



Aspire Systems imparts **150% Release Efficiency** for a US-based **Chemical Industry Solutions Provider**



aspire
SYSTEMS



*attention.
always.*



The Customer:

Our customer is one of the leading providers of marketing, sales and distribution services for Manufacturing Giants in Chemical Industry.

The Challenge:

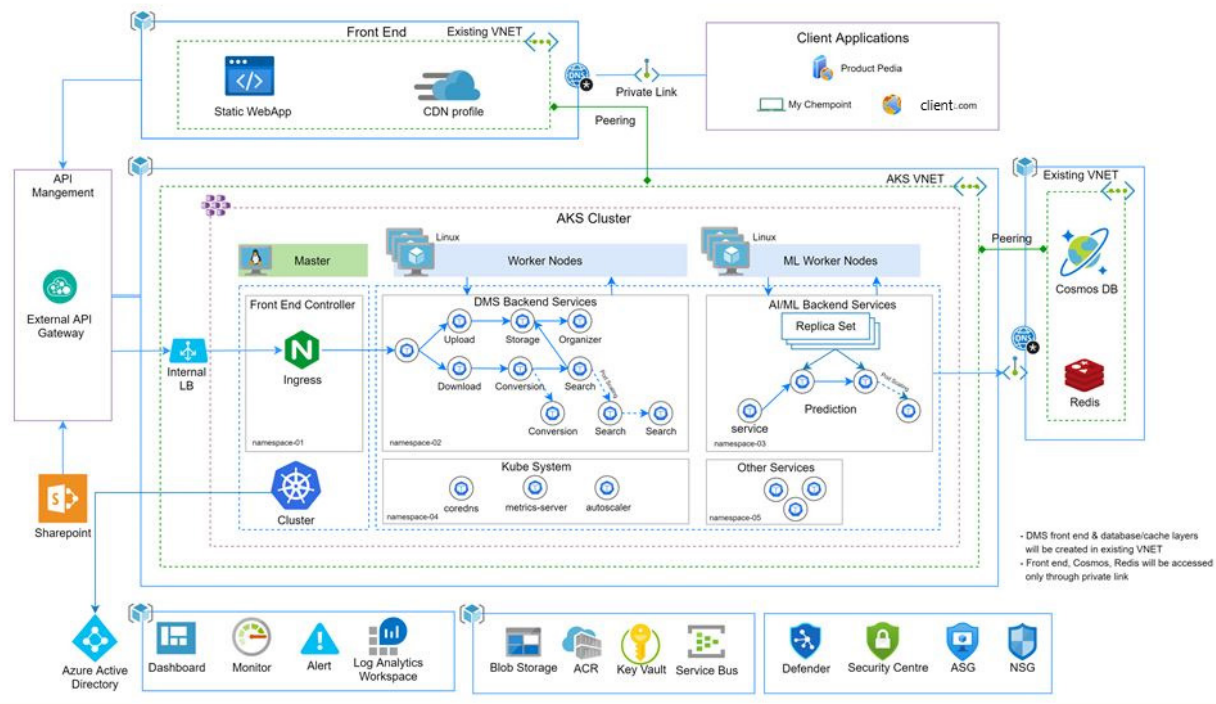
- Lack of a single source of truth for product collateral documents with duplicates and old versions of product documents.
- There was no intelligent mechanism to classify and search the documents.
- Existing Document management interface was not intuitive with more manual work for users.
- Poor Business user adoption of the existing DMS and documents were not uploaded as expected by users promptly.
- Lack of fast and efficient search mechanism.
- Build and deployment management was not good enough to handle the huge customer base data.

The Solution:

- Aspire Systems Devops team architecture the end to end DMS Micro-services deployment.
- Azure Devops has been used to implement the devopsified solution.
- Docker images has been build and deployed at faster rate.
- Automated CI/CD has implemented for all the micro-services to deploy in to Azure Kubernetes which reduced the huge manual effort in deployment.
- The Aspire Team design of Kubernetes architecture made them easier to auto scale the pods as when required, which serves all the https requests coming from ingress.
- For continuous inspection of code quality SonarQube has been used.
- To ensure the security of Kubernetes Prisma Cloud has been implemented to scan the vulnerabilities and infra monitoring.

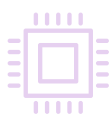


Flow Diagram





Technology Snapshot:



- » **CICD Tools:** Azure DevOps
- » **Code Quality Check Tools:** SonarQube
- » **Artifact Management:** Azure Artifact
- » **Secret Management:** Azure Keyvault
- » **Deployment Platform:** Azure AKS, Azure ACR ,Docker
- » **Log Management:** App insights, Azure Monitor
- » **Languages:** Bash,Python,YOLO,Django
- » **Security:** Prisma Cloud
- » **Advanced (Computer Systems):** Artificial Intelligence (AI), Machine Learning (ML)

The Results & ROI:

- The client was very much happy, because reading the thousands of documents manually and gathering the Meta data from it approx. it takes 120 minutes.
- But with the Aspire's idea implementation it takes only **15 minutes.**
- With automated features the productivity has been increased up to **70%.**
- The release efficiency has been increased up to **150%.**
- The user efficiency improved removing the manual work for entering metadata reading through multiple pages.
- Using the auto scaling feature, huge load was managed with cost efficient way.
- The documents were more accurate without duplicate/ incorrect versions saving the customer from compliance penalty
- Users quickly retrieved the required documents using the fast and intuitive search interface.



The Future Impact:

- Aspire team ensured the design ensured that the customer can handle enormous number of end users at ease.
- The team also implemented industry best practices across the development and also the workflow. Thus implemented a proper DevOps process and culture.



Aspire Systems is a global technology services firm serving as a trusted technology partner for our customers. We work with some of the world's most innovative enterprises and independent software vendors, helping them leverage technology and outsourcing in our specific areas of expertise. Our core philosophy of "Attention. Always." communicates our belief in lavishing care and attention on our customer and employees.

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