Vashanth S *DevOps Engineer*

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Profile

Always excited to deep dive in to technologies. Like to explain things I learnt through blogs and projects. Believe more in practicality than theory. My interest to design and develop appliactions is what keeping me on the move.

Professional Experience

System Engineer 09/2021 – present | Bangalore, India
CGI IT AND BUSINESS CONSULTING

- Used automation technologies to collaborate with groups to construct, install and maintain AWS infrastructure. This involved the use of equipment consisting of Jenkins and GitLab to create CI/CD pipelines that could automate the system of building, trying out, and deploying code to AWS.
- Managed Kubernetes cluster (EKS) for utility hosting ensuring scalability and robustness. This concerned putting in and managing a Kubernetes cluster on AWS, that is a container orchestration platform that can be used to deploy and control packages at scale.
- Maintained docker bins and pics to make sure consistent performance throughout environments. This worried coping with the Docker pix that were used to install programs to the Kubernetes cluster, making sure that they have been up-to-date and steady across all environments.
- Used terraform to automate procedures, reduce human exertions and enhance product stability. This worried the use of Terraform, an infrastructure as code tool, to automate the deployment and control of AWS assets.
- Monitored and optimized AWS infrastructure for overall performance, availability and cost effectiveness. This worried using gear together with CloudWatch and AWS Cost Explorer to reveal the performance, availability, and price of AWS assets.

SOFTWARE ENGINEER 01/2020 – 07/2020 | Dindigul, India
TMI

- They assisted in migrating on-premises systems to AWS, increasing scalability and flexibility.
- I helped set up and configure AWS Aurora databases for high availability and data integrity.
- Contributed to the development of Python and shell scripts for system automation and maintenance.
- Worked with senior engineers to troubleshoot and resolve resource issues, improving system performance

Education

MBA Finance And Marketing 2021 – present | Bengaluru
JAIN UNIVERSITY
CGPA: 8.5%

Bachelor in Mechanical Engineering 2017 – 2021 | Dindigul
SSM Institute of Engineering and Technology
CGPA : 7.4%

Skills

System Administration and Monitoring:
Windows/Linux Admin, System Monitoring, Nagios

Cloud Platforms and Services:
AWS, Google Cloud Platform

Security and Compliance:
Cloud Security, SRE, TLS, Compliance

Programming and Development:
Python, JavaScript, TypeScript, .NET Core

Infrastructure and Automation:
DevOps, Terraform, Docker, Kubernetes (EKS), Jenkins, CD Pipelines, Ansible, Mavens, Puppet, Chef.

Projects

CLOUD NATIVE MONITORIONG APP
Devops Project
- The Python program uses the psutil library to store system resource data, such as CPU usage, memory usage, and disk usage. The data is then displayed on the grid.
- The Dockerfile specifies the Python image to be used as the base image of the application, as well as the dependent installation. The Docker image is then created and pushed into the ECR repository.
- The EKS cluster is created using the AWS CLI. The node group is created using the eksctl tool. The deployment and service is done using the kubectl command line tool.
- The kubectl command line tool is used to manage deployment and service. This includes functionality such as obtaining deployment status, obtaining logs for pods, and port forwarding to publish jobs.

DevOps Project using Git, Jenkins, Maven, Ansible, Docker & Kubernetes.
CI/CD Project
- The Jenkins server acts as a tool, for integration (CI) streamlining the automated process of building, testing and deploying software applications.
- During the CI job Maven is utilized to compile the code and conduct unit tests. Following this the resulting artifacts are deployed onto a Tomcat server.
- On the hand in the CD job Docker is employed to create a container image of the application which is then deployed onto a Kubernetes cluster.
- To automate Docker hosts and Kubernetes clusters management Ansible proves to be a configuration management tool. Moreover AWS EKS serves as a managed service specifically designed for Kubernetes deployments, on AWS that simplifies cluster deployment and management processes.

OS Patch Automation on AWS EC2 instances
Cloud Computing Project
- AWS was used to develop and implement an efficient EC2 patch automation solution. This includes designing, developing, and testing solutions for EC2 instances.
- Establish a continuous integration and deployment pipeline for seamless development. This required a CI/CD pipeline to coordinate the process of building, testing, and implementing new code.
- I collaborated closely with interdisciplinary teams. This involves working with teams from different areas of the organization such as development, operations and security to ensure the solution meets the needs of all stakeholders
- Desired confidence. This includes developing and implementing solutions that minimize the risk of downtime or other problems.