Sivanand Chikkala

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**PROFILE SUMMARY**

* Hands-on knowledge in Linux Operating Systems (Ubuntu/CentOS) and Windows Server-based Operating Systems.
* Hands-on knowledge of Source Code Management (Version Control System) tools like GIT using GitHub.
* Hands-on knowledge in Docker Containerization, Installation of Docker, Creation of Docker Containers and Images, connecting to Docker containers, Running Docker processes, and working on Docker files
* Proficient in developing Continuous Integration/Delivery pipelines and Executed a Continuous Delivery pipeline with Jenkins, GitHub and AWS AMIs, resulting in generating of Docker container whenever a new GitHub branch gets started.
* Hands-on knowledge of Kubernetes open-source container orchestration tool.
* Hands-on knowledge of Infrastructure as Code (Programmable Infrastructure) and how you can achieve that by using tools like Ansible.
* Hands-on knowledge with Infrastructure & Configuration management via Terraform.
* Hands-on knowledge with automation/integration tools like Jenkins.
* Complete understanding of AWS, Hands-on knowledge AWS EC2 instances and working with S3, EBS storage, IAM, VPC, Route53, Cloud Watch, Cloud Formation, SQS and SNS.

**TECHNICAL SKILLS**

* **DevOps Tools**: Git, Jenkins, Ansible, Docker, Kubernetes, Terraform, SonarQube.
* **Cloud Technologies:** AWS, Azure
* **AWS**: AWS core services like EC2, IAM, S3, ELB, EBS, VPC, Route53, RDS, SQS, SNS,

Code: Commit, Code-pipeline, Code-Build etc.

* **OS**: Linux, Windows.
* **Web Server**: Apache2, Nginx.
* **Programming Language**: shell scripting

**PROJECT**

## **Internship with Intellipaat Sep 2022 – Present**

## **DevOps Projects**

## 1.Deploying a Containerized Web Application using (CI/CD) Jenkins:

Using GitHub Created a CI/CD pipeline and deployed an apache2 web server and run HTML page on an AWS EC2 instance using Docker and Jenkins

* Git Workflow has to be implemented
* Code Build should automatically be triggered once commit is made to master branch, test and push to prod.
* The Code should be containerized with the help of a Docker file. The Docker file should be built every time there is a push to Git-Hub.
* Using the Jenkins created CI/CD pipeline

## 2.Managing and Deployment Of a k8s Cluster with Auto Scaling and Auto Healing for a Apache2 Web App:

* Built Kubernetes cluster on AWS from scratch with minikube
* Setup and managed Docker containers for Django and React applications into Kubernetes pods
* Managed deployment, replication, auto healing, auto scaling for Kubernetes cluster.
* Managed network and services with host IP allocation through proxy on AWS EC2

## **AWS Projects**

1.Deploying a Multi-Tier Website Using AWS EC2:

Amazon Elastic Compute Cloud (Amazon EC2) provides scalable computing capacity in the Amazon Web Services (AWS) cloud. Using Amazon EC2 eliminates your need to invest in hardware up front, so you can develop and deploy applications faster. You can use Amazon EC2 to launch as many or as few virtual servers as you need, configure security and networking, and manage storage. Amazon EC2 enables you to scale up or down to handle changes in requirements or spikes in popularity, reducing your need to forecast traffic.

**EDUCATION**

* Lovely professional university, Punjab— M.Sc. May 2018 - May 2020
* Lovely professional university, Punjab— B.Sc. (Hons). May 2014 - May 2018
* Sri Chaitanya Junior College, Vijayawada— Intermediate MAY 2011 - April 2013
* Sri Venkata Naga Public School, Jaggampeta — SSC April 2010 - MAR 2011
* English

**LANGUAGES**

* Telugu
* Hindi

**CERTIFICATIONS**

* **Intellipaat Certified:** DevOps Training Issue Date: February 1, 2023.

Certificate ID 31679-58630-177978

* **Intellipaat Certified:** AWS Solutions Architect Associate Issue Date: February 1, 2023.

Certificate ID 31679-470667-177978