

SIVANAND CHIKKALA

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Experience

Cloud Computing & DevOps Intern

Oct 2022 to Present

Intellipaat Software Solutions Pvt. Ltd

- Proficient in implementing CI/CD pipelines using Jenkins. Acquired knowledge & experience in cloud technologies - AWS & Azure
- Trained with demonstrated experience in using advanced 5+ DevOps tools & technologies, including Git, Docker, Jenkins, Kubernetes, Terraform, Ansible & Linux Shell scripting

Projects

Containerized Web-based Application using (Continuous Integration /Continuous Deployment) pipelines using Jenkins

- Proposed & engineered a CI/CD pipeline utilizing GitHub to deploy an apache2 web server, & execute an HTML page on an AWS EC2 instance
- Developed a Git Workflow, automatically triggering Code Build upon each commit made to the master branch, conducting tests & pushing into production
- Pioneered containerization of the code through the use of a Dockerfile, building source code, each time there was a push made to GitHub
- Incorporated GitHub, Docker, EC2, & Jenkins to build & automate the deployment, achieving version control, containerization, scalability, & automation

k8s Cluster with Auto Scaling & Auto Healing for a Apache2 Web App

- Analyzed project needs and constructed a Kubernetes cluster from the ground up using minikube on AWS
- Led the ideation, configured & administered 2 Docker containers for apache2 & nginx applications, incorporating into Kubernetes pods
- Completed orchestration, deployment, replication, auto-healing, & auto-scaling of the 3 Kubernetes cluster
- Administered network, proposed & developed services using host IP allocation through the proxy on AWS EC2
- Planned & harnessed Kubernetes to facilitate container orchestration, Docker, & EC2 to provide a scalable & reliable infrastructure

Multi-Tier Website Using AWS EC2

- Employed Amazon EC2 to effortlessly launch & configure virtual servers, expertly handling security, networking & storage management aspects
- Implemented an intelligent system to easily adapt to changes in requirements or sudden surges in popularity
- Leveraged the scalable features of Amazon EC2, Autoscaling, RDS, MySQL, & PHP to deliver a truly optimized experience

Amazon Web Services (EC2, ELB, VPC, S3, RDS, Route 53, Cloud Watch, SNS)

- Established & expertly managed Linux servers on Amazon, including EC2, EBS, ELB, Security Groups, RDS, & IAM
- Created, & upgraded AMI/Snapshots/Volumes, & set up, and managed 4-5 VPC subnets, facilitated the creation of seamless connections between distinct zones
- Leveraged a wide range of cutting-edge technologies, such as EC2, ELB, VPC, S3, RDS, Route 53, Cloud Watch, SNS & enabled the achievement of the desired outcome

Skills

DevOps Tools: Git, Jenkins, Ansible, Docker, Kubernetes, Terraform, SonarQube

AWS: AWS core services like EC2, IAM, S3, ELB, EBS, VPC, Route53, RDS, SQS, SNS

Azure: Azure Storage, Virtual Machines, Networking, Azure Monitoring, RBAC

OS: Linux, Windows

Web Server: Apache2, Nginx

Programming Language: Shell Scripting

Education

Master of Science- M.Sc.

Lovely Professional University, Punjab

Aug 2018 to Aug 2020

CGPA: 7.31

Bachelor of Science- B.Sc. (Hons.)

Lovely Professional University, Punjab

Aug 2014 to Jun 2018

CGPA: 7.45

Certifications

DevOps Training- Intellipaat Certified

AWS Solutions Architect Associate- Intellipaat Certified

Azure Administrator- Intellipaat Certified

Languages

English, Telegu, Hindi