



MADHURA C

Cloud Engineer | CKA | CKAD | AWS CSAA | Devops

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SUMMARY

Passionate DevOps engineer with experience in designing and building containerized applications for driving business solutions. Strong Knowledge in AWS, docker, Kubernetes, IaC, CI/CD and Python. Experience in provisioning virtual infrastructure in cloud environment which has helped developers in deploying applications. Advanced knowledge in setting up CI/CD pipelines, integrating security scans, troubleshooting, monitoring and automation.

EDUCATION

- CUNY, New York, USA (2016-2018) - M. E Electrical Engineering GPA-3.8
- SNTD University, India (2010-2014) - Bachelor of Engineering-Electrical GPA 3.5

SOFTWARE SKILLS

Programming	Python, Bash
SCM/CI	Git, GitHub, CircleCI, Jenkins, Gitlab
AWS	VPC, EC2, IAM, Security Groups, Elastic Load Balancer, RDS, CloudFormation, CloudFront, Lambda, DyanmoDB, Auto Scaling, ECS, EKS, Cloud watch, CloudMap, Route53
Containerization	Docker, Kubernetes, EKS, ECS
IaC	Terraform, CloudFormation, Helm
Operating Systems	Red Hat Linux 7, Windows servers, Unix, Centos
Databases	Postgres, MySQL, MariaDB
Security Scans	Acunetix, Checkmarx, Fortify, Blackduck, Qualys, Cisco AMP, Twistlock, Sonarqube

EXPERIENCE

Senior Cloud Engineer: Cognizant Technology Solutions, WA (Jan 2019 to Present)

- Improved developer productivity by 25% and reduced costs by 15% by building a deploy platform to help developers build scalable, high-performance cloud platforms with high productivity.
- Optimized existing systems to reduce response times by 20% and increase efficiency by 30%.
- Reduced deployment time by 50% by creating CircleCI pipeline and deployment scripts that build images of successful builds and push them to Artifactory. Helm charts then update the release and perform a rolling update.
- Designed and implemented a monitoring system using Prometheus, Grafana, and ELK stack, CloudWatch providing real-time visibility into the system and improving response time for critical issues.
- Created Kubernetes objects for EKS cluster deployments, including Ingress, Network policy, Deployment, Service, HPA, Service accounts, Roles, Role bindings, Secrets, ConfigMap, Namespaces, Cluster Autoscaler, and Volumes.



- Deployed containerized applications using Docker onto an Amazon EKS-managed Kubernetes cluster. Configured Kubernetes infrastructure and used Terraform templates to launch a cluster of worker nodes on Amazon EC2 instances.
- Wrote shell scripts for automated backups and scheduled Cron Jobs using ssh and bash. Managed user accounts and groups for corporate Linux users and supported corporate Linux Development servers.
- Upgraded Kubernetes cluster to the latest version, including control plane components and self-managed worker node groups.
- Added SAST and DAST scans to the build and deployment pipeline to remediate critical and high vulnerabilities at an early stage.
- Deployed twistlock defenders (Prisma cloud Compute) to clusters for real time monitoring of applications and scanning container images.

Technology Support Intern, RF CUNY, New York

(Jun 2018 to Jan 2019)

- Created, tested and deployed an End to End CI/CD pipeline for various applications using Jenkins.
- Integrated Jenkins with various DevOps tools such as GIT, Maven, Junit, and Nexus and developed Jenkins jobs to automatically manage, test and deploy code and applications.
- Managed and automated patching of EC2 instances using AWS Systems Manager Patch Manager, to ensure that instances are up-to-date with the latest patches and updates.
- Worked closely with development teams to implement containerization using Docker and Kubernetes, to enable portability and scalability of applications.

Software Engineer (Devops): HSBC Technology, India

(Jul 2014 to May 2016)

- Designed and implemented a CI/CD pipeline for deploying microservices on AWS cloud infrastructure using Jenkins, Git, and Bitbucket.
- Managed and deployed applications using Docker containers and Kubernetes clusters, with a focus on optimizing performance and scalability.
- Implemented infrastructure as code using Ansible and Puppet and integrated it with the CI/CD pipeline for automated deployments.
- Monitored application health and performance using Nagios and ELK stack and performed troubleshooting and root cause analysis of issues.
- Collaborated with developers, QA teams, and other stakeholders to ensure efficient delivery of software releases.
- Implemented security measures and compliance policies to ensure data protection and regulatory compliance.
- Created maintenance windows and added instances to auto patch using AWS Systems manager.
- Provided technical guidance and mentorship to junior team members.