

## Customer Engagement

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

## Problem Statement

1. There are about 30 micro-services supporting [nnnow.com](http://nnnow.com) application and hence deployment was a challenge.
2. 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

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

## Outcomes of Project

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