuration, automation, and deployments of artifacts for the entire life cycle model in Enterprise Applications.
* Experience with administration, maintenance, and operations of different AWS Cloud resources and management services like Elastic Beanstalk, S3, RDS, Lambda, SQS, Cloud Front, SNS, Cloud Watch, and Cloud formation templates.
* Experience in creating AWS Cloud Formation templates (CFT) to create custom-sized VPC, subnets, EC2 instances, ELB, security groups. Worked on tagging standard for proper identification and ownership of EC2 instances and other AWS services like Cloud Front, Cloud Watch, RDS, S3, Route53, SNS, SQS, Cloud Trail.
* Developing Docker images to support development and testing teams and their pipeline and Environment provision solutions using Docker.
* Created Docker images for APIGEE Edge micro gateway for API Management in the microservices application.
* Used Kubernetes to manage containerized applications using its nodes, Config Maps, selector, Services, and deployed application containers as Pods, Executed Kubernetes locally with MiniKube, Created local clusters, and deployable application.
* Worked with Java application while migrating from On-prem to AWS cloud Environment, creating a build definition, Jenkins pipeline as a code, and deployed application using the CI/CD pipeline Experience with software build tools like Apache Maven, Apache Ant to write Pom.xml and Build.xml, respectively.
* Extensively worked on Jenkins for continuous integration and End-to-End automation for all build and deployments.
* Experience on automation tools like Ansible, where configured systems, deployed the software, and orchestrated tasks by writing Ansible Playbooks.
* An ability to think through all the possibilities Disaster Planning and Recovery execution Abilities.
* Expertise with supporting Linux systems and workloads in Azure or GCP public cloud.
* Expert in deploying the code onto web application servers like Web Sphere/Web Logic/JBOSS/ Apache Tomcat and experience in handling Release Management activities.
* Good technical capability and ability to research and solve complex issues independently.
* Extensive experience with DevOps essential tools such as Chef, Ansible, Jenkins, Docker, Kubernetes, CFT, Git, Bitbucket, Ant, and Maven.
* Management of all Open stack services on Docker and Kubernetes cluster using distributed microservices implemented using EKS deployed and managed Kubernetes cluster in AWS.
* Experience in developing and maintaining the CI/CD process for SaaS application by accessing tools like Maven, Jenkins, Docker.
* Knowledge of automated build and release using Azure DevOps service and Azure resources like Azure AD, Azure Network.
* Have extensive experience with the entire Software Development Life Cycle (SDLC) that included Requirement Elicitation, Gathering, Analysis, Design & Development, Test-Driven Development and change management.
* Extensive experience in LINUX/Unix System Administration, System Builds, Server Builds, Installations, Upgrades, Patches, Migration, Troubleshooting.
* Extensively worked on Jenkins for continuous integration and End-to-End automation for all build and deployments.
* Extensive knowledge of Scrum concepts like Scrum Team, Kanban, Product Backlog, Sprint Planning, User Stories, Daily Standup Meeting, Burn-Down Charts, Pair Programming, etc.

**TECHNICAL SKILLS**

Methodologies: Agile-Scrum, Waterfall-Scrum, Kanban

Project Management: Atlassian JIRA, MS Project, MS Share Point

Cloud Platform: Amazon Web Services (AWS), GCP, Azure

Testing Tools: SOAPUI, Rational Integration Tester, JMeter, SonarQube

Configuration Management: Chef, Ansible

Operating Systems: Windows, LINUX/UBUNTU, RHEL

CI Tools: Jenkins, Hudson, Bamboo, SonarQube, QMetry

Build Tools: Ant, Maven, MS Build

Version Control System: Bitbucket, GIT, GitLab

Containers: Docker, Rocket, Docker Swarm, Kubernetes, Amazon ECS, EKS, Istio

Monitoring Tool: Cloud watch, Splunk, Nagios, Icinga 2, ELK.

