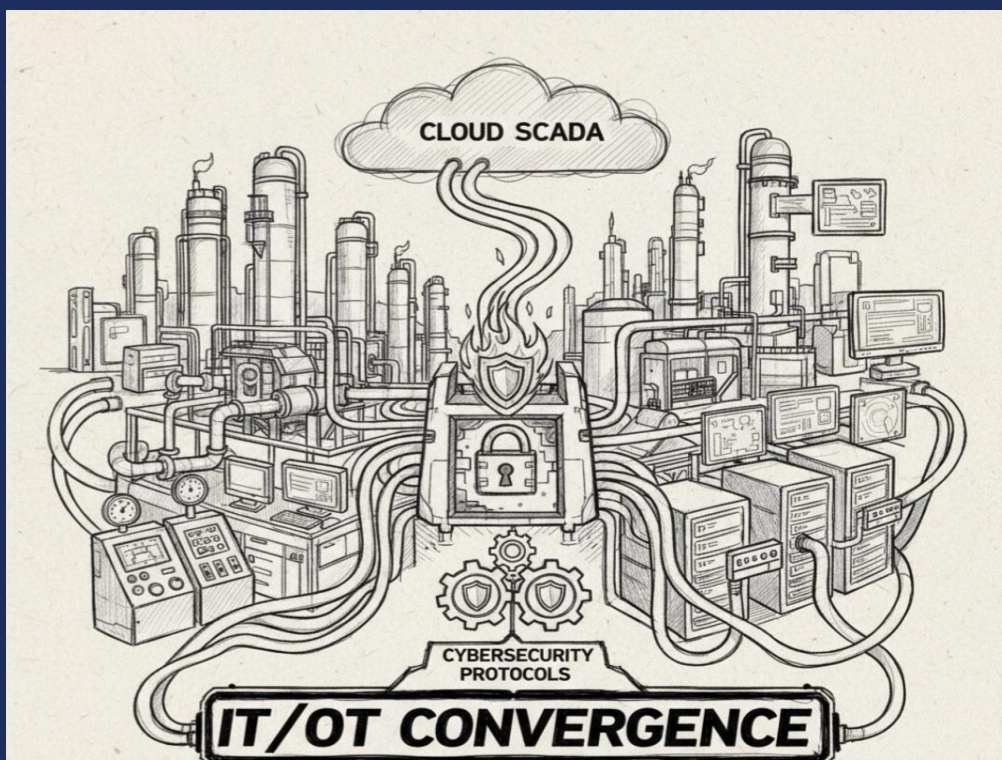ISACA®
Malaysia Chapter

Securing IT/OT Convergence in Oil and Gas Sector: Bridging the Availability-Confidentiality Divide

Exclusive half day talk for ISACA Malaysia Members

Event Details

DATE: 07 October 2025
TIME: 2.00PM - 5.00PM
VENUE: Kuala Lumpur Golf & Country Club: KLGCC
Free for ISACA Members / Non Members RM150.00

ELIGIBLE FOR 3 CPE HOURS

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About the training

In the high-stakes environment of the oil and gas sector, the convergence of Information Technology (IT) and Operational Technology (OT) is a double-edged sword.

While it unlocks unprecedented operational efficiency and data-driven insights, it also dramatically expands the cyber-attack surface, exposing critical industrial infrastructure to unprecedented risk. Traditional IT security models fall short as they often prioritize confidentiality over the absolute availability and safety imperatives of OT environments. This specialized training moves beyond theory to provide a practical, architect's perspective on securing this complex convergence.

We will dissect the unique cybersecurity challenges inherent in integrated IT/OT environments, where a ransomware attack can transition from a data breach to a physical operational catastrophe. The session is designed to guide professionals through the intricate process of designing and implementing robust, resilient cyber security controls that respect the distinct priorities of both worlds.

Our focus is on building a pragmatic defense-in-depth strategy that actively bridges the availability-confidentiality divide, ensuring both operational continuity and robust security in the face of evolving threats.

What you'll learn

You will gain practical knowledge on:

- Identifying and mitigating industry-specific cyber threats targeting oil and gas critical infrastructure, including targeted ransomware and supply chain attacks.
- Applying OT-centric risk management frameworks like IEC 62443, focusing on consequence-based analysis and the zone & conduit model for effective segmentation.
- Architecting secure IT/OT network designs with robust Demilitarized Zones (DMZs), unidirectional gateways, and secure remote access solutions.
- Adapting core Zero Trust principles—such as "never trust, always verify"—to an OT context without compromising system availability or safety integrity.

Who should attend

This event is suitable for all level of professionals with work experience in IT Audit, Audit Analyst and Data Analytics Specialist, Chief Audit Executives (CAEs) or Assurance Leaders seeking to implement Continuous Auditing strategies, Compliance Officers and Risk Managers.

Certified Speaker Profile

Zarul Hamzah is the Senior Manager of Cyber Strategy, Portfolio & Performance at PETRONAS, Malaysia's globally integrated oil and gas corporation. In this role, he leads strategic initiatives to strengthen the organization's cybersecurity posture, particularly in safeguarding critical operational technology (OT) infrastructure. His expertise is evident in PETRONAS's proactive approach to OT security, which includes implementing international standards like ISA/IEC 62443 and fostering IT-OT convergence to mitigate evolving cyber threats .

Zarul is a recognized thought leader, having presented at major industry events such as the 5G & OT Security Summit (5GOT) 2025.. His work is integral to PETRONAS's broader institutionalized capability-building roadmap, which aims to create a resilient cybersecurity culture and secure Malaysia's energy sector against sophisticated cyber threats

Zarul Hamzah CISSP
Head Of Cyber Strategy
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Contact us for more details

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