



# Cybersecurity

---

In the context of Spatial Dimension's  
SDLC and Hosting Infrastructure

Sulaiman - Technical Support & Infrastructure Manager

# Agenda

- **Introduction**
- **Security by design & Secure coding practices**
- **Secure hosting architecture**
- **Compliance Standards**

# **Introduction**

- **About me**
  - IT Manager -> Support & Infrastructure -> Information Security (infoSec Lead)
- **The importance of cybersecurity**
  - Protecting Sensitive Data
  - Maintaining Business Continuity
  - Ensuring Regulatory Compliance
  - Building Customer Trust

# Security by design

- **Shift Left:** Integrating security from the earliest stages of the software development lifecycle (SDLC). Don't bolt it on at the end.
- **Threat Modeling:** It's importance to identify potential threats and vulnerabilities before coding begins. For example, considering the software architecture and how to securely model it for publicly hosted sites.

# Secure coding practices

- **Static and Dynamic Analysis:** Using static analysis tools (SAST) and dynamic analysis tools (DAST) to automate the process of finding security vulnerabilities in code. Integrating these tools into the CI/CD pipeline.
- **Dependency Management:** Maintaining third-party libraries and frameworks. It's important to keep dependencies up to date and using vulnerability scanning tools.

# Secure hosting Infrastructure

- **Principle of Least Privilege:** Granting only the necessary permissions to users and processes.
- **Defense in Depth:** Implementing multiple layers of security controls (e.g., firewalls, intrusion detection systems, input validation).
- **Segmentation:** Isolating different parts of the system to limit the impact of a breach.

# Compliance

- **Increased Trust:** Clients can have greater confidence that their data is being handled securely and responsibly, leading to increased trust in our software solution.
- **Reduced Risk:** A compliance standard demonstrates that a software provider has implemented a robust security framework to protect client data.
- **How we do get there?** ISO 27001 certification



# Questions

---