

# Arun Prasad K

## Devops Consultant

### Profile Summary (11+ years experience)

Devops Consultant with good experience in designing and implementing solutions for DevOps, Containerization and Cloud Automation.

Areas of expertise include:

- Kubernetes cluster administration including upgrades, work load deployments, addon deployments and RBAC setup.
- Experience with deploying service mesh (**Istio**) for traffic management, creating network policies and deploying Ingress with TLS configured.
- Experience on setting security best practices for Kubernetes clusters using **pod security policies**, container sandbox's like **gvisor**, image scanning tools like **Trivy**, runtime security analysis using **Sysdig Falco** and cluster compliance using **Kube bench**.
- Experience on setting up **Rancher** for multi cluster management.
- Extending Kubernetes by creating custom controllers and Custom Resource Definitions. (sample work can be found at: <https://github.com/aranprasadmudaliar/chronos>)
- Good knowledge of utilizing "**k8s.io/client-go**" package for building custom controllers.
- Experience in setting up **GitOps** model using **ArgoCD**.
- Hands on experience with **AWS EC2, Lambda, API Gateway, EKS and S3**.
- Hands on experience with **Azure Compute, AKS and ACR**.
- Experience with **Terraform** templates for **IaaS automation**.
- Hands on experience with **Azure Devops Pipelines** for Azure infrastructure automation and **CICD**.
- Knowledge of writing custom Azure devops **web extensions**.
- Hands on experience with **Github Actions** for **CICD automation**.
- Good knowledge of **Golang** programming language along with frameworks like **Cobra** and **Revel**.

Please visit my medium account to checkout the posts that I have published on Kubernetes.

**Linkedin:** <https://www.linkedin.com/in/aranprasadk>

**Medium:** <https://aranprasad86.medium.com>

**Github:** <https://github.com/aranprasadmudaliar>



## Certificates

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### CKS

Certified Kubernetes Security Specialist

### CKA

Certified Kubernetes Administrator

### HashiCorp Certified Terraform Associate

### CRO Level 1

Certified Rancher Operator

### RHCE

Redhat Certified Engineer

### RHCSA

Redhat Certified System Administrator

### CCNA

Cisco Certified Network Associate

## Skills

Kubernetes	★★★★★
Container Security	★★★★★
Terraform	★★★★★
CICD (Azure Devops, Jenkins, Github Actions)	★★★★★
AWS	★★★★★
Azure	★★★★★
Golang	★★★★★
Shell scripting	★★★★★

## Personal Info

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Tamil Nadu

## Education

2004-05 - 2008-05

**SVMIT**

*B.E, Computer Science*

## Work History

2016-05  
- present

### Devops Consultant

*Hexaware Technologies Pvt Ltd, Chennai*

Devops R&D (practice team):

- Designing Devops, Infrastructure automation and Containerization solutions for existing customers.
- Developing POC and POV models for onboarding new customers in cloud, devops and kubernetes space.
- Worked on a solution to deploy and manage multiple Kubernetes cluster using Rancher.
- The above solution makes use of Rancher REST API and can be integrated with Devops pipelines (tested with Azure Devops and Jenkins) or ServiceNow.
- Developed a GitOps platform that runs on GitHub workflows, ArgoCD and Kubernetes.
- Developed an service catalog based IaC automation for AWS that uses ServiceNow, AWS Lambda, API Gateway, Boto3 and Terraform.
- The above automation was later extended to cover EaaS.
- Currently, working on implementing the IaC solution for a leading financial company.
- Performed devops assessment (specifically for containerization requirements) for various customers.
- Performed detailed comparison of tools that provide multi cluster management capabilities. (Rancher vs CAPI)
- Experienced in providing demo's, webinars and showcasing platform capabilities to customers.
- Actively involved with the sales/marketing/product managers on onboarding a new customer, from RFP study till SOW sign off.
- Provide training's on containerization technologies like Kubernetes and docker in Hexavarsity.

Ernst and Young:

- Implemented Azure Devops Pipelines to deploy Azure Kubernetes Cluster with custom configurations based on requirement provided by different teams.
- Wrote Azure Devops pipelines scripts for deploying resources in Azure.
- Wrote custom VSTS extensions based on clients requirements.
- Assisted the product team to implement automation to deploy AKS cluster from Selfservice Portal.