Network Protocols: TCP/IP, UDP, HTTP, FTP, DHCP, DNS

Database: SQL, NoSQL, Mango DB, Oracle

**EDUCATION**

**Master of Science in Computer Information Systems (3.89/4 CGPA)**

California University of Management and Science, Arlington, Virginia

**WORK EXPERIENCE**

**DevOps Engineer, Ashley Furniture, Chennai, India Oct 2019 – Present**

* Create and manage Azure resource using Terraform, the written custom module for our infrastructure.
* Worked on terraform with Iac for creating infrastructure in Azure
* Developing a terraform module for Pass application, writing terraforms files for application deployment.
* Worked on the terraform configuration file from version 0.11 to 0.12.
* Worked on Configuration, development, and deployment release procedure in middleware technologies like Java-based applications, Cloud Windows Azure, AWS Cloud environment.
* Experienced in setting up project baselines, branching strategies, merging, Delivery, Rebasing & executing Software Builds.
* I am involved in CI/CD pipeline and Automation process in Continues Integration Applications java, .net, on both Windows and Linux environments.
* I am developing the python scripts for deployment into different environment like lower and upper environments.
* Worked with Python API Development for SNMP device monitoring, python API add the new device added to the environment.
* Working AKS deployment, troubleshooting, and writing Helm charts for Kubernetes deployment.
* Identified Test Harnesses, which assisted QA effort in reducing the redundancy of Automation Scripts and made them more reusable.
* Creation of all the main components of the application in Azure PaaS using Logic App, Azure Function, Python Scripts and Azure Container Services (used Docker), Azure Storage, and Azure PostgreSQL service

**Environment:** Azure DevOps, Azure, Terraform 0.12,0.11, PowerShell scripting, Unix/Linux, Windows, Docker, Azure PowerShell, Azure Analytics, Azure Monitoring, Istio, Kubernetes, Azure Kubernetes Services (AKS), CI/CD pipeline, python, Java, .Net core application

**DevOps/SRE Engineer, Capital One, Seattle, WA May 2018 – Sept 2019**

* Worked on Chef extensively for the deployment of AWS EC2 instances, creating custom scripts and managing changes through chef-server on its clients and for migrating In-house systems to AWS.
* Experience writing Chef Cookbooks and Recipes to automate the deployment process and to integrating Chef Cookbooks into Jenkins jobs for a continuous delivery framework.
* Worked on multiple applications, written Chef Cookbooks, recipes, and customized facts for efficient management of the Chef clients.
* Involved in testing the cookbooks using Chef Kitchen, wrote test cases for testing several cookbooks in the environment using Chef Spec, In Spec.
* Worked closely with the development and operations organizations to implement the necessary tools and processes to support the automation of builds, deployments, testing, and infrastructure (Infrastructure as code) using Chef.
* Responsible for orchestrating CI/CD processes by responding to Git triggers, human input, and dependency chains and environment setup.
* Build and Release Engineer for multiple project teams that involved different development teams and multiple simultaneous software releases.
* We were involved in the developing/creating Docker Image for Windows/Nano IIS server and push those images to our internal Dockyard registry.
* Worked with Jenkins to Setup the corn jobs and SonarQube analysis, Fortify and set up the slave/Node architecture for distributed builds.
* Extensively worked on Jenkins by configuring slave nodes and different plug-ins to end automation of all build and deployments on the Linux / Windows environment.
* Experience in creating customized Docker images, task definitions for ­the Amazon ECS cluster.
* Worked with Red Hat OpenShift Container Platform for Docker and Kubernetes, Used Kubernetes to manage containerized applications using its nodes, ConfigMaps, selector, Services and deployed application containers as Pods.
* Developed Python boto3 script to get the resource information from the AWS Cloud Environment.
* We documented the process involved for build, deployment, and troubleshooting on Confluence.

**Environment:** AWS, Cloud Watch, Web Services, Cloud Formation, Java, Docker, Amazon ECS, Dockers warm, Kubernetes, Splunk, Jira, Git, GitHub, JFrog Artifactory, Jenkins, Groovy, ANT/MAVEN, Chef, Confluence, HPSM, ServiceNow, PagerDuty, Unix/Linux, Python, Shell scripting, RubyDSL, Windows 2008,2012 R2.

**DevOps Engineer, Florida Power & Light Co (FPL), Juno Beach, Florida Jan 2018- April 2018**

* Designed, developed, and maintained the CI/CD process for the APIGEE platform.
* Experience in creating automated CI build and deployment infrastructure and processes for multiple projects using Jenkins.
* Developed build and deployment for Java applications, wrote the scripts using ANT and MAVEN as build tools in Jenkins.
* Branching, Tagging, Release Activities on Version Control Tool like Bitbucket.
* Experience in resolving issues of merge conflicts and develop Custom Scripts to monitor repositories and Server storage.
* I worked on setting up Jenkins for the enterprise. Also, I worked on creating a pipeline job for different projects.
* I succeeded in integrating Bitbucket, SonarQube, Junit, JMeter, QMetry, and various tools with Jenkins.
* Automate deployment of IIS web application modules, bindings and configuration settings using a combination of PowerShell scripts and Ansible.
* We deployed all the microservices to pull images from the private Docker registry and deploy it to the Docker swarm cluster using Ansible.
* Installing, configuring, and maintaining Continuous Integration, Automation and Configuration Management tools
* Experience with container-based deployments using Docker, working with Docker files, Docker images, Docker Hub, Docker Compose and Docker registries, and Kubernetes.
* Worked on fully automated CI build and deployment infrastructure and processes for multiple projects using Docker, Jenkins (Cloud bees), SonarQube, VMWare, RHEL, Kubernetes, Artifactory, Ansible & Bitbucket.
* Assisted Testing teams to build test plans and involved in unit testing and load testing. Approved test cases for requirement verification and to check the functionality of the application.
* Collaborated with the QA team to create and instrument test plan and test cases for User Acceptance Testing and worked with the team on resolving product and document issues.
* Create the automated build and deployment process for application, re-engineering setup for better user experience, and leading up to building a continuous integration system.
* Utilize previously acquired technical experience to become actively involved in the day-to-day technology team to meet schedules and resolve problems.
* I have worked on Maximo (Asset Management Tool), Power Billing, and Customer Care.
* Helped the Product Owner prioritize the Product Backlog items for developing Sprint tasks by taking suggestions from the cross-functional development team.
* We are developing Docker images to support development teams and their pipelines and Environment provisioning using Docker.
* Created Docker images for Apigee Edge micro gateway for API Management in microservice application
* Pivotal project on Kubernetes cluster Management for logging service Internal application running on-PremCloud

**Environment:** Jenkins, Docker, Docker Swarm, Kubernetes, APIGEE Edge, Java, .NET Environment, Visual Studio 2017, GIT, Bitbucket, Apache ANT, Maven, Artifactory, Ansible, ELK, JIRA, Confluence, Sonar, Batch, Shell, Groovy, Python.

**DevOps Engineer, Capita One, Seattle, WA May 2017 - Dec 2018**

* Developed build and Deployment Scripts using ANT and MAVEN as build tools in Jenkins to move from one environment to other environments.
* Installing, setting up & Troubleshooting Jenkins Master, agents, created, and automated platform environment setup.
* Assisted in presenting reports and analysis to help guide the management.
* Experience working with high availability, high performance, multi-data center systems, and hybrid cloud environments.
* Worked with Java, .Net application while migrating from On-prem to cloud environment and creating a build definition, Jenkins pipeline as code, and deployed application using the CI/CD pipeline.
* Extensive knowledge of Linux/Windows-based systems, including hardware, software, and applications.
* Project Management for various UNIX/Linux/Windows system integration projects
* Gathered and documented customer requirements, detailed functional design specifications, and system documentation
* Created Docker images for java-based applications to set up, build, and deploy on Containers (POC).
* Knowledge of Hockey App Service the mobile app collects crash reports in Android, iOS app deployment.
* I have worked with various scripting languages like Bash, Perl, Shell, and Python.
* Was involved in designing test plans, test scenarios, and test cases for integration, regression, and user acceptance testing.

**System Engineer/DevOps, Sann IT Solutions Inc., Herndon, VA Aug 2016 - April 2017**

**System Engineer (Intern), Calums University, Arlington, VA May 2015 - July 2016**

**Certifications**

* **AWS Certified Solutions Architect – Associate**
* **HashiCorp Certified: Terraform Associate**

**Volunteer Experience**

* Organized multiple International Student Association’s events on campus Native.
* Tech Tutor King County Library System
* Volunteer for Bloodwork
* Volunteer for open source Upskilling group Cloud&DevOps Babies