

# Devops Engineer

**Giri Orsu**

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## CAREER OBJECTIVE:

- To be a part of global organization which excels in providing technical growth, where my technical and adaptability skills can be proved in the interest of the organization, also for self-growth.
- Willing to work as a team, to lead not to dominate, to enhance my personality as an individual & as a professional.

## PROFESSIONAL BACKGROUND-

- Senior Devops Engineer with 4+ years of experience and currently working as Kubernetes Engineer in cloud studio having work experience on Kubernetes , Docker , AWS Iaas, AWS Devops, ,EKS, Cloud migration and Devops with Build and Release Engineer.

## TECHNICAL SKILLS:

- Knowledge of AWS pricing model, Deployment of AWS services like EC2, S3, RDS, VPC, S3, Glacier, VPC, Elastic IP and load balancing
- Experience in CI/CD pipeline creation using tools Bit Bucket, Jenkins, Ansible ,Jfrog, XLR & AWS EKS, etc.,
- Supported on Project Charters and test results, POC documents
- Knowledge writing the EKS k8's files and ansible playbooks for operations
- AWS Devops and AWS Kubernetes Services
- Experience on AWS resources.
- Shell scripting, Different OS platforms (Linux, Windows)

## PROFESSIONAL EXPERIENCE:

**Company: Wipro Limited.**

- Duration: Aug 2019 to till date.
- Designation: Senior Devops Engineer

### Project 1:

<b>Project Name</b>	: Roads and Maritime Services (Australia)
<b>Technologies</b>	: DevOps tools, EKS, AWS
<b>Environment</b>	: Windows, Linux,

### **Roles and responsibilities:**

- Hands-on experience on setting up Kubernetes cluster using kubeadm and using individual components, pod creation, deployments, replicaset, daemonsets, services creation for communication between different apps, rolling updates and upgrades, persistent volume & persistent volume claims creation.
- Hands-on on creating the statefulsets for critical applications.
- Experience on creating the Kubernetes cluster and worker nodes using terraform.
- Worked on integrating the Kubernetes cluster with Hashicorp Vault for automating secrets management using Flask based webapp & TLS certificates management for different applications using service-account based authentication.
- Worked on integrating the Kubernetes cluster with cert-manager for TLS certificate management and protecting the Ingress resources Creating templates, projects & inventories in Ansible tower
- Hands-on on creating Python based custom Kubernetes operator to automatically create the Vault roles and SA based authentication whenever a new namespace and SA is detected.
- Created multiple Validation and mutating webhooks configuration for customizing the provisioning of services, Pods etc.
- Worked on creating the Ansible playbooks for automating the service account, kube-config file for a user, namespace, resource quota and RBAC policies creation.
- Hands-on on doing the cluster upgrade and update, deploying the monitoring solutions
- Hands-on experience on Docker such as Docker compose installation, image pull and push, image building using Dockerfiles, secrets creation and usage, container, network & compose file creation for local development & testing and for building the microservices apps.
- Knowledge and hands-on experience on version control system (Git) such as creating branches, merging, resolving merge conflict, rebasing, stashing etc.
- Automation of application deployment on AKS using Helm and AWS Devops
- CI/CD for containers using AWS Devops
- Work experience on tools Jenkins, Git, Bit Bucket, Sourcetree, Jira, Maven, Jfrog
- Configuration management using Ansible
- Experience with Kubernetes cluster operations, architecture, deployments and monitoring performance in Kubernetes clusters
- Experience setting up Kubernetes on premise
- Implemented and demonstrated POC on performance optimisation of Kubernetes and managed Kubernetes services using Turbonomics

### **Company: Wipro Limited**

- Duration: Sep 2017 to May 2019.
- Designation: Devops Engineer

### **Project 2:**

<b>Project Name</b>	: Onslet GIO services
<b>Technologies</b>	: Cloud technologies (AWS)
<b>Environment</b>	: AWS (windows, Linux)
<b>Duration</b>	: Sep 2017 to May 2019
<b>Team size</b>	7

### **Roles and responsibilities:**

- Estimating AWS usage costs and identifying operational cost control mechanisms.
- Selecting the appropriate AWS service based on compute, data, or security requirements.
- Host/migrate customer infrastructure into AWS VPC with control over virtual network environment, including selection of own IP address ranges, creation of subnets, and configuration of route tables and network gateways in a 3tier architecture.
- Build and connected Two networks using Peering connection
- Creating Ec2 instance with requested flavor of operating system and maintain snapshot of it.
- Creating the security groups according to the Public, private networks using specified protocols.
- Configured load balancer for auto scaling to distribute the network traffic and to maintain the application highly available.
- Configuration of SNS, services for auto email alerts for users.
- Created Cloud trails and cloud watch to view events and alarms in our AWS account and stored the events in S3 buckets for the future purpose.
- AWS Storage management (S3, Glacier, and EBS).
- Creating and managed custom Centos and Linux based AMIs.
- Monitor MySQL Database Backup on AWS cloud S3.
- Setup/Managing Databases on amazon RDS.
- Performing patching activities(Linux)
- Migration from on premise to AWS
- Managed Disks and File system using LVM on Linux.
- Managing the swap space and increasing the swap size.
- Monitoring and Maintaining the File system Free space issues.
- Troubleshooting Day-to-Day issues with various Servers.
- Troubleshooting logon problems.
- Administrating of Users and Groups.
- Installing, upgrading and removing packages by using RPM and YUM
- Responsible to handle file & directory permissions and creation and deletion

Place: Bangalore

Date:

(Giri Orsu)