- Co-ordinated with InfoSec team in designing the minimum security baseline for AKS cluster (image scanning, content validation, Cluster configurations etc).
- Integrated the application of above MSB's in the AKS deployment pipeline.
- Implemented backup solution for AKS cluster using Heptio Ark (now Velero).
- Deployed Istio as a service Mesh for traffic management and canary releases for specific teams.
- Implemented policies to restrict user access to clusters using Azure RBAC and restrict activities at namespace level using Pod Security Polices.
- Setting up TLS enabled Ingress controllers (nginx and Application Gateway) for applications.
- Setting up cluster monitoring using Prometheus and Grafana for visualizing the metrics.
- Setting up Harbor(with MSB) as private container registry and Helm repository for project teams, on demand basis.
- Understand the application architecture and assist project teams to migrate existing microservices to docker images.
- Good experience in writing Kubernetes manifests and using Helm charts.
- Troubleshoot cluster and workload issues faced by application teams and perform RCA.

Conduent (Xerox):

- Lead a team of 4 members and successfully delivered the project in the committed timeframe.
- Designed and implemented CICD solution for Java, NodeJS and Angular based applications.
- Wrote Terraform templates to automate infrastructure provisioning (lower environments) in AWS
- The automation consisted of deploying EC2 instances and later configuring it using Terraform provisioners.
- Deploying EKS, ECR and networking resources was also a part of this automation.
- Wrote GitHub (Actions) workflow templates to automate build, testing and deployment of applications.
- Helped to upskill the team on newer technologies and also provided technical guidance.

2013-11  
- 2016-05

## **Systems Engineer**

*CGI Inc, Chennai*

- Being a part of tools team, I had the opportunity to work on multiple automation tools.
- Worked on setting up puppet infrastructure for multiple clients.
- Managed server configurations using prebuilt Puppet modules.
- Wrote custom manifests based on clients requirements.
- Integrated configuration management in CICD pipelines using Jenkins and Puppet.
- Integrated Puppet with Foreman for managing configuration of AWS Ec2 instances.
- Got official training on Puppet from IIHT bangalore.
- Worked with project teams to migrate applications to docker infrastructure.
- Assisted development teams to port microservices to docker images.
- Started working on implementing container orchestration tools like Kubernetes and Docker swarm.
- Actively involved in a POV on Ayehu EYeshare tool for process

- Actively involved in a POV on Ayehu Eyeshare tool for process automation.
- Actively involved in a POV on Openstack and received a CGI ARGO award for this initiative.

2010-11  
- 2013-11

## **Enterprise Analyst**

*Scope International, Chennai*

- Worked as a team member of CoE team.
- Worked on level 1 linux administration tasks assigned to the team.
- Proactively monitored banking applications and raised incidents in case applications are unavailable.
- Co-ordinated with tools, application, network teams etc in case of sev 1 incidents and performed RCA.
- Performed health checks of banking applications at regular intervals.
- Wrote shell and python scripts to automate routine tasks.
- Was responsible for creating workflow automation of core banking applications and monitoring the workflow using BMC Control-M.
- Was responsible for setting up monitoring of Linux and Windows servers using BMC Patrol.

2010-08  
- 2010-11

## **Technical Support Engineer**

*ZOHO, Chennai*

- Provided technical support for ManageEngine AD Manager product.
- Performed installation and configuration of the product in customer's environment.
- Troubleshoot technical issues faced by the customer ranging from installation, configuration and usage.
- Co-ordinated with development team for RFI from customers.
- Co-ordinated with development team to validate if a customer reported a bug and shared the updates with the customer.
- Respond to customer queries on AD Manager product on Zoho's technical blog posts.
- Provided online demonstration of the product to customers in APAC and US region.

2010-02  
- 2010-08

## **Technical Support (client Scope International)**

*Sumerusoft Pvt Ltd, Chennai*

- Started my career as a technical member of CoE team for client Scope International.
- Monitored banking applications deployed in different data centers of Standard Chartered bank across the globe.
- Received on job training on BMC Control-M tool.
- Monitored batch process of various banking applications scheduled in Control-M.
- Troubleshoot batch jobs in case of failures in Control-M.
- Received on job training on level 1 Linux administration activities.