



## Deployment of SOA in Kubernetes

## Customer: Arvind Internet

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### Customer Engagement

Arvind Internet runs an e-commerce platform named [www.nnnow.com](http://www.nnnow.com) and a large B2B marketplace platform for ecommerce listing. Powerupcloud helped AIL to implement a large Service Based Architecture on Kubernetes.

### Problem Statement

- There are about 30 micro-services supporting [nnnow.com](http://nnnow.com) application and hence deployment was a challenge.
- Memory based scaling was not implemented, and the application was using network IO and CPU based. As their application was memory intensive, this caused application downtime

### Proposed Solution

- Powerupcloud team migrated the micro-services to Kubernetes based architecture in production environment.
- Powerupcloud implemented a 12-node Kubernetes cluster with auto-scaling enabled and each node running 15 pods.
- Powerupcloud implemented memory-based scaling which improved the availability of the application.
- Powerupcloud team implemented Liveness and Readiness for each service health check when the pod comes up.
- All logs were pushed to a centralized ElasticSearch cluster for error analysis.
- Powerupcloud team continues to provide 24\*7 support to the customer in AWS management & Devops management.

### Outcomes of Project

- The application uptime SLA of 99.95% was achieved by moving to memory based scaling and improving overall Kubernetesstack's stability.
- The AWS setup was re-architected to bring down the cost by 60%. 3. Zero downtime deployments.