

7 January, 2026

# NEWSLETTER

## Johor Port, Pasir Gudang

### Technologies & issues discussed

Johor Port's ecosystem is characterized by a high availability infrastructure, featuring a 50 kilometer fiber optic backbone and private 4G LTE connectivity. Which supports platforms such as JPBI e-Community and PAMS. Operational continuity and data security are maintained through an 'active-active' data center with hybrid cloud redundancy. Cyber resilience is enhanced by continuous 24/7 Security Operations Center (SOC) . This is for monitoring and regular vulnerability assessments. Development efforts integrate both low-code and traditional programming methodologies, while advanced analytics employing Python and Power BI facilitate data-driven decision-making.

### SUMMARY OF THE VISIT

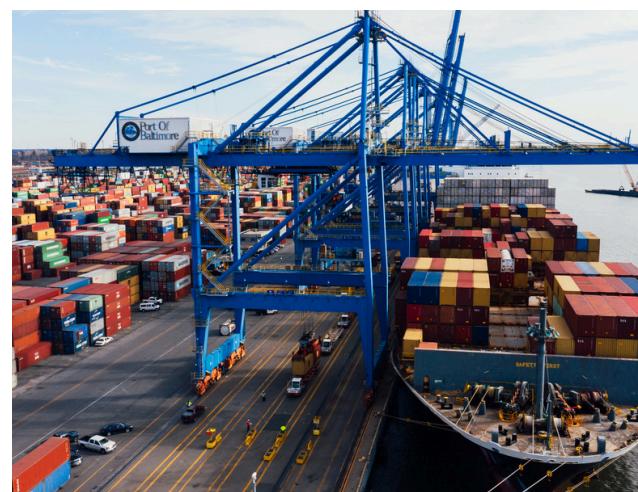
Our industrial visit to Johor Port on 7 January 2026 provided deep insights into the port's high-availability infrastructure. We explored how the private 4G LTE connectivity and a 50km fiber optic backbone support essential platforms like JPBI e-Community and PAMS. The session highlighted the port's commitment to operational continuity through its 'active-active' data center redundancy, ensuring seamless logistics management

The visit also focused on the integration of advanced analytics and cyber resilience. We observed the critical role of the 24/7 Security Operations Center (SOC) in monitoring vulnerabilities and maintaining data security. Furthermore, seeing Python and Power BI in action for real-time, data-driven decision-making demonstrated how modern programming methodologies are transforming traditional port operations into a smart, tech-driven ecosystem



### Business Application

- JPBI e-community: main portal or gateway for accessing Johor Port's strategic application systems such as system for container terminal, bulk and break bulk terminal and marine services (MSIS).
- Port Access Management System (PAMS): Online, digital system used by Johor Port to manage access, permits and security for vehicles and people entering port area.
- Enterprise Resources Planning (ERP)



# REFLECTIONS

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## SANTTHYA RAVICHANDRAN



The industrial visit to Johor Port gave me a better understanding of how technology supports port operations. Through the speeches by the ICT and infrastructure department, I learned how digital systems are used to improve efficiency and ease daily work processes. Overall, this visit increased my awareness of the importance of ICT in industrial environments.

The visit to Johor Port helped me see how modern technology supports large-scale operations in real life. I was amazed by how their systems ensure smooth workflow, strong security and uninterrupted services. The use of digital tools for analysis showed me how important smart decision-making is. Overall, the visit inspired me to appreciate how technology is reshaping traditional industries.

## MUHAMMAD YASIR NAWAZ



From observing Johor Port's resilient ecosystem, particularly the 'active-active' disaster recovery protocol. Which emphasized how technology safeguards economic livelihoods by ensuring business continuity. This exposure had redefined my professional motivation. Highlighting the critical need to build low-code development and data analytics skills. I'm now driven to bridge the gap between theoretical computer science and its practical application in sustaining vital national infrastructure.

The industrial visit provided insight into the integration of technology within maritime logistics. Engaging with the ICT and Infrastructure departments offered a firsthand look at how digital systems are strategically deployed to optimize efficiency and streamline operational workflows. The experience has deepened my appreciation for the pivotal role of ICT in maintaining competitive and industrial environments.

## SITI ZULAIKHA BINTI ABDOL RAZID



## NILIMA RAHMAN



Visiting Johor Port was an eye-opening experience. I was particularly impressed by their 'active-active' disaster recovery protocol and how they use high-availability infrastructure to ensure seamless operations. Seeing the practical application of Python and Power BI for data-driven decision-making has truly inspired me. This visit successfully bridged the gap between my theoretical knowledge and the real-world complexities of managing a vital national gateway.