Dipjoy Debnath

Certified DevOps Engineer

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About Me

- I am a certified DevOps engineer with over 2.8 years of hands-on experience in cloud infrastructure, automation, and CI/CD pipelines. I have successfully implemented and maintained scalable, highly available applications, utilizing tools like AWS, Terraform, Ansible, and Docker. My expertise lies in automating workflows, ensuring system reliability, and delivering efficient, high-performance solutions. I am passionate about fostering collaboration between development and operations teams to drive continuous improvement. .

Experience

WIPRO **April 2022 – Present**

Project Engineer *Bengaluru, Karnataka*

- Managed Both Linux-based and Windows servers with automated scripts and improved uptime by **15**%, ensuring reliable and secure infrastructure management for various client environments. .
- Automated **90**% of configuration management tasks using Ansible, significantly reducing manual intervention and deployment times across environments. Used Terraform to provision AWS infrastructure, reducing setup time for new environments by **40**%
- Deployed and managed Kubernetes clusters in production, scaling applications by **30**% to handle increased traffic while maintaining zero downtime during updates.
- Leveraged AWS services like EC2, RDS, and S3 to deploy scalable cloud solutions, reducing infrastructure costs by **25**% through efficient resource management and automation. .
- Configured and optimized NGINX servers, improving application load times by **20**% and reducing server response times across multiple client projects. .

Projects

EBS Volume Reduction | *Terraform, Shell Scripting, AWS Cloud Console* **Dec 2023**

- Successfully reduced the EBS volume across **150+ Linux servers**, optimizing storage usage by over **45,000 GB**..
- Implemented a strategic approach that led to a monthly cost reduction of approximately **$5,000**. By analyzing usage patterns and optimizing **EBS** volumes, I contributed to the organization's financial efficiency, translating to an annual savings of around **$60,000**.
- Developed and executed a **shell script** to automate the process of identifying and resizing EBS volumes. This automation not only minimized human error but also accelerated the task completion time, reducing the typical manual processing time by **over 70%**.
- Utilized **Terraform** for Infrastructure as Code (IaC) deployment, ensuring that all changes were version-controlled and replicable. This practice improved the deployment speed by **50%**, allowing for quicker rollbacks and updates as necessary. .

Ansible App Deploy | *Ansible Tower, Kubernetes, Shell Scripting* **Feb 2024**

- Developed a comprehensive Ansible playbook to automate the deployment of the new version of the application. This reduced the deployment time by 30%, ensuring faster delivery of updates and minimizing downtime.
- Designed and implemented a reusable template in Ansible Tower, allowing for the easy deployment of application versions across multiple environments. This template has been utilized for over **15** deployments, streamlining the deployment process and reducing manual intervention by approximately **40%**.
- Leveraged shell scripting within the **Ansible** playbook to automate configuration tasks, resulting in a **50%** decrease in the time spent on manual configuration management.
- Utilized **Kubernetes** pods and deployment structures to manage application configurations efficiently. By implementing these practices, the project achieved a scalability improvement of **20%**, allowing the application to handle up to **500** concurrent users without performance degradation.

Volume Conversion Automation | *Python, AWS EBS, AWS Lambda, AWS CloudWatch, AWS SNS* **July 2024**

- Developed a serverless AWS Lambda function using Python to automate the conversion of GP2 EBS volumes to GP3 volumes in the AWS environment.
- The Lambda function identified newly created GP2 EBS volumes, ensuring that **100% of new volumes** were processed without manual intervention.
- Integrated the Lambda function with AWS CloudWatch Events, which triggered the function in response to **over 1,000 volume creation events** monthly, enhancing operational efficiency and reducing response time to **milliseconds**. .

Technical Skills

Languages: JavaScript, SQL, HTML/CSS, Python
Developer Tools: VS Code, MobaXterm, Amazon Cloud Platform, SQL Server, Eclipse
Technologies/Frameworks: Linux, Shell Scripting, Git, Ansible, Docker, Terraform, Kubernetes, Jenkins, AWS CloudFormation, EBS, AWS Lambda, S3, API Gateway, VPC, NGINX

Education

National Institute Of Technology, Agartala **Aug. 2018 – May 2022**
Bachelor of Technology in Civil Engineering *Agartala, Tripura